

TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF

FOR

Vindhyachal Super Thermal Power Station Stage-IV

(From 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 **Vindhyachal Super Thermal Power Station Stage-IV(1000MW)** 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 **Vindhyachal Super Thermal Power Station Stage-IV(1000)** 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)
VidyutBhavan, Race Course
Vadodara – 390 007
4. Chattisgarh State Power Distribution Co. Ltd.,
(Successor of Chattisgarh State Electricity Board)
P.O. Sundar Nagar,
Danganiya, Raipur – 492013
5. Government of Goa,
Through its Chief Engineer (Electricals)
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. Vindhyachal Super Thermal Power Station Stage – IV (2x500 MW) (hereinafter referred to as VSTPS-IV) is one such station located in the State of Madhya Pradesh. The power generated from VSTPS-IV is being supplied to the respondents herein above.
- 4) The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2019 (hereinafter '**Tariff Regulations 2019**') which came into force from 01.04.2019, specifying the terms & conditions and methodology of tariff determination for the period 01.04.2019 to 31.03.2024.
- 5) Regulation 9(2) of Tariff Regulations 2019 provides as follows:

“(2) In case of an existing generating station or unit thereof, or transmission system or element thereof, the application shall be made by the generating company or the transmission licensee, as the case may be, by 31.10.2019, based on admitted capital cost including additional capital expenditure already admitted and incurred up to 31.3.2019 (either based on actual or projected additional capital expenditure) and estimated additional capital expenditure for the respective years of the tariff period 2019-24 along with the true up petition for the period 2014-19 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2014.”

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

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

- 6) The tariff of the VSTPS-IV for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 10.03.2017 in Petition No. 339/GT/2014 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014. Further, The Petitioner thereafter had filed an Appeal (being No. 240 of 2017) in Appellate Tribunal of Electricity on certain aspects of the order dated 10.03.2017. The appeal is under consideration of the Hon'ble Appellate Tribunal of Electricity. The petitioner vide affidavit dated 15.11.2019 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 10.03.2017 in Petition no 339/GT/2014 has allowed a capital cost of Rs 5905.40 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. 6336.93 Crs based on the actual expenditure after truing up exercise for the period



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2014-19. Accordingly, the Petitioner has adjusted an amount of Rs. (+) 431.53 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 6336.93 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 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
Allocation of Water for VSTPS*	149 MCM
Rate of Water charges*	Rs 5.50/Cubic Meter
Total Water Charges*	1623 Lakh

*As per truing up petition filed for the instant station

** Water Charges during 2019-24 has been claimed on the basis of water charges of FY 2018-19 with an escalation of 3.5%

- 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

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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 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 the oeder 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 prescribe for sharing of 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."

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 Hon'ble Commission has prescribed boiler efficiency and turbine heat rate separately for deriving the unit heat rate where the Unit Heat Rate is not guaranteed by the suppliers. It is submitted that the instant station was envisaged during the period 2009-14 and equipments including SG and TG specifications for tendering / award was stipulated considering the boiler efficiency and the turbine heat rate prescribed by the Hon'ble Commission in the Tariff Regulations at that time. Based on the same the equipments were ordered through international competitive bidding. It was not possible for the petitioner to specify the efficiency parameters at the time of finalizing the contracts on the instant station as per the efficiency parameters specified in Tariff Regulations 2019-24 which are more stringent. .

In a similar case, Hon'ble Commission in its order dated 20.02.2014 in Petition No. 160/GT/2012 has considered the design parameters for computing Gross Heat Rate of the station with appropriate operating margin and has stated as under:

"161. As per the guaranteed turbine cycle heat rate of 1945 kCal/kWh and boiler efficiency of 88.5% along with the deviation of 6.5 % as per the 2009 Tariff Regulations, the Gross Heat Rate works out to 2340.59 kcal/kWh. Without the margin of Auxiliary

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consumption of 6.5%, the Gross Heat Rate works out as 2197.74 kcal/kWh. In light of this, achieving a GSHR of 2220 kcal/kWh as per submission of the respondents 1 to 6 is not possible. Also, the EPC contract was finalized in 2006 and there was no possibility for the petitioner to specify the Station Heat Rate as per the 2009 Tariff Regulations. In view of above, we consider a GSHR of 2340.59 kCal/kWh based on guaranteed turbine cycle heat rate 1945 kCal/kWh and boiler efficiency of 88.5% with a deviation of 6.5 % from the guaranteed design value."

Further, if the Petitioner had stipulated more stringent unit heat rate this would have increased the capital cost commensurate to the efficiency parameters sought. The benefit of the lower capital cost due to lower efficiency parameters has already been passed onto the beneficiaries in terms of lower capital cost. If now the boiler efficiency for working out the normative heat rate is considered as 86% instead of the actual design efficiency of 84% the unit heat rate would be worked out to be 2358.84kcal/kwh and the operating margin available over the design heat rate would be 2.56% only which is much less than the operating margin of 5% allowed in the Tariff Regulations 2019. Moreover, it is submitted that boiler efficiency is largely a function of coal quality. In view of above submissions it is prayed that Gross Station Heat rate may be allowed as 2415 Kcal/kwh based on guaranteed turbine cycle heat rate of 1932 Kcal/kwh and boiler efficiency of 84% with a operating margin of 5 % from the guaranteed design value. The tariff computation attached at Appendix-I is based on considering Station Heat Rate as per design heat rate with applicable operating margin of 5%.

- 14) 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.

R (7)

- 15) Accordingly, it is prayed that Hon'ble Commission may be pleased to allow recover filing fee and publication fee directly from the beneficiaries.
- 16) 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.
- 17) 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
- 18) It is submitted that the petitioner is filing this tariff petition subject to the outcome of its various appeals/ petitions pending before different courts. Besides, the petitions filed by NTPC for determination of capital base as on 31.3.2019 through true-up exercise are pending before the Hon'ble Commission and would take some time. The Petitioner, therefore, reserves its right to amend the tariff petition as per the outcome in such appeals/ petitions, if required.

Prayers

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

- i) Approve tariff of VSTPS-IV 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) Consider station heat rate based on design heat rate with applicable operating margin.
- v) Pass any other order as it may deem fit in the circumstances mentioned above.



Petitioner



BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.....

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AND

IN THE MATTER OF

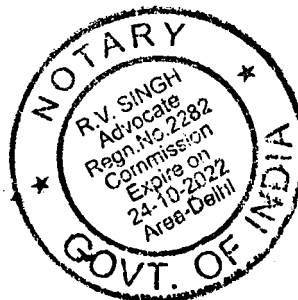
Petitioner: : NTPC Ltd.
NTPC Bhawan
Core-7, Scope Complex
7, Institutional Area, Lodhi Road
New Delhi-110 003

Respondents: 1. Madhya Pradesh Power Management
Company Limited,
Shakti Bhawan, Vidyut Nagar,
Jabalpur 482 008 and Others

AFFIDAVIT

I, Parimal Piyush, son of Late Shri Bharat Mishra aged about 44 years, resident of MP2/402, Magnolia Park, Eldeco Amantran , Sector-119, Noida-201301 do solemnly affirm and state as under:

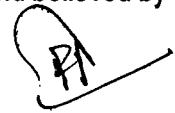
1. That I am the Deputy General Manager (Commercial) in NTPC Ltd. and am well conversant with the facts of the case and am competent to swear the present affidavit.
2. That I have read the contents of the accompanying Petition filed by NTPC and have understood the contents of the same.



A handwritten signature in black ink, appearing to be 'PP' with a long horizontal stroke extending to the right.

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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.



(Deponent)

Verification:

I, Parimal Piyush, 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 thisday of January 2020.



(Deponent)



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

Notary Public, DELHI

28 JAN 2020



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	NA
FORM- 4	Details of Foreign loans	✓
FORM- 4A	Details of Foreign Equity	NA
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	✓
FORM-5A**	Abstract of Claimed Capital Cost for the existing Projects	✓
FORM- 6	Financial Package upto COD	NA
FORM- 7	Details of Project Specific Loans	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-12A	Statement of unrecovered depreciation	✓
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	✓
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

11A ✓

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:	NA
	a. Detailed Project Report	NA
	b. CPM Analysis	NA
	c. PERT Chart and Bar Chart	NA
d. Justification for cost and time Overrun	NA	
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	***
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 truing-up

Summary of Tariff

Name of the Petitioner:		NTPC Limited													
Name of the Generating Station:		Vindhyachal Super Thermal Power Station Stage-IV													
Place (Region/District/State):		Northern Region/ Sonbhadra/ Uttar Pradesh													
S. No.	Particulars	Unit	Existing 2018-19						Amount in Rs. Lakhs						
			2019-20	2020-21	2021-22	2022-23	2023-24	4	5	6	7	8	9		
1	2	3													
1.1	Depreciation	Rs Lakh	32,803.23	33,499.06	33,763.91	34,190.43	34,583.40	34,622.53							
1.2	Interest on Loan	Rs Lakh	22,530.62	20,414.05	18,145.73	15,995.68	14,366.72	12,326.58							
1.3	Return on Equity	Rs Lakh	37,487.77	35,912.06	36,195.99	36,653.23	37,074.51	37,116.45							
1.4	Interest on Working Capital	Rs Lakh	7,421.51	5,819.71	5,845.04	5,874.36	5,912.54	5,930.27							
1.5	O&M Expenses	Rs Lakh	21,899.16	25,029.88	25,962.69	26,935.97	27,950.62	28,997.65							
1.6	Special Allowance (If applicable)	Rs Lakh	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	122142.30	120674.75	119913.36	119649.67	119887.78	118993.48							
2.1	Landed Fuel Cost (coal/gas/RLNG/liquid) as per FSA approved by beneficiaries	Rs/Ton							2231.09						
	(%) of Fuel Quantity	(%)							100%						
2.2	Landed Fuel Cost Imported Coal as per FSA approved by beneficiaries								NA						
	(%) of Fuel Quantity								NA						
2.3	Landed Fuel Cost (coal/gas/RLNG/liquid) other than FSA	Rs/Ton							NA						
	(%) of Fuel Quantity	(%)							NA						
2.4	Landed Fuel Cost Imported Coal other than FSA.								NA						
	(%) of Fuel Quantity								NA						
2.5	Secondary fuel oil cost	Rs/Unit							0.025						
	Energy Charge Rate ex-bus (Paise/kWh)	Rs/Unit							1.615						

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(Petitioner)

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Vindhychal Super Thermal Power Station Stage-IV

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	6,33,692.87	6,41,004.87	6,43,770.87	6,57,234.87	6,58,723.87
2	Add: Addition during the year/period	7,312.00	2,766.00	13,464.00	1,489.00	-
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	6,41,004.87	6,43,770.87	6,57,234.87	6,58,723.87	6,58,723.87
7	Average Capital Cost	6,37,348.87	6,42,387.87	6,50,502.87	6,57,979.37	6,58,723.87

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	633692.87	641004.87	643770.87	657234.87	658723.87
2	Add: Addition during the year / period	7312.00	2766.00	13464.00	1489.00	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	641004.87	643770.87	657234.87	658723.87	658723.87
7	Average Capital Cost	637348.87	642387.87	650502.87	657979.37	658723.87

**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



(Petitioner)

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Vindhyachal Super Thermal Power Station Stage-IV

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)	1,90,107.86	1,92,301.46	1,93,131.26	1,97,170.46	1,97,170.46	197617.16	
2	Less: Adjustment in Opening Equity	-						
3	Adjustment during the year		0.00	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	1,90,107.86	1,92,301.46	1,93,131.26	1,97,170.46	1,97,170.46	1,97,617.16	
5	Add: Increase in equity due to addition during the year / period	2193.60	829.80	4039.20	446.70	446.70	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	0.00	0.00
8	Less: Decrease due to reversal during the year / period	0.00	0.00	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	0.00	0.00
10	Net closing Equity (Normal)	1,92,301.46	1,93,131.26	1,97,170.46	1,97,617.16	1,97,617.16	1,97,617.16	
11	Average Equity (Normal)	1,91,204.66	1,92,716.36	1,95,150.86	1,97,393.81	1,97,393.81	1,97,617.16	
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782	18.782	18.782
13	Total ROE	35,912.06	36,195.99	36,653.23	37,074.51	37,074.51	37,116.45	



Name of the Petitioner: NTPC Limited

Name of the Generating Station: Vindhyachal Super Thermal Power Station Stage-IV

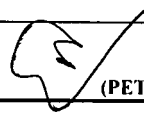
Statement showing Return on Equity at Weighted Average Interest on Laon

S. No.	Particulars	Amount in Rs. Lakhs				
		2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)					
1	Gross Opening Equity (Normal)	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 (%)	9.213	9.224	9.226	9.621	10.171
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	Vindhyachal Super Thermal Power Station Stage-IV	
Unit(s)/Block(s)/Parameters	Unit-I	Unit-II
Installed Capacity (MW)	500	500
Schedule COD as per Investment Approval	18-07-2012	18-01-2013
Actual COD /Date of Taken Over (as applicable)	01-03-2013	27-03-2014
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 .	166.7	166.7
Main Steam Temperature at Turbine inlet (°C) ¹	537	537
Reheat Steam Pressure at Turbine inlet (kg/Cm ²) ¹	39.6	39.6
Reheat Steam Temperature at Turbine inlet (°C) ¹	535	535
Main Steam flow at Turbine inlet under MCR condition (tons /hr) ²	1590	1590
Main Steam flow at Turbine inlet under VWO condition (tons /hr) ²		
Unit Gross electrical output under MCR /Rated condition.(MW) ²	500	500
Unit Gross electrical output under VWO condition (MW) ²	525	525
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) ³	1932	1932
Conditions on which design turbine cycle heat rate guaranteed(kcal/kwhr)		
% MCR	100	100
% Makeup Water Consumption	0	0
Design Capacity of Make up Water System(% of throttle steam flow)	3%	3%
Design Capacity of Inlet Cooling System	54300	54300
Design Cooling Water Temperature (°C)	33	33
Back Pressure(Average condenser pressure in mmHg(A))	0.1047	0.1047
Steam flow at super heater outlet under BMCR condition (tons/hr)	1590	1590
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm ²)	178	178
Steam Temperature at suner heater outlet under BMCR condition (°C)		
Steam Temperature at Reheater outlet at BMCR condition (°C)	540	540
Design / Guaranteed Boiler Efficiency (%) ⁴		
Design Fuel with and without Blending of domestic/imported coal (GCV) Domestic Design coal	568	568
Blended Coal (Domestic Design 70%+ Imported 30%)	84.00%	84.00%
	3300(HHV)	3300(HHV)
Type of Cooling Tower	Induced Draft	Induced Draft
Type of cooling system⁵	Counter Flow Type	Counter Flow Type
Type of Boiler Feed Pump⁶	Steam Driven	Steam Driven
Fuel Details⁷		
-Primary Fuel	Coal	Coal
-Secondary Fuel	LDO	LDO
-Alternate Fuels		
Special Features/Site Specific Features⁸		
Special Technological Features⁹		
Environmental Regulation related features¹⁰	ESP	ESP
Any other special features	FGD & Denox under implementation	
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.,		
		 (PETITIONER)

Normative parameters considered for tariff computations

Name of the Petitioner:		NTPC Limited					
Name of the Generating Station:		Vindhyachal Super Thermal Power Station Stage-IV					
(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** \$\$	%	-	7.603	7.612	7.613	7.940	8.393
Effective Tax Rate	%	2154.9000%	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	2375.22	2415.00	2415.00	2415.00	2415.00	2415.00
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	1220000			1220000		
SBI 1 Year MCLR plus 350 basis point3	%	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



Petitioner

Part-I
FORM-3A
ADDITIONAL FORM

Calculation of O&M Expenses

Name of the Company : **NTPC Limited**

Name of the Power Station : **Vindhyachal Super Thermal Power Station Stage-IV**

S.No.	Particulars	Amount in Rs. Lakhs							
		2019-20	2020-21	2021-22	2022-23	2023-24	7	8	
1	2	3	4	5	6	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	1679.54	1738.32	1799.17	1862.14	1927.31			
2b	Security expenses	840.34	924.37	1016.81	1118.49	1230.34			
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	25029.88	25962.69	26935.97	27950.62	28997.65			

** Shall be provided at the time of truing up



Petitioner

DETAILS OF FOREIGN LOANS

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

Name of the company: **NTPC LIMITED**
 Name of the Power Station: **Vindhyachal-IV**
 Exchange Rate as on 31-03-2019: **USD = Rs. 69.77** **EUR = Rs. 78.84** **JPY 0.6343**

	20% (Amount in Lacs)				20% (Amount in Lacs)				20% (Amount in Lacs)			
	1	2	3	4	1	2	3	4	1	2	3	4
Financial Year (Starting from COD)	2019-20 (01.04.2019 to 31.03.2020)				2020-21 (01.04.2020 to 31.03.2021)				2021-22 (01.04.2021 to 31.03.2022)			
1	Date	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)
5.625 % Euro Bonds 2021	14-01-2019	987.00	69.77	68,862.99	01-04-2020	987.00	69.77	68,862.99	01-04-2021	987.00	69.77	68,862.99
Currency 1 USD	01-04-2019	987.00	69.77	68,862.99	01-04-2020	987.00	69.77	68,862.99	01-04-2021	987.00	69.77	68,862.99
At the date of drawl	01-04-2019	987.00	69.77	68,862.99	01-04-2020	987.00	69.77	68,862.99	01-04-2021	987.00	69.77	68,862.99
Loan repayment upto previous period	01-04-2019	987.00	69.77	68,862.99	01-04-2020	987.00	69.77	68,862.99	01-04-2021	987.00	69.77	68,862.99
Net loan at the Beginning of the period	14-07-2019	27.76	69.77	1,936.77	14-07-2020	27.76	69.77	1,936.77	14-07-2021	27.76	69.77	1,936.77
Schedule repayment date of principal	14-07-2019	7.76	69.77	541.19	14-07-2020	7.76	69.77	541.19	14-07-2021	7.76	69.77	541.19
Schedule payment date of interest	14-07-2019	7.76	69.77	541.19	14-07-2020	7.76	69.77	541.19	14-07-2021	7.76	69.77	541.19
Withholding tax including surcharge on interest	14-07-2019	7.76	69.77	541.19	14-07-2020	7.76	69.77	541.19	14-07-2021	7.76	69.77	541.19
Schedule repayment date of principal	14-01-2020	27.76	69.77	1,936.77	14-01-2021	27.76	69.77	1,936.77	14-01-2022	27.76	69.77	1,936.77
Schedule payment date of interest	14-01-2020	7.76	69.77	541.19	14-01-2021	7.76	69.77	541.19	14-01-2022	7.76	69.77	541.19
Withholding tax including surcharge on interest	14-01-2020	7.76	69.77	541.19	14-01-2021	7.76	69.77	541.19	14-01-2022	7.76	69.77	541.19
At the end of Financial Year	31-03-2020	987.00	69.77	68,862.99	31-03-2021	987.00	69.77	68,862.99	31-03-2022	987.00	69.77	68,862.99

	11% (Amount in Lacs)				11% (Amount in Lacs)				11% (Amount in Lacs)			
	1	2	3	4	1	2	3	4	1	2	3	4
Financial Year (Starting from COD)	2019-20 (01.04.2019 to 31.03.2020)				2020-21 (01.04.2020 to 31.03.2021)				2021-22 (01.04.2021 to 31.03.2022)			
1	Date	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)
4.75% Eurobonds 2022	02-10-2018	531.51	69.77	37,083.10	01-04-2020	531.51	69.77	37,083.10	01-04-2021	531.51	69.77	37,083.10
Currency 1 USD	01-04-2018	531.51	69.77	37,083.10	01-04-2020	531.51	69.77	37,083.10	01-04-2021	531.51	69.77	37,083.10
At the date of drawl	01-04-2018	531.51	69.77	37,083.10	01-04-2020	531.51	69.77	37,083.10	01-04-2021	531.51	69.77	37,083.10
Loan repayment upto previous period	01-04-2018	531.51	69.77	37,083.10	01-04-2020	531.51	69.77	37,083.10	01-04-2021	531.51	69.77	37,083.10
Net loan at the Beginning of the period	02-04-2019	12.62	69.77	880.72	02-04-2020	12.62	69.77	880.72	02-04-2021	12.62	69.77	880.72
Schedule repayment date of principal	02-04-2019	0.73	69.77	50.86	02-04-2020	0.73	69.77	50.86	02-04-2021	0.73	69.77	50.86
Schedule payment date of interest	02-04-2019	0.73	69.77	50.86	02-04-2020	0.73	69.77	50.86	02-04-2021	0.73	69.77	50.86
Withholding tax including surcharge on interest	02-04-2019	0.73	69.77	50.86	02-04-2020	0.73	69.77	50.86	02-04-2021	0.73	69.77	50.86
Schedule repayment date of principal	02-10-2019	12.62	69.77	880.72	02-10-2020	12.62	69.77	880.72	02-10-2021	12.62	69.77	880.72
Schedule payment date of interest	02-10-2019	0.73	69.77	50.86	02-10-2020	0.73	69.77	50.86	02-10-2021	0.73	69.77	50.86
Withholding tax including surcharge on interest	02-10-2019	0.73	69.77	50.86	02-10-2020	0.73	69.77	50.86	02-10-2021	0.73	69.77	50.86
At the end of Financial Year	31-03-2020	531.51	69.77	37,083.10	31-03-2021	531.51	69.77	37,083.10	31-03-2022	531.51	69.77	37,083.10

	0 (Amount in Lacs)				5% (Amount in Lacs)			
	1	2	3	4	1	2	3	4
Financial Year (Starting from COD)	2019-20 (01.04.2019 to 31.03.2020)				2019-20 (01.04.2019 to 31.03.2020)			
1	Date	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)
SBI, New York	15-11-2018	135.87	69.77	9,479.76	01-04-2019	135.87	69.77	9,479.76
Currency 1 USD	01-04-2019	135.87	69.77	9,479.76	01-04-2019	135.87	69.77	9,479.76
At the date of drawl	01-04-2019	135.87	69.77	9,479.76	01-04-2019	135.87	69.77	9,479.76
Loan repayment upto previous period	01-04-2019	135.87	69.77	9,479.76	01-04-2019	135.87	69.77	9,479.76
Net loan at the Beginning of the period	15-05-2019	2.91	69.77	202.80	15-05-2019	0.02	69.77	1.17
Schedule repayment date of principal	15-05-2019	0.02	69.77	1.17	29-07-2019	1.20	69.77	84.03
Schedule payment date of interest	29-07-2019	0.0070	69.77	0.49	29-07-2019	0.0070	69.77	0.49
Withholding tax including surcharge on interest	29-07-2019	0.0070	69.77	0.49	29-07-2019	0.0070	69.77	0.49
Schedule repayment date of principal	29-07-2019	67.94	69.77	4,739.88	29-07-2019	1.48	69.77	103.08
Schedule payment date of interest	29-07-2019	1.48	69.77	103.08	29-07-2019	0.0085	69.77	0.60
Withholding tax including surcharge on interest	29-07-2019	0.0085	69.77	0.60	29-07-2019	67.94	69.77	4,739.88
Schedule repayment date of principal	29-07-2019	67.94	69.77	4,739.88	29-07-2019	67.94	69.77	4,739.88
Schedule payment date of interest	29-07-2019	1.48	69.77	103.08	29-07-2019	1.48	69.77	103.08
Withholding tax including surcharge on interest	29-07-2019	0.0085	69.77	0.60	29-07-2019	0.0085	69.77	0.60
At the end of Financial Year	31-03-2020	0.00	0.00	-	31-03-2020	0.00	0.00	-

**PART 1
FORM- 5**

Abstract of Admitted Capital Cost for the existing Projects

Name of the Company : NTPC Limited			
Name of the Power Station : Vindhyachal Super Thermal Power Station Stage-IV			
Last date of order of Commission for the project	Date (DD-MM-YYYY)	In Rs Lakh	
Reference of petition no. in which the above order was passed	Petition no.		
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: (as on 31.03.2019)			
Capital cost			590540
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) as on 01.4.2014			
Gross Normative Debt		(Rs. in lakh)	30289
Cumulative Repayment			413378
Net Normative Debt			155775.65
Normative Equity			257602.59
Cumulative Depreciation			177162.1
Freehold land			155775.65
			11335

Note: gross Normative Debt has been derived from Capital Cost @ 70%



(Petitioner)

