

Petition No.....



A Maharatna Company

SINGRAULI SUPER THERMAL POWER STATION

(5X200 MW+2X500 MW)

**PETITION FOR APPROVAL OF TARIFF FOR
THE PERIOD 01.04.2019 TO 31.03.2024**

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.....

IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of **Singrauli Super Thermal Power Station (2000 MW) for the period from 01.04.2019 to 31.03.2024.**

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BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

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AND
IN THE MATTER OF

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

Respondents:

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

- 2 Rajasthan Urja Vika Nigam Limited (RUVNL)
(on behalf of DISCOMs of Rajasthan),
Vidyut Bhawan, Janpath,
Jaipur 302 005

- 3 Tata Power Delhi Distribution Ltd.
Grid Substation, Hudson Road
Kingsway Camp
Delhi-110009.



- 4 BSES Rajdhani Power Ltd.,
2nd floor, B-Block
BSES Bhawan, Nehru Place
New Delhi-110019.
- 5 BSES Yamuna Power Ltd.,
Shakti Kiran Building
Karkardooma
Delhi-110092
- 6 Haryana Power Purchase Centre (HPPC)
Shakti Bhawan, Sector – VI,
Panchkula
Haryana – 134 109
- 7 Punjab State Power Corporation Ltd. (PSPCL)
The Mall
Patiala – 147 001
- 8 Himachal Pradesh State Electricity Board Ltd.
(HPSEB)
Kumar Housing Complex Building-II
Vidyut Bhawan
Shimla – 171 004
- 9 Power Development Department (J&K)
Govt. of J&K, Secretariat
Srinagar
- 10 Electricity Department (Chandigarh)
Union Territory of Chandigarh
Addl. Office Building
Sector-9 D, Chandigarh
- 11 Uttarakhand Power Corporation Ltd. (UPCL)
Urja Bhawan, Kanwali Road
Dehradun – 248 001
Uttarakhand.

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. Singrauli Super Thermal Power Station (2000 MW) (hereinafter referred to as Singrauli STPS) is one such station located in the State of Uttar Pradesh (UP). The power generated from Singrauli STPS 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 Singrauli STPS for the period from 01.04.2019 to 31.03.2024 as per the Tariff Regulations 2019.

- 6) The tariff of the Singrauli STPS for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 28.07.2016 in Petition No. 290/GT/2014 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014. The petitioner vide affidavit dated 03.01.2020 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 28.07.2016 in Petition no 290/GT/2014 has allowed a capital cost of Rs 1247.4699 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. 1229.8092 Cr based on the actual expenditure after truing up exercise for the period 2014-19. Accordingly, the Petitioner has adjusted an amount of Rs. (17.6607) Cr from the admitted capital cost as on 31.03.2019 and accordingly the opening capital cost as on 01.04.2019 has been considered as Rs 1229.8092 Cr. in the instant petition. The Hon'ble Commission may be pleased to accordingly adopt this adjustment in the admitted capital cost as on 31.3.2019 and determine the tariff in the present petition for the period 2019-24.
- 8) The capital cost claimed in the instant petition is based on the opening capital cost as on 01.04.2019 considered as above and projected estimated capital expenditures for the period 2019-24 under Regulation 19 and Regulation 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 2019-20 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
Type of cooling water system	Once Through Cooling
Consumption of Water	74.38 Cusec
Rate of Water charges	295.543
Total Water Charges	868.61 Lacs

- 10) Similarly, the Petitioner is claiming the security expenses based on the estimated expenses for the period 2019-24, the same shall be subject to retrospective adjustment based on actuals at the time of truing up. In respect of capital spares consumption, it is submitted that the same shall be claimed at the time of true-up in terms of the proviso to the Regulation 35 (1)(6) based on actual consumption of spares during the period 2019-24.
- 11) The present petition is filed on the basis of norms specified in the Tariff Regulations 2019. It is submitted that the petitioner is in the process of installing the Emission Control Systems (ECS) in compliance of the Revised Emission Standards as notified by MOEF vide notification dated 07.12.2015 as amended. Completion of these schemes in compliance of revised emission norms will affect the station APC, Heat Rate, O&M expenses etc. In addition the availability of the unit/ station would be also effected due to shutdown of the units for installation of ECS. The petitioner would be filing the details of the same in a separate petition in terms of the Regulation 29 of Tariff Regulations 2019. The tariff of the instant petition would undergo changes consequent to the Order of the Hon'ble Commission in the said ECS petition.

- 12) It is submitted that a notification dated 25.01.2016 has been issued by Government of India, Ministry of Environment, Forest & Climate Change (MOEFCC) under the statutory provisions of Environment (Protection) Act 1986. The said notification of MOEFCC prescribed bearing of the transportation cost of Fly Ash generated at power. 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 the Petitioner has already paid the requisite filing fee vide UTR No. CMS1106438370 on 22.04.2019 for the year 2019-20 and the details of the same have been duly furnished to the Hon'ble Commission vide our letter dtd. 25.04.2019. For the subsequent years, it shall be paid as per the provisions of the CERC (Payment of Fees) Regulations, 2012 as amended. Further Regulation 70 (1) of Tariff Regulations 2019 provides that the application fee and publication expenses may be allowed to be recovered directly from the beneficiaries at the discretion of the Hon'ble Commission. Accordingly, it is prayed that Hon'ble Commission may be pleased to allow recover filing fee and publication fee directly from the beneficiaries.
- 14) The petitioner has accordingly calculated the tariff for 2019-24 period based on the above and the same is enclosed as **Appendix-I** to this petition.
- 15) It is submitted the Petitioner has served the copy of the Petition on to the Respondents mentioned herein above and has posted the Petition on the company website i.e. www.ntpc.co.in
- 16) It is submitted that the petitioner is filing this tariff petition subject to the outcome of its various appeals/ petitions pending before different courts. Besides, the petitions filed by NTPC for determination of capital base as on 31.3.2014 through true-up exercise are pending before the Hon'ble Commission and would take some time. The Petitioner, therefore, reserves its right to amend the tariff petition as per the outcome in such appeals/ petitions, if required.



Prayers

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

- i) Approve tariff of Singrauli STPS for the tariff period 01.04.2019 to 31.03.2024.
- ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.
- iii) Allow reimbursement of Ash Transportation Charges directly from the beneficiaries quarterly on net basis.
- iv) Pass any other order as it may deem fit in the circumstances mentioned above.


(Petitioner)

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION

NEW DELHI

PETITION NO:

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

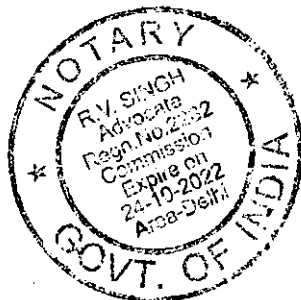
AND

IN THE MATTER OF

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

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

.....
and Others



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Signature

AFFIDAVIT

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

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

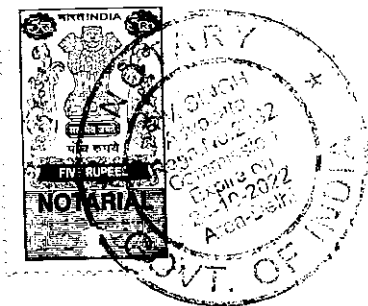
2. The statement made in the accompanying Petition for approval of tariff of **Singrauli Super Thermal Power Station (2000 MW)** for the period from 01.04.2014 to 31.03.2019 are based on the official records maintained during the ordinary course of business and believed by the deponent to be true.