20

Abstract of Claimed Capital Cost for the existing Projects

Name of the Company :		NTPC Limited	
Name of the Power Station :		Vindhyachal Super Thermal Power Station Stage-IV	
Reference of Final True-up Tariff Petition	Affidavit dated	15.11.2019	
Capital Cost as on 31.03.2014 as per Hon'ble Commission's Order dated 10.03.2017 In Pet. No. 339/GT/2014	Rs. Lakhs	590540	
Adjustment as per Para (7) of this petition			
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		43153	
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		633693.00	
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		0	
Gross Normative Debt	(Rs. in lakh)*	12411	
Cumulative Repayment		443585.1	
Net Normative Debt		160894.83	
Normative Equity		282690.17	
Cumulative Depreciation		190107.86	
Freehold land as on 31.03.2019		162117.18	
		15873.18	

(2)

(Petitioner)

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

TRANCHE NO

BP NO 5050000421

T00001

D00007

Unsecured Loan From HDFC Bank Ltd.-III

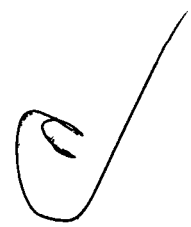
Source of Loan :	HDFC Bank Ltd.-III	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	2,00,00,00,000	
Date of Drawal:	30.09.2016	
Interest Type :	Floating	
Fixed Interest Rate :		
Rate of Interest as on 01.04.2019	8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	30.09.2016	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	04.12.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	5,00,00,000
	MOUDA-II	15,00,00,000
	TELANGANA	20,00,00,000
	VINDHYACHAL-IV	10,00,00,000
	MOUDA-I	35,00,00,000
	BARH-I	45,00,00,000
	CHATTI BARIATU	5,00,00,000
	RAMMAM	5,00,00,000
	TAPOVAN VISHNUGAD	5,00,00,000
	SOLAPUR	55,00,00,000
Total Allocated Amount		2,00,00,00,000

**Form 8
TRANCHE NO
T00001**

BP NO 5050000521

D00001

Unsecured Loan From HDFC Bank Ltd.-IV		
Source of Loan :	HDFC Bank Ltd.-IV	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	1,00,00,00,000	
Date of Drawal:	17.04.2017	
Interest Type :	Floating	
Fixed Interest Rate :		
Rate of Interest as on 01.04.2019	8.45%	
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 :	17.04.2017	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	17.04.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	RIHAND-III	40,00,00,000.00
	DULANGA COAL MINE	9,00,00,000.00
	VINDHYACHAL-IV	41,00,00,000.00
	MOUDA-I	50,00,00,000.00
	ANANTPUR SOLAR PV	60,00,00,000
Total Allocated Amount		1,00,00,00,000



Form 8

TRANCHE NO

BP NO 5050000341

T00001

D00005

Unsecured Loan From J & K BANK-III		
Source of Loan :	J & K BANK-III	
Currency :	INR	
Amount of Loan :	6,00,00,00,000	
Total Drawn amount :	50,00,00,000	
Date of Drawal :	21.01.2014	
Interest Type :	Floating	
Fixed Interest Rate :		
Rate of Interest as on 01.04.2019	8.30%	
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 :	5 YEARS	
Moratorium effective from :	21.01.2014	
Repayment Period (Inc Moratorium) :	15 YEARS	
Repayment Frequency :	10 Equal Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	18.12.2018	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	VINDHYACHAL-IV	50,00,00,000.00
Total Allocated Amount		50,00,00,000.00

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**Form 8
TRANCHE NO
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BP NO 5050000501

Unsecured Loan From Bank of Karnataka Bank		
Source of Loan :	Karnataka Bank-II	
Currency :	INR	
Amount of Loan :	5,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawal	28.03.2017	
Interest Type :	Floating	
Fixed Interest Rate :		
Rate of Interest as on 01.04.2019	7.96%	
Loan Refinancing Spread	0.3333%	
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 :	Nil	
Moratorium effective from :	28.03.2017	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9f Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	28.03.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	93,75,00,000.00
	BARH-II	1,31,25,00,000.00
	BONGAIGAON	17,85,71,427.00
	KORBA-III	36,78,57,143.00
	LARA-I	9,37,50,000.00
	PAKRI BARWADIH	53,75,00,000.00
	RIHAND-III	45,98,21,428.00
	SOLAPUR	46,87,50,000.00
	VINDHYACHAL-IV	35,71,42,855.00
	SIMHADRI-II	28,66,07,147.00
Total Allocated Amount		5,00,00,00,000.00

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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 :	5,00,00,00,000	
Date of drawl	08.07.2011	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Rate of Interest as on 01.04.2019	8.25%	
Margin, If Floating Interest :	D00001 - 0.75%	
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

**Form 8
TRANCHE NO
T00001**

BP NO 5050000261

D00004

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawl	29.06.2012	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Rate of Interest as on 01.04.2019	8.25%	
Margin, If Floating Interest :	D00004= 0.75%	
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 :	29.06.2012	
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
	BONGAIGAON	25,00,00,000.00
	BARH-I	90,00,00,000.00
	MOUDA-I	50,00,00,000.00
	VINDHYACHAL-IV	50,00,00,000.00
	RIHAND III	40,00,00,000.00
	KUDGI-I	15,00,00,000.00
	SOLAPUR	45,00,00,000.00
	MOUDA-II	1,85,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

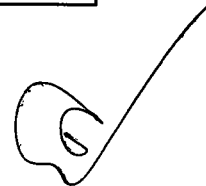
**Form 8
TRANCHE NO**

BP NO 5050000261

T00001

D00006

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 Drawl	28.09.2012	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Rate of Interest as on 01.04.2019	8.25%	
Margin, If Floating Interest :	D00006=0.495%	
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 :	28.09.2012	
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
	KOLDAM	45,00,00,000
	SIMHADRI-II	50,00,00,000
	VINDHYACHAL-IV	30,00,00,000
	SIPAT-I	75,00,00,000
	BARH-I	15,00,00,000
	MOUDA-I	20,00,00,000
	RIHAND III	20,00,00,000
	KUDGI-I	40,00,00,000
	MOUDA-II	50,00,00,000
	FARAKKA-III	15,00,00,000
	GANDHAR-R&M	40,00,00,000
	BONGAIGAON	1,00,00,00,000
Total Allocated Amount		5,00,00,00,000.00



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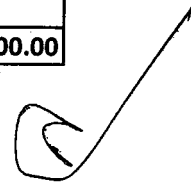
Form 8
TRANCHE NO

BP NA 50500000261

T00001

D00007

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawl	12.11.2012	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Rate of Interest as on 01.04.2019	8.25%	
Margin, If Floating Interest :	D00007= 0.495%	
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 :	12.11.2012	
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
	KOLDAM	35,00,00,000
	SOLAPUR	25,00,00,000
	VINDHYACHAL-IV	20,00,00,000
	TAPOVAN	20,00,00,000
	BARH-I	80,00,00,000
	MOUDA-I	15,00,00,000
	RIHAND-III	45,00,00,000
	KUDGI-I	20,00,00,000
	DADRI SOLAR PV	5,00,00,000
	A&N SOLAR PV	5,00,00,000
	SINGARULI 8 MW	5,00,00,000
	BONGAIGAON	40,00,00,000
	BARH-II	80,00,00,000
	SINGRAULI-R&M	25,00,00,000
	TANDA - R&M	15,00,00,000
	KAWAS-R&M	35,00,00,000
	GANDHAR -R&M	20,00,00,000
	TSTPP-R&M	10,00,00,000
Total Allocated Amount		5,00,00,00,000.00



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**Form 8
TRANCHE NO**

BP NO 5050000261

T00001

D00011

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	3,00,00,00,00,000	
Date of Drawl	21.06.2013	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Rate of Interest as on 01.04.2019	8.25%	
Margin, If Floating Interest :	D00011= 0.25%	
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 :	21.06.2013	
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
	RIHAND-III	1,00,00,00,000
	VINDHYACHAL-IV	1,00,00,00,000
	MOUDA-I	1,00,00,00,000
Total Allocated Amount		3,00,00,00,000.00



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**Form 8
TRANCHE NO**

BP NO 5050000261

T00001

D00016

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawl	01.02.2014	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Rate of Interest as on 01.04.2019	8.25%	
Margin, If Floating Interest :	D00016= 0.25%	
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 :	01.02.2014	
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
	MOUDA-I	50,00,00,000
	VINDHYACHAL-IV	50,00,00,000
	RIHAND-III	65,00,00,000
	MOUDA-II	1,80,00,00,000
	BARH-II	25,00,00,000
	SINGRAULI-R&M	30,00,00,000
	RAMAGUNDAM-R&M	15,00,00,000
	KORBA-R&M	20,00,00,000
	VINDHYACHAL-V	35,00,00,000
	KAWAS-R&M	20,00,00,000
	BADARPUR-R&M	10,00,00,000
Total Allocated Amount		5,00,00,00,000.00



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**Form 8
TRANCHE NO
T00001**

BP NO 5050000261

D00021

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	2,00,00,00,000	
Date of Drawal:	21.07.2014	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Rate of Interest as on 01.04.2019	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 :	21.07.2014	
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
	VINDHYACHAL-IV	1,50,00,00,000
	MOUDA-I	50,00,00,000
Total Allocated Amount		2,00,00,00,000.00

Form 8
TRANCHE NO
T00001

BP NO 5050000442

D00013

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	4,00,00,00,00,000	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Rate of Interest as on 01.04.2019	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 :	01.12.2015	
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	18,00,00,000
	BONGAIGOAN	14,00,00,000
	DARLIPALLI	45,00,00,000
	GADARWARA	50,00,00,000
	KUDGI	45,00,00,000
	LARA	72,00,00,000
	MOUDA-II	32,00,00,000
	SOLAPUR	45,00,00,000
	UNCHAHAHAR-IV	21,00,00,000
	RAMMAM	15,00,00,000
	BARH-II	18,00,00,000
	VINDHYACHAL-IV	13,00,00,000
	MOUDA-I	12,00,00,000
Total Allocated Amount		4,00,00,00,000

Form 8
TRANCHE NO
T00001

BP NO 5050000442

D00021

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	2,50,00,00,00,000	
Date of Drawl	21.09.2016	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Rate of Interest as on 01.04.2019	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 :	21.09.2016	
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
	BONGAIGAON	40,00,00,000
	MOUDA-II	15,00,00,000
	KUDGI	84,00,00,000
	BARH-II	8,00,00,000
	KOLDAM	18,00,00,000
	RIHAND-III	57,00,00,000
	VINDHYACHAL-IV	21,00,00,000
	MOUDA-I	7,00,00,000
	Total Allocated Amount	2,50,00,00,000

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**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 :	11,50,00,00,000	
Date of Drawl	14.02.2017	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Rate of Interest as on 01.04.2019	8.25%	
Loan Refinancing Spread	0.5333%	
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

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**Form 8
TRANCHE NO
T00001**

BP NO 5050000154

D00001

Unsecured Loan From Canara Bank - II		
Source of Loan :	Canara Bank - II	
Currency :	INR	
Amount of Loan :	27,50,00,00,000	
Total Drawn amount :	10,00,00,000	
Date of Drawl	26.12.2008	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	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 :	30.06.2009	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	30.12.2012	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	VINDHYACHAL-IV	10,00,00,000
Total Allocated Amount		10,00,00,000

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Form 8
TRANCHE NO
T00001

BP NO 5070000011

D00003

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	3,00,00,00,000	
Date of Drawl	28.08.2009	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	9.70%	
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
	KOLDAM	70,00,00,000.00
	NCTPP-II	95,00,00,000.00
	KORBA-III	50,00,00,000.00
	VINDHYACHAL-IV	25,00,00,000.00
	SIMHADRI-II	60,00,00,000.00
Total Allocated Amount		3,00,00,00,000.00

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**Form 8
TRANCHE NO**

BP NO 5070000011

T00001

D00007

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	1,00,00,00,00,000	
Date of Drawl	15.12.2009	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	9.38%	
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
	KORBA-III	50,00,00,000.00
	VINDHYACHAL-IV	50,00,00,000.00
Total Allocated Amount		1,00,00,00,000.00



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**Form 8
TRANCHE NO**

BP NO 5070000011

T00001

D00011

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	2,00,00,00,00,000	
Date of Drawl	14.01.2010	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.66%	
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
	KOLDAM	25,00,00,000.00
	KORBA-III	50,00,00,000.00
	NCTPP-II	25,00,00,000.00
	FARAKKA-III	50,00,00,000.00
	VINDHYACHAL-IV	50,00,00,000.00
Total Allocated Amount		2,00,00,00,000.00

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Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00012

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	2,00,00,00,00,000	
Date of Drawl	24.02.2010	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.67%	
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
	VINDHYACHAL-IV	45,00,00,000.00
	KORBA-III	15,00,00,000.00
	SIMHADRI-II	10,00,00,000.00
	BONGAIGAON	25,00,00,000.00
	KOLDAM	20,00,00,000.00
	MAUDA	25,00,00,000.00
	RIHAND-III	35,00,00,000.00
	TAPOVAN VISHNUGAD	25,00,00,000.00
Total Allocated Amount		2,00,00,00,000.00

**Form 8
TRANCHE NO**

BP NO 5070000011

T00001

D00015

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	1,00,00,00,00,000	
Date of Drawl	23.03.2010	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.72%	
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
	VINDHYACHAL-IV	1,00,00,00,000.00
Total Allocated Amount		1,00,00,00,000.00

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Form 8
TRANCHE NO

BP NO 5070000011

T00001

D00020

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	3,00,00,00,000	
Date of Drawl	15.06.2010	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.40%	
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
	FARAKKA-III	20,00,00,000.00
	NCTPP-DADRI-II	20,00,00,000.00
	BONGAIGAON	20,00,00,000.00
	BARH-II	60,00,00,000.00
	MAUDA	1,00,00,00,000.00
	VINDHYANCHAL-IV	50,00,00,000.00
	RIHAND-III	10,00,00,000.00
	SIPAT-I	20,00,00,000.00
Total Allocated Amount		3,00,00,00,000.00

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**Form 8
TRANCHE NO**

BP NO 5070000011

T00001

D00021

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	1,00,00,00,000	
Date of Drawl	26.10.2010	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	7.70%	
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
	KOLDAM	20,00,00,000.00
	SIMHADRI-II	40,00,00,000.00
	BONGAIGAON	20,00,00,000.00
	VINDHYANCHAL-IV	20,00,00,000.00
Total Allocated Amount		1,00,00,00,000.00



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Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00022

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	4,00,00,00,000	
Date of Drawl	22.11.2010	
Interest Type :	Fixed with Reset after every 3 Years	
Rate of Interest as on 01.04.2019	7.62%	
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
	KAHALGAON II	20,00,00,000.00
	KOLDAM	10,00,00,000.00
	FARAKKA III	25,00,00,000.00
	NCTPP-DADRI-II	10,00,00,000.00
	SIMHADRI-II	10,00,00,000.00
	BONGAIGAON	20,00,00,000.00
	BARH-II	55,00,00,000.00
	MAUDA	40,00,00,000.00
	VINDHYACHAL IV	20,00,00,000.00
	RIHAND-III	35,00,00,000.00
	TALCHER-II	30,00,00,000.00
	RIHAND-II	15,00,00,000.00
	VINDHYACHAL III	50,00,00,000.00
	UNCHAHAR-III	20,00,00,000.00
	PAKRI BARWADIH	40,00,00,000.00
Total Allocated Amount		4,00,00,00,000.00



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**Form 8
TRANCHE NO
T00001**

BP NO 5070000011

D00023

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	3,50,00,00,00,000	
Date of Drawl	31.12.2010	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	7.43%	
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
	BARH-II	25,00,00,000.00
	MAUDA-I	25,00,00,000.00
	SIMHADRI-II	10,00,00,000.00
	VINDHYACHAL IV	25,00,00,000.00
	RIHAND-III	50,00,00,000.00
	BARH-I	1,00,00,00,000.00
	KOLDAM	10,00,00,000.00
	KORBA-III	25,00,00,000.00
	FARAKKA III	15,00,00,000.00
	NCTPP-DADRI-II	10,00,00,000.00
	TAPOVAN VISHNUGARH	15,00,00,000.00
	BONGAIGAON	40,00,00,000.00
Total Allocated Amount		3,50,00,00,000.00

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Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00027

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	3,50,00,00,00,000	
Date of Drawl	28.03.2011	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	7.75%	
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
	NCTPP-DADRI-II	1,80,00,00,000.00
	VINDHYACHAL IV	90,00,00,000.00
	KOLDAM	45,00,00,000.00
	TTPS R&M	35,00,00,000.00
Total Allocated Amount		3,50,00,00,000.00

**Form 8
TRANCHE NO
T00001**

BP NO 5070000011

D00032

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	15.12.2011	
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	82,00,00,000.00
	VINDHYACHAL-IV	50,00,00,000.00
	PAKRI BARWADIH	73,00,00,000.00
	FARAKKA-III	42,00,00,000.00
	NCTPP-II	37,00,00,000.00
	TALCHER STPP-II	34,00,00,000.00
	TAPOVAN VISHNUGAD	48,00,00,000.00
	KOLDAM	97,00,00,000.00
	BADARPUR R&M	30,00,00,000.00
	RIHAND R&M	7,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

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**Form 8
TRANCHE NO**

BP NO 5070000011

T00001

D00035

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	2,50,00,00,00,000	
Date of Drawl	28.02.2012	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.22%	
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	40,00,00,000.00
	BONGAIGAON	57,00,00,000.00
	VINDHYACHAL-IV	1,53,00,00,000.00
Total Allocated Amount		2,50,00,00,000.00

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Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00036

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	0	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.30%	
Margin, If Floating Interest :	Nil	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	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
	BARH-II	2,75,00,00,000.00
	MOUDA-I	35,00,00,000.00
	VINDHYACHAL-IV	45,00,00,000.00
	SIPAT-I	1,05,00,00,000.00
	RIHAND-III	40,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

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Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00037

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	27.03.2012	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.25%	
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
	NCTPP-II	1,10,00,00,000.00
	MOUDA-I	1,20,00,00,000.00
	VINDHYACHAL-IV	1,45,00,00,000.00
	BARH-II	80,00,00,000.00
	KORBA-III	30,00,00,000.00
	KAHALGAON-II	15,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

**Form 8
TRANCHE NO**

BP NO 5050000192

T00001

D00001

Unsecured Loan From Bank of Syndicate Bank - II		
Source of Loan :	Syndicate Bank - II	
Currency :	INR	
Amount of Loan :	5,00,00,00,000	
Total Drawn amount :	10,00,00,00,000	
Date of Drawl	31.03.2010	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	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 :	31.03.2010	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	30.09.2013	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	VINDHYACHAL-IV	10,00,00,000.00
Total Allocated Amount		10,00,00,000.00

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**Form 8
TRANCHE NO**

BP NO 5070000021

T00001

D00002

Unsecured Loan From HUDCO LTD.		
Source of Loan :	HUDCO LTD-I	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	1,50,00,00,000	
Date of drawl	03.12.2010	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.30%	
Margin, If Floating Interest :	Nil	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	02.12.2010	
Repayment Period (Inc Moratorium) :	14 Years	
Repayment Frequency :	22 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	31.05.2014	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	KOLDAM	10,00,00,000
	SIMHADRI-II	50,00,00,000
	VINDHYACHAL IV	45,00,00,000
	RIHAND-III	45,00,00,000
Total Allocated Amount		1,50,00,00,000

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**Form 8
TRANCHE NO**

BP NO 5070000021

T00001

D00003

Unsecured Loan From HUDCO LTD.		
Source of Loan :	HUDCO LTD-I	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	1,00,00,00,000	
Date of drawl	28.03.2013	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.30%	
Margin, If Floating Interest :	Nil	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	02.12.2010	
Repayment Period (Inc Moratorium) :	14 Years	
Repayment Frequency :	22 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	31.05.2014	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	VINDHYACHAL IV	1,00,00,00,000
Total Allocated Amount		1,00,00,00,000

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**Form 8
TRANCHE NO**

BP NO 5050000153

T00001

D00003

Unsecured Loan From Indian Bank-II		
Source of Loan :	Indian Bank - II	
Currency :	INR	
Amount of Loan :	3,00,00,00,000	
Total Drawn amount :	1,50,00,00,000	
Date of Drawl	21.04.2011	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.25%	
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 :	30.06.2009	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	29.12.2012	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	MAUDA-I	30,00,00,000.00
	VINDHYACHAL IV	20,00,00,000.00
	BONGAIGAON	40,00,00,000.00
	KOLDAM	40,00,00,000.00
	RIHAND-III	20,00,00,000.00
Total Allocated Amount		1,50,00,00,000.00

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**Form 8
TRANCHE NO**

BP NO 5050000321

T00001

D00008

Unsecured Loan From Union Bank of India-II		
Source of Loan :	Union Bank of India - II	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	1,00,00,00,000	
Date of Drawal :	01.03.2014	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.50%	
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 :	01.08.2012	
Repayment Period (Inc Moratorium) :	14 Years	
Repayment Frequency :	20 Half Yearly	
Repayment Type :	AVG	
First Repayment Date :	01.02.2017	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	30,00,00,000
	RIHAND-III	25,00,00,000
	VINDHYACHAL-IV	20,00,00,000
	MOUDA-I	25,00,00,000
Total Allocated Amount		1,00,00,00,000.00

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Form 8
TRANCHE NO
T00001

BP NO 5050000291

D00004

Unsecured Loan From Vijaya Bank-V		
Source of Loan :	Vijaya Bank - V	
Currency :	INR	
Amount of Loan :	3,50,00,00,000	
Total Drawn amount :	1,00,00,00,000	
Date of drawl	28.09.2012	
Interest Type :	Floating	
Fixed Interest Rate :		
Rate of Interest as on 01.04.2019	8.40%	
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 :	29.03.2012	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	29.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	VINDHYACHAL-IV	55,00,00,000
	PAKRI BARWADIH	45,00,00,000
Total Allocated Amount		1,00,00,00,000.00

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**Form 8
TRANCHE NO
T00001**

BP NO 5050000291

D00008

Unsecured Loan From Vijaya Bank-V		
Source of Loan :	Vijaya Bank - V	
Currency :	INR	
Amount of Loan :	3,50,00,00,000	
Total Drawn amount :	15,00,00,000	
Date of drawl	23.10.2013	
Interest Type :	Floating	
Fixed Interest Rate :		
Rate of Interest as on 01.04.2019	8.40%	
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 :	29.03.2012	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	29.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	VINDHYACHAL-IV	15,00,00,000
Total Allocated Amount		15,00,00,000

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**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	
Rate of Interest as on 01.04.2019	8.25%	
Loan Refinancing Spread	0.1333%	
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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Form 8- Domestic

Particulars	XLII 8%		XLVII 8.4%		XLIX 8.8%		L.1A		L.2A		L.3A		L.1B		L.2B		L.3B		54		57		59		66		67		
	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	BONDS	INR	
Source of Loan1																													
Amount of Loan sanctioned	50000	50000	39000	39000	20000	20000	48603	48603	24995	24995	31203	31203	20864	20864	9139	9139	39997	39997	1030683	1030683	65500	65500	392500	392500	65500	65500	392500	392500	
Fixed Interest Rate, if applicable	9.00%	Fixed	8.84%	Fixed	8.80%	Fixed	8.41%	Fixed	8.48%	Fixed	8.66%	Fixed	8.65%	Fixed	8.73%	Fixed	8.91%	Fixed	8.49%	Fixed	8.33%	Fixed	8.37%	Fixed	8.30%	Fixed	8.30%	Fixed	
Annual surveillance fees	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	0.030%	
Loan Refinancing Spread																													
Total interest rate incl sur. Fees	9.030%	8.870%	8.830%	8.440%	8.830%	8.440%	8.440%	8.440%	8.510%	8.510%	8.690%	8.690%	8.690%	8.690%	8.760%	8.760%	8.940%	8.940%	8.520%	8.520%	8.360%	8.360%	8.360%	8.360%	8.360%	8.360%	8.360%	8.360%	
Base Rate, if Floating Interest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Are there any Caps/Floor?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
If above is yes specify caps/floor																													
Moratorium Period	10 yrs.	10 yrs.	10 yrs.	10 yrs.	10 yrs.	10 yrs.	10 yrs.	10 yrs.	15 yrs.	15 yrs.	20 yrs.	20 yrs.	10 yrs.	10 yrs.	15 yrs.	15 yrs.	20 yrs.	20 yrs.	25-03-2015	25-03-2015	24-02-2021	24-02-2021	15-12-2015	15-12-2015	24-02-2021	24-02-2021	14-12-2016	14-12-2016	
Moratorium effective from #	25.01.2012	04.10.12	04.04.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	16.12.2013	25/03/2023	25/03/2023	25/03/2024	25/03/2024	15-12-2015	15-12-2015	24-02-2021	24-02-2021	14-12-2016	14-12-2016	
Repayment Period	5 yrs	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Installments Due on	Installments Due on	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet
Repayment effective from	25.01.2023	04.10.22	04.04.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	16.12.2023	25-03-2023	25-03-2023	24-02-2021	24-02-2021	15-12-2023	15-12-2023	24-02-2021	24-02-2021	14-12-2031	14-12-2031	
Repayment Frequency	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Installments Due on	Installments Due on	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly
Repayment Instalment	13,14	10000	39000	4880285000	2499459000	3120276000	2086391000	913928000	3999681000	65500	392500	65500	392500	65500	392500	65500	392500	65500	392500	65500	392500	65500	392500	65500	392500	65500	392500	65500	392500
Base Exchange Rate	16																												
Door to Door Maturity	15 yrs.	10 yrs.	10 yrs.	10 yrs.	15 yrs.	20 yrs.	10 yrs.	15 yrs.	20 yrs.	15 yrs.	20 yrs.	10 yrs.	15 yrs.	20 yrs.	15 yrs.	20 yrs.	20 yrs.	20 yrs.	10	10	5	5	10	10	5	5	15	15	
Name of the Projects	Ananipur Solar																												
ANTA																													
AJRAYVA																													
Auraya R & M																													
Bedarpur R&M																													
BARH I	8,400	11,500	3,000	9,119	4,670	5,850	3,889	1,708	7,474	2,300	8,900	2,400	46,300	45,967	45,967	45,967	45,967	45,967	45,967	45,967	45,967	45,967	45,967	45,967	45,967	45,967	45,967	45,967	
BARH II	2,000	2,500	886	1,728	1,105	739	324	1,417	63,500	63,500	2,700	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	
Bhadra Solar																													
BONGAIGON	1,700	3,500	2,500	1,813	928	1,159	775	1,486	54,000	54,000	3,900	12,700	38,820	38,820	38,820	38,820	38,820	38,820	38,820	38,820	38,820	38,820	38,820	38,820	38,820	38,820	38,820	38,820	
Chatri Banatru CMB																													
Dadi Gas R & M																													
DADRI GAS																													
DARLIPALLI																													
Dulanga CMB																													
FARAKKA II																													
FARAKKA III	7,000																												
Farakka R & M																													
FARIDABAD																													
GADARWARA																													
GANDHAR																													
Gandhar R & M																													
Kahaigaon II Phase I																													
Kahaigaon II Phase II																													
Khatip R & M																													
KAWAS																													
Kawas R & M																													
Kharigorie																													
KOLDAM	7,500	8,500	3,200	6,024	3,085	3,851	2,575	1,128	4,937	1,400	3,000	2,700	24,700	24,700	24,700	24,700	24,700	24,700	24,700	24,700	24,700	24,700	24,700	24,700	24,700	24,700	24,700	24,700	
KOREA III																													
Korba R & M																													
Kudri																													
Kudri																													
ARA-I																													
Lata Tapovan																													
LOHARINAGPALA																													
Mauda	2,400	2,000	2,000	2,844	1,457	1,819	1,216	533	2,331	1,000	3,200	900	8,598	8,598	8,598	8,598	8,598	8,598	8,598	8,598	8,598	8,598	8,598	8,598	8,598	8,598	8,598	8,598	

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Name of the Company
Name of the Power Station

NTPC Limited
VSTPS-IV

Form-8

Particulars	5.625% Fixed Rate Notes due 2021*	4.75% Fixed Rate Notes due 2022#	SBI, NEW YORK**			
Source of Loan	-	-	I	II	III	IV
Drawal	-	-				
Currency	USD	USD				
Amount of loan sanctioned	50,00,00,000	50,00,00,000				
Amount of Gross Loan drawn upto 26.03.2014 / COD	50,00,00,000	50,00,00,000	5,00,00,000	5,00,00,000	5,00,00,000	10,00,00,000
Interest Type	Fixed	Fixed	Floating			
Fixed Interest Rate, if applicable	5.625% *	4.75% #				
Base Rate, if floating interest	-	-	6 Month LIBOR			
Margin, if floating interest rate	-	-	1.85			
Are there any Caps / Floor	NO	NO	NO			
If above is Yes, specify Caps / Floor	-	-				
Moratorium Period	10 Years	10 Years				
Moratorium effective from	14-Jul-2011	03-Oct-2012	6 Years			
Repayment period	Bullet payment	Bullet payment	06-Mar-2013			
Repayment effective from	13-Jul-2021	03-Oct-2022	1 Year			
Repayment frequency	One time	One time	29-Jul-2019			
Repayment installment	50,00,00,000	50,00,00,000	Semi Annual			
Base Exchange Rate (26.03.2014)	60.81	60.81	2 Half Yearly Instalments			
Are foreign currency loan hedged	NO	NO	60.81			
If above is Yes, specify details	-	-	NO			

Name of the Projects	%	%	%	%	%
Barh-II	19.3670%	2.7817%			
Bongaigaon	15.5700%	4.8526%			12.52330%
Mauda	20.6600%	8.4848%			6.61617%
Rihand-III	17.5690%	9.5929%			8.38906%
VSTPP-IV	19.7400%	10.6301%			13.58716%
Simhadri-II	2.3370%	3.9948%			
Koldam	2.0570%	6.4273%			
Tapovan	1.6940%	3.1659%			

15/04

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited			
Name of the Generating Station	Vindhyachal Super Thermal Power Station Stage-IV			
COD	27-03-2014			
For Financial Year	2019-24 (Summary)			

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)					Regulation under which claimed/Justification	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 raising and associated works	1,297.00	1,016.00	4,420.00	170.00			
2	Coal Handling Package	1,000.00	1,000.00	-				
3	A/C & Ventilation System	120.00	-	-				
4	Fire Detection and Protection System	-	300.00	-				
5	Station Piping	120.00	-	-				
6	Electrical Equipment package	50.00	-	-				
7	Misc package	400.00	-	-				
8	Station C&I Package	-	450.00	-				
9	ESP Retrofir for Stage-I	4,325.00	-	8,255.00				
1	ClO2 Package			264.00	1,319.00			
11	Integrated Security System			525.00				
12								
	Total(A)	7,312.00	2,766.00	13,464.00	1,489.00			
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)	7,312.00	2,766.00	13,464.00	1,489.00			

(Petitioner)

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Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited		
Name of the Generating Station	Vindhyachal Super Thermal Power Station Stage-IV		
COD	27-03-2014		
For Financial Year	2019-20		

Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	ACE Claimed (Actual /Projected)		Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any	
			Un-discharged Liability included in col. 3	Cash basis included in col. 3				
1	2	3	4	5-(3-4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1	Ash Dyke raising and associated works	1,297.00		1,297.00	25(1)(C) read wit 25(1) (g)	Ash Dyke raising is the work under original scope. The activity of dyke raising is carried out periodically during the life of the plant to ensure continuous and sustainable operation. Hon'ble Commission may be pleased to allow the same.		
	Coal Handling Package	1,000.00		1,000.00	25(1)(d)	The work pertaining to Coal Handling Plant has been completed and it is put to use. However, the mandatory spares under the package has not yet been received by the Petitioner. It is further submitted that on account of shortage of material, the agency had requested the Petitioner to provide the same on short term loan basis. As the completion of job was the priority of the Petitioner, the raw material shortage was recouped and completion of the work was ensured. Further the mandatory spares supply got delayed by TRF under this package. Although all out efforts were taken by the Petitioner to get the job completed, but completion of the same got spilled over the cut-off date. Further, some amount was withheld in view of the PG test. The claimed expenditure is the retention payment on these counts i.e. against the non-receipt of the spares, non- settlement of bill regarding material supply by the Petitioner and the PG test to be done. The PG test and material bill settlement against supply of raw material is expected by FY 2019-20 and supply of mandatory spares taking place in batches, it is expected to be supplied completely by FY 2020-21. It is submitted that despite the efforts of the Petitioner, the work got delayed, which was beyond our reasonable control. Hon'ble Commission may be pleased to allow the same.		
2	A/C & Ventilation System			120.00		These works/packages pertain to the original scope of work and the same have been already completed within the cut-off date of the station. However, on account of non-closure of the contract in view of various reasons like final settlement of bill, defect rectification, price adjustment as per the contract, these balance amounts are still to be released by the Petitioner. Most of these deferred liabilities are proposed to be released during FY 2019-20 & 2020-21, during the contract closure. Hon'ble Commission may be pleased to allow the same under Regulation 25(1)(d).		
3	Station Piping	120.00		120.00				
4	Electrical Equipment package	50.00		50.00	25(1)(d)			
5	Misc package	400.00		400.00				
6	Station C&I Package							
7	ESP Retrofit for Stage-1							
8		4,325.00		4,325.00	26(1)(b)	It is submitted that the Environment clearance for VSTPS-IV was provided by MOEF with pre condition of ESP retrofit of VSTPS-I & VSTPS-II in view of reduction in SPM level as per the norms set by MOEF. GOI for stack emission. Hon'ble Commission has also directed in its order dated 12.9.2012 of VSTPS-I to claim this expenditure in VSTPS-IV. Further, Hon'ble Commission vide order dated 1.03.2017 in Petition no. 349/GT/2014 has allowed the work of ESP retrofit of VSTPS Stage-I and VSTPS Stage-II in the instant station for the purpose of tariff. Hon'ble Commission may be pleased to allow the balance expenditure on this count under 'Change in Law' during the tariff period 2019-24.		
Total (A)		7,312.00		7,312.00				
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
9								
Total (B)								
Total Add. Cap. Claimed (A+B)		7,312.00		7,312.00				

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited								
Name of the Generating Station	Vindhyachal Super Thermal Power Station Stage-IV								
COD	27-03-2014								
For Financial Year	2020-21								

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)			Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any	
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis included in col. 3				
1	2	3	4	5=(3-4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1	Ash Dyke raising ans associated works	1,016.00		1,016.00		251(g) read with 25(1)(C)	Justification as per form-9 of FY 2019-20	
2	Coal Handling Package	1,000.00		1,000.00		25(1)(d)	Justification as per form-9 of FY 2019-20	
3	Fire Detection and Protection	300.00		300.00				
4	Station C&I Package	450.00		450.00		25(1)(d)	Justification as per form-9 of FY 2019-20	
	Total (A)	2,766.00	-	2,766.00	-			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
5	Total (B)	-	-	-	-			
	Total Add. Cap. Claimed (A+B)	2,766.00	-	2,766.00	-			



(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Vindhyaachal Super Thermal Power Station Stage-IV	
COD	27-03-2014	
For Financial Year	2021-22	

Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	ACE Claimed (Actual / Projected)	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
1	2	3	4	5= (3-4)	6	7	8	9	
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate									
1	Ash Dyke raising ans associated works	4,420.00			4,420.00		25 (1)(g) & (c)	Justification as per form-9 of FY 2019-20	
2	ESP Retrofit for Stage-I	8,255.00			8,255.00		26(1)(b)	Justification as per form-9 of FY 2019-20	
3	ClO2 Package	264.00			264.00		26(1)(b) & 26(1)(d)	In the instant station, at present Chlorine gas is being dozed directly at various stages of water treatment to maintain water quality and to inhibit organic growth in the water retaining structures/ equipment such as clarifiers, storage tanks, cooling towers, condenser tubes & piping etc. Chlorine dosing is done from chlorine stored in cylinders/ tomers. Chlorine gas is very hazardous and may prove fatal in case of leakage; handling and storage of same involves risk to the life of public at large. In the interest of public safety the chlorine dozing system is now being replaced by Chlorine Dioxide (ClO2) system, which is much safer and less hazardous than chlorine. In the proposed scheme ClO2 shall be produced on site by use of commercial grade HCl and sodium chlorite. As ClO2 is generated at site, avoids handling and storage risk. Further, at Kudgi NTPC project Department of Factories, Boiler, Industrial Safety and Health, Govt of Karnataka has directed NTPC to replace the highly hazardous gas chlorination system with ClO2 system. SPCB, Odisha while issuing consent to establish in case of Daripalli Station has asked NTPC to explore the possibility of installing ClO2 system instead of Chlorine gas system (Relevant documents is attached at Annexure-A). In view of the directions of various statutory authorities in different states of the country and for enhancing the safety of public NTPC is replacing the chlorination system with ClO2 system. Accordingly, Hon'ble Commission may be pleased to allow the same under Reg. 26(1)(b) read with Reg. 26(1)(d).	
4	Integrated Security System	525.00			525.00		26(1)(b) read with 26(1)(d)	The Petitioner is in receipt of letter dated 23.10.2019 from MoP, Govt for enhancement & automation of security at power station, in view of consistent threat to various vital installations and infrastructure including power stations as per reports from external agencies. In view of similar information received earlier, the Petitioner, in collaboration with Central Industrial Security Force (CISF), has prepared a comprehensive multilayer e-security system, to be installed in various power stations across the country. This integrated security system (ISS) is proposed to be installed in the instant station during the tariff period 2019-24. This ISS shall not only enhance the reliability of the security system, but it will also help rationalise the security manpower at the station. Hon'ble Commission may be pleased to allow this work under Regulation- 26(1)(b). The communication in this regard with DG, CISF is attached at Annexure-B (The letter dated 23.10.2019 from MoP, Govt is based on the report of intelligence agency reports the same is not being shared with the instant petition.)	
Total (A)		13,464.00			13,464.00				
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)		13,464.00			13,464.00				


(Petitioner)

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Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Vindhyachal Super Thermal Power Station Stage-IV	
COD	27-03-2014	
For Financial Year	2022-23	

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)			Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
		Accrual basis as per ICAAP	Un-discharged Liability included in col. 3	Cash basis			
1	2	3	4	5= (3+4)	6	7	8
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate							
1	Ash Dyke raising ans associated works	170.00		170.00	25(1)(g)&(C)		
2	Cl02 Package	1,319.00		1,319.00	26(1)(b) &26(1)(d)		
	Total (A)	1,489.00	-	1,489.00			9
B. Works beyond Original scope extending add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest							
3	Total (B)	-	-	-			
	Total Add. Cap. Claimed (A+B)	1,489.00	-	1,489.00			

Ash Dyke raising is the work under original scope. The activity of dyke raising is carried out periodically during the life of the plant to ensure continuous and sustainable operation. Hon'ble Commission may be pleased to allow the same.

Justification as per Form-9 of FY 2021-22


(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited				
Name of the Generating Station	Vindhyaachi Super Thermal Power Station Stage-IV				
COD	27-03-2014				
For Financial Year	2023-24				

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

No Add-Cap being projected. However, the same may be claimed, if any, at the time of truing-up.

No Add-Cap being projected. However, the same may be claimed, if any, at the time of truing-up.

No Add-Cap being projected. However, the same may be claimed, if any, at the time of truing-up.


(Petitioner)

Name of the Petitioner	NTPC Limited										
Name of the Generating Station	Vindhyachal Super Thermal Power Station Stage-IV										
Date of Commercial Operation	27-03-2014										

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

Amount capitalised in Work/ Equipment

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

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



(Petitioner)

Calculation of Depreciation

Name of the Company : NTPC Limited
Name of the Power Station : Vindhyachal Super Thermal Power Station Stage-IV

(Amount in Rs Lakh)

Sl.No.	Name of the Assets	Gross Block as on 01.04.2019 as on COD	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 01.04.2019
1	2		4	5= Col.3 X Col.4
1	Land-Free Hold	16962.80	0.00%	0.00
2	Land- Lease Hold	0.00	3.34%	0.00
3	Land- Right Of Use	0.00	3.34%	0.00
4	Plant & Machinery	51332.32	5.28%	27103.95
5	Cooling Towers & CW System.	15059.41	5.28%	795.14
6	Air conditioning.	996.18	5.28%	52.60
7	Chimney	4887.45	5.28%	258.06
8	Main Plant Building	10863.16	3.34%	362.83
9	Ash Dyke/Disposal Area	11116.69	5.28%	586.96
10	S-Yard	15333.96	5.28%	809.63
11	Raw Water Reservoir	0.00	5.28%	0.00
12	Locomotive & Wagons	7395.84	5.28%	390.50
13	MGR & Marshalling Yard	14954.02	9.50%	1420.63
14	Buildings	10726.23	3.34%	358.26
15	Road/Bridge	2338.61	3.34%	78.11
16	Water Treatment Plant	0.00	5.28%	0.00
17	Spares	14039.62	5.28%	741.29
18	Furniture & Fixtures, OFFICE EQUIP.	1117.64	6.33%	70.75
19	Other MBOAs / T&Ps.	1341.41	6.33%	84.91
20	EDP, WP & SATCOM.	269.35	15.00%	40.40
21	Construction equip.	323.46	5.28%	17.08
22	Temp. Constructions.	86.30	100.00%	86.30
23	Central Repair/Workshop	33.19	5.28%	1.75
	TOTAL	641177.64		33259.15
	Weighted Average Rate of Depreciation (%)			5.256

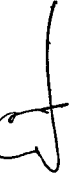
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Statement of Depreciation

Name of the Company :	NTPC Limited							
Name of the Power Station :	Vindhyaachal Super Thermal Power Station Stage-IV							

S. No.	Particulars	(Amount in Rs Lakh)							
		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	631179.11	6,33,692.87	6,41,004.87	6,43,770.87	6,57,234.87	6,58,723.87		
2	Closing Capital Cost	633692.87	6,41,004.87	6,43,770.87	6,57,234.87	6,58,723.87	6,58,723.87		
3	Average Capital Cost	632435.99	6,37,348.87	6,42,387.87	6,50,502.87	6,57,979.37	6,58,723.87		
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	15,873.18	15,873.18	15,873.18	15,873.18	15,873.18	15,873.18		
5	Rate of depreciation	5.187	5.256	5.256	5.256	5.256	5.256		
6	Depreciable value	5,54,906.53	5,59,328.12	5,63,863.22	5,71,166.72	5,77,895.57	5,78,565.62		
7.	Balance useful life at the beginning of the period	20.45	19.45	18.45	17.45	16.45	15.45		
8	Remaining depreciable value	4,25,362.96	3,97,210.98	3,68,247.02	3,41,786.62	3,14,325.04	2,80,411.69		
9	Depreciation (for the period)	0.00	33,499.06	33,763.91	34,190.43	34,583.40	34,622.53		
10	Depreciation (annualised)	32,803.19	33,499.06	33,763.91	34,190.43	34,583.40	34,622.53		
11	Cumulative depreciation at the end of the period		1,95,616.20	2,29,380.10	2,63,570.53	2,98,153.93	3,32,776.46		
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	229.62	-	-	-	-	-		
15	Net Cumulative depreciation at the end of the period after adjustments	1,62,117.14	1,95,616.20	2,29,380.10	2,63,570.53	2,98,153.93	3,32,776.46		

* Shall be provided at the time of truing-up.



(Petitioner)

Statement of unrecovered depreciation										Form-12A
Station: VSTPS-IV(1000 MW)										
SN	FY	Target Availability (%)	Annual Availability (%)	AFC (Periodic) (Rs.Lakh)	Dep. included in AFC (Periodic) (Rs.Lakh)	Disincentive (Periodic) (Rs.Lakh)	Dep. unrecovered due to disincentive (Periodic) (Rs.Lakh)			
1	2012-13 (01.03.2013- 31.03.2013)	85	24.40	4387.10	981.63	2992.99	669.69			

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Calculation of Interest on Actual Loans						
Name of the Company	Name of the Company	NTPC Ltd.			Form 13	
Name of the Power Station	Name of the Power Station	VSTPS IV			Rs. Lakhs	
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1 EURO BOND III-5.625%						
	Gross loan - Opening	60019.47	60019.47	60019.47	60019.47	60019.47
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	60019.47	60019.47
	Net loan - Opening	60019.47	60019.47	60019.47	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	60019.47	60019.47	60019.47	0.00	0.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	60019.47	60019.47	60019.47	0.00	0.00
	Average Net Loan	60019.47	60019.47	30009.74	0.00	0.00
	Rate of Interest on Loan	7.1968%	7.1968%	7.1968%	7.1968%	7.1968%
	Interest on Loan Annualised	4319.48	4319.48	2159.74	0.00	0.00
2 EURO BOND IV-4.75%						
	Gross loan - Opening	32320.82	32320.82	32320.82	32320.82	32320.82
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	32320.82
	Net loan - Opening	32320.82	32320.82	32320.82	32320.82	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	32320.82	32320.82	32320.82	32320.82	0.00
	Repayments of Loans during the period	0.00	0.00	0.00	32320.82	0.00
	Net loan - Closing	32320.82	32320.82	32320.82	0.00	0.00
	Average Net Loan	32320.82	32320.82	32320.82	16160.41	0.00
	Rate of Interest on Loan	5.0243%	5.0243%	5.0243%	5.0243%	5.0243%
	Interest on Loan Annualised	1623.89	1623.89	1623.89	811.95	0.00
3 SBI New York						
	Gross loan - Opening	8262.35	8262.35	8262.35	8262.35	8262.35
	Cumulative repayments of Loans upto previous period	0.00	8262.35	8262.35	8262.35	8262.35
	Net loan - Opening	8262.35	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	8262.35	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	8262.35	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	4131.18	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	4.2871%	4.2871%	4.2871%	4.2871%	4.2871%
	Interest on Loan Annualised	177.11	0.00	0.00	0.00	0.00
4 Canara Bank II Repayment from 30.12.2012						
	Gross loan - Opening	1000.00	1000.00	1000.00	1000.00	1000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	928.57	1000.00	1000.00	1000.00	1000.00
	Increase/ Decrease due to FERV	71.43	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	71.43	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	71.43	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	35.71	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	3.02	0.00	0.00	0.00	0.00
5 PFC V Total Repayment from 15.07.2013						
	Gross loan - Opening	86800.00	86800.00	86800.00	86800.00	86800.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	41591.67	48825.00	56058.33	63291.67	70525.00
	Increase/ Decrease due to FERV	45208.33	37975.00	30741.67	23508.33	16275.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	45208.33	37975.00	30741.67	23508.33	16275.00
	Net loan - Closing	7233.33	7233.33	7233.33	7233.33	7233.33
	Average Net Loan	37975.00	30741.67	23508.33	16275.00	9041.67
	Rate of Interest on Loan	41591.67	34358.33	27125.00	19891.67	12658.33
	Interest on Loan Annualised	8.3269%	8.3269%	8.3269%	8.3269%	8.3269%
	Interest on Loan Annualised	3463.28	2860.97	2258.66	1656.35	1054.04
6 Syndicate Bank II repayment from 30.09.2013						
	Gross loan - Opening	1000.00	1000.00	1000.00	1000.00	1000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	857.14	1000.00	1000.00	1000.00	1000.00
	Increase/ Decrease due to FERV	142.86	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	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	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	6.04	0.00	0.00	0.00	0.00
7 HUDCO LTD repayment from 31.05.2014						
	Gross loan - Opening	14500.00	14500.00	14500.00	14500.00	14500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	6590.91	7909.09	9227.27	10545.45	11863.64
	Increase/ Decrease due to FERV	7909.09	6590.91	5272.73	3954.55	2636.36
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	7909.09	6590.91	5272.73	3954.55	2636.36
	Repayments of Loans during the period	1318.18	1318.18	1318.18	1318.18	1318.18
	Net loan - Closing	6590.91	5272.73	3954.55	2636.36	1318.18
	Average Net Loan	7250.00	5931.82	4613.64	3295.45	1977.27
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	601.75	492.34	382.93	273.52	164.11
8 Indian Bank II repayment from 29.12.2012						
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1857.14	2000.00	2000.00	2000.00	2000.00
	Increase/ Decrease due to FERV	142.86	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	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
9 J&K Bank III- D5 date of repayment-18.12.2018						
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00