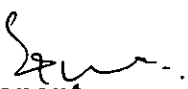

Deponent

Verification

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

Verified at New Delhi on this 24th January.2020




Deponent

Solemnly affirmed before me and
over & explained to me.

Notary Public, DELHI

24 JAN 2020

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TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF

FOR

Singrauli STPS

(From 01.04.2019 to 31.03.2024)

PART-I

ANNEXURE-I

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

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

Provided yearwise for the period 2019-24

PART-I

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

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

** Additional Forms

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

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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. 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. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	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.	***
9	Any other relevant information, (Please specify)	NA
10	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	***
11	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify the formats suitably as per available information to them for submission of required information for tariff purpose.	NA

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

S. Anand

Summary of Tariff

Name of the Petitioner:		NTPC Limited								
Name of the Generating Station:		Singrauli STPS								
Place (Region/District/State):		Northern Region/ Sonbhadra/ Uttar Pradesh								
S. No.	Particulars	Unit	Amount in Rs. Lakhs						2023-24	
			Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7	8	9		
1.1	Depreciation	Rs Lakh	55.64	64.46	193.98	336.23	376.99	397.37		
1.2	Interest on Loan	Rs Lakh	865.69	884.98	1,017.65	1,153.44	1,170.15	1,161.49		
1.3	Return on Equity	Rs Lakh	11,821.51	6,937.65	7,075.87	7,227.67	7,271.17	7,292.91		
1.4	Interest on Working Capital	Rs Lakh	10,482.62	8,674.31	8,800.66	8,929.44	9,054.56	9,191.02		
1.5	O&M Expenses	Rs Lakh	59,516.77	60423.61	62782.61	65241.61	67726.61	70529.61		
1.6	Special Allowance (If applicable)	Rs Lakh	17,543.23	19000.00	19000.00	19000.00	19000.00	19000.00		
	Total	Rs Lakh	100285.45	95985.02	98870.77	101888.38	104599.47	107572.40		
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid)	Rs/Ton				2000.14				
	(%) of Fuel Quantity	(%)								
2.2	Landed Fuel Cost Imported Coal									
	(%) of Fuel Quantity									
2.3	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	Rs/Ton								
	(%) of Fuel Quantity	(%)								
2.4	Landed Fuel Cost Imported Coal other than FSA.									
	(%) of Fuel Quantity									
2.5	Secondary fuel oil cost	Rs/Unit					0.023			
	Energy Charge Rate ex-bus (Paise/kWh) 2A, 2B, 2C, 2D	Rs/Unit					1.404			

S. W. S. (Petitioner)

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Singrauli STPS

Amount in Rs. Lakhs

Statement showing claimed capital cost – (A+B)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	1,22,980.92	1,23,270.92	1,27,886.92	1,28,658.92	1,29,430.92
2	Add: Addition during the year/period	290.00	4,616.00	772.00	772.00	-
3	Less: De-capitalisation during the year/period	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-
5	Add: Discharges during the year/ period	-	-	-	-	-
6	Closing Capital Cost	1,23,270.92	1,27,886.92	1,28,658.92	1,29,430.92	1,29,430.92
7	Average Capital Cost	1,23,125.92	1,25,578.92	1,28,272.92	1,29,044.92	1,29,430.92

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	122980.92	123270.92	127886.92	128658.92	129430.92
2	Add: Addition during the year / period	290.00	4616.00	772.00	772.00	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	123270.92	127886.92	128658.92	129430.92	129430.92
7	Average Capital Cost	123125.92	125578.92	128272.92	129044.92	129430.92

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: Singrauli STPS

Statement showing Return on Equity at Normal Rate

Amount in Rs. Lakhs

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Return on Equity					
1	Gross Opening Equity (Normal)	59,683.92	59,770.92	61,155.72	61,387.32	61618.92349
2	Less: Adjustment in Opening Equity	22,789.65				
3	Adjustment during the year		22789.65	22789.65	22789.65	22789.65
4	Net Opening Equity (Normal)	36,894.28	36,981.28	38,366.08	38,597.68	38,829.28
5	Add: Increase in equity due to addition during the year / period	87.00	1384.80	231.60	231.60	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)	36,981.28	38,366.08	38,597.68	38,829.28	38,829.28
11	Average Equity (Normal)	36,937.78	37,673.68	38,481.88	38,713.48	38,829.28
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	6,937.65	7,075.87	7,227.67	7,271.17	7,292.91


(Petitioner)

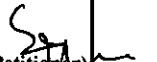
Name of the Petitioner: NTPC Limited

Name of the Generating Station: Singrauli STPS

Statement showing Return on Equity at Weighted Average Rate of Interest

Amount in Rs. Lakhs

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)						
1	Gross Opening Equity (Normal)	0.00	0.00	0.00	0.00	0.00
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	0.00	0.00	0.00	0.00	0.00
5	Add: Increase in equity due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	0.00	0.00	0.00	0.00	0.00
11	Average Equity (Normal)	0.00	0.00	0.00	0.00	0.00
12	Rate of ROE (%)	10.056	10.065	10.075	10.088	10.097
13	Total ROE	0.00	0.00	0.00	0.00	0.00


(Petitioner)

Plant Characteristics

Name of the Petitioner	NTPC Ltd.						
Name of the Generating Station	Singrauli STPS						
Unit(s)/Block(s)/Parameters	Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII
Installed Capacity (MW)	200	200	200	200	200	500	500
Schedule COD as per Investment Approval	NA						
Actual COD /Date of Taken Over (as applicable)	1-Jun-82	1-Feb-83	1-Jul-83	1-Jan-84	1-Jun-84	1-Jul-87	1-May-88
Pit Head or Non Pit Head	Pit Head						
Name of the Boiler Manufacture	BHEL						
Name of Turbine Generator Manufacture	BHEL						
Main Steams Pressure at Turbine inlet (kg/Cm ²) abs ¹ .							
Main Steam Temperature at Turbine inlet (°C) ¹							
Reheat Steam Pressure at Turbine inlet (kg/Cm ²) ¹							
Reheat Steam Temperature at Turbine inlet (°C) ¹							
Main Steam flow at Turbine inlet under MCR condition (tons /hr) ²							
Main Steam flow at Turbine inlet under VWO condition (tons /hr) ²							
Unit Gross electrical output under MCR /Rated condition (MW) ²							
Unit Gross electrical output under VWO condition (MW) ²							
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) ³							
Conditions on which design turbine cycle heat rate guaranteed	Not Applicable						
% MCR							
% Makeup Water Consumption							
Design Capacity of Make up Water System							
Design Capacity of Inlet Cooling System							
Design Cooling Water Temperature (°C)							
Back Pressure							
Steam flow at super heater outlet under BMCR condition (tons/hr)							
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm ²)							
Steam Temperature at super heater outlet under BMCR condition (°C)							
Steam Temperature at Reheater outlet at BMCR condition (°C)							
Design / Guaranteed Boiler Efficiency (%) ⁴							
Design Fuel with and without Blending of domestic/imported coal							
Type of Cooling Tower	Not Applicable						
Type of cooling system ⁵	Once Through Cooling						
Any other special features	Cooling Tower Under Implementation						
Type of Boiler Feed Pump ⁶	Electric Motor Driven					Steam Driven	
Fuel Details ⁷							
-Primary Fuel	Coal						
-Secondary Fuel	LDO						
-Alternate Fuels							
Special Features/Site Specific Features ⁸	Merry Go Round (MGR)						
Special Technological Features ⁹							
Environmental Regulation related features ¹⁰	Electrostatic Precipitators						
Any other special features	Liquid Waste Treatment Plant, FGD 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:	Singrauli STPS