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Calculation of Interest on Actual Loans						
Name of the Company		Name of the Company		NTPC Ltd.	Form 13	
Name of the Power Station		Name of the Power Station		VSTPS IV	Rs. Lakhs	
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
2						
	Cumulative repayments of Loans upto previous period	500.00	1000.00	1500.00	2000.00	2500.00
	Net loan - Opening	4500.00	4000.00	3500.00	3000.00	2500.00
	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	4500.00	4000.00	3500.00	3000.00	2500.00
	Repayments of Loans during the period	500.00	500.00	500.00	500.00	500.00
	Net loan - Closing	4000.00	3500.00	3000.00	2500.00	2000.00
	Average Net Loan	4250.00	3750.00	3250.00	2750.00	2250.00
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	352.75	311.25	269.75	228.25	186.75
10	Union Bank of India II repayment from 01.02.2017					
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period	500.00	700.00	900.00	1100.00	1300.00
	Net loan - Opening	1500.00	1300.00	1100.00	900.00	700.00
	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	1300.00	1100.00	900.00	700.00
	Repayments of Loans during the period	200.00	200.00	200.00	200.00	200.00
	Net loan - Closing	1300.00	1100.00	900.00	700.00	500.00
	Average Net Loan	1400.00	1200.00	1000.00	800.00	600.00
	Rate of Interest on Loan	8.5000%	8.5000%	8.5000%	8.5000%	8.5000%
	Interest on Loan Annualised	119.00	102.00	85.00	68.00	51.00
11	SBI VII total repayment from 30.09.2015					
	Gross loan - Opening	44500.00	44500.00	44500.00	44500.00	44500.00
	Cumulative repayments of Loans upto previous period	22250.00	27812.50	33375.00	38937.50	44500.00
	Net loan - Opening	22250.00	16687.50	11125.00	5562.50	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	22250.00	16687.50	11125.00	5562.50	0.00
	Repayments of Loans during the period	5562.50	5562.50	5562.50	5562.50	0.00
	Net loan - Closing	16687.50	11125.00	5562.50	0.00	0.00
	Average Net Loan	19468.75	13906.25	8343.75	2781.25	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	0.0000%
	Interest on Loan Annualised	1606.17	1147.27	688.36	229.45	0.00
12	Vijaya Bank V D-4 & 8 Repayment from 29.09.2015					
	Gross loan - Opening	7000.00	7000.00	7000.00	7000.00	7000.00
	Cumulative repayments of Loans upto previous period	4000.00	5000.00	6000.00	7000.00	7000.00
	Net loan - Opening	3000.00	2000.00	1000.00	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	3000.00	2000.00	1000.00	0.00	0.00
	Repayments of Loans during the period	1000.00	1000.00	1000.00	0.00	0.00
	Net loan - Closing	2000.00	1000.00	0.00	0.00	0.00
	Average Net Loan	2500.00	1500.00	500.00	0.00	0.00
	Rate of Interest on Loan	8.4000%	8.4000%	8.4000%	8.4000%	8.4000%
	Interest on Loan Annualised	210.00	126.00	42.00	0.00	0.00
13	Bonds XLII Series- repayment from 25.01.2023					
	Gross loan - Opening	400.00	400.00	400.00	400.00	400.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	80.00
	Net loan - Opening	400.00	400.00	400.00	400.00	320.00
	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	400.00	400.00	400.00	400.00	320.00
	Repayments of Loans during the period	0.00	0.00	0.00	80.00	80.00
	Net loan - Closing	400.00	400.00	400.00	320.00	240.00
	Average Net Loan	400.00	400.00	400.00	360.00	280.00
	Rate of Interest on Loan	9.0300%	9.0300%	9.0300%	9.0300%	9.0300%
	Interest on Loan Annualised	36.12	36.12	36.12	32.51	25.28
14	Bonds XLVII Series- repayment from 04.10.2022					
	Gross loan - Opening	2500.00	2500.00	2500.00	2500.00	2500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	2500.00
	Net loan - Opening	2500.00	2500.00	2500.00	2500.00	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	2500.00	2500.00	2500.00	2500.00	0.00
	Repayments of Loans during the period	0.00	0.00	0.00	2500.00	0.00
	Net loan - Closing	2500.00	2500.00	2500.00	0.00	0.00
	Average Net Loan	2500.00	2500.00	2500.00	1250.00	0.00
	Rate of Interest on Loan	8.8700%	8.8700%	8.8700%	8.8700%	8.8700%
	Interest on Loan Annualised	221.75	221.75	221.75	110.88	0.00
15	Bonds XLIX Series- repayment from 04.04.2023					
	Gross loan - Opening	4300.00	4300.00	4300.00	4300.00	4300.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	4300.00	4300.00	4300.00	4300.00	4300.00
	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	4300.00	4300.00	4300.00	4300.00	4300.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	4300.00
	Net loan - Closing	4300.00	4300.00	4300.00	4300.00	0.00
	Average Net Loan	4300.00	4300.00	4300.00	4300.00	2150.00
	Rate of Interest on Loan	8.8300%	8.8300%	8.8300%	8.8300%	8.8300%
	Interest on Loan Annualised	379.69	379.69	379.69	379.69	189.85
16	Bonds- L 1A-repayment on 16.12.2023					
	Gross loan - Opening	1673.23	1673.23	1673.23	1673.23	1673.23
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1673.23	1673.23	1673.23	1673.23	1673.23
	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	1673.23	1673.23	1673.23	1673.23	1673.23
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	1673.23
	Net loan - Closing	1673.23	1673.23	1673.23	1673.23	0.00
	Average Net Loan	1673.23	1673.23	1673.23	1673.23	836.62
	Rate of Interest on Loan	8.4400%	8.4400%	8.4400%	8.4400%	8.4400%
	Interest on Loan Annualised	141.22	141.22	141.22	141.22	70.61
17	Bonds- L 2A -repayment on 16.12.2028					
	Gross loan - Opening	856.95	856.95	856.95	856.95	856.95
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00

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Calculation of Interest on Actual Loans						
Name of the Company		Name of the Company		NTPC Ltd.	Form 13	
Name of the Power Station		Name of the Power Station		VSTPS IV	Rs. Lakhs	
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
2						
	Net loan - Opening	856.95	856.95	856.95	856.95	856.95
	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	856.95	856.95	856.95	856.95	856.95
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	856.95	856.95	856.95	856.95	856.95
	Average Net Loan	856.95	856.95	856.95	856.95	856.95
	Rate of Interest on Loan	8.5100%	8.5100%	8.5100%	8.5100%	8.5100%
	Interest on Loan Annualised	72.93	72.93	72.93	72.93	72.93
18 Bonds- L 3A -repayment on 16.12.2033						
	Gross loan - Opening	1069.80	1069.80	1069.80	1069.80	1069.80
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1069.80	1069.80	1069.80	1069.80	1069.80
	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	1069.80	1069.80	1069.80	1069.80	1069.80
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	1069.80	1069.80	1069.80	1069.80	1069.80
	Average Net Loan	1069.80	1069.80	1069.80	1069.80	1069.80
	Rate of Interest on Loan	8.6900%	8.6900%	8.6900%	8.6900%	8.6900%
	Interest on Loan Annualised	92.97	92.97	92.97	92.97	92.97
19 Bonds- L 1B -repayment on 16.12.2023						
	Gross loan - Opening	715.33	715.33	715.33	715.33	715.33
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	715.33	715.33	715.33	715.33	715.33
	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	715.33	715.33	715.33	715.33	715.33
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	715.33	715.33	715.33	715.33	715.33
	Average Net Loan	715.33	715.33	715.33	715.33	715.33
	Rate of Interest on Loan	8.6900%	8.6900%	8.6900%	8.6900%	8.6900%
	Interest on Loan Annualised	62.16	62.16	62.16	62.16	31.08
20 Bonds- L 2B -repayment on 16.12.2028						
	Gross loan - Opening	313.34	313.34	313.34	313.34	313.34
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	313.34	313.34	313.34	313.34	313.34
	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	313.34	313.34	313.34	313.34	313.34
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	313.34	313.34	313.34	313.34	313.34
	Average Net Loan	313.34	313.34	313.34	313.34	313.34
	Rate of Interest on Loan	8.7600%	8.7600%	8.7600%	8.7600%	8.7600%
	Interest on Loan Annualised	27.45	27.45	27.45	27.45	27.45
21 Bonds- L 3B- repayment on 16.12.2033						
	Gross loan - Opening	1371.31	1371.31	1371.31	1371.31	1371.31
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1371.31	1371.31	1371.31	1371.31	1371.31
	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	1371.31	1371.31	1371.31	1371.31	1371.31
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	1371.31	1371.31	1371.31	1371.31	1371.31
	Average Net Loan	1371.31	1371.31	1371.31	1371.31	1371.31
	Rate of Interest on Loan	8.9400%	8.9400%	8.9400%	8.9400%	8.9400%
	Interest on Loan Annualised	122.60	122.60	122.60	122.60	122.60
22 SBI VIII total repayment from 31.01.2022						
	Gross loan - Opening	6642.86	6642.86	6642.86	6642.86	6642.86
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	738.10	1476.19
	Net loan - Opening	6642.86	6642.86	6642.86	5904.76	5166.67
	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	6642.86	6642.86	6642.86	5904.76	5166.67
	Repayments of Loans during the period	0.00	0.00	738.10	738.10	738.10
	Net loan - Closing	6642.86	6642.86	5904.76	5166.67	4428.57
	Average Net Loan	6642.86	6642.86	6273.81	5535.72	4797.62
	Rate of Interest on Loan	8.5104%	8.5104%	8.5104%	8.5104%	8.5104%
	Interest on Loan Annualised	565.33	565.33	533.92	471.11	408.29
23 HDFC Bank-III D7- Repayment from 04.12.2021						
	Gross loan - Opening	1000.00	1000.00	1000.00	1000.00	1000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	111.11	222.22
	Net loan - Opening	1000.00	1000.00	1000.00	888.89	777.78
	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	1000.00	1000.00	888.89	777.78
	Repayments of Loans during the period	0.00	0.00	111.11	111.11	111.11
	Net loan - Closing	1000.00	1000.00	888.89	777.78	666.67
	Average Net Loan	1000.00	1000.00	944.44	833.33	722.22
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	84.50	84.50	79.81	70.42	61.03
24 Karnataka Bank-II D1- Repayment from 28.03.2021(Bank of Maharashtra III Loan refinanced)						
	Gross loan - Opening	3571.43	3571.43	3571.43	3571.43	3571.43
	Cumulative repayments of Loans upto previous period	0.00	0.00	396.83	793.65	1190.48
	Net loan - Opening	3571.43	3571.43	3174.60	2777.78	2380.95
	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	3571.43	3571.43	3174.60	2777.78	2380.95
	Repayments of Loans during the period	0.00	396.83	396.83	396.83	396.83
	Net loan - Closing	3571.43	3174.60	2777.78	2380.95	1984.13
	Average Net Loan	3571.43	3373.02	2976.19	2579.37	2182.54
	Rate of Interest on Loan	8.2933%	8.2933%	8.2933%	8.2933%	8.2933%
	Interest on Loan Annualised	296.19	279.74	246.83	213.92	181.01
25 HDFC Bank-IV D1- Repayment from 17.04.2021						
	Gross loan - Opening	4100.00	4100.00	4100.00	4100.00	4100.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	455.56	911.11
	Net loan - Opening	4100.00	4100.00	4100.00	3644.44	3188.89
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00

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Calculation of Interest on Actual Loans						
Name of the Company	Name of the Company	NTPC Ltd.	Form 13			
Name of the Power Station	Name of the Power Station	VSTPS IV	Rs. Lakhs			
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	4100.00	4100.00	4100.00	3644.44	3188.89
	Repayments of Loans during the period	0.00	0.00	455.56	455.56	455.56
	Net loan - Closing	4100.00	4100.00	3644.44	3188.89	2733.33
	Average Net Loan	4100.00	4100.00	3872.22	3416.67	2961.11
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	346.45	346.45	327.20	288.71	250.21
26	Corporation Bank-IV D1- Repayment from 11.01.2023(ICICI V Loan refinanced)					
	Gross loan - Opening	24500.00	24500.00	24500.00	24500.00	24500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	2722.22
	Net loan - Opening	24500.00	24500.00	24500.00	24500.00	21777.78
	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	24500.00	24500.00	24500.00	24500.00	21777.78
	Repayments of Loans during the period	0.00	0.00	0.00	2722.22	2722.22
	Net loan - Closing	24500.00	24500.00	24500.00	21777.78	19055.56
	Average Net Loan	24500.00	24500.00	24500.00	23138.89	20416.67
	Rate of Interest on Loan	8.3833%	8.3833%	8.3833%	8.3833%	8.3833%
	Interest on Loan Annualised	2,053.92	2,053.92	2,053.92	1,939.81	1,711.60
27	Bonds-54- repayment on 25.03.2023/2024/2025					
	Gross loan - Opening	17200.00	17200.00	17200.00	17200.00	17200.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	3440.00
	Net loan - Opening	17200.00	17200.00	17200.00	17200.00	13760.00
	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	17200.00	17200.00	17200.00	17200.00	13760.00
	Repayments of Loans during the period	0.00	0.00	0.00	3440.00	6880.00
	Net loan - Closing	17200.00	17200.00	17200.00	13760.00	6880.00
	Average Net Loan	17200.00	17200.00	17200.00	15480.00	10320.00
	Rate of Interest on Loan	8.5200%	8.5200%	8.5200%	8.5200%	8.5200%
	Interest on Loan Annualised	1,465.44	1,465.44	1,465.44	1,318.90	879.26
28	Bonds-57- Bullet repayment on 15.12.2025					
	Gross loan - Opening	500.00	500.00	500.00	500.00	500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	500.00	500.00	500.00	500.00	500.00
	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	500.00	500.00	500.00	500.00	500.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	500.00	500.00	500.00	500.00	500.00
	Average Net Loan	500.00	500.00	500.00	500.00	500.00
	Rate of Interest on Loan	8.2200%	8.2200%	8.2200%	8.2200%	8.2200%
	Interest on Loan Annualised	41.10	41.10	41.10	41.10	41.10
29	Bonds-59-Bullet repayment on 24.02.2021					
	Gross loan - Opening	900.00	900.00	900.00	900.00	900.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	900.00	900.00	900.00
	Net loan - Opening	900.00	900.00	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	900.00	900.00	0.00	0.00	0.00
	Repayments of Loans during the period	0.00	900.00	0.00	0.00	0.00
	Net loan - Closing	900.00	0.00	0.00	0.00	0.00
	Average Net Loan	900.00	450.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.3600%	8.3600%	8.3600%	8.3600%	8.3600%
	Interest on Loan Annualised	75.24	37.62	0.00	0.00	0.00
30	Bonds-66-Bullet repayment on 14.12.2031					
	Gross loan - Opening	3100.00	3100.00	3100.00	3100.00	3100.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	3100.00	3100.00	3100.00	3100.00	3100.00
	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	3100.00	3100.00	3100.00	3100.00	3100.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	3100.00	3100.00	3100.00	3100.00	3100.00
	Average Net Loan	3100.00	3100.00	3100.00	3100.00	3100.00
	Rate of Interest on Loan	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%
	Interest on Loan Annualised	229.40	229.40	229.40	229.40	229.40
31	Bonds-67-Bullet repayment on 15.01.2029(ICICI VI Loan refinanced)					
	Gross loan - Opening	4804.00	4804.00	4804.00	4804.00	4804.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	4804.00	4804.00	4804.00	4804.00	4804.00
	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	4804.00	4804.00	4804.00	4804.00	4804.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	4804.00	4804.00	4804.00	4804.00	4804.00
	Average Net Loan	4804.00	4804.00	4804.00	4804.00	4804.00
	Rate of Interest on Loan	8.4200%	8.4200%	8.4200%	8.4200%	8.4200%
	Interest on Loan Annualised	404.50	404.50	404.50	404.50	404.50
	TOTAL LOAN					
	Gross loan - Opening	343920.89	343920.89	343920.89	343920.89	343920.89
	Cumulative repayments of Loans upto previous period	79075.43	103508.94	120619.78	198154.86	255733.50
	Net loan - Opening	264845.46	240411.95	223301.11	145766.03	88187.39
	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	264845.46	240411.95	223301.11	145766.03	88187.39
	Repayments of Loans during the period	24433.51	17110.84	77535.07	57578.64	27323.89
	Net loan - Closing	240411.95	223301.11	145766.03	88187.39	60863.51
	Average Net Loan	252628.70	231856.53	184533.57	116976.71	74525.45
	Rate of Interest on Loan	7.6030%	7.6116%	7.6134%	7.9398%	8.3932%
	Interest on Loan Annualised	19207.32	17648.07	14049.33	9287.77	6255.06
	Note: In case of foreign loans, opening loan balance considered at following exchange rate					
	Exchange rate 28.02.2013 US \$= INR 54.14					
	Exchange rate 31.03.2013 US \$= INR 54.91					
	Exchange rate 26.03.2014 US \$= INR 60.81					
	PFC T1 D-3 repayment from 15.07.2013					

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Calculation of Interest on Actual Loans						
Name of the Company		Name of the Company		NTPC Ltd.	Form 13	
Name of the Power Station		Name of the Power Station		VSTPS IV	Rs. Lakhs	
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
2						
	Gross loan - Opening	2500.00	2500.00	2500.00	2500.00	2500.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	1197.92	1406.25	1614.58	1822.92	2031.25
	Increase/ Decrease due to FERV	1302.08	1093.75	885.42	677.08	468.75
	Increase/ Decrease due to ACE					
	Total	1302.08	1093.75	885.42	677.08	468.75
	Repayments of Loans during the period	208.33	208.33	208.33	208.33	208.33
	Net loan - Closing	1093.75	885.42	677.08	468.75	260.42
	Average Net Loan	1197.92	989.58	781.25	572.92	364.58
	Rate of Interest on Loan	9.7000%	9.7000%	9.7000%	9.7000%	9.7000%
	Interest on Loan Annualised	116.20	95.99	75.78	55.57	35.36
PFC T1 D-7 repayment from 15.07.2013						
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	2395.83	2812.50	3229.17	3645.83	4062.50
	Increase/ Decrease due to FERV	2604.17	2187.50	1770.83	1354.17	937.50
	Increase/ Decrease due to ACE					
	Total	2604.17	2187.50	1770.83	1354.17	937.50
	Repayments of Loans during the period	416.67	416.67	416.67	416.67	416.67
	Net loan - Closing	2187.50	1770.83	1354.17	937.50	520.83
	Average Net Loan	2395.83	1979.17	1562.50	1145.83	729.17
	Rate of Interest on Loan	9.3800%	9.3800%	9.3800%	9.3800%	9.3800%
	Interest on Loan Annualised	224.73	185.65	146.56	107.48	68.40
PFC T1 D-11 repayment from 15.07.2013						
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	2395.83	2812.50	3229.17	3645.83	4062.50
	Increase/ Decrease due to FERV	2604.17	2187.50	1770.83	1354.17	937.50
	Increase/ Decrease due to ACE					
	Total	2604.17	2187.50	1770.83	1354.17	937.50
	Repayments of Loans during the period	416.67	416.67	416.67	416.67	416.67
	Net loan - Closing	2187.50	1770.83	1354.17	937.50	520.83
	Average Net Loan	2395.83	1979.17	1562.50	1145.83	729.17
	Rate of Interest on Loan	8.6600%	8.6600%	8.6600%	8.6600%	8.6600%
	Interest on Loan Annualised	207.48	171.40	135.31	99.23	63.15
PFC T1 D-12 repayment from 15.07.2013						
	Gross loan - Opening	4500.00	4500.00	4500.00	4500.00	4500.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	2156.25	2531.25	2906.25	3281.25	3656.25
	Increase/ Decrease due to FERV	2343.75	1968.75	1593.75	1218.75	843.75
	Increase/ Decrease due to ACE					
	Total	2343.75	1968.75	1593.75	1218.75	843.75
	Repayments of Loans during the period	375.00	375.00	375.00	375.00	375.00
	Net loan - Closing	1968.75	1593.75	1218.75	843.75	468.75
	Average Net Loan	2156.25	1781.25	1406.25	1031.25	656.25
	Rate of Interest on Loan	8.6700%	8.6700%	8.6700%	8.6700%	8.6700%
	Interest on Loan Annualised	186.95	154.43	121.92	89.41	56.90
PFC T1 D-15 repayment from 15.07.2013						
	Gross loan - Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	4791.67	5625.00	6458.33	7291.67	8125.00
	Increase/ Decrease due to FERV	5208.33	4375.00	3541.67	2708.33	1875.00
	Increase/ Decrease due to ACE					
	Total	5208.33	4375.00	3541.67	2708.33	1875.00
	Repayments of Loans during the period	833.33	833.33	833.33	833.33	833.33
	Net loan - Closing	4375.00	3541.67	2708.33	1875.00	1041.67
	Average Net Loan	4791.67	3958.33	3125.00	2291.67	1458.33
	Rate of Interest on Loan	8.7200%	8.7200%	8.7200%	8.7200%	8.7200%
	Interest on Loan Annualised	417.83	345.17	272.50	199.83	127.17
PFC T1 D-20 repayment from 15.07.2013						
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	2395.83	2812.50	3229.17	3645.83	4062.50
	Increase/ Decrease due to FERV	2604.17	2187.50	1770.83	1354.17	937.50
	Increase/ Decrease due to ACE					
	Total	2604.17	2187.50	1770.83	1354.17	937.50
	Repayments of Loans during the period	416.67	416.67	416.67	416.67	416.67
	Net loan - Closing	2187.50	1770.83	1354.17	937.50	520.83
	Average Net Loan	2395.83	1979.17	1562.50	1145.83	729.17
	Rate of Interest on Loan	8.4000%	8.4000%	8.4000%	8.4000%	8.4000%
	Interest on Loan Annualised	201.25	166.25	131.25	96.25	61.25
PFC T1 D-21 repayment from 15.07.2013						
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	958.33	1125.00	1291.67	1458.33	1625.00
	Increase/ Decrease due to FERV	1041.67	875.00	708.33	541.67	375.00
	Increase/ Decrease due to ACE					
	Total	1041.67	875.00	708.33	541.67	375.00
	Repayments of Loans during the period	166.67	166.67	166.67	166.67	166.67
	Net loan - Closing	875.00	708.33	541.67	375.00	208.33
	Average Net Loan	958.33	791.67	625.00	458.33	291.67
	Rate of Interest on Loan	7.7000%	7.7000%	7.7000%	7.7000%	7.7000%
	Interest on Loan Annualised	73.79	60.96	48.13	35.29	22.46
PFC T1 D-22 repayment from 15.07.2013						
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	958.33	1125.00	1291.67	1458.33	1625.00
	Increase/ Decrease due to FERV	1041.67	875.00	708.33	541.67	375.00
	Increase/ Decrease due to ACE					
	Total	1041.67	875.00	708.33	541.67	375.00
	Repayments of Loans during the period	166.67	166.67	166.67	166.67	166.67
	Net loan - Closing	875.00	708.33	541.67	375.00	208.33
	Average Net Loan	958.33	791.67	625.00	458.33	291.67
	Rate of Interest on Loan	7.6200%	7.6200%	7.6200%	7.6200%	7.6200%
	Interest on Loan Annualised	73.03	60.33	47.63	34.93	22.73
PFC T1 D-23 repayment from 15.07.2013						
	Gross loan - Opening	2500.00	2500.00	2500.00	2500.00	2500.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	1197.92	1406.25	1614.58	1822.92	2031.25
	Increase/ Decrease due to FERV	1302.08	1093.75	885.42	677.08	468.75
	Increase/ Decrease due to ACE					
	Total	1302.08	1093.75	885.42	677.08	468.75
	Repayments of Loans during the period	208.33	208.33	208.33	208.33	208.33
	Net loan - Closing	1093.75	885.42	677.08	468.75	260.42
	Average Net Loan	1197.92	989.58	781.25	572.92	364.58

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		Calculation of Interest on Actual Loans				
Name of the Company		Name of the Company	NTPC Ltd.	Form 13		
Name of the Power Station		Name of the Power Station	VSTPS IV	Rs. Lakhs		
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	Rate of Interest on Loan	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%
	Interest on Loan Annualised	89.01	73.53	58.05	42.57	27.09
	PFC T1 D-27 repayment from 15.07.2013					
	Gross loan - Opening	9000.00	9000.00	9000.00	9000.00	9000.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	4312.50	5062.50	5812.50	6562.50	7312.50
	Increase/ Decrease due to FERV	4687.50	3937.50	3187.50	2437.50	1687.50
	Increase/ Decrease due to ACE					
	Total	4687.50	3937.50	3187.50	2437.50	1687.50
	Repayments of Loans during the period	750.00	750.00	750.00	750.00	750.00
	Net loan - Closing	3937.50	3187.50	2437.50	1687.50	937.50
	Average Net Loan	4312.50	3562.50	2812.50	2062.50	1312.50
	Rate of Interest on Loan	7.7500%	7.7500%	7.7500%	7.7500%	7.7500%
	Interest on Loan Annualised	334.22	276.09	217.97	159.84	101.72
	PFC T1 D-32 repayment from 15.07.2013					
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	2395.83	2812.50	3229.17	3645.83	4062.50
	Increase/ Decrease due to FERV	2604.17	2187.50	1770.83	1354.17	937.50
	Increase/ Decrease due to ACE					
	Total	2604.17	2187.50	1770.83	1354.17	937.50
	Repayments of Loans during the period	416.67	416.67	416.67	416.67	416.67
	Net loan - Closing	2187.50	1770.83	1354.17	937.50	520.83
	Average Net Loan	2395.83	1979.17	1562.50	1145.83	729.17
	Rate of Interest on Loan	7.6800%	7.6800%	7.6800%	7.6800%	7.6800%
	Interest on Loan Annualised	184.00	152.00	120.00	88.00	56.00
	PFC T1 D-35 repayment from 15.07.2013					
	Gross loan - Opening	15300.00	15300.00	15300.00	15300.00	15300.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	7331.25	8606.25	9881.25	11156.25	12431.25
	Increase/ Decrease due to FERV	7968.75	6693.75	5418.75	4143.75	2868.75
	Increase/ Decrease due to ACE					
	Total	7968.75	6693.75	5418.75	4143.75	2868.75
	Repayments of Loans during the period	1275.00	1275.00	1275.00	1275.00	1275.00
	Net loan - Closing	6693.75	5418.75	4143.75	2868.75	1593.75
	Average Net Loan	7331.25	6056.25	4781.25	3506.25	2231.25
	Rate of Interest on Loan	8.2200%	8.2200%	8.2200%	8.2200%	8.2200%
	Interest on Loan Annualised	602.63	497.82	393.02	288.21	183.41
	PFC T1 D-36 repayment from 15.07.2013					
	Gross loan - Opening	4500.00	4500.00	4500.00	4500.00	4500.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	2156.25	2531.25	2906.25	3281.25	3656.25
	Increase/ Decrease due to FERV	2343.75	1968.75	1593.75	1218.75	843.75
	Increase/ Decrease due to ACE					
	Total	2343.75	1968.75	1593.75	1218.75	843.75
	Repayments of Loans during the period	375.00	375.00	375.00	375.00	375.00
	Net loan - Closing	1968.75	1593.75	1218.75	843.75	468.75
	Average Net Loan	2156.25	1781.25	1406.25	1031.25	656.25
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	178.97	147.84	116.72	85.59	54.47
	PFC T1 D-37 repayment from 15.07.2013					
	Gross loan - Opening	14500.00	14500.00	14500.00	14500.00	14500.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	6947.92	8156.25	9364.58	10572.92	11781.25
	Increase/ Decrease due to FERV	7552.08	6343.75	5135.42	3927.08	2718.75
	Increase/ Decrease due to ACE					
	Total	7552.08	6343.75	5135.42	3927.08	2718.75
	Repayments of Loans during the period	1208.33	1208.33	1208.33	1208.33	1208.33
	Net loan - Closing	6343.75	5135.42	3927.08	2718.75	1510.42
	Average Net Loan	6947.92	5739.58	4531.25	3322.92	2114.58
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	573.20	473.52	373.83	274.14	174.45
	PFC T1 Total					
	Gross loan - Opening	86800.00	86800.00	86800.00	86800.00	86800.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	41591.67	48825.00	56058.33	63291.67	70525.00
	Increase/ Decrease due to FERV	45208.33	37975.00	30741.67	23508.33	16275.00
	Increase/ Decrease due to ACE					
	Total	45208.33	37975.00	30741.67	23508.33	16275.00
	Repayments of Loans during the period	7233.33	7233.33	7233.33	7233.33	7233.33
	Net loan - Closing	37975.00	30741.67	23508.33	16275.00	9041.67
	Average Net Loan	41591.67	34358.33	27125.00	19891.67	12658.33
	Rate of Interest on Loan	8.3269%	8.3269%	8.3269%	8.3269%	8.3269%
	Interest on Loan Annualised	3463.28	2860.97	2258.66	1656.35	1054.04
	SBI VII T-1 D-1 Repayment from 30.09.2015					
	Gross loan - Opening	4500.00	4500.00	4500.00	4500.00	4500.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	2250.00	2812.50	3375.00	3937.50	4500.00
	Increase/ Decrease due to FERV	2250.00	1687.50	1125.00	562.50	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	2250.00	1687.50	1125.00	562.50	0.00
	Repayments of Loans during the period	562.50	562.50	562.50	562.50	0.00
	Net loan - Closing	1687.50	1125.00	562.50	0.00	0.00
	Average Net Loan	1968.75	1406.25	843.75	281.25	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	162.42	116.02	69.61	23.20	0.00
	SBI VII T-1 D-4 Repayment from 30.09.2015					
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	2500.00	3125.00	3750.00	4375.00	5000.00
	Increase/ Decrease due to FERV	2500.00	1875.00	1250.00	625.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	2500.00	1875.00	1250.00	625.00	0.00
	Repayments of Loans during the period	625.00	625.00	625.00	625.00	0.00
	Net loan - Closing	1875.00	1250.00	625.00	0.00	0.00
	Average Net Loan	2187.50	1562.50	937.50	312.50	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	180.47	128.91	77.34	25.78	0.00
	SBI VII T-1 D-6 Repayment from 30.09.2015					
	Gross loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Cumulative repayments of Loans upto previous period					
	Net loan - Opening	1500.00	1875.00	2250.00	2625.00	3000.00
	Increase/ Decrease due to FERV	1500.00	1125.00	750.00	375.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	1500.00	1125.00	750.00	375.00	0.00

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		Calculation of Interest on Actual Loans				
Name of the Company		Name of the Company		NTPC Ltd.	Form 13	
Name of the Power Station		Name of the Power Station		VSTPS IV	Rs. Lakhs	
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	1500.00	1125.00	750.00	375.00	0.00
	Repayments of Loans during the period	375.00	375.00	375.00	375.00	0.00
	Net loan - Closing	1125.00	750.00	375.00	0.00	0.00
	Average Net Loan	1312.50	937.50	562.50	187.50	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	108.28	77.34	46.41	15.47	0.00
	SBI VII T-1 D-7 Repayment from 30.09.2015					
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period	1000.00	1250.00	1500.00	1750.00	2000.00
	Net loan - Opening	1000.00	750.00	500.00	250.00	0.00
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	1000.00	750.00	500.00	250.00	0.00
	Repayments of Loans during the period	250.00	250.00	250.00	250.00	0.00
	Net loan - Closing	750.00	500.00	250.00	0.00	0.00
	Average Net Loan	875.00	625.00	375.00	125.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	72.19	51.56	30.94	10.31	0.00
	SBI VII T-1 D-11 Repayment from 30.09.2015					
	Gross loan - Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Cumulative repayments of Loans upto previous period	5000.00	6250.00	7500.00	8750.00	10000.00
	Net loan - Opening	5000.00	3750.00	2500.00	1250.00	0.00
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	5000.00	3750.00	2500.00	1250.00	0.00
	Repayments of Loans during the period	1250.00	1250.00	1250.00	1250.00	0.00
	Net loan - Closing	3750.00	2500.00	1250.00	0.00	0.00
	Average Net Loan	4375.00	3125.00	1875.00	625.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	360.94	257.81	154.69	51.56	0.00
	SBI VII T-1 D-16 Repayment from 30.09.2015					
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Cumulative repayments of Loans upto previous period	2500.00	3125.00	3750.00	4375.00	5000.00
	Net loan - Opening	2500.00	1875.00	1250.00	625.00	0.00
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	2500.00	1875.00	1250.00	625.00	0.00
	Repayments of Loans during the period	625.00	625.00	625.00	625.00	0.00
	Net loan - Closing	1875.00	1250.00	625.00	0.00	0.00
	Average Net Loan	2187.50	1562.50	937.50	312.50	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	180.47	128.91	77.34	25.78	0.00
	SBI VII T-1 D-21 Repayment from 30.09.2015					
	Gross loan - Opening	15000.00	15000.00	15000.00	15000.00	15000.00
	Cumulative repayments of Loans upto previous period	7500.00	9375.00	11250.00	13125.00	15000.00
	Net loan - Opening	7500.00	5625.00	3750.00	1875.00	0.00
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	7500.00	5625.00	3750.00	1875.00	0.00
	Repayments of Loans during the period	1875.00	1875.00	1875.00	1875.00	0.00
	Net loan - Closing	5625.00	3750.00	1875.00	0.00	0.00
	Average Net Loan	6562.50	4687.50	2812.50	937.50	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	541.41	386.72	232.03	77.34	0.00
	SBI VII T-1 Total					
	Gross loan - Opening	44500.00	44500.00	44500.00	44500.00	44500.00
	Cumulative repayments of Loans upto previous period	22250.00	27812.50	33375.00	38937.50	44500.00
	Net loan - Opening	22250.00	16687.50	11125.00	5562.50	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	22250.00	16687.50	11125.00	5562.50	0.00
	Repayments of Loans during the period	5562.50	5562.50	5562.50	5562.50	0.00
	Net loan - Closing	16687.50	11125.00	5562.50	0.00	0.00
	Average Net Loan	19468.75	13906.25	8343.75	2781.25	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	0.0000%
	Interest on Loan Annualised	1606.17	1147.27	688.36	229.45	0.00
	HUDCO LTD D-2 repayment from 31.05.2014					
	Gross loan - Opening	4500.00	4500.00	4500.00	4500.00	4500.00
	Cumulative repayments of Loans upto previous period	2045.45	2454.55	2863.64	3272.73	3681.82
	Net loan - Opening	2454.55	2045.45	1636.36	1227.27	818.18
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	2454.55	2045.45	1636.36	1227.27	818.18
	Repayments of Loans during the period	409.09	409.09	409.09	409.09	409.09
	Net loan - Closing	2045.45	1636.36	1227.27	818.18	409.09
	Average Net Loan	2250.00	1840.91	1431.82	1022.73	613.64
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	186.75	152.80	118.84	84.89	50.93
	HUDCO LTD D-3 repayment from 31.05.2014					
	Gross loan - Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Cumulative repayments of Loans upto previous period	4545.45	5454.55	6363.64	7272.73	8181.82
	Net loan - Opening	5454.55	4545.45	3636.36	2727.27	1818.18
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	5454.55	4545.45	3636.36	2727.27	1818.18
	Repayments of Loans during the period	909.09	909.09	909.09	909.09	909.09
	Net loan - Closing	4545.45	3636.36	2727.27	1818.18	909.09
	Average Net Loan	5000.00	4090.91	3181.82	2272.73	1363.64
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	415.00	339.55	264.09	188.64	113.18
	HUDCO LTD Total repayment from 31.05.2014					
	Gross loan - Opening	14500.00	14500.00	14500.00	14500.00	14500.00
	Cumulative repayments of Loans upto previous period	6590.91	7909.09	9227.27	10545.45	11863.64
	Net loan - Opening	7909.09	6590.91	5272.73	3954.55	2636.36
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00

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Calculation of Interest on Actual Loans						
Name of the Company		Name of the Company		NTPC Ltd.	Form 13	
Name of the Power Station		Name of the Power Station		VSTPS IV	Rs. Lakhs	
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	7909.09	6590.91	5272.73	3954.55	2636.36
	Repayments of Loans during the period	1318.18	1318.18	1318.18	1318.18	1318.18
	Net loan - Closing	6590.91	5272.73	3954.55	2636.36	1318.18
	Average Net Loan	7250.00	5931.82	4613.64	3295.45	1977.27
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	601.75	492.34	382.93	273.52	164.11
	SBI VIII T-1 D-13 Repayment from 31.01.2022					
	Gross loan - Opening	1300.00	1300.00	1300.00	1300.00	1300.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	144.44	288.89
	Net loan - Opening	1300.00	1300.00	1300.00	1155.56	1011.11
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	1300.00	1300.00	1300.00	1155.56	1011.11
	Repayments of Loans during the period	0.00	0.00	144.44	144.44	144.44
	Net loan - Closing	1300.00	1300.00	1155.56	1011.11	866.67
	Average Net Loan	1300.00	1300.00	1227.78	1083.33	938.89
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	107.25	107.25	101.29	89.38	77.46
	SBI VIII T-1 D-21 Repayment from 31.01.2022					
	Gross loan - Opening	2100.00	2100.00	2100.00	2100.00	2100.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	233.33	466.67
	Net loan - Opening	2100.00	2100.00	2100.00	1866.67	1633.33
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	2100.00	2100.00	2100.00	1866.67	1633.33
	Repayments of Loans during the period	0.00	0.00	233.33	233.33	233.33
	Net loan - Closing	2100.00	2100.00	1866.67	1633.33	1400.00
	Average Net Loan	2100.00	2100.00	1983.33	1750.00	1516.67
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	173.25	173.25	163.63	144.38	125.13
	SBI VIII T-1 D-24 Repayment from 31.01.2022(SBH-II prepayment loan)					
	Gross loan - Opening	500.00	500.00	500.00	500.00	500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	55.56	111.11
	Net loan - Opening	500.00	500.00	500.00	444.44	388.89
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	500.00	500.00	500.00	444.44	388.89
	Repayments of Loans during the period	0.00	0.00	55.56	55.56	55.56
	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	8.7833%	8.7833%	8.7833%	8.7833%	8.7833%
	Interest on Loan Annualised	43.92	43.92	41.48	36.60	31.72
	SBI VIII T-1 D-24 Repayment from 31.01.2022(Punjab & Sind Bank-I Prepayment Loan)					
	Gross loan - Opening	2742.86	2742.86	2742.86	2742.86	2742.86
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	304.76	609.52
	Net loan - Opening	2742.86	2742.86	2742.86	2438.10	2133.34
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	2742.86	2742.86	2742.86	2438.10	2133.34
	Repayments of Loans during the period	0.00	0.00	304.76	304.76	304.76
	Net loan - Closing	2742.86	2742.86	2438.10	2133.34	1828.57
	Average Net Loan	2742.86	2742.86	2590.48	2285.72	1980.95
	Rate of Interest on Loan	8.7833%	8.7833%	8.7833%	8.7833%	8.7833%
	Interest on Loan Annualised	240.91	240.91	227.53	200.76	173.99
	SBI VIII T-1 Total					
	Gross loan - Opening	6642.86	6642.86	6642.86	6642.86	6642.86
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	738.10	1476.19
	Net loan - Opening	6642.86	6642.86	6642.86	5904.76	5166.67
	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	6642.86	6642.86	6642.86	5904.76	5166.67
	Repayments of Loans during the period	0.00	0.00	738.10	738.10	738.10
	Net loan - Closing	6642.86	6642.86	5904.76	5166.67	4428.57
	Average Net Loan	6642.86	6642.86	6273.81	5535.72	4797.62
	Rate of Interest on Loan	8.5104%	8.5104%	8.5104%	8.5104%	8.5104%
	Interest on Loan Annualised	565.33	565.33	533.92	471.11	408.29

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Details of Source wise Fuel for Computation of Energy Charges

Name of the Company :								
Name of the Power Station :								
S. No.	Month	Unit	Stage 4 Oct-18		Stage 4 Nov-18		Stage 4 Dec-18	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Coal/Lignite supplied by Coal/Lignite Company*	(MMT)						
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	3.6357		3.5211			3.6942
3	Coal supplied by Coal/Lignite Company (3+4)	(MMT)	3.6357		3.5211			3.6942
4	Normative Transit & Handling Losses (For coal/Lignite based projects)	(MMT)	0.0086		0.0083			0.0092
5	Net coal / Lignite Supplied (3-4)	(MMT)	3.6271		3.5128			3.6849
6	Amount charged by the Coal /Lignite Company	(Rs.)	7352838368		7558647937			7859601209
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	435552917		150000000			126483855
8	Total amount Charged (6+7)	(Rs.)	7788391285		7708647937			7986085063
9	Transportation charges by rail/ship/road transport	(Rs.)	149680783		147885090			169048155
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.)	17051505		19129401			17343677
13	Total Transportation Charges (9+/-10-11+12)	(Rs.)	166732288		167014491			186391832
13A	Handling, Sampling and such other similar charges	(Rs.)	34788629		32948789			80527942
14	Total amount Charged for coal/ignite supplied including Transportation (8+13+13A)	(Rs.)	7989912202		7908611218			8253004837
15	Landed cost of coal/ Lignite (14/5)	Rs./MT	2202.86		2251.35			2239.67
16	Blending Ratio (Domestic/Imported)		100.00		100.00			100.00
17	Weighted average cost of coal/Lignite for preceding three months	Rs./MT						
18	GCV of Domestic Coal as per bill of Coal Company (Eq Basis)	(kCal/Kg)						
19	GCV of Imported Coal as per bill Coal Company	(kCal/Kg)	4629		4694			4689
20	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	4629		4694			4689
21	GCV of Domestic Coal as received at Station (TM basis)	(kCal/Kg)						
22	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)	3593		3700			3793
23	Weighted average GCV of coal/ Lignite as Received (TM basis)	(kCal/Kg)	3593		3700			3793

* Includes opening stock



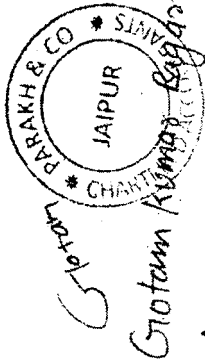
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Details of Source wise Fuel for Computation of Energy Charges

S. No.	Month	Unit	Vindhyaachal STPP, Stage 1, 2, 3, 4 & 5														
			Stage 1		Stage 2		Stage 3		Stage 4		Stage 5						
			Domestic	Imported	Domestic	Imported	Domestic	Imported	Domestic	Imported	Domestic	Imported					
Name of the Company:			NTPC Limited														
Name of the Power Station:			Vindhyaachal STPP, Stage 1, 2, 3, 4 & 5														
1		(MMT)	3,6357		3,6357		3,6357		3,6357		3,6357		3,6357		3,6357		3,6357
2	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)															
3	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)															
4	Coal supplied by Coal/Lignite Company (3+4)	(MMT)	3,6357		3,6357		3,6357		3,6357		3,6357		3,6357		3,6357		3,6357
5	Normative Transit & Handling Losses (For coal/Lignite based projects)	(MMT)	0,0086		0,0086		0,0086		0,0086		0,0086		0,0086		0,0086		0,0086
6	Net coal / Lignite Supplied (3-4)	(MMT)	3,6271		3,6271		3,6271		3,6271		3,6271		3,6271		3,6271		3,6271
7	Amount charged by the Coal/Lignite Company	(Rs.)	7352838368		7352838368		7352838368		7352838368		7352838368		7352838368		7352838368		7352838368
8	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	435552917		435552917		435552917		435552917		435552917		435552917		435552917		435552917
9	Total amount charged (6+7)	(Rs.)	7788391285		7788391285		7788391285		7788391285		7788391285		7788391285		7788391285		7788391285
10	Transportation charges by rail/ship/road transport	(Rs.)	149680783		149680783		149680783		149680783		149680783		149680783		149680783		149680783
11	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)															
12	Demurrage Charges, if any	(Rs.)															
13	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	17051505		17051505		17051505		17051505		17051505		17051505		17051505		17051505
13A	Total Transportation Charges (9+10+11+12)	(Rs.)	166732288		166732288		166732288		166732288		166732288		166732288		166732288		166732288
14	Handling, Sampling and such other similar charges	(Rs.)	34788629		34788629		34788629		34788629		34788629		34788629		34788629		34788629
14	Total amount charged for coal/lignite supplied including Transportation (8+13+13A)	(Rs.)	7989912202		7989912202		7989912202		7989912202		7989912202		7989912202		7989912202		7989912202
15	Landed cost of coal/Lignite (14+5)	Rs./MT	2202.86		2202.86		2202.86		2202.86		2202.86		2202.86		2202.86		2202.86
16	Blending Ratio (Domestic/Imported)	Rs./MT	100.00		100.00		100.00		100.00		100.00		100.00		100.00		100.00
17	Weighted average cost of coal/Lignite for preceding three months	Rs./MT															
18	GCV of Domestic Coal as per bill of Coal Company (Eq Basis)	(KCal/Kg)	4629		4629		4629		4629		4629		4629		4629		4629
19	GCV of Imported Coal as per bill of Coal Company	(KCal/Kg)															
20	Weighted average GCV of coal/Lignite as Billed	(KCal/Kg)	4629		4629		4629		4629		4629		4629		4629		4629
21	GCV of Domestic Coal as received at Station (TM basis)	(KCal/Kg)	3593		3593		3593		3593		3593		3593		3593		3593
22	GCV of Imported Coal as received at Station (TM basis)	(KCal/Kg)															
23	Weighted average GCV of coal/Lignite as received (TM basis)	(KCal/Kg)	3574		3574		3592		3592		3592		3593		3593		3609

Note: Qty and Value at Sl. No. 1 and 6 respectively also includes the Qty and Value of Opening stock.

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Details of Source wise Fuel for Computation of Energy Charges

S. No.	Month	Unit	NTPC Limited Vindhyachal STPP, Stage 1, 2, 3, 4 & 5											
			Stage 1 Nov-18		Stage 2 Nov-18		Stage 3 Nov-18		Stage 4 Nov-18		Stage 5 Nov-18			
			Domestic	Imported	Domestic	Imported	Domestic	Imported	Domestic	Imported	Domestic	Imported		
1	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)	3.5211		3.5211		3.5211		3.5211		3.5211		3.5211	
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)												
3	Coal supplied by Coal/Lignite Company (3+4)	(MMT)	3.5211		3.5211		3.5211		3.5211		3.5211		3.5211	
4	Normative Transit & Handling Losses (For coal/Lignite based projects)	(MMT)	0.0083		0.0083		0.0083		0.0083		0.0083		0.0083	
5	Net coal / Lignite Supplied (3-4)	(MMT)	3.5128		3.5128		3.5128		3.5128		3.5128		3.5128	
6	Amount charged by the Coal / Lignite Company	(Rs.)	7558647937		7558647937		7558647937		7558647937		7558647937		7558647937	
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	150000000		150000000		150000000		150000000		150000000		150000000	
8	Total amount charged (6+7)	(Rs.)	7708647937		7708647937		7708647937		7708647937		7708647937		7708647937	
9	Transportation charged by rail/ship/road transport	(Rs.)	147885090		147885090		147885090		147885090		147885090		147885090	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)												
11	Demurrage Charges, if any	(Rs.)												
12	Cost of dross in transporting coal through MGR system, if applicable	(Rs.)	19129401		19129401		19129401		19129401		19129401		19129401	
13	Total Transportation Charges (9+10-11+12)	(Rs.)	167014491		167014491		167014491		167014491		167014491		167014491	
13A	Handling, Sampling and such other similar charges	(Rs.)	32948789		32948789		32948789		32948789		32948789		32948789	
14	Total amount charged for coal/ignite supplied including Transportation (8-13+13A)	(Rs.)	7908611218		7908611218		7908611218		7908611218		7908611218		7908611218	
15	Landed cost of coal/ Lignite (14/5)	Rs./MT	2251.35		2251.35		2251.35		2251.35		2251.35		2251.35	
16	Blending Ratio (Domestic/Imported)		100.00		100.00		100.00		100.00		100.00		100.00	
17	Weighted average cost of coal/ Lignite for preceding three months	Rs./MT					2231.13							
18	GCV of Domestic Coal as per bill of Coal Company (Eq Basis)	(KCal/Kg)	4694		4694		4694		4694		4694		4694	
19	GCV of Imported Coal as per bill Coal Company	(KCal/Kg)												
20	Weighted average GCV of coal/ Lignite as Billed	(KCal/Kg)	4694		4694		4694		4694		4694		4694	
21	GCV of Domestic Coal as received at Station (TM basis)	(KCal/Kg)	3701		3701		3701		3701		3701		3701	
22	GCV of Imported Coal as received at Station	(KCal/Kg)												
23	Weighted average GCV of coal/ Lignite as received (TM basis)	(KCal/Kg)	3701		3701		3680		3700		3700		3699	

Note: Qty and Value at Sl. No. 1 and 6 respectively also includes the Qty and Value of Opening stock.