(Year Ending March)

Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
Base Rate of Return on Equity \$\$	%	15.50	15.50	15.50	15.50	15.50	15.50
Base Rate of Return on Equity on Add. Capitalization** \$\$	%	-	8.299	8.306	8.315	8.325	8.333
Effective Tax Rate	%	21.5488	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	%	6.88	7.13	7.13	7.13	7.13	7.13
Gross Station Heat Rate	kCal/kWh	2412.50	2410.00	2410.00	2410.00	2410.00	2410.00
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	27.735	28.71	29.715	30.765	31.84
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	Lakh MT	8.4			8.4		
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

Calculation of O&M Expenses

Name of the Company :	NTPC Limited
Name of the Power Station :	Singrauli STPS

Amount in Rs. Lakhs

S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	7	8
1	O&M expenses under Reg.35(1)					
1a	Normative	55470.00	57420.00	59430.00	61530.00	63680.00
2	O&M expenses under Reg.35(6)					
2a	Water Charges	868.61	868.61	868.61	868.61	868.61
2b	Secutiry expenses	4085.00	4494.00	4943.00	5328.00	5981.00
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	60423.61	62782.61	65241.61	67726.61	70529.61

** Shall be provided at the time of truing up


Petitioner

Computation of Special Allowance

Name of the Company : NTPC Limited

Name of the Power Station : Singrauli STPS


Rate of Special allowance @lakh/MW/year 9.5

(Rs. Lakh)

Unit No.	Capacity (MW)	Date of COD	Year of completion of useful life of 25 yrs.	Special Allowance as per Clause 28					
				Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	200	1-Jun-82	2007-08	1,699	1,900	1,900	1,900	1,900	1,900
2	200	1-Feb-83	2007-08	1,699	1,900	1,900	1,900	1,900	1,900
3	200	1-Jul-83	2008-09	1,699	1,900	1,900	1,900	1,900	1,900
4	200	1-Jan-84	2008-09	1,699	1,900	1,900	1,900	1,900	1,900
5	200	1-Jun-84	2009-10	1,699	1,900	1,900	1,900	1,900	1,900
6	500	1-Jul-87	2012-13	4,249	4,750	4,750	4,750	4,750	4,750
7	500	1-May-88	2013-14	4,797	4,750	4,750	4,750	4,750	4,750
Year wise Total for the Station				17,543	19,000	19,000	19,000	19,000	19,000


Petitioner

Abstract of Admitted Capital Cost for the existing Projects

Name of the Company :	NTPC Limited		
Name of the Power Station :	Singrauli STPS		
Last date of order of Commission for the project	Date (DD-MM-YYYY)	28-07-2016	
Reference of petition no. in which the above order was passed	Petition no.	290/GT/2014	
Following details (whether admitted and /or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission:			
Capital cost*	(Rs. in lakh)	1,24,746.99	
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)		340.63	
Gross Normative Debt		64,533.25	
Cumulative Repayment		54,591.60	
Net Normative Debt		9,941.64	
Normative Equity		60,213.74	
Cumulative Depreciation		1,12,071.65	
Freehold land		1,081.00	
*As on 31.03.2019			
 (Petitioner)			

Abstract of Claimed Capital Cost for the existing Projects

Name of the Company :	NTPC Limited	
Name of the Power Station :	Singrauli STPS	
Reference of Final True-up Tariff Petition	Affidavit dated	03-Jan-20
Capital Cost as on 31.03.2019 as per Hon'ble Commission's Order dated 28-07-2016 In Pet. No. 290-GT-2014	Rs. Lakhs	1,24,746.99
Adjustment as per Para (7) of this petition		-1766.07
Following details as considered by the Petitioner as on the last date of the period for which final true-up tariff is claimed:		
Capital cost as on 01.04.2019	(Rs. in lakh)*	122980.92
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)		254.99
Gross Normative Debt		63,297.00
Cumulative Repayment		52,702.40
Net Normative Debt		10,594.60
Normative Equity		59,683.92
*Adjustment in Equity (D/E ratio 70:30)		22,789.65
*Net Normative Equity		36,894.28
Cumulative Depreciation		109629.05
Freehold land		1,081.00

*Additional


 (Petitioner)

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

BP NO 5050000641 TRANCHE NO
T00001 D0001

Unsecured Loan From HDFC Bank Ltd. VI		
Source of Loan :	HDFC Bank Ltd. VI	
Currency :	INR	
Amount of Loan :	15,00,00,00,000	
Total Drawn amount :	2,70,00,00,000	
Date of drawl	26.09.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	26.09.2018	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	26.09.2025	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	NORTH KARANPURA	70,00,00,000
	SINGRAULI	1,00,00,00,000
	RAMAGUNDAM	1,00,00,00,000
Total Allocated Amount		2,70,00,00,000

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

TRANCHE NO
BP NO 5050000571 T00001 D00003

Unsecured Loan From Punjab National Bank-III		
Source of Loan :	Punjab National Bank-III	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawl	13.08.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.30%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	13.08.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	01.02.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	30,00,00,000.00
	SOLAPUR	20,00,00,000.00
	TANDA-II	20,00,00,000.00
	TALLAIPALLI	50,00,00,000.00
	SINGRAULI R&M	80,00,00,000.00
	FARAKKA R&M	80,00,00,000.00
	RIHAND R&M	50,00,00,000.00
	DADRI GAS R&M	40,00,00,000.00
	KORBA R&M	40,00,00,000.00
	RAMAGUNDAM R&M	40,00,00,000.00
	VINDHAYACHAL R&M	30,00,00,000.00
	UNCHAHAAR R&M	20,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

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Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000571

T00001

D00004

Unsecured Loan From Punjab National Bank-III		
Source of Loan :	Punjab National Bank-III	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawl	21.08.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.30%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	21.08.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	01.02.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	SINGRAULI R&M	1,00,00,00,000.00
	KORBA R&M	1,00,00,00,000.00
	RAMAGUNDAM R&M	1,00,00,00,000.00
	VINDHYACHAL R&M	1,00,00,00,000.00
	TANDA R&M	1,00,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

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

BP NO 5050000382 **TRANCHE NO** **T00001** **D0005**

Unsecured Loan From SBBJ-II		
Source of Loan :	SBBJ-II	
Currency :	INR	
Amount of Loan :	5,00,00,00,000	
Total Drawn amount :	2,00,00,00,000	
Date of Drawal:	29.06.2018	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	5 Years	
Moratorium effective from :	29.06.2018	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	10 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	14.03.2020	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	SINGRAULI R&M	1,00,00,00,000
	Tanda R&M	1,00,00,00,000
Total Allocated Amount		2,00,00,00,000.00

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

TRANCHE NO

BP NO 5050000442

T00001

D0001

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	5,00,00,00,00,000	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D0001-3-8.25%	
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 :	6 Years	
Moratorium effective from :	21.01.2015	
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	1,00,00,00,000
	FARAKKA R&M	25,00,00,000
	TSTPP R&M	40,00,00,000
	SINGRAULI R&M	40,00,00,000
	RAMAGUNDAM R&M	50,00,00,000
	KAWAS R&M	60,00,00,000
	KORBA R&M	60,00,00,000
	GANDHAR R&M	1,25,00,00,000
Total Allocated Amount		5,00,00,00,000.00

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000661

T00001

D00005

Unsecured Loan From SBI-XI		
Source of Loan :	SBI-XI	
Currency :	INR	
Amount of Loan :	50,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawal:	11.12.2018	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.35%	
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 :	11.12.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	01.10.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	6,00,00,000
	TAPOVAN VISHNUGARH	7,00,00,000
	SOLAPUR	12,00,00,000
	LARA-I	40,00,00,000
	GADARWARA	75,00,00,000
	NORTH KARANPURA	10,00,00,000
	DARLIPALLI	60,00,00,000
	TANDA-II	30,00,00,000
	KHARGONE	1,00,00,00,000
	TELANGANA	1,20,00,00,000
	SINGRAULI R&M	20,00,00,000
	RAMAGUNDAM R&M	20,00,00,000
Total Allocated Amount		5,00,00,00,000.00

S...