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Gotam Kumar Bagasiga

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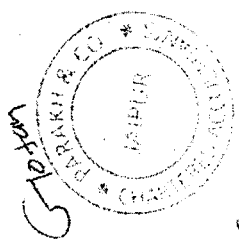
Details of Source wise Fuel for Computation of Energy Charges

S. No.	Month	Unit	NTPC Limited Vinayachal STPP, Stage 1,2,3,4 & 5													
			Stage 1 Dec-18		Stage 2 Dec-18		Stage 3 Dec-18		Stage 4 Dec-18		Stage 5 Dec-18					
			Domestic	Imported	Domestic	Imported	Domestic	Imported	Domestic	Imported	Domestic	Imported				
1	Quantity of Coal/Lignite supplied by Coal/Lignite Company.	(MMT)	3.6942		3.6942		3.6942		3.6942		3.6942		3.6942		3.6942	
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)														
3	Coal supplied by Coal/Lignite Company (3+4)	(MMT)	3.6942		3.6942		3.6942		3.6942		3.6942		3.6942		3.6942	
4	Normalise Transit & Handling Losses (for coal/Lignite based projects)	(MMT)	0.0092		0.0092		0.0092		0.0092		0.0092		0.0092		0.0092	
5	Net coal/Lignite Supplied (3-4)	(MMT)	3.6849		3.6849		3.6849		3.6849		3.6849		3.6849		3.6849	
6	Amount charged by the Coal/Lignite Company	(Rs.)	7859601209		7859601209		7859601209		7859601209		7859601209		7859601209		7859601209	
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	126483855		126483855		126483855		126483855		126483855		126483855		126483855	
8	Total amount Charged (6+7)	(Rs.)	7986085063		7986085063		7986085063		7986085063		7986085063		7986085063		7986085063	
9	Transportation charges by rail/ship/road transport	(Rs.)	169048155		169048155		169048155		169048155		169048155		169048155		169048155	
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.)	17343677		17343677		17343677		17343677		17343677		17343677		17343677	
13	Total Transportation Charges (9+/-10-11-12)	(Rs.)	186391832		186391832		186391832		186391832		186391832		186391832		186391832	
13A	Handling, Sampling and such other similar charges	(Rs.)	80527942		80527942		80527942		80527942		80527942		80527942		80527942	
14	Total amount Charged for coal/Lignite supplied including Transportation (8-13+13A)	(Rs.)	8253004837		8253004837		8253004837		8253004837		8253004837		8253004837		8253004837	
15	Landed cost of coal/Lignite (14/5)	Rs./MT	2239.67		2239.67		2239.67		2239.67		2239.67		2239.67		2239.67	
16	Blending Ratio (Domestic/Imported)	Rs./MT	100.00		100.00		100.00		100.00		100.00		100.00		100.00	
17	Weighted average cost of coal/Lignite for preceding three months	Rs./MT					2231.13									
18	GCV of Domestic Coal as per bill of Coal Company (Erj Basis)	(kCal/kg)	4689		4689		4689		4689		4689		4689		4689	
19	GCV of Imported Coal as per bill Coal Company	(kCal/kg)														
20	Weighted average GCV of coal/Lignite as Billed	(kCal/kg)	4689		4689		4689		4689		4689		4689		4689	
21	GCV of Domestic Coal as received at Station (TM basis)	(kCal/kg)	3796		3796		3796		3796		3796		3796		3796	
22	GCV of Imported Coal as received at Station	(kCal/kg)														
23	Weighted average GCV of coal/Lignite as received (TM basis)	(kCal/kg)	3796		3796		3829		3794		3829		3794		3794	

Note: Qty and Value at Sl. No. 1 and 6 respectively also includes the Qty and Value of Opening stock.

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Goutam Kumar Bagasriya
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FAN - 0001475C

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Details of Secondary Fuel for Computation of Energy Charges

Name of the Company :		NTPC Limited			
Name of the Power Station :		Vindhyachal STPP, Stage-4			
Sl.No.	Month	Unit	Oct-18 LDO	Nov-18 LDO	Dec-18 LDO
1	Quantity of Oil supplied by Oil Company	KL	2823	2607.92	2468
2	Adjustment(+/-) in quantity supplied made by Oil Company	KL	0	0.00	0
3	Oil supplied by Oil Company (1+2)	KL	2823	2608	2468
4	Normative Transit & Handling Losses	KL	0	0.00	0
5	Net Oil Supplied (3-4)	KL	2823	2608	2468
6	Amount charged by the Oil Company	(Rs)	142365541	131522658	124462176
7	Adjustment(+/-) in amount charged made by Oil Company	(Rs)			
8	Total amount charged (6+7)	(Rs)	142365541	131522658	124462176
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)	142365541	131522658	124462176
16	Weighted average GCV of Oil as fired Stage-IV	(kCal/L)	9822	9844	9824
17	Weighted average rate of Secondary Fuel Stage-IV	Rs/KL	50432.01	50432.01	50432.01

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Petitioner

Computation of Energy Charges

Name of the Company	NTPC Limited
Name of the Power Station	Vindhyachal Super Thermal Power Station Stage-IV

Computation of Energy Charges

- Rate of Energy Charge from Sec. Fuel Oil/ Alternate Fuel (p/kwh) = $(Q_{a,h}) \times P_s$ 2.522
- Heat Contribution from SFO / Alternate Fuel (H_p) = $(Q_s) \times (GCV)_s$ 4.915
- Heat Contribution from coal (H_p) = $GHR - H_s$ 2410.09
- Specific Primary Fuel Consumption (Q_p) = $H_p / (GCV)_p$ 0.667
- Rate of Energy charge from Primary Fuel (p/kwh) = $(REC)_p$ 148.917
- Rate of Energy charge ex-bus (p/kWh) = $((REC)_s + (REC)_p) / (1 - (AUX))$ 161.535

	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	2,415.00	2,415.00	2,415.00	2,415.00	2,415

Computation of Variable Charges

Variable Charge (Coal) p/kwh	158.845	158.845	158.845	158.845	158.845
Variable Charge (Oil) p/kwh	2.690	2.690	2.690	2.690	2.690
Total p/kwh	161.535	161.535	161.535	161.535	161.535

Price of fuel from Form-15/15A

Coal Cost (Rs./MT)	2231.09	2231.09	2231.09	2231.09	2231.09
Oil Cost (Rs./KL)	50432.01	50432.01	50432.01	50432.01	50432.01

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 40 Days (Rs. Lakh)	12151.64	12151.64	12151.64	12151.64	12151.64
Cost of oil for 2 months (Rs. Lakh)	313.79	312.93	312.93	312.93	313.79
Energy Expenses for 45 days (Rs. Lakh)	13902.08	13902.08	13902.08	13902.08	13902.08

Coal	3rd month	2nd month	1st month	Wtd. Avg.
Wtd. Avg. Price of Coal Rs./MT	2202.86	2251.35	2239.67	2231.09
Wtd. Avg. GCV of Coal as received kCal/Kg	3593	3700	3793	3695.81
Wtd. Avg. GCV of Coal as received after adjustment of 85 kcal/kg				3610.81
Sec. Oil				
Wtd. Avg. Price of Secondary Fuel Rs/KL	50432.01	50432.01	50432.01	50432.01
Wtd. Avg. GCV of Secondary Fuel kCal/L	9822.00	9844.00	9824.00	9829.89

 PETITIONER

Name of the Petitioner
Name of the Generating StationNTPC Ltd
Vindhyachal Super Thermal Power Station Stage-IV**Statement of Capital cost**

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	641177.64	12410.66	628766.98
	b) Amount of IDC in A(a) above	67307.4	0	67307.4
	c) Amount of FC in A(a) above	0	0	0
	d) Amount of FERV in A(a) above	47893.75	0	47893.75
	e) Amount of Hedging Cost in A(a) above	0	0	0
	f) Amount of IEDC in A(a) above	18802.62	0	18802.62
B	a) Addition in Gross Block Amount during the period (Direct purchases)			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

To be provided at the time of truing-up


(Petitioner)

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Name of the Petitioner
Name of the Generating Station

NTPC Ltd
Vindhyachal Super Thermal Power Station Stage-IV

Statement of Capital Woks in Progress

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	2901.37	322.25	2579.12
	b) Amount of IDC in A(a) above	489.95		489.95
	c) Amount of FC in A(a) above	0		0
	d) Amount of FERV in A(a) above	0		0
	e) Amount of Hedging Cost in A(a) above	0		0
	f) Amount of IEDC in A(a) above	0		0
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			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

To be provided at the time of Truing-up

(Petitioner)

Calculation of Interest on Normative Loan

Name of the Company :		NTPC Limited							
Name of the Power Station :		Vindhyachal Super Thermal Power Station Stage-IV							

S. No.	Particulars	(Amount in Rs Lakh)							
		Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2023-24	2023-24
1	2	3	4	5	6	7	8	8	8
1	Gross Normative loan – Opening	4,41,825.38	4,43,585.01	4,48,703.41	4,50,639.61	4,60,064.41	4,61,106.71	4,61,106.71	4,61,106.71
2	Cumulative repayment of Normative loan up to previous year	1,28,837.69	1,60,894.79	1,94,393.85	2,28,157.75	2,62,348.19	2,96,931.58	2,96,931.58	2,96,931.58
3	Net Normative loan – Opening	3,12,987.69	2,82,690.22	2,54,309.56	2,22,481.86	1,97,716.22	1,64,175.13	1,64,175.13	1,64,175.13
4	Add: Increase due to addition during the year / period	1496.19	5,118.40	1,936.20	9,424.80	1,042.30	-	-	-
5	Less: Decrease due to de-capitalisation during the year / period	-746.09	0.00	0.00	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	1009.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Less: Repayment of Loan	32803.19	33,499.06	33,763.91	34,190.43	34,583.40	34,622.53	34,622.53	34,622.53
9	Net Normative loan - Closing	2,81,680.69	2,54,309.56	2,22,481.86	1,97,716.22	1,64,175.13	1,29,552.60	1,29,552.60	1,29,552.60
10	Average Normative loan	2,97,334.19	2,68,499.89	2,38,395.71	2,10,099.04	1,80,945.68	1,46,863.87	1,46,863.87	1,46,863.87
11	Weighted average rate of interest	7.5647	7.6030	7.6116	7.6134	7.9398	8.3932	8.3932	8.3932
12	Interest on Loan	22492.44	20414.05	18145.73	15995.68	14366.72	12326.58	12326.58	12326.58



(Petitioner)

Calculation of Interest on Working Capital

Name of the Company :		NTPC Limited							
Name of the Power Station :		Vindhyachal Super Thermal Power Station Stage-IV							
S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	(Amount in Rs Lakh)	
								3	4
1	Cost of Coal/Lignite	11,803.54	12151.64	12151.64	12151.64	12151.64	12151.64		
2	Cost of Main Secondary Fuel Oil	326.06	313.79	312.93	312.93	312.93	313.79		
3	Fuel Cost								
4	Liquid Fuel Stock								
5	O & M Expenses	1,824.93	2085.82	2163.56	2244.66	2329.22	2416.47		
6	Maintenance Spares	4,379.83	5005.98	5192.54	5387.19	5590.12	5799.53		
7	Receivables	36,639.62	28739.14	28685.92	28653.41	28682.77	28532.43		
8	Total Working Capital	54973.99	48296.37	48506.59	48749.84	49066.68	49213.86		
9	Rate of Interest (%)	13.50	12.05	12.05	12.05	12.05	12.05		
10	Interest on Working Capital	7421.49	5819.71	5845.04	5874.36	5912.54	5930.27		



Petitioner

Calculation of Interest on Working Capital

Name of the Company :		NTPC Limited							
Name of the Power Station :		Vindhyachal Super Thermal Power Station Stage-IV							
S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	(Amount in Rs Lakh)	
								3	4
1	Cost of Coal/Lignite	11,803.54	12151.64	12151.64	12151.64	12151.64	12151.64		
2	Cost of Main Secondary Fuel Oil	326.06	313.79	312.93	312.93	312.93	313.79		
3	Fuel Cost								
4	Liquid Fuel Stock								
5	O & M Expenses	1,824.93	2085.82	2163.56	2244.66	2329.22	2416.47		
6	Maintenance Spares	4,379.83	5005.98	5192.54	5387.19	5590.12	5799.53		
7	Receivables	36,639.62	28739.14	28685.92	28653.41	28682.77	28532.43		
8	Total Working Capital	54973.99	48296.37	48506.59	48749.84	49066.68	49213.86		
9	Rate of Interest (%)	13.50	12.05	12.05	12.05	12.05	12.05		
10	Interest on Working Capital	7421.49	5819.71	5845.04	5874.36	5912.54	5930.27		



Petitioner

Liability Flow Statement

Statement of Liability flow year 01.04.2019		NTPC Limited		Amount in Rs	Particulars
Name of the Payee	Balance of Generating Station	VSTPS-IV	VSTPS-IV		
Sr. No.	Name of the Party	Name of the work	Year of creation of liability capitalized in Gross Block	Undischarged liabilities relating to GB 31.03.2019	
66	ERMAX LTD	(3) DM Plant & CW Treatment System Package	2013-14	(10)151(6)1(0)	
67	NATIONAL BUILDINGS	COOLING TOWERS Package	2013-14	355367.63	
68	UNITECH MACHINES LTD	Station Pumps Stage IV	2013-14	142528.74	
69	Suprand Industrial Fire Safety Ltd	Station Pumps & Protection System Package	2013-14	2942088.096	
70	BLUE STAR LTD	Ventilation - main co-VSTPP-IV	2013-14	268850.7892	
71	CAS ELECTRIC LTD	Main Equipment for Generator Busducts and Associated Equipment, MV busducts package.	2013-14	0	
72	AREVA T&D INDIA LTD	1.1 HV Power Cables Package Vindhya/Chal. IV	2013-14	0	
73	CORDS CABLE INDUSTRIES LTD	Main Equipment Supply for Electrical Equipment Supply & Erection Package	2013-14	0	
74	PETRON ENGINEERING C.	Power Transformers Pkg	2013-14	0	
75	GROMPTION GREENVEL LTD	Job contract for laying redundant optical fibre link for adm. Bldg. EDC, Township Exchange, Hospital and service bldg. Stage.	2013-14	0	
76	GEMINI COMMUNICATION	Supply, installation, commissioning and maintenance of IP based cameras - 03 nos. for Project monitoring	2013-14	0	
77	PAN COMMUNICATIONS P	Supply, installation, commissioning and maintenance of IP based cameras - 03 nos. for Project monitoring	2013-14	0	
78	SASANT ENGINEERING C	Make Sin Pkg	2013-14	0	
79	ESB ENGINEERING	ERV SG ESP ST IV	2013-14	10473598.3	
80	CW S&M	ERV CW System ST IV	2013-14	1040397.97	
81	BHEL	ERV TG ST IV	2013-14	14046255.0	
82	INDUENTS PROCESS SYS	ERV FOPS ST IV	2013-14	0	
83	Suprand Industrial Fire Safety Ltd	TG STAGE-IV 5500010483	2013-14	0	
84	BHEL	CHP Stage IV	2013-14	250908.189	
85	IRE R. Limb and Partners	Procurement	2013-14	5247357.19	
86	UNITECH PUMP INDUSTRIES	SUBMERGIBLE DRAINAGE PUMP 4200036008	2013-14	0	
87	UNITECH PUMP INDUSTRIES	HYDROGEN PURITY MONITORING KIT 4200034100	2013-14	2445625.64	
88	UNITECH PUMP INDUSTRIES	ELECTRIC WINCH CAP-5T 4200036617	2013-14	0	
89	ELECTRO THERMAT	AERIAL TOWER WAGON 4200037745	2013-14	0	
90	MANIAR & CO	ELE OPTD WIRE ROPE HOIST 3 MT / 40 MTR 4200038607	2013-14	0	
91	M.A. JOHN & CO	HYDRAULIC REPAIRING EQUIPMENT 420008122	2013-14	0	
92	FRANZ KREIN & COPVT LTD	TRUCK MOUNTED AERIAL ACCESS TOWER WAGON 4200036010	2013-14	0	
93	HYVA INDIA PVT LTD	TRANSPORTER 4200036376	2013-14	0	
94	HYVA INDIA PVT LTD	250 TON WAGON 4200036376	2013-14	125000	
95	SUMESH PETROLEUM	250 TON WAGON 4200036376	2013-14	0	
96	DEEV GEN SET SALES AND SERVICES	250 TON WAGON 4200036376	2013-14	0	
97	M.A. JOHN & CO	ELE OPTD. WIRE ROPE HOIST 3 MT / 40 MTR 4200038607	2013-14	0	
98	URIOQUE INDUSTRIES	HYDRAULIC MOBILE FLOOR CRANE CAP 5MT 4200037865	2013-14	0	
99	MYTRID TECHNO PVT LTD	DOPPLER FLOW TESTING INSTRUMENT 4200106885	2013-14	0	
100	VJAY CONSTRUCTION	Approach road between 7#-9# 4 road and TP-36 of VSTPP Stage-IV	2014-15	0	
101	VJAY CONSTRUCTION	Development of new Mahave gate area including vehicle parking, drainage of existing road, drain, fencing etc	2014-15	0	
102	VJAY CONSTRUCTION	Development of exterior road near ore-loader rail lines outside plant area	2014-15	0	
103	VJAY CONSTRUCTION	Development of new Mahave gate area including vehicle parking, drainage of existing road, drain, fencing etc	2014-15	0	
104	Amshy Enterprises	Approach road between 7#-9# 4 road and TP-36 of VSTPP Stage-IV	2014-15	0	
105	BEJANEJA CONSTRUCTIONS	Development of exterior road near ore-loader rail lines outside plant area	2014-15	0	
106	R. B. SHARMA	Const. of boundary wall-chimneys	2014-15	1102387	
107	SHANKER BROTHERS	Construction of toilet block in main plant area and CHP of Stage-IV	2014-15	0	
108	SHANKER BROTHERS	Construction of 40 nos. D-II type quarters with servant quarter and terrace including internal electrification of Vindhya/Chal.	2014-15	0	
109	SEA ROCK BUILDERS IN	Construction of 40 nos. D-II type quarters with servant quarter and terrace including internal electrification of Vindhya/Chal.	2014-15	0	
110	SEA ROCK BUILDERS IN	Construction of 40 nos. D-II type quarters with servant quarter and terrace including internal electrification of Vindhya/Chal.	2014-15	0	
111	SEA ROCK BUILDERS IN	Construction of 40 nos. D-II type quarters with servant quarter and terrace including internal electrification of Vindhya/Chal.	2014-15	0	
112	SEA ROCK BUILDERS IN	Construction of 40 nos. D-II type quarters with servant quarter and terrace including internal electrification of Vindhya/Chal.	2014-15	0	
113	SEA ROCK BUILDERS IN	Construction of 40 nos. D-II type quarters with servant quarter and terrace including internal electrification of Vindhya/Chal.	2014-15	0	
114	AURUM CONSTRUCTION	Construction of 40 nos. D-II type quarters with servant quarter and terrace including internal electrification of Vindhya/Chal.	2014-15	0	
115	AWADHESH KUMAR	Construction of 40 nos. D-II type quarters with servant quarter and terrace including internal electrification of Vindhya/Chal.	2014-15	0	
116	AWADHESH KUMAR	Construction of 40 nos. D-II type quarters with servant quarter and terrace including internal electrification of Vindhya/Chal.	2014-15	0	
117	SIMPLEX INFRASTRUCTU	CONSTRUCTION OF SEPTIC TANK STAGE-IV	2014-15	0	
118	RADHA MACHINERYWORKS	Mainland Chf-Stage IV	2014-15	0	
119	RADHA MACHINERYWORKS	Construction of under ground and over head tank of VSTPP Stage-IV	2014-15	0	
120	AURUM CONSTRUCTION	Supply, installation, commissioning and testing of vertical turbine pumps and motors for underground tank and overhead tank for D-II	2014-15	0	
121	AURUM CONSTRUCTION	Supply, installation, commissioning and testing of vertical turbine pumps and motors for underground tank and overhead tank for D-II	2014-15	0	

Liability Flow Statement

Statement of Liability flow w/e 01.04.2019		NTPC Limited		Part 2	
Name of the Particular		VSTPP-IV		Form 5	
Name of Generating Station		27.03.2018		Amount in Rs.	
Sr. No.	Name of the Party	Name of the work	Year of creation of liability capitalised in Gross Block	Undischarged liabilities relating to GB 31.03.2018	Part 2
(1)	(2)	(3)	(4)	(5)	(6)
180	V.S.B. WIRES PVT.LT	Instrumentation Cables Pkg for VSTPP-IV	2015-16	1122,36,561.8	
181	Rena	Augmentation of Railway Sliding	2015-16		
182	V.S. TIWARI	CGR Augmentation	2015-16		
183	TRE LTD	Stage IV	2015-16		
184	ANURAG TRADERS	Ash Dyke	2015-16		
185	SHRI SURESH ENTERPRISES	Ash Dyke	2015-16		
186	COLLECTOR SINGRAULI (KOLAR)	Ash Dyke	2015-16		
187	ISSCO INFRASTRUCTURE PVT.LTD	Ash Dyke	2015-16		
188	MENGERIC INFORMATION TECHNOLOGIES	Ash Dyke	2015-16		
189	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
190	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
191	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
192	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
193	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
194	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
195	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
196	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
197	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
198	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
199	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
200	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
201	POWER GRID CORPORATION INDIA LTD	Ash Dyke	2015-16		
202	NATIONAL BUILDINGS & CONSTRUCTION CO. LTD	Pre Treatment Plant Stage IV	2015-16	3,46,21,255.42	
203	UNITECH MACHINES LTD	COOLING TOWERS Package	2015-16	1,82,962	
204	Srinivas Industrial Fire Safety Ltd	Support For Fire Detection & Protection System Package	2015-16	41,527.0	
205	SRINIVAS INDUSTRIAL FIRE SAFETY LTD	Main equipment MV switchgear package	2015-16	2,43,14,30.05	
206	SRINIVAS INDUSTRIAL FIRE SAFETY LTD	Power Transformers Pkg	2015-16		
207	LARSEN & TOUBRO. LTD	Brick Yard Package Stage IV	2015-16		
208	Abhishek Enterprises	Brick Yards Augmentation of road from Nayaven Vihar to Telgawan Bridge at Vindhyaachal	2015-16		
209	SENLOGIC AUTOMATION PVT. LTD	Job contract for Design & Supply of In Motion Wash Bridge System	2015-16	2,47,41.75	
210	ANIL KUMAR VASHIYA	Ash Dyke	2015-16	65,900.0	
211	A.K.VERMA	Construction of existing boundary wall and construction of new boundary wall for Stage-IV	2015-16		
212	ALJEET CONSTRUCTION CO	Construction of new basket ball court for Gids in PDS	2015-16	0	
213	ALJEET CONSTRUCTION CO	Construction of Pipe Support Gallery at CHP area for Connection of Fire Fighting Line to Track-Hopper Stage - IV	2015-16	50,770	
214	SAHAYAK PUNJWAR ADHICARI	Construction of new boundary wall for Stage-IV	2015-16	63,998	
215	S.V. NETWORK TECHNOLOGIES	Proposal for payment of house owners of Khasta 70 at Vindhyaachal	2015-16		
216	BASANT ENGINEERING C	CCTV expansion for plant security surveillance at NTPC-Vindhyaachal	2015-16		
217	BNA TECHNOLOGY CONSULTING LTD	CONSTRUCTION OF 04 Nos. FOOT OVER BRIDGES AT MGR OF STAGE-IV UNDER STAGE-IV	2015-16	28,900	
218	RADHAKRISHNA PANDEY	SUPPLY AND INSTALLATION OF CCTV SYSTEM FOR VSTPP TOWNSHIP AT NTPC-VINDHYACHAL	2015-16	4,59,952	
219	OM ENGINEERING & CONSTRUCTION CO	Demolishing and making of partition brick work and clearing of cold water drains at Cooling tower stage IV (12A)	2015-16	49,784	
220	AMIT ENGINEERING	Electric Erection Work for CT 11B/12B at the risk and cost of M/s NBCC Ltd	2015-16		
221	LEHEN ENGINEERING PVT. LTD	PROVIDING AND FIXING OF BOUNDARY PILLARS AT ASH DYKE AREA OF STAGE-IV OF NTPC-VINDHYACHAL	2015-16	5824	
222	Rena Pratik Singh	Construction of new boundary wall and construction of new boundary wall for Stage-IV	2015-16		
223	Rena Pratik Singh	Construction of new boundary wall and construction of new boundary wall for Stage-IV	2015-16		
224	ARESH ELECTRONICS PVT. LTD	Strengthening of existing roads damaged during construction & erection activities of stage-4 of VSTPP	2015-16	27,291.5	
225	BHEL	Supply and installation of SQUARE WATER HEATER 100 LPS IS:12833 at 40 nos D-type quarter at NTPC, Vindhyaachal.	2015-16	49,23,469	
226	BHEL	SG Ss-IV	2015-16	11,40,002	
227	BHEL 103571	SG STAGE-IV	2015-16	5,84,424.04	
228	CVS System 1002029	SG Ss-IV	2015-16	1,71,15,10.37	
229	UNIVAS PROCESS SYS. 280273	ERV CW System S1 V	2015-16	2,45,071.25	
230	UNIVAS PROCESS SYS. 280273	ERV TG S1 V	2015-16	14,90,435.3	
231	Shreehari Industrial Fire Safety Ltd 2802771	ERV C&I S1 V	2015-16		
232	A.K.VERMA	ERV D&P S1 V	2015-16	1,08,895.0	
233	INSTRUMENTATION LTD	VSNHT-6-CL800 CV210 COMPLETE ASSY	2015-16		
234	INDUSTRIAL ENGINEERING LTD	DIESEL FORK LIFT TRUCK OF 5 TON CAPACITY	2015-16		
235	MIL CONTROLS LTD	MOTR 15QL3.3KV/320KW/4P B3 TEFC DC35SF3	2015-16		
236	MIL CONTROLS LTD	4-4 12X1.2.5" COMPLETE ASSLY.	2015-16		
237	GUPTA RADIO SERVICE & EL	4-4 12X1.2.5" COMPLETE ASSLY.	2015-16	4,22,000	
238	M.T.INDUSTRIES	Full Oil Handling System	2015-16		
239	SHANKAR BROTHERS	CIVIL WORKS IN NEW STEEL YARD AT NTPC-VINDHYACHAL	2016-17		
240	BHRI RAM BROTHERS	Providing, laying, re-routing & misc. work related with drinking water supply in area area	2016-17		
241	SIMPLEX INFRASTRUCTURES LTD	OFFSITE CIVIL WORKS at Stage IV	2016-17	6,08,927	
242	SIMPLEX INFRASTRUCTURES LTD	Part of Main Plant, CW and Offsite Civil Works	2016-17		
243	KUMAR CONSTRUCTION	Laying of drinking water pipe line to township from stage-IV PT plant of VSTPP	2016-17		
244	A.K. CONSTRUCTION	Construction of additional facilities in Saraswati Shahu Mandir School	2016-17	34,428	
245	SHANKAR BROTHERS	Construction of 40 nos. D-II type quarters with servant quarter and	2016-17		
246	A.K. CONSTRUCTION	erection including internal electrification of Vindhyaachal-IV	2016-17		
247	A.K. CONSTRUCTION	Construction of additional facilities at De-Paul school	2016-17	95,708	
248	SHANKAR BROTHERS	Construction of community center	2016-17	10,39,943	
249	BHEL	SG with ESP ST-IV	2016-17		
250	BHEL	ERV SG ESP ST-IV	2016-17	-2,70,138.15	
251	BHEL	ERV TG S1 V	2016-17		
252	BHEL 1039587	ERV TG S1 V	2016-17	-21,36,479.38	
253	INDUSTRIAL ENGINEERING LTD	CPU	2016-17		
254	INDUSTRIAL ENGINEERING LTD	Station Cal	2016-17		
255	INDUSTRIAL ENGINEERING LTD	MGR Augmentation	2016-17	95,000.0	