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited			
Name of the Generating Station	Singrauli STPS			
COD	01-05-1988			
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	Dry Ash Extraction System (DAES)		4,572.00					Please refer respective financial Year for Justification
2	Ash Utilisation Infrastructure (Weight bridge, Ash brick machines etc)	30.00	44.00					Please refer respective financial Year for Justification
3	Biomass Gassifier	163.00						Please refer respective financial Year for Justification
4	Package of ClO ₂ Plants			772.00	772.00			Please refer respective financial Year for Justification
5	AAQMS	97.00						Please refer respective financial Year for Justification
	Total (A)	290.00	4,616.00	772.00	772.00	772.00		
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)	290.00	4,616.00	772.00	772.00	772.00		

NA

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited		Singrauli STPS		2019-20		Amount in Rs Lakh Admitted Cost by the Commission, if any
Name of the Generating Station COD		01-05-1988		2019-20				
For Financial Year								
Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	ACE Claimed (Projected)	Un-discharged Liability included in col. 3	Cash basis included in col. 3	IDC included in col. 3	Regulations under which claimed	Justification
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 Utilisation Infrastructure (Weight bridge, Ash brick machines etc)	30.00			30.00		26(i)(b)	It is submitted that 100% Ash utilization has been made mandatory by MOEF &CC vide its notification dtd 25.01.2016 and subsequent NGT Order dtd 20.11.2018. (Attached as Annexure-A) For compliance of MOEF Gazette Notification and NGT order, and to avoid imposition of penalty for "damages for environment restoration" as prescribed in the said Order, NTPC Singrauli is incurring this expenditure for achieving 100% Ash utilisation target in Singrauli. In view of this, Hon'ble Commission may be pleased to allow the same under Reg. 26(i)(b) of Tariff Regulations 2019.
2	Biomass Gassifier	163.00			163.00		26(i)(b)	Biomass gasification is a process of converting solid biomass fuel into a gaseous combustible gas (called producer gas) through a sequence of thermo-chemical reactions. Govt. is promoting setting up of biomass gassifiers with focus on Sustainable development Waste Management, Climate change & Environment Protection. The Project was awarded under policy framework of the Government of India to meet captive electrical and thermal needs which in turn help in replacing / saving of conventional fuels such as coal, diesel, furnace oil etc. Hon'ble Commission may be pleased to allow the the expenditure under Reg. 26(i)(b) of 2019 Tariff Regulations.
3	AAQMS	97.00			97.00		26(i)(b)	It is submitted that continuous monitoring of Ambient Air quality has been made mandatory by Central Pollution Control Board vide its direction dtd 05.02.2014 and subsequent Orders for the units including thermal power plant. Copy of CPCB direction dtd 05.02.2014 is attached as Annexure-B. The capitalization towards Ambient Air Quality Monitoring System around Power Plants is for compliance of CPCB order dtd 05.02.2014 and the same is admissible under Regulation 26 (i) (b) of Tariff Regulations, 2019 i.e. compliance of existing law. The Hon'ble Commission may be pleased to allow capitalization under Regulation 26(i)(b). Continuous monitoring of Ambient Air Quality and online transmission of Data is a statutory requirement to comply with the directions issued by Central Pollution Control Board under Section 18(i)(b) of the Air (Prevention & Control of Pollution) Act, 1981. Copy of CPCB direction dtd 05.02.2014 is attached. Hon'ble Commission may be pleased to allow the capitalization of the same under Regulation 26(i)(b) of 2019 Tariff Regulations.
Total (A)		290.00			290.00			
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)		290.00			290.00			
								NA

SA
(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited		
Name of the Generating Station	Singrauli STPS		
COD	01-05-1988		
For Financial Year	2020-21		

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5-(3-4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1	Dry Ash Extraction System (DAES)	4,572.00		4,572.00		26(1)(b)	It is submitted that 100% Ash utilization has been made mandatory by MOEF &CC vide its notification dtd. 25.01.2016 and subsequent NGT Order dtd 20.11.2018.(Attached as Annexure-A) For compliance of MOEF Gazette Notification and NGT order, and to avoid imposition of penalty for "damages for environment restoration" as prescribed in the said Order, NTPC singrauli is incurring this expenditure for achieving 100% Ash utilisation target in Singrauli. In view of this, Hon'ble Commission may be pleased to allow the same under Reg. 26(1)(b) of Tariff Regulations 2019.	
2	Ash Utilisation Infrastructure (Weight bridge, Ash brick machines etc)	44.00		44.00		26(1)(b)		
	Total (A)	4,616.00		4,616.00				
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
3						NA		
	Total (B)							
	Total Add. Cap. Claimed (A+B)	4,616.00		4,616.00				

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner: NTPC Limited
 Name of the Generating Station: Singrauli STPS
 COD: 01-05-1988
 For Financial Year: 2021-22

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
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	Package of ClO2 Plants	772.00		772.00		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/ tonners. Chlorine gas is very hazardous and may prove fatal in case of leakage; handling and storage of same involves risk to the life of public at large. In the interest of public safety the chlorine dozing system is now being replaced by Chlorine Dioxide (ClO2) system, which is much safer and less hazardous than chlorine. In the proposed scheme ClO2 shall be produced on site by use of commercial grade HCl and sodium chlorite. As ClO2 is generated at site, avoids handling and storage risk. Further, at Kudgi NTPC project Department of Factories, Boiler, Industrial Safety and Health, Govt of Karnataka has directed NTPC to replace highly hazardous gas chlorination system with ClO2 system. SPCB, Odisha while issuing consent to establish in case of Daripalli Station has asked NTPC to explore the possibility of installing ClO2 system instead of Chlorine gas system (Relevant documents is attached at Annexure-C). For safety of public NTPC is replacing the chlorination system with ClO2 system in Singrauli. Accordingly, Hon'ble Commission may be pleased to allow the same under Reg. 26(1)(b), 26(1)(d) of 2019 Tariff Regulations	9
Total (A)		772.00		772.00				
B. Works beyond Original scope excluding add-on due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
Total (B)								
Total Add. Cap. Claimed (A+B)		772.00		772.00				

NA

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited		
Name of the Generating Station	Singrauli STPS		
COD	01-05-1988		
For Financial Year	2022-23		

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP in col. 3	Un-discharged Liability included in col. 3	Cash basis in col. 3	IDC included in col. 3			
1	2	3	4	5= (3-4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1	Package of ClO2 Plants	772.00		772.00		26(1)(b),26(1)(d)	Same as FY 2021-22	
Total (A)		772.00		772.00				

B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
2						NA		
Total (B)		-		-				
Total Add. Cap. Claimed (A+B)		772.00		772.00				

S.H. ...
(Petitioner)

**PART-I
FORM- 10**

Name of the Petitioner	NTPC Limited										
Name of the Generating Station	Singrauli STPS										
Date of Commercial Operation	01-05-1988										

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

Amount capitalised in Work/ Equipment

Financing Details	Add cap is proposed to be finance in Debt:Equity ratio of 70:30										
Loan-1											
Loan-2											
Loan-3 and so on											
Total Loan2											
Equity											
Internal Resources											
Others (Pl. specify)											
Total											

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(Petitioner)

Statement of Depreciation

Name of the Company :

NTPC Limited

Name of the Power Station :

Singrauli STPS

S. No.	Particulars	(Amount in Rs Lakh)					
		Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Opening Capital Cost	123964.77	1,22,980.92	1,23,270.92	1,27,886.92	1,28,658.92	1,29,430.92
2	Closing Capital Cost	122980.92	1,23,270.92	1,27,886.92	1,28,658.92	1,29,430.92	1,29,430.92
3	Average Capital Cost	123472.85	1,23,125.92	1,25,578.92	1,28,272.92	1,29,044.92	1,29,430.92
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	1,081.00	1,081.00	1,081.00	1,081.00	1,081.00	1,081.00
5	Remaining depreciable value	-	-	-	-	-	-
6	Effective Addition of new assets during the year / period	1053.810	1,220.91	3,673.91	6,367.91	7,139.91	7,525.91
7	Depreciable Value due to additions @ 90%	948.429	1098.819	3306.519	5731.119	6425.919	6773.319
8	Rate of depreciation on additions	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%
9	Balance useful life at the beginning of the period	-	-	-	-	-	-
9	Depreciation new Assets(for the period)	55.64	64.46	193.98	336.23	376.99	397.37
10	Depreciation New Assets (annualised)	55.64	64.46	193.98	336.23	376.99	397.37
11	Cumulative depreciation at the end of the period (existing assets)	1,10,400.77	1,09,475.54	1,09,475.54	1,09,475.54	1,09,475.54	1,09,475.54
12	Cumulative depreciation at the end of the period (Additions)	153.51	217.98	411.96	748.18	1,125.17	1,522.54
13	Cumulative depreciation at the end of the period (existing assets+Additions)	1,10,554.28	1,09,693.52	1,09,887.50	1,10,223.72	1,10,600.71	1,10,998.08
14	Add: Cumulative depreciation reduction on account of discharges out of un-discharged liabilities deducted as on 1.4.2009	-	-	-	-	-	-
15	Add: Cumulative depreciation adjustment on account of liab. disc.	9.00	-	-	-	-	-
16	Less: Cumulative depreciation adjustment on account of de-capitalisation	934.23	-	-	-	-	-
17	Net Cumulative depreciation at the end of the period after adj.	1,09,629.05	1,09,693.52	1,09,887.50	1,10,223.72	1,10,600.71	1,10,998.08

Note: Form-12 has been slightly modified due to different depreciation on existing & new assets.
* Shall be submitted at the time of Truing up.

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(Petitioner)

Name of the Company		NTPC Ltd				Form 13
Name of the Station		Singrauli STPS				
S No	Loan	2019-20	2020-2021	2021-22	2022-23	2023-24
1	SBI VII D-7					
	Net Loan Opening	1250.00	937.50	625.00	312.50	0.00
	Additions					
	Repayment	312.50	312.50	312.50	312.50	0.00
	Net Loan Closing	937.50	625.00	312.50	0.00	0.00
	Avg Loan	1093.75	781.25	468.75	156.25	0.00
	Rate of Interest	8.0213%	8.0213%	8.0213%	8.0213%	8.0213%
	Interest	87.73	62.67	37.60	12.53	0.00
2	SBI VII D-8					
	Net Loan Opening	500.00	375.00	250.00	125.00	0.00
	Additions					
	Repayment	125.00	125.00	125.00	125.00	0.00
	Net Loan Closing	375.00	250.00	125.00	0.00	0.00
	Avg Loan	437.50	312.50	187.50	62.50	0.00
	Rate of Interest	8.0213%	8.0213%	8.0213%	8.0213%	8.0213%
	Interest	35.09	25.07	15.04	5.01	0.00
3	SBI VII D-14					
	Net Loan Opening	750.00	562.50	375.00	187.50	0.00
	Additions					
	Repayment	187.50	187.50	187.50	187.50	0.00
	Net Loan Closing	562.50	375.00	187.50	0.00	0.00
	Avg Loan	656.25	468.75	281.25	93.75	0.00
	Rate of Interest	8.0213%	8.0213%	8.0213%	8.0213%	8.0213%
	Interest	52.64	37.60	22.56	7.52	0.00
4	SBI VII D-16					
	Net Loan Opening	1500.00	1125.00	750.00	375.00	0.00
	Additions					
	Repayment	375.00	375.00	375.00	375.00	0.00
	Net Loan Closing	1125.00	750.00	375.00	0.00	0.00
	Avg Loan	1312.50	937.50	562.50	187.50	0.00
	Rate of Interest	8.0213%	8.0213%	8.0213%	8.0213%	8.0213%
	Interest	105.28	75.20	45.12	15.04	0.00
5	HDFC Bank Ltd. VI					
	Net Loan Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Additions	0.00	0.00	0.00	0.00	0.00
	Repayment	0.00	0.00	0.00	0.00	0.00
	Net Loan Closing	10000.00	10000.00	10000.00	10000.00	10000.00
	Avg Loan	10000.00	10000.00	10000.00	10000.00	10000.00
	Rate of Interest	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest	845.00	845.00	845.00	845.00	845.00

S.T.V.

Name of the Company		NTPC Ltd				Form 13
Name of the Station		Singrauli STPS				
S No	Loan	2019-20	2020-2021	2021-22	2022-23	2023-24
6	Punjab National Bank-III -D3					
	Net Loan Opening	8000.00	8000.00	8000.00	7111.11	6222.22
	Additions	0.00	0.00	0.00	0.00	0.00
	Repayment	0.00	0.00	888.89	888.89	888.89
	Net Loan Closing	8000.00	8000.00	7111.11	6222.22	5333.33
	Avg Loan	8000.00	8000.00	7555.56	6666.67	5777.78
	Rate of Interest	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest	664.00	664.00	627.11	553.33	479.56
7	Punjab National Bank-III -D4					
	Net Loan Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Additions	0.00	0.00	0.00	0.00	0.00
	Repayment	0.00	0.00	0.00	0.00	0.00
	Net Loan Closing	10000.00	10000.00	10000.00	10000.00	10000.00
	Avg Loan	10000.00	10000.00	10000.00	10000.00	10000.00
	Rate of Interest	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest	830.00	830.00	830.00	830.00	830.00
8	SBBJ-II -D5					
	Net Loan Opening	10000.00	9000.00	8000.00	7000.00	6000.00
	Additions	0.00	0.00	0.00	0.00	0.00
	Repayment	1000.00	1000.00	1000.00	1000.00	1000.00
	Net Loan Closing	9000.00	8000.00	7000.00	6000.00	5000.00
	Avg Loan	9500.00	8500.00	7500.00	6500.00	5500.00
	Rate of Interest	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest	783.75	701.25	618.75	536.25	453.75
9	SBI-VIII					
	Net Loan Opening	4000.00	4000.00	4000.00	3555.56	3111.11
	Additions	0.00	0.00	0.00	0.00	0.00
	Repayment	0.00	0.00	444.44	444.44	444.44
	Net Loan Closing	4000.00	4000.00	3555.56	3111.11	2666.67
	Avg Loan	4000.00	4000.00	3777.78	3333.33	2888.89
	Rate of Interest	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest	330.00	330.00	311.67	275.00	238.33
10	SBI-XI					
	Net Loan Opening	2000.00	2000.00	2000.00	2000.00	1777.78
	Additions	0.00	0.00	0.00	0.00	0.00
	Repayment	0.00	0.00	0.00	222.22	222.22
	Net Loan Closing	2000.00	2000.00	2000.00	1777.78	1555.56
	Avg Loan	2000.00	2000.00	2000.00	1888.89	1666.67
	Rate of Interest	8.3500%	8.3500%	8.3500%	8.3500%	8.3500%
	Interest	167.00	167.00	167.00	157.72	139.17
	TOTAL					
	Net Loan Opening	48000.00	46000.00	44000.00	40666.67	37111.11
	Additions	0.00	0.00	0.00	0.00	0.00
	Repayment	2000.00	2000.00	3333.33	3555.56	2555.56
	Net Loan Closing	46000.00	44000.00	40666.67	37111.11	34555.56
	Avg Loan	47000.00	45000.00	42333.33	38888.89	35833.33
	Rate of Interest	8.2989%	8.3062%	8.3146%	8.3248%	8.3325%
	Interest	3900.50	3737.78	3519.85	3237.41	2985.81
Note:-						
1) SBI VII Rate of interest includes upfront fees of 0.0075% (i.e. 0.08%*1.1236%/12years).						

Stw.

Details of Source wise Fuel for Computation of Energy Charges

Name of the Company: NTPC Limited
Name of the Power Station: Singrauli Super Thermal power Station Stage-I&II

S. No.	Month	Unit	Oct-18		Nov-18		Dec-18	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)	1,3516		1,4281		1,3812	
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)						
3	Coal supplied by Coal/Lignite Company (1+2)	(MMT)	1,3516		1,4281		1,3812	
4	Normative Transit & Handling Losses (For coal/Lignite based projects)	(MMT)	0,0024		0,0027		0,0018	
5	Net coal/Lignite Supplied (3-4)	(MMT)	1,3492		1,4254		1,3794	
6	Amount charged by the Coal/Lignite Company	(Rs.)	25,74,99,02,24		28,30,81,03,19		28,06,16,49,25	
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)						
8	Total amount Charged (6+7)	(Rs.)	25,74,99,02,24		28,30,81,03,19		28,06,16,49,25	
9	Transportation charges by rail/ship/road transport	(Rs.)	23,36,21,30		26,65,19,95		31,07,88,1	
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.)	80,79,22,2		91,85,57,4		62,10,14,7	
13	Total Transportation Charges (9+10+11+12)	(Rs.)	31,44,13,52		35,83,75,69		93,18,02,8	
13A	Others (stone picking charges, loco drivers salary, sampling charges etc)	(Rs.)	10,37,9,999		5,91,88,63		3,82,89,91	
14	Total amount Charged for coal/Lignite supplied including Transportation (8+13+13A)	(Rs.)	26,16,80,45,75		28,72,56,67,51		28,19,31,19,44	
15	Landed cost of coal/Lignite (14/5)	Rs./MT	19,39,51		20,15,27		20,43,81	
16	Blending Ratio (Domestic/Imported)		100,00		100,00		100,00	
17	Weighted average cost of coal/Lignite for preceding three months	Rs./MT		2000,14				
18	GCV of Domestic Coal as per bill of Coal Company (Eq Basis)	(KCal/Kg)	4476		4875		4750	
19	GCV of Imported Coal as per bill Coal Company	(KCal/Kg)	4476		4675		4750	
20	Weighted average GCV of coal/Lignite as Billed	(KCal/Kg)						
21	GCV of Domestic Coal as received at Station (TM basis)	(KCal/Kg)	3776		3799		3946	
22	GCV of Imported Coal of opening stock as received at Station	(KCal/Kg)						
23	Weighted average GCV of coal/Lignite as Received (TM basis)	(KCal/Kg)	3776		3799		3946	

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

(Petitioner)

Handwritten signatures and notes:
 21/01/2020
 G. Totam Kumar Bagaria
 MAN - 4255104
 FAN - 0001475C



Handwritten signature:
 21/01/2020

Details of Secondary Fuel for Computation of Energy Charges

Name of the Company :		NTPC Limited											
Name of the Power Station :		Singrauli STPS											
Sl.No.	Month	Unit	Oct-18		Nov-18		Dec-18						
			LDO	HFO	LDO	HFO	LDO	HFO	LDO	HFO			
1	Quantity of Oil supplied by Oil Company	KL	3,476.97	9.76	3,222.97	9.76	3,222.97	9.76	3,222.97	9.76			
2	Adjustment (+/-) in quantity supplied made by Oil Company	KL											
3	Oil supplied by Oil Company (1+2)	KL	3,476.97	9.76	3,222.97	9.76	3,222.97	9.76	3,222.97	9.76			
4	Normative Transit & Handling Losses	KL											
5	Net Oil Supplied (3-4)	KL											
6	Amount charged by the Oil Company	(Rs)											
7	Adjustment (+/-) in amount charged made by Oil Company	(Rs)											
8	Total amount charged (6+7)	(Rs)	15,78,52,672	2,92,012	14,63,21,191	2,92,012	14,63,21,191	2,92,012	14,63,21,191	2,92,012			
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)											
	Landed Price of Oil	(Rs)	45,399.53	29,931.55	45,399.53	29,931.55	45,399.53	29,931.55	45,399.49	29,931.55			
16	Weighted average GCV of Oil as fired	(kCal/L)		10,400		10,400		10,400		10,500			
17	Weighted average rate of Secondary Fuel	Rs/KL		45,399.53		45,399.53		45,399.53		45,399.53			

Note: In terms of the order of Hon'ble Supreme Court regarding ban on use of HFO, main secondary fuel at Singrauli is LDO w.e.f. 01.01.2019 and the same has been considered for calculation of Working Capital.

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PETITIONER

Computation of Energy Charges

Form-15B
ADDITIONAL FORM

Name of the Company	NTPC Limited
Name of the Power Station	Singrauli STPS

	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 %	7.13	7.13	7.13	7.13	7.13
Heat Rate Kcal/Kwh	2,410.00	2,410.00	2,410.00	2,410.00	2,410

Computation of Variable Charges

Variable Charge (Coal) p/kwh	137.915	137.915	137.915	137.915	137.915
Variable Charge (Oil) p/kwh	2.444	2.444	2.444	2.444	2.444
Total p/kwh	140.360	140.360	140.360	140.360	140.360

Price of fuel from Form-15/15A

Coal Cost (Rs./MT)	2000.14	2000.14	2000.14	2000.14	2000.14
Oil Cost (Rs./KL)	45399.53	45399.53	45399.53	45399.53	45399.53

Computation of Fuel Expenses for Calculation of IWC:

ESO in a year (MUs)	13868.09	13830.20	13830.20	13830.20	13868.09
ESO for 40 days (MUs)	1515.638	1515.638	1515.64	1515.64	1515.638
Cost of coal for 45 Days (Rs. Lakh)	20902.98	20902.98	20902.98	20902.98	20902.98
Cost of oil for 2 months (Rs. Lakh)	564.95	563.41	563.41	563.41	564.95
Energy Expenses for 45 days (Rs. Lakh)	23932.62	23932.62	23932.62	23932.62	23932.62

Coal	3rd month	2nd month	1st month	Wtd. Avg.
Wtd. Avg. Price of Coal Rs./MT	1939.51	2015.27	2034.28	2000.14
Wtd. Avg. GCV of Coal as received kCal/Kg	3776	3799	3946	3840.33
Wtd. Avg. GCV of Coal as received after adjustment of 85 kcal/kg				
Sec. Oil				3755.33
Wtd. Avg. Price of Secondary Fuel Rs/KL	45399.53	45399.53	45399.53	45399.53
Wtd. Avg. GCV of Secondary Fuel kCal/L	10400.00	10400.00	10500.00	10433.33

Computation of Energy Charges

- Rate of Energy Charge from Sec. Fuel Oil/ Alternate Fuel (p/kwh) = $(Q_p)_n \times P_s$ = 2.270
- Heat Contribution from SFO / Alternate Fuel $(H_p)_s$ = $(O_s)_n \times (GCV)_s$ = 5.217
- Heat Contribution from coal $(H_p)_c$ = $GHR - H_s$ = 2404.78
- Specific Primary Fuel Consumption $(Qp)_n$ = $H_p / (GCV)_p$ = 0.640
- Rate of Energy charge from Primary Fuel (p/kwh) $(REC)_p$ = 128.082
- Rate of Energy charge ex-bus (p/kWh) = $\frac{(REC)_s + (REC)_p}{(1 - (AUX))}$ = 140.360

Sgt
PETITIONER

Name of the Petitioner
Name of the Generating StationNTPC Ltd
Singrauli STPSStatement of Capital cost

(Rs lacs)

S. No.	Particulars	01.04.2019
A	a) Opening Gross Block Amount as per books	256341.13
	b) Amount of capital liabilities in A(a) above	4024.08
	c) Amount of IDC in A(a) above	1164.76
	d) Amount of FC in A(a) above	
	e) Amount of FERV in A(a) above	2051.77
	f) Amount of Hedging Cost in A(a) above	
	g) Amount of IEDC in A(a) above	
B	a) Addition in Gross Block Amount during the period (Direct purchases)	
	b) Amount of capital liabilities in B(a) above	
	c) Amount of IDC in B(a) above	
	d) Amount of FC in B(a) above	
	e) Amount of FERV in B(a) above	
	f) Amount of Hedging Cost in B(a) above	
	g) Amount of IEDC in B(a) above	
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	
	b) Amount of capital liabilities in C(a) above	
	c) Amount of IDC in C(a) above	
	d) Amount of FC in C(a) above	
	e) Amount of FERV in C(a) above	
	f) Amount of Hedging Cost in C(a) above	
	g) Amount of IEDC in C(a) above	
D	a) Deletion in Gross Block Amount during the period incl Liability Reversal	
	b) Amount of capital liabilities in D(a) above	
	c) Amount of IDC in D(a) above	
	d) Amount of FC in D(a) above	
	e) Amount of FERV in D(a) above	
	f) Amount of Hedging Cost in D(a) above	
	g) Amount of IEDC in D(a) above	
E	a) Closing Gross Block Amount as per books	
	b) Amount of capital liabilities in E(a) above	
	c) Amount of IDC in E(a) above	
	d) Amount of FC in E(a) above	
	e) Amount of FERV in E(a) above	
	f) Amount of Hedging Cost in E(a) above	
	g) Amount of IEDC in E(a) above	

(Petitioner)

Name of the Petitioner
Name of the Generating StationNTPC Ltd
Singrauli STPS**Statement of Capital Woks in Progress**

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	01.04.2019
A	a) Opening CWIP as per books	
	b) Amount of capital liabilities in A(a) above	49,544.37
	c) Amount of IDC in A(a) above	4,643.71
	d) Amount of FC in A(a) above	5,954.00
	e) Amount of FERV in A(a) above	-
	f) Amount of Hedging Cost in A(a) above	444.24
	g) Amount of IEDC in A(a) above	-
B	a) Addition in CWIP during the period	
	b) Amount of capital liabilities in B(a) above	
	c) Amount of IDC in B(a) above	
	d) Amount of FC in B(a) above	
	e) Amount of FERV in B(a) above	
	f) Amount of Hedging Cost in B(a) above	
	g) Amount of IEDC in B(a) above	
C	a) Transferred to Gross Block Amount during the period	
	b) Amount of capital liabilities in C(a) above	
	c) Amount of IDC in C(a) above	
	d) Amount of FC in C(a) above	
	e) Amount of FERV in C(a) above	
	f) Amount of Hedging Cost in C(a) above	
	g) Amount of IEDC in C(a) above	
D	a) Deletion in CWIP during the period	
	b) Amount of capital liabilities in D(a) above	
	c) Amount of IDC in D(a) above	
	d) Amount of FC in D(a) above	
	e) Amount of FERV in D(a) above	
	f) Amount of Hedging Cost in D(a) above	
	g) Amount of IEDC in D(a) above	
E	a) Closing CWIP as per books	
	b) Amount of capital liabilities in E(a) above	
	c) Amount of IDC in E(a) above	
	d) Amount of FC in E(a) above	
	e) Amount of FERV in E(a) above	
	f) Amount of Hedging Cost in E(a) above	
	g) Amount of IEDC in E(a) above	


 (Petitioner)

Calculation of Interest on Normative Loan

Name of the Company :	NTPC Limited							
Name of the Power Station :	Singrauli STPS							

S. No.	Particulars	Existing	2019-20	2020-21	2021-22	2022-23	2023-24
		2018-19	4	5	6	7	8
1	2	3					
1	Gross Normative loan – Opening	63,985.69	63,297.00	63,500.00	66,731.20	67,271.60	67,812.00
2	Cumulative repayment of Normative loan up to previous year	53,373.38	52,702.40	52,766.86	52,960.85	53,297.07	53,674.06
3	Net Normative loan – Opening	10,612.31	10,594.60	10,733.14	13,770.35	13,974.53	14,137.94
4	Add: Increase due to addition during the year / period	-688.69	203.00	3,231.20	540.40	540.40	-
5	Less: Decrease due to de-capitalisation during the year / period	726.62	-	-	-	-	-
6	Less: Decrease due to reversal during the year / period						
7	Add: Increase due to discharges during the year / period	-	-	-	-	-	-
8	Less: Repayment of Loan	55.64	64.46	193.98	336.23	376.99	397.37
9	Net Normative loan - Closing	10,594.60	10,733.14	13,770.35	13,974.53	14,137.94	13,740.57
10	Average Normative loan	10,603.46	10,663.87	12,251.75	13,872.44	14,056.24	13,939.26
11	Weighted average rate of interest	8.1642	8.2989	8.3062	8.3146	8.3248	8.3325
12	Interest on Loan	865.69	884.98	1017.65	1153.44	1170.15	1161.49

(Petitioner)

Calculation of Interest on Working Capital

Name of the Company :	NTPC Limited
Name of the Power Station :	Singrauli STPS

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	Cost of Coal/Lignite	19,472.52	20902.98	20902.98	20902.98	20902.98	20902.98	20902.98	
2	Cost of Main Secondary Fuel Oil	599.55	564.95	563.41	563.41	563.41	563.41	564.95	
3	Fuel Cost								
4	Liquid Fuel Stock								
5	O & M Expenses	4,959.73	5035.30	5231.88	5436.80	5643.88	5877.47		
6	Maintenance Spares	11,903.35	12084.72	12556.52	13048.32	13545.32	14105.92		
7	Receivables	40,713.88	33397.99	33779.70	34151.74	34485.98	34822.67		
8	Total Working Capital	77649.02	71985.95	73034.50	74103.25	75141.58	76274.00		
9	Rate of Interest	13.5000	12.0500	12.0500	12.0500	12.0500	12.0500		
10	Interest on Working Capital	10482.62	8674.31	8800.66	8929.44	9054.56	9191.02		

SANU
Petitioner

Name of The Station
Flow of Capital Liabilities

Singrauli STPS
As on 01.04.2019

Form-S

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 01.04.2019	Remarks
(1)	(2)	(3)	(4)	(5)	
1	ABB LTD	Renovation of DAS PKG.PH II	2007-08 & 2008-09	16,31,662	Allowed
2	ABB LTD	Renovation of DAS PKG.PH II	2008-09	2,72,354	Allowed
3	LUCKNOW COMPUTER SHACK PVT LTD	Supply of PCs	2002-03	63,200	Allowed
4	NORTHERN COALFIELDS LTD	LAND	2000-01	1,76,300	Allowed
5	KIRLOSHKAR AAF LTD	LWTP	2004-05	2,95,940	Allowed
6	KIRLOSHKAR AAF LTD	LWTP	2003-04	74,32,116	Allowed
7	HINDUSTAN STEELWORKS CONSTRUCTION	Ash pipe pedestal	2008-09	27,51,300	Not Allowed
8	HINDUSTAN STEELWORKS CONSTRUCTION	Ash pipe pedestal	2007-08 & 2008-09	16,52,914	Not Allowed
9	HINDUSTAN STEELWORKS CONSTRUCTION	ASH DYKE PACKAGE LAGOON-S1	2005-06	30,00,936	Not Allowed
10	HINDUSTAN STEELWORKS CONSTRUCTION	ASH DYKE PACKAGE LAGOON-S1	2004-05	8,60,000	Not Allowed
11	HINDUSTAN STEELWORKS CONSTRUCTION	ASH DYKE PACKAGE LAGOON-S1	2004-05	2,02,037	Not Allowed
12	LAL PUSHPRAJ CONSTRUCTION & CO	Constn.of Bal Ash Pedestal	2006-07	15,855	Not Allowed
13	LLOYD INSULATIONS INDIA LTD	SEC of New Fire water Line system	2010-11	4,41,000	Not Allowed
14	ABB LIMITED	R&M OF 6.6KV VACCUME BREAKER S-II	2011-12	41,851	Not Allowed
15	ABB LIMITED	Replacement OF MOCB WITH SF6/VCB S-I	2011-12	2,10,114	Not Allowed
16	BHARAT HEAVY ELECTRICALS LTD	Handling Structof Econo Coil bank	2012-13	1,62,410	Not Allowed
17	UP JAL NIGAM	Lease hold land	2013-14	1,33,70,126	Allowed
18	CCI ASIA PACIFIC PTE LTD	SULZER:ASM250-10;HP/LPBP	2014-15	17,973	Not Claimed
19	CLYDE UNION LIMITED	LAST STG IMP:#47,#AO102175 OFWEIR-FK8D32	2014-15	72,636	Not Claimed
20	FLUIDOMAT LTD	FC:FLUIDOMAT:STD/E/04:COMP ASSY	2014-15	33,370	Not Claimed
21	FLUIDOMAT LTD	FLUID COUPLING MODEL:T-12/07 FLUIDOMAT	2014-15	60,564	Not Claimed
22	ASHBOND ENGINEERS PVT LTD	BOROSCOPE:VIDEO ATTACH.& ELECTR.RECORDER	2014-15	3,000	Not Claimed
23	ALSTOM T&D INDIA LTD	NUMERICAL FEEDER PROTECTION RELAY 1A	2014-15	5,740	Not Claimed
24	MEHROTRA & MEHROTRA	REFRIGERATOR:BLOOD BANK-AS PER TECH SPEC	2014-15	15,000	Not Claimed
25	TIL LTD	Mobile Crane 30 MT Model RT630C,TIL make	2014-15	2,60,000	Not Claimed
26	BHARAT HEAVY ELECTRICALS LTD	TURBINE GENERATOR UNIT 6	2014-15	2,47,513	Not Claimed
27	S M ENGINEERING WORKS	GYM ITEM- HEAVY DUTY MOTORISED TREADMILL	2014-15	29,050	Not Claimed
28	Subhash Infra Engineers Pvt Ltd	Starter Ash Dyke(S-2 Lagoon)	2014-15	19,207	Not Allowed
29	Mcnally Bharat Engineering	Ash Water Recirculation System	2014-15	2,07,28,234	Not Allowed
30	BHARAT HEAVY ELECTRICALS LTD	Solar Main Plant & Machinery & Asso. Civil work	2014-15	4,69,16,669	Not Claimed
31	BHARAT HEAVY ELECTRICALS LTD	STEAM GENERATOR UNIT 6	2015-16	41,225	Not Claimed
32	BHARAT HEAVY ELECTRICALS LTD	Steam Turbine - Unit 7	2015-16	41,225	Not Claimed
33	BNA TECHNOLOGY CONSULTING LTD	CCTV based surveillance system- (File No.C&I /9403	2015-16	2,58,517	Claimed
34	KIRLOSKAR ELECTRIC CO LTD	COAL HANDLING SYSTEM UNIT 6	2015-16	96,328	Not Claimed
35	SWAN ENVIRONMENTAL PVT LTD	Effluent Quality monitoring System-CAP Add	2015-16	1,01,124	Claimed
36	INSTRUMENTATION LTD	Bumer tilt actuators-Boiler Stg II- Rev & Mod	2015-16	1,03,760	Not Claimed
37	BHARAT HEAVY ELECTRICALS LTD	BOLT,M36; NUT M36.ITEM NO 24 AND 25.	2015-16	3,128	Not Claimed
38	BHARAT HEAVY ELECTRICALS LTD	Boiler Pressure parts for Stage-2	2015-16	85,869	Not Claimed
39	BHARAT HEAVY ELECTRICALS LTD	ERV TYPE:7506, 2.5"X4" 1538VX	2015-16	40,324	Not Claimed
40	HITACHI LTD	LINE SHAFT(3PCS)#19:HITACHI CWP:SP-CV	2015-16	2	Not Claimed
41	BHARAT HEAVY ELECTRICALS LTD	CONTROLLER:220VDC:0.2A;ERV:1539X;2539VX	2015-16	1,013	Not Claimed
42	ALSTOM T&D INDIA LTD	420KV CAPACITOR VOLTAGE TRANS.4400PF WIT	2015-16	1,22,000	Not Claimed
43	BHARAT HEAVY ELECTRICALS LTD	SH SPRAY LINE NRV PART NO.S126	2015-16	10,000	Not Claimed
44	ABB INDIA LTD	NUMERICAL GENERATOR PROTECTION GR-2	2015-16	27,95,635	Not Claimed
45	K & K HEALTH CARE PVT LTD	GYM ITMES BARBELL WITH WEIGHTS- FITNESS WORLD MAKE	2015-16	10,910	Not Claimed
46	S M ENGINEERING WORKS	GYM ITEMS:TREADMILL-M	2015-16	26,950	Not Claimed
47	URMI ELECTRICALS & REFRIGERATION	AIR CONDITIONER