Liability Flow Statement

Sr. No.	Name of the Party	Name of the work	Year of creation of liability reported in Gross Block	Amount in Rs.	Particulars
1	(G)		(4)	(10)±(15)±(6)±(9)	
256	MOUGUE CONSTR & CONSULTANCY	MGR Augmentation	2016-17	0	
257	TRF LTD	CHP	2016-17	0	
258	SHANKAR BROTHERS	Ash Dyke	2016-17	0	
259	CSGO INFRASTRUCTURE PVT LTD	Ash Dyke	2016-17	0	
260	UTILITY POWERTECH LTD	Ash Dyke	2016-17	0	
261	TECHNOFAB LTD	Ash Dyke	2016-17	0	
262	KRILOSHAR BROTHERS LTD	AWR Package	2016-17	15883005	
263	SHRI SHARAD SHARAT ENGG COMPANY	CW System	2016-17	0	
264	THEERMAX	PT Plant	2016-17	7889003.06	
265	NATIONAL BUILDINGS C	D.M. Plant	2016-17	6230516.86	
266	UNITECH MACHINES LTD	Smoke Tower	2016-17	0	
267	SUREJANG INDUSTRIAL FIRE SAFETY LTD	FDPS Package	2016-17	5785658.85	
268	BLUET STAR LTD	AC System	2016-17	0	
269	AREVA 160 RUDA LTD	Ventilation System	2016-17	0	
270	AREVA 160 RUDA LTD	M.V. Power Transformer	2016-17	1723582.3	
271	ABB LIMITED	L.T Switch Gear Package	2016-17	203174.14	
272	GE INDIAN INDUSTRIAL PVT LTD	Electrical Equipment Erection	2016-17	0	
273	PEIRON ENGINEERING	Laying redundant optical fibre link for admn. Bldg., EDC, Township	2016-17	360812	
274	GEMINI COMMUNICATIONS	Procurement of material for laying of road from Neelgagan Vihar to Telgagan Bore at Vindhyachal.	2016-17	0	
275	Abnary Enterprises	Land survey for identifying NTPC land alongwith Rihand MGR line	2016-17	0	
276	MICRO VISION SURVEYORS	Construction of new basalt ball court for GHA in DPS	2016-17	0	
277	AJEEET CONSTRUCTION CO	Supply of material for CCTV SYSTEM FOR VSTPP	2016-17	0	
278	BMA TECHNOLOGY CONSULTING LTD	CONSTRUCTION OF 04 Nos. FOOT OVER BRIDGES AT MGR OF NTPC VINDHYACHAL UNDER STAGE-IV.	2016-17	283886	
279	BASANT ENGINEERING CO	Construction of unloading platform along WT-4 rail line and plant	2016-17	0	
280	ANADHESH KUMAR	Construction of 05 gates at entry of WT yard near balla rails for Stage-4 of VSTPP	2016-17	191827	
281	G R CONSTRUCTION	PART-III-Balance work of Ash Pipe Line Pedestal from Ghalgadh Phatak to AWRIS (Risk & Cost of MS Teepro System Ltd.)	2016-17	345227	
282	A C CONSTRUCTION	PART-III- Balance work of Ash Pipe Line Pedestal on top of Ash Dyke, GARLANDING PEDESTAL (Risk & Cost of MS Teepro System Ltd.)	2016-17	197041	
283	G R CONSTRUCTION	Continuation of bridge, RTO and railway crossover for ash disposal pipe	2016-17	0	
284	SHASHI ENGINEERING CO	Work under scope of ash handling package Stage-IV of NTPC-VSTPP	2016-17	292481	
285	G R CONSTRUCTION	Job contract for Erection of 400 NB Ash Disposal line from RH MGR to VA Dyke.	2016-17	75125	
286	SHANKAR BROTHERS	Construction of RCC Culvert & Hume Pipe for Ash Disposal Pipe Line, Stage-IV under scope of Ash Handling Package Stage-IV (Risk & Cost of MS Teepro System Ltd.)	2016-17	266555	
287	SHANKAR BROTHERS	Construction of Surya Nalla RCC Bridge for ash disposal pipe line, Stage-IV on risk and cost basis of MS Teepro System Ltd under Ash Handling package of stage-IV at NTPC Vindhyachal	2016-17	600730.83	
288	SHASHI ENGINEERING CO	Balance work of Ash Pipe Line Pedestal from Plant Boundary to Ghalgadh Phatak (Risk & Cost of MS Teepro System Ltd)(PART-I)	2016-17	208207	
289	SAMIYA ENGINEERING WORKS	Work under scope of ash disposal pipe line and cost basis of Ms Teepro System Ltd under Ash Handling package of stage-IV at NTPC Vindhyachal	2016-17	0	
290	R CHOUDHARY & CO	INSTALLATION OF ASH SLURRY DISPOSAL PIPE LINE PART-1 FROM PLANT BOUNDARY/PEDESTAL NO. P-104 TO PEDESTAL NO. 4800 UNDER ASH HANDLING PACKAGE STAGE-IV AT NTPC-VSTPP	2016-17	789204	
291	M K KAGARWAL & CO	CONSTRUCTION OF RAMP AND SHIFTING OF ONE BAY OF EXISTING SHED FOR FIRE TENDER MAINTENANCE AT NTPC-VSTPP	2016-17	35803	
292	JAVUM CONSTRUCTION	Construction of 1000VA Distribution Transformer at NTPC-VSTPP	2016-17	0	
293	MIRZAPUR ELECTRICAL IND. LTD	Construction of 1000VA Distribution Transformer for DVI line Quarters at VSTPP site	2016-17	1152	
294	JAWAHAR YADAV	Construction of 01 additional room in 5 nos Type-I quarters of TTS area at NTPC-VSTPP Township	2016-17	0	
295	VJAY CONSTRUCTION	Construction of pavement quality concrete road along with RCC drains for connecting labour canteen to main road across to Shop building	2016-17	0	
296	Rama Prasad Singh	Strengthening of existing roads, damaged during construction & erection activities of stage-4 of VSTPP	2016-17	0	
297	MAITHILY SHARAN CONSTRUCTION	Augmentation of Plant drainage of Stage-IV at NTPC Vindhyachal	2016-17	588833	
298	GORANKPUR CONSTRUCTION CO PVT LTD	INSTALLATION OF ASH SLURRY DISPOSAL PIPE LINE PART-2 FROM PEDESTAL NO. P-860 TO ASH DYKE VA INCLUDING GARLANDING AREA	2016-17	442424	
299	AJEEET CONSTRUCTION CO	Job Contract for Erection of precast work in ASH Shed-IV for safety of the roof truss structure on risk and cost basis of MS Teepro System Ltd under Ash Handling Package of Stage-IV	2016-17	18000	

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Liability Flow Statement

Statement of Liability flow w.e.f 01.04.2019		NTPC Limited VSTPS-NV		Particulars	
Sr. No.	Name of the Party	Name of the work	Year of creation of liability capitalised in Gross Block	Amount in Rs.	Undischarged liabilities relating to GB 31.03.2019
(1)	(2)	(3)	(4)	(5)	(6)
				10915164.91	
300	SUMAN ENGINEERING WORKS	Construction of Blumhouse Maintenance Road along Ash Pipe Line from Plant boundary to Ash Dye (V4) for Ash Handling Package, including iron track and Coal beds of M/s Teepro System Ltd under Ash Handling Package of stage-IV	2016-17		1480274
301	UTILITY POWERTECH LTD	Job contract for Providing manpower assistance to manage the activities of sites for stage-IV Ash Handling System Package at risk and safety of the sites for Teepro Systems Ltd.	2016-17		105688
302	MP POWER TRANSMISSION CORPORATION	132 KV line renovation works	2016-17		0
303	VIJAY CONSTRUCTION COMPANY	COOKING TOWER	2016-17		0
304	VIJAY CONSTRUCTION	AMENDMENT for Construction of Pavement Quality Concrete Approach Road	2016-17		155000
305	A. K. CONSTRUCTION	Construction of additional facilities in Saraswati Shahu Mandir School	2016-17		290217.48
306	SHANKAR BROTHERS	Renovation work in EDC at NTPC-Vindhyachal	2016-17		3335123
307	SHANKAR BROTHERS	Renovation work in EDC at NTPC-Vindhyachal	2016-17		0
308	MATHILY SHARAL CONSTRUCTION	AMENDMENT for Construction of Pavement Quality Concrete Approach Road	2016-17		0
309	ASCENT PROJECTS	NTPC-VINDHYACHAL CONSULTANCY FOR COMMUNITY CENTRE AT VSTPS stage IV	2016-17		0
310	SINGH CONSTRUCTION, MOPKA	AMENDMENT for Miscellaneous Civil works in central stores under VSTPS stage IV	2016-17		398249
311	POLUXEL SECURITY SYSTEM	Design, supply & erection and commissioning of fire alarm system of AC room of Permanent Store Building.	2016-17		84790
312	INDUSTRIAL PROJECTS/PROJETS COMPANY	Design, supply, erection and commissioning of central AC plant along with AHUs and ducts etc. for community centre at NTPC-Vindhyachal	2016-17		5796530
313	VINDHYA CONSTRUCTION	POWER SUPPLY, CABLING AND EXTERNAL ELECTRIFICATION OF COMMUNITY CENTRE AT NTPC-VINDHYACHAL	2016-17		172561
314	Rare Pragas Singh	Construction of boundary wall, road, lighting poles etc. to include MGR area with extent of VSTPS.	2016-17		1615434
315	Coats & Lunag	Job contract supply and application of water proofing compound for community centre at NTPC Vindhyachal	2016-17		270778
316	SIGMA SEARCH LIGHTS LTD.	Supply and installation of High Mast Lighting System for Community Centre at NTPC-Vindhyachal	2016-17		440625
317	S. N. ENGINEERING WORKS	Job contract for construction of external parking at community centre at NTPC Vindhyachal	2016-17		0
318	CLASSIC INTERIORS	Interior Decoration Works of Community Centre at NTPC Vindhyachal	2016-17		393509
319	PREMIERWORLD TECHNOLOGY LTD	Job contract for fountain supply & installation in community centre at NTP	2016-17		0
320	Godrej & Boyce Mfg. Co. Ltd	Job contract for supply & installation of Godrej make furnitures for community centre at NTPC Vindhyachal	2016-17		266860
321	BITES LTD	REPAIR AND MAINTENANCE ARRANGEMENT FOR READINESS OF TRACKS FOR WPT-3 & 4 AT NTPC VINDHYACHAL.	2016-17		120000
322	CM Systems	ERV CW System S1 IV	2016-17		-77288.06
323	INVENYS PROCESS SYS 200273	ERV CW S1 IV	2016-17		224157.45
324	Suryash Industrial Free Safety Ltd 2002771	ERV TDPS S1 IV	2016-17		41523
325	SHARAT HEAVY ELECTRICALS LTD	ERV TDPS S1 IV	2016-17		0
326	SHARAT HEAVY ELECTRICALS LTD	ERV TDPS S1 IV	2016-17		0
327	SHARAT HEAVY ELECTRICALS LTD	ERV TDPS S1 IV	2016-17		0
328	MANISH FORGINGS PVT LTD	ERV TDPS S1 IV	2016-17		59000
329	D.K. ELECTRICAL INDUSTRIES	ERV TDPS S1 IV	2016-17		148228
330	TUSHAG PUMPS PVT LTD	ERV TDPS S1 IV	2016-17		438862
331	TRIVENI ENGINEERING & INDUSTRIES	ERV TDPS S1 IV	2016-17		187500
332	SHARAT HEAVY ELECTRICALS LTD	ERV TDPS S1 IV	2016-17		0
333	TRIVENI ENGINEERING & INDUSTRIES	ERV TDPS S1 IV	2016-17		0
334	Emvto Zanoed India PVT LTD	ERV TDPS S1 IV	2016-17		0
335	SUDOKASHI ENGINEERS & CONSULTANTS	ERV TDPS S1 IV	2016-17		0
336	SHARAT HEAVY ELECTRICALS LTD	ERV TDPS S1 IV	2016-17		0
337	Manish Forgings Pvt Ltd (USA)	ERV TDPS S1 IV	2016-17		0
338	TRIDENT EQUIPMENTS PVT LTD	ERV TDPS S1 IV	2016-17		0
339	SWATI ENERGY & PROJECTS PVT LTD	ERV TDPS S1 IV	2016-17		3569342
340	SHARAT HEAVY ELECTRICALS LTD	ERV TDPS S1 IV	2016-17		0
341	SHARAT HEAVY ELECTRICALS LTD	ERV TDPS S1 IV	2016-17		0
342	GOOREJA BOYCE MFG CO PVT LTD	ERV TDPS S1 IV	2016-17		178000
343	ACTION CONSTRUCTION EQUIPMENT LTD	ERV TDPS S1 IV	2016-17		0
344	AIRCOM POWER SYSTEMS	ERV TDPS S1 IV	2016-17		0
345	SHANKAR BROTHERS	CIVIL WORKS IN NEW STEEL YARD AT NTPC-VINDHYACHAL	2017-18		401646
346	SIMPLEX INFRASTRUCTURES LTD	OFFSITE CIVIL WORKS PACKAGE-Stage IV	2017-18		2453558
347	A. K. CONSTRUCTION	Construction of additional facilities in Saraswati Shahu Mandir School	2017-18		0
348	SHANKAR BROTHERS	Construction of 40 nos. CH Type quarters with servant quarter and terrace including internal electrification of Vindhyachal-IV	2017-18		0
349	A. K. CONSTRUCTION	Construction of additional facilities at De-Pur school	2017-18		21
350	SHANKAR BROTHERS	Construction of additional facilities in tribal school	2017-18		0
351	BHEL	Construction of community center	2017-18		0
352	BHEL	SG # 11	2017-18		0
353	BHEL	SG # 12	2017-18		11334287.85
354	BHEL	SG # 11	2017-18		0
355	BHEL	SG # 12	2017-18		0
356	BHEL	TG # 11	2017-18		0
357	BHEL	TG # 12	2017-18		0
358	BHEL	ERV TG S1 IV	2017-18		-1097519.90

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Liability Flow Statement

Statement of Liability flow w.e.d 31.03.2019	Name of the Party	Name of the Facility	Name of the Party	Name of the work	Year of creation of liability capitalised in Gross Block	Amount in Rs.	Part-I Form-S
400			NTPC Limited				
			VSTPS JV				
			27.03.2014				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
419	JAI MATYA DEE CONSTRUCTION			Providing and fixing of chain link fencing for Stage-IV works of NTPC-Vindhya	2018-19	0	
420	SHANKAR BROTHERS			Construction of 40 nos. Dull type quarters with separate quarter and terrace including internal electrification of Vindhya	2018-19	0	
421	SHANKAR BROTHERS			Construction of additional facilities at Doshi Public School	2018-19	0	
422	SHANKAR BROTHERS			Construction of additional facilities in Hindi School	2018-19	0	
423	SHANKAR BROTHERS			Construction of community center	2018-19	0	
424	BHEL			SG # 11	2018-19	0	
425	NEW ALLENBERRY WORKS			SUPPLY OF NEW ALLENBERRY MAKE API GEAR BOX AND OVER RUNNING CLUTCH (PAPH & SAPH)	2018-19	0	
426	BHEL			SG # 12	2018-19	481662	
427	BHEL			SG # 11	2018-19	0	
428	BHEL			ERV # 11	2018-19	0	
429	BHEL			ERV # 12	2018-19	2625553.39	
430	BHEL			ERV # 11	2018-19	1192046	
431	BHEL			TG # 12	2018-19	0	
432	INVENSYS INDIA PVT LTD			ERV/TG SH IV	2018-19	0	
433	INVENSYS INDIA PVT LTD			ERV/TG SH IV	2018-19	1285173.48	
434	THE LTD			CHP	2018-19	87724.01	
435	THE LTD			CHP	2018-19	148538	
436	MANJALY BARRI ENGG. COMPANY			AWRS Police	2018-19	0	
437	THERMAX			PT Plant	2018-19	751303.24	
438	UNITECH MACHINES LTD			Station Phone	2018-19	0	
439	SURELAND INDUSTRIAL FIRE SAFETY LTD			FDP'S Package	2018-19	633571	
440	SURELAND INDUSTRIAL FIRE SAFETY LTD			Station Phone	2018-19	726289	
441	PETRA ENGINEERING			Electrical Earthing	2018-19	265871.0	
442	SHANKAR BROTHERS			Construction of new shed and associated structure for Stage-IV. Reconstruction of new sheds including boundary wall at VSTPP	2018-19	0	
443	AJEET CONSTRUCTION CO			Construction of Pipe Support Gallery at CHP area for Connection of Fire Fighting Line to Track Hooper Stage - IV	2018-19	0	
444	JANANAR YADAV			Construction of additional room in 5 nos Type-1 quarters of TTS area at NTPC-VSTPP Terminals	2018-19	0	
445	VAJAY CONSTRUCTION			Construction of pavement quality concrete road along with RCC drains for connecting labor canteen to main Road along to Shaikhanagar	2018-19	248248	
446	Rana Prasad Singh			Repairing of existing road damaged during construction & erection works of Stage-IV VSTPP	2018-19	0	
447	VIJAY CONSTRUCTION COMPANY			Cooling Tower	2018-19	0	
448	BHONNER BROTHERS			Construction of community center internal electrification	2018-19	0	
449	SINGH CONSTRUCTION, MOPKA			AMENDMENT for Miscellaneous Civil works in central stores under VSTPP phase IV.	2018-19	28412	
450	INDUSTRIAL PROJECT PRODUCTS COMPANY			Design, supply erection and commissioning of central AC plant along with AHUs and ducts etc. for community center at NTPC Vindhya	2018-19	300000	
451	Rana Prasad Singh			Construction of boundary wall, road, lighting poles etc. to include MGR	2018-19	0	
452	Coast & Linn			Supply of 8 nos of STY for VSTPP	2018-19	0	
453	S N ENGINEERING WORKS			Job contract for construction of water proofing compound for community centre at NTPC Vindhya	2018-19	0	
454	Goeda & Boyra Mtl Co Ltd			Job contract for construction of external parking at community centre at NTPC Vindhya	2018-19	0	
455	RAJAT ASSOCIATES			Job contract for supply, installation & AMC of CCTV system for VSTPP Hospital	2018-19	789527.88	
456	P. K. THAKUR			Job contract for supply & installation of Goody mate furniture for community center at NTPC Vindhya	2018-19	33032	
457	V.S. THAKUR			Job contract for Construction of GS Noe of Lighting Mast Concrete	2018-19	0	
458	BERNAT HEAVY ELECTRICALS LTD			Final AME for CHP, VSTPP, and MGR	2018-19	864060	
459	D.K. ELECTRICAL INDUSTRIES			Procurement of Complete assemblies of ADP Fluid Coupling Stage-IV	2018-19	155860	
460	D.K. ELECTRICAL INDUSTRIES			SUPPLY OF BACKWASH PUMP COMPLETE	2018-19	1341	
461	PASAMOUNT INTERNATIONAL			ASSEMBLY OF 2-8-5-M	2018-19	47200	
462	NEW CIVIL ENGINEERS			Supply of 37 AH battery Bank	2018-19	273475.88	
463	KAMAL BUILDERS			Construction of pavement quality concrete road along the ash pipe line	2014-15	3404424	
464	KAMAL BUILDERS			Construction of pavement quality concrete road along the ash pipe line	2015-16	3204853	
465	BHEL			corridor road up to V-3 ash drive area		123309590.2	
				ESP Stage-I - R5Babe-I		1384375200	
				Total			

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Summary of issue involved in the petition

Name of the Company :		NTPC Limited				
Name of the Power Station :		Vindhyachal Super Thermal Power Station Stage-IV				
1	Petitioner:	NTPC Limited				
2	Subject	Approval of Tariff for 2019-24				
3	Prayer:	<p>i) Approve tariff of VSTPS-IV 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) Consider station heat rate based on design heat rate with applicable operating margin. v) Pass any other order as it may deem fit in the circumstances mentioned above.</p>				
4	Respondents					
	Name of Respondents					
	a. Madhya Pradesh Power Management Company Limited	e. Electricity Department, Goa				
	b. Maharashtra State Electricity Distribution Co Ltd.	f. Electricity department, DNH				
	c. Gujarat Urja Vikas Nigam Ltd. (GUVNL)					
	d. Chattisgarh State Power Distribution Co. Ltd.,					
5	Project Scope					
	Cost					
	COD	27.03.2014				
	Claim					
	AFC (in Lakh)	2019-20	2020-21	2021-22	2022-23	2023-24
	Capital cost (as on 1.4.2019)	120674.75	119913.36	119649.67	119887.78	118993.48
	Initial spare	633693				
	NAPAF (Gen)	85%				
	Any Specific					

* Units of amounts shown in Rs Lakh

the copy to GM(D) / GM(LTS) Ann - 'A'
AW

Govt Of Karnataka
Department Of Factories, Boilers, Industrial Security And Health

Office of the Director
Karmika Bhawana, II floor, Bannerghatta Road,
Bengaluru-29, Date: 13.04.2016

Proceedings of the Department of Factories, Boilers, Industrial Security and Health

Read with: Sec 6(1) of Factories Act 1948 and Rule 3 of Karnataka Factories Rules, 1969

Sub: Approval of factory drawings in respect of M/s. Kudgi Super Thermal Power Project (NTPC Limited) as per Factories Act 1948 -Reg.

- Ref: 1) Application Form 1 dated 27.01.2016
2) Site Inspection dated 05.02.2016
3) Final Scrutiny dated 07.04.2016

The maps of M/s NTPC Limited, Kudgi Super Thermal Power Project, Vijayapura have been scrutinized as per the Factories Act 1948 and the Rules framed and conceived there under and the blue prints of the factory's buildings and machinery layouts have been approved subject to the conformity of all provisions conceived as per Factories Act 1948 concerned and clause 3(4) of Karnataka Factories Rules, 1969 and also conformity of following conditions:

1. To modify the use of hazardous chlorine chemical to minimum hazardous chlorine chemical and to strictly comply with all the conditions laid down in the letter as per the condition of this office letter no. CSMC/TFC/CR-13/2013-14 Date 23.09.2013.
2. To get those buildings and machinery layout maps approved which are not approved earlier or the maps involving modifications. Such maps should be submitted for approval.
3. Before starting use of all the buildings and structures of the factory, authentication certification should be separately obtained as per Form 1A from authorized Civil Engineers and submitted to the Field Officer. Then only these should be used.

Ninety nine maps as approved are sent enclosed herewith. Kindly acknowledge.

Director of Factories &
Boilers,
Bengaluru

To,
The Occupier,
M/s. Kudgi Super Thermal Power Project
NTPC Limited
Kudgi, Taluka: Basavana Bagewadi, Dist.: Vijayapura

for kind information please.

65/11
ML 29/4/16

29/4/16

मे द्वारा अनुमति

29/4/16

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ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಕಾರ್ಖಾನೆಗಳು, ಬಾಯ್ಲರುಗಳು, ಕೈಗಾರಿಕಾ ಸುರಕ್ಷತೆ ಮತ್ತು ಸ್ವಾಸ್ಥ್ಯ ಇಲಾಖೆ

ಸಂಖ್ಯೆ: ಕಾಬಾನಿ/ಎಫ್‌ಫಿಎಲ್/ಎಫ್‌ಪಿಎನ್/ಸಿಆರ್-167/2015-16

ನಿರ್ದೇಶಕರ ಕಾರ್ಯಾಲಯ,
ಕಾರ್ಮಿಕ ಭವನ, 2ನೇ ಮಹಡಿ, ಬನ್ನೇರುಘಟ್ಟ ರಸ್ತೆ,
ಬೆಂಗಳೂರು-29, ದಿನಾಂಕ: 13.04.2016

ನಿರ್ದೇಶಕರು, ಕಾರ್ಖಾನೆಗಳು, ಬಾಯ್ಲರುಗಳು, ಕೈಗಾರಿಕಾ ಸುರಕ್ಷತೆ ಮತ್ತು ಸ್ವಾಸ್ಥ್ಯ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ಇವರ ನಡವಳಿಗಳು

ಓದಿದೆ: ಕಾರ್ಖಾನೆಗಳ ಕಾಯ್ದೆ 1948ರ ಸೆಕ್ಷನ್ 6(1) ಹಾಗೂ ಕರ್ನಾಟಕ ಕಾರ್ಖಾನೆಗಳ
ನಿಯಮಾವಳಿಗಳು, 1969ರ 3ನೇ ನಿಯಮ.

ವಿಷಯ: ಕಾರ್ಖಾನೆಗಳ ಕಾಯ್ದೆ 1948ರ ಮೇರೆಗೆ ಮೆ|| ಕೂಡಗಿ ಸೂಪರ್ ಥರ್ಮಲ್
ಪವರ್ ಪ್ರಾಜೆಕ್ಟ್ (ಎನ್.ಟಿ.ಪಿ.ಸಿ.ಲಿಮಿಟೆಡ್), ವಿಜಯಪುರ ಈ ಕಾರ್ಖಾನೆಯ
ನಕ್ಷೆಗಳನ್ನು ಅನುಮೋದಿಸುವ ಕುರಿತು.

- ಉಲ್ಲೇಖ : 1) ಅರ್ಜಿ ನಮೂನೆ-1ರ ದಿನಾಂಕ : 27.01.2016.
2) ಸ್ಥಳ ಪರಿವೀಕ್ಷಣೆಯ ದಿನಾಂಕ : 05.02.2016.
3) ಅಂತಿಮ ಪರಿಶೋಧನೆಯ ದಿನಾಂಕ : 07.04.2016.

ಮೆ|| ಕೂಡಗಿ ಸೂಪರ್ ಥರ್ಮಲ್ ಪವರ್ ಪ್ರಾಜೆಕ್ಟ್ (ಎನ್.ಟಿ.ಪಿ.ಸಿ.ಲಿಮಿಟೆಡ್), ವಿಜಯಪುರ ಈ ಕಾರ್ಖಾನೆಯ
ನಕ್ಷೆಗಳು ಕಾರ್ಖಾನೆಗಳ ಕಾಯ್ದೆ 1948ರ ಹಾಗೂ ಅದರಿಂದ ರೂಪಿತವಾದ ನಿಯಮಗಳಲ್ಲಿ ಕಲ್ಪಿಸಿರುವ
ಅವಕಾಶಗಳಿಗನುಸಾರವಾಗಿ ಪರಿಶೋಧಿಸಿದ ಮೇಲೆ ಸದರಿ ಕಾರ್ಖಾನೆಗೆ ಸಂಬಂಧಪಟ್ಟ ಕಟ್ಟಡ ಹಾಗೂ ಯಂತ್ರ ವಿನ್ಯಾಸ
ಇವುಗಳ ನೀಲಿ ನಕ್ಷೆಗಳು ಅಗತ್ಯವಿರುವ ಕಾರ್ಖಾನೆಗಳು ಕಾಯ್ದೆ 1948ರ ಹಾಗೂ ಕರ್ನಾಟಕ ಕಾರ್ಖಾನೆಗಳ
ನಿಯಮಾವಳಿಗಳು 1969ರ 3(4) ನೇ ನಿಯಮಕ್ಕನುಸಾರವಾಗಿ ಕಲ್ಪಿಸಿರುವ ಎಲ್ಲಾ ಅವಕಾಶಗಳು ಮತ್ತು ಈ ಕೆಳಕಂಡ
ಷರತ್ತುಗಳ ಅನುವರ್ತನೆಗೊಳಪಟ್ಟು ಅನುಮೋದಿತವಾಗಿವೆ.

1. ಇದೇ ಕಛೇರಿಯ ಪತ್ರ ಸಂಖ್ಯೆ: ಸಿಎಸ್‌ಎಂಸಿ/ಟಿಎಫ್‌ಸಿ/ಸಿಆರ್-13/2013-14, ದಿ: 23.09.2013 ರಂತೆ
ವಿಧಿಸಿರುವ ಪರತ್ತಿನಂತೆ ಅಪಾಯಕಾರಿ ಕ್ಲೋರಿನ್ ರಾಸಾಯನಿಕದ ಉಪಯೋಗವನ್ನು ಕನಿಷ್ಠ ಅಪಾಯಕಾರಿ
ರಾಸಾಯನಿಕಕ್ಕೆ ಬದಲಾಯಿಸುವುದು ಮತ್ತು ಇತರೆ ಸದರಿ ಪತ್ರದಲ್ಲಿ ಸೂಚಿಸಿರುವ ಎಲ್ಲಾ ಷರತ್ತುಗಳನ್ನು ಕಟ್ಟುನಿಟ್ಟಾಗಿ
ಪಾಲಿಸುವುದು.
2. ಹಾಲಿ ಇಲಾಖೆಯಿಂದ ಅನುಮೋದನೆಗೊಂಡಿರುವ ಎಲ್ಲಾ ಕಟ್ಟಡ ಮತ್ತು ಯಂತ್ರ ವಿನ್ಯಾಸ ನಕ್ಷೆಗಳನ್ನು ಕ್ರೋಡೀಕರಿಸಿ
ಯಾವುದೇ ಕಟ್ಟಡ ಮತ್ತು ಯಂತ್ರ ವಿನ್ಯಾಸ ಅನುಮೋದನೆಗೊಳ್ಳದಿದ್ದಲ್ಲಿ ಅಥವಾ ಬದಲಾವಣೆಗಳಿದ್ದಲ್ಲಿ ಅವುಗಳಿಗೆ
ಸಂಬಂಧಿಸಿದಂತೆ ನಕ್ಷೆಗಳನ್ನು ಸಲ್ಲಿಸಿ ಅನುಮೋದನೆ ಪಡೆಯುವುದು.
3. ಕಾರ್ಖಾನೆಯಲ್ಲಿನ ಎಲ್ಲಾ ಕಟ್ಟಡ ಮತ್ತು ಸ್ವಚ್ಛರಗಳನ್ನು ಉಪಯೋಗಕ್ಕೆ ತೆಗೆದುಕೊಳ್ಳುವ ಪೂರ್ವದಲ್ಲಿ ದೃಢೀಕೃತ
ಸಿಎಲ್ ಇಂಜಿನಿಯರ್‌ಗಳಿಂದ ದೃಢೀಕರಣ ಪ್ರಮಾಣ ಪತ್ರಗಳನ್ನು ನಮೂನೆ-1ಎ ನಂತೆ ಪ್ರತ್ಯೇಕವಾಗಿ ಪಡೆದು
ಕ್ಷೇತ್ರಾಧಿಕಾರಿಗಳಿಗೆ ಸಲ್ಲಿಸಿ, ನಂತರವೇ ಉಪಯೋಗಕ್ಕೆ ತೆಗೆದುಕೊಳ್ಳುವುದು.

ಇವುಗಳಿಗೆ ಅನುಮೋದನೆ ನೀಡಲಾಗಿದೆ
ಇವುಗಳಿಗೆ ಅನುಮೋದನೆ ನೀಡಲಾಗಿದೆ

ಸಹಾಯಕ ನಿರ್ದೇಶಕರು (ಕಾರ್ಮಿಕ ಸೇವೆ)

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

~~SMC/FC/GR-19/2013-14~~

Directorate of Factories, Boilers, Industrial Safety & Health, "Karmika Bhavana" 2nd floor, Near Bangalore Dairy, I.T.I. compound, Bannerghatta road, Bengaluru-29 ~~560075~~

Phone No. 080-26531200
Fax No. 080-26531202

To,
General Manager,
M/s. NTPC Limited,
Kudug Super Thermal Power Project,
Plot No. 9, Malikarjun Nagar,
Mangudi Road, Bangalore-580010

A.G.M (PKS)
Date 17/10/2013

Sir,

Subject: ~~_____~~

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

* * *

We are pleased to inform you that the Task Force Committee in its meeting held on 12.09.2013 has reviewed the presentation, documents, details of the safety aspects adopted here and has concurred in principle to issue the Site Clearance for the establishment of super thermal power project for generating electrical power of X 500 MW at Near Kudug village, Basavana bagewadi Taluk, Bangalore District.

The site clearance is issued subject to the following conditions:

~~_____~~
chemicals like chlorine, phosgene, cyanide, ammonia, hydrazine, etc.

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

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- 8. The mitigation measures as submitted by the proponent and as suggested by committee shall be incorporated in the on-site emergency plan. The same shall be submitted for scrutiny and approval.
- 9. The provisions of rule 70 (25) of Building and Other Construction Workers (Regulation of Employment and condition of service) (Karnataka) Rules 2006 shall be complied to ensure occupational safety and health of the construction workers involved project. The compliance shall be furnished regularly to jurisdiction officers of our department and to the Director of Factories, Health, Industrial Safety and Health.

Suggestions:

- 1. The proponent shall adopt the rain harvesting system to harvest rain water at their site.
- 2. The proponent shall adopt solar energy system at least catering to street lighting and in other suitable areas like water heating in the canteen, etc.

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

Your's Faithfully,

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



BY REGD POST

STATE POLLUTION CONTROL BOARD, ODISHA

(Department of Forest & Environment, Govt. of Odisha)
Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII
Bhubaneswar - 751012

No. 2755 /

Ind-II-NOC-5592

Date 22-02-14

OFFICE MEMORANDUM

In consideration of the application for obtaining Consent to Establish for **Derlipali Super Thermal Power Project of M/s. NTPC Ltd.**, the State Pollution Control Board has been pleased to convey its Consent to Establish under section 25 of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 to set up of Thermal Power Plant of capacity 1600 MW (2x800 MW, stage-I), At/Po-Derlipali (Plot No. & Khata No. as mentioned in application form) in the district of Sundargarh with the following conditions.

GENERAL CONDITIONS.

1. This Consent to establish is valid for the raw materials, product, manufacturing process and capacity mentioned in the application form. This order is valid for five years, which means the proponent shall commence construction of the project within a period of five years from the date of issue of this order. If the proponent fails to do substantial physical progress of the project within five years then a renewal of this consent to establish shall be sought by the proponent.
2. Adequate effluent treatment facilities are to be provided such that the quality of sewage and trade effluent satisfies the standards as prescribed under Environment Protection Rule, 1986 or as prescribed by the Central Pollution Control Board and/or State Pollution Control Board or otherwise stipulated in the special conditions.
3. All emission from the industry as well as the ambient air quality and noise shall conform to the standards as laid down under Environment (Protection) Act, 1986 or as prescribed by Central Pollution Control Board/State Pollution Control Board or otherwise stipulated in the special conditions.
4. Appropriate method of disposal of solid waste is to be adopted to avoid environmental pollution.
5. The industry shall comply to the provisions of Environment Protection Act, 1986 and the rules made there under with their amendments from time to time such as the Hazardous Waste Management, Handling and Transboundary Movement Rules 2008 and amendment thereof, Hazardous Chemical Rules, /Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 etc. and amendments there under. The industry shall also comply to the provisions of Public Liability Insurance Act, 1991, if applicable.
6. The industry shall apply for grant of Consent to operate under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 & Air (Prevention & Control of Pollution) Act, 1981 at least 3 (three) months before the commercial production and obtain Consent to Operate from this Board. ✓
7. This consent to establish is subject to statutory and other clearances from Govt. of Odisha and/or Govt. of India, as and when applicable. ✓

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37. A toe drain shall be provided around the ash mound. The seepage water collected in the toe drain shall be monitored every month with respect to pH, SS, O&G and fluoride and shall meet the following standards

pH-6.5 to 8.5
SS-100mg/l
O&G-20mg/l and
Flouride-2.0mg/l

and the monitoring report shall be submitted to the Board quarterly.

38. Regular monitoring of runoff water from the disposal area and excess ash water shall be carried out with respect to pH, SS, O&G and fluoride content and monitoring report shall be submitted to the Board every quarter.
39. Ash pond shall be lined with HDPE or any other suitable impermeable lining such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.
40. The Project Proponent shall carry out detail hydrogeological study of the ash pond site incorporating soil analysis, ground water quality (fluoride & heavy metals), surface water quality (fluoride & heavy metals) and drainage network of the area and the change in hydrological status shall be monitored annually.
41. Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (F, Cd, Hg, Cr, As, Pb) and records shall be maintained and submitted to the Board. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.
42. The entire upstream face of the dyke shall be provided with stone pitching or brick lining or precast tile lining to prevent erosion of the slope by wave action during heavy wind.
43. The entire area of the ash dyke shall be provided with fencing and unauthorized entry within this ash pond area shall be strictly prohibited. Security guards shall be posted for vigilance of the ash dyke area round the clock. This is very important as there are chances of sabotage. The entire dyke perimeter shall have accessible roads. The entire dyke area shall be provided with street lights or flood lights for inspection during night time. A site office shall be constructed with a full time engineer responsible for inspection and monitoring of the ash dyke.
44. The industry shall construct a Sewage Treatment Plant (STP) for treatment of wastewater to be generated from domestic source and the treated sewage shall be discharged to the common monitoring basin.
45. The unit shall explore the possibility to use chlorine di-oxide for treatment of water instead of chlorine gas.
46. Plantation activity shall be planned in such a way so that trees will have better growth by the time the unit starts operation.
47. The proponent shall deploy vehicles which conform to the latest BIS emission specification. The proponent shall also give a detail proposal to control noise pollution during construction phase. The proponent shall prepare pollution prevention and environment management plan for construction phase and operation phase separately and should submit to the Board three months prior to commencement of construction and operation respectively.
48. The rising temperature during summer in the area is a major concern. The unit shall conduct a detailed study on contribution of thermal heat to atmosphere due to the proposed project and its impact on ambient temperature during different season. The study should also investigate the heat island effect due to the project.



Annexure - 'B'

एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)

Ref.No.01/HR-S&C/ISS/2018

केन्द्रीय कार्यालय / Corporate Centre

05.12.2018

✓ The Inspector General
NCR Sector
Central Industrial Security Force
Ministry of Home Affairs
5th Floor, Block No. 11, CGO Complex
New Delhi-110 003

Sub.: Our visit to NTPC,Vindhyachal and NTPC, Singrauli Projects for joint study reg..
Ref.: Our letter dt. 26.11.2018

Dear Sir,

As discussed with you during our meeting dated 26.11.2018, in addition to NTPC Dadri, we are also going to explore the possibilities of implementation of Integrated Security System in five (5) other projects / sites of NTPC, namely i.e. Singrauli, Vindhyachal, Kudgi, Kawas, Koldam in the 1st phase.

As you are aware, NTPC, Singrauli(UP) and NTPC,Rihand(UP) are situated in close proximity of NTPC,Vindhyachal(MP) which is the biggest power plant of the country as on date. There has been a talk of merging these two establishments of CISF into a single unified command as a part of rationalization.

In the above context, in order to have a first hand study on the possibility of rationalization through integrated security system, may we request you to kindly associate for a visit to NTPC Vindhyachal and Singrauli on 14-15 December, 2018 as I would like to personally visit these project sites on the said dates to have a threadbare discussion on the subject.

However, in case you are not available in view of your other pressing official preoccupation, you may kindly depute a senior officer from CISF to associate in the process

Hope to have a prompt and positive response from you in this regard.

With warm regards.

Yours Sincerely,

Handwritten signature
20/12/18

Handwritten signature

(A.N.Verna)

Executive Director (HR)

DISPATCHER
OFFICE OF THE IGRIGS Hqs
BLOCK NO-11, 5th FLOOR
CGO COMPLEX
NEW DELHI-110003

पंजीकृत कार्यालय : एनटीपीसी भवन, स्कोप कॉम्प्लेक्स, 7, इंस्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110003
कॉर्पोरेट पहचान नम्बर: L40101DL1975GO1007966 टेलीफोन नं.: 011-24387333 फेक्स नं.: 011-24381018 ईमेल: ntpccc@ntpc.co.in वेबसाइट: www.ntpc.co.in

Registered Office : NTPC Bhawan, Scope Complex, 7, Institutional Area, Lodhi Road, New Delhi-110003

Corporate Identification Number : L40101DL1975GO1007966 Tel. : 011-24387333 Fax : 011-24381018 E-mail : ntpccc@ntpc.co.in
Website : www.ntpc.co.in

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एनटीपीसी लिमिटेड

(भारत सरकार की कंपनी)

NTPC Limited

(A Govt. of India Enterprise)

एनटीपीसी कॉर्पोरेट सेंटर

Dated: 26.11.2018

Ref. No. 01: HR: S&C: 001

To
The Inspector General
NCR Sector
Central Industrial Security Force
Ministry of Home Affairs (MHA)
5th floor, Block No. (11), CGO Complex,
New Delhi - 110003.

Sub. : **Integrated Security System in NTPC Stations / Projects.**
Ref. : **Our meeting in your office on dt. 26.11.2018 reg.**

Dear Sir,

As you are aware, we are going for an "Integrated Security System" in NTPC to augment security preparedness by adoption of state of the art technology based security systems in NTPC. In this connection in addition to NTPC, Dadri, we are also contemplating pilot implementation of the system at few other projects of NTPC as well, as indicated by our Director (HR) in his communication dtd. 08.11.2018 to DG (CISF). The projects are as follows.

- 1) NTPC, Singrauli (a big thermal power station in Uttar Pradesh)
- 2) NTPC, Vindhyachal (a big thermal power station in Madhya Pradesh)
- 3) NTPC, Kudgi (a green field project in Karnataka)
- 4) NTPC, Kawas (a gas based project in Gujarat)
- 5) NTPC, Koldam (a hydro project in Himachal Pradesh)

In the above context, you are requested to kindly issue necessary instructions to the CISF unit heads at the referred sites to associate and facilitate in the process, as we will be seeking their support during visits to these sites, as and when required, in the near future.

As suggested by ED (HR), you may also kindly let us know your availability to join us for a joint visit to our Singrauli and Vindhyachal/Rihand project sites for a study reg. integrated security system and possibility of developing a unified command, technological upgradation and consequential rationalisation of CISF deployment.

Thanking you in anticipation of a prompt response please.

Yours Sincerely,

S.N. Pamgrahi
Addl. GM (HR-S&C).

- for kind information and n. a. please.

NTPC
SPATCHER
THE IGNORS HERE
5th FLOOR
CGO COMPLEX
DELHI-110003

J.S. Negi, DIG (I&P)
CISF Head Quarter,
CGO Complex, Lodhi Road.
New Delhi: 110003

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सप्तर्षि राय
निदेशक (मानव संसाधन)
SAPTARSHI ROY
Director (Human Resources)

एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)

केन्द्रीय कार्यालय / Corporate Centre

Dated: 08.11.2018

Subject: Integrated Security System in NTPC Stations /Projects.

Dear *Shri Rajesh Ranjan,*

At the outset, let me thank you for your positive response to our proposal for creating an integrated security system in NTPC project sites.

We are consciously aware that security is a very critical and sensitive aspect of creating huge national assets of critical sectors, like that of ours. CISF, being the exclusive Govt. of India instrumentality, dedicated for Industrial Security, has been deployed at our project / operational sites for protection of our men and material.

In this regard, we are actively considering to take advantage of the latest technological advancement in the area of Security, which will not only enhance the security preparedness of our vital installations of national interest but also can create a possibility of rationalizing the deployment of CISF, thus making the system less susceptible to human error. We are initiating induction of latest technology to strengthen integrated security system in our power stations. CISF has always being our partner in progress. We strongly believe that rationalization of the deployed strength can take place as a consequence of Integrated Security System, as this initiative can yield results only with active support and involvement of CISF.

We are very thankful for the recent responses from CISF to our team who has been closely interacting for the last 3-4 months to realize the subject objective.

We would also like to bring to your kind knowledge that we are working out the blue prints for installation of Integrated Security system for one big operational thermal sites, one operational hydro site and one green field site to start with. Other sites will be taken up in phases subsequently. We will be seeking your active cooperation and guidance for further progress in this direction so that the existing strength in the concerned project sites are rationalised without compromising on the quality of security service and essential manpower with specialised training only are deployed to meet the requirement.

To take this initiative forward for its successful implementation through participative approach, we are contemplating a discussion on the issue with the top team of NTPC and CISF officials to seek valuable guidance at the earliest as per mutual convenience.

We shall be soliciting your kind response in this direction.

Warm regards,

Yours Sincerely,

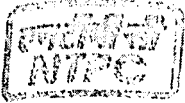
Saptarshi Roy
Saptarshi Roy

Sh. Rajesh Ranjan, IPS
Director General (CISF)
CISF Head Quarter,
CGO Complex, Lodhi Road.
New Delhi-110003

7 इन्स्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110003. टेल/टेल: 24360950, फैक्स/फैक्स: 011-24360912
Lodhi Road, New Delhi-110003. ईमेल/E-mail: srov@ntpc.co.in

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A Maharatna Company

एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)

केन्द्रीय कार्यालय / Corporate Centre

12.09.2018

Ref. No. 01: HR: S&C: 001

Inspector General (NCR Sector)
Central Industrial Security Force
Ministry of Home Affairs (MHA)
5TH Floor, Block No (11), CGO Complex.
New Delhi- 110003.

Sub : Integrated Security System for NTPC Stations/Projects
Ref : Our meeting today in your office

Dear Sir,

Kindly refer to the meeting we had today in your office and the presentation made on Integrated Security System for NTPC Project/Units, on the basis of Pilot study carried out at NTPC, Dadri jointly by NTPC and CISF.

As desired, we are enclosing the copy of the said presentation for your kind reference and further deliberation at your end.

I am sure this initiative would be carried forward under your guidance and active cooperation. We hope to hear from you soon in this regard for further course of action in this regard.

Thanking you

Sincerely yours

AN Verma
Executive Director (HR)

Ref
Anurag
12/09/18

Encl : As above

पंजीकृत कार्यालय : एनटीपीसी भवन, स्कोप कॉम्प्लेक्स, 7, इंस्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110003
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Corporate Identification Number : L40101DL1975GO1007966 Tel. : 011-24387333 Fax : 011-24361018 E-mail : ntpccc@ntpc.co.in
Website : www.ntpc.co.in

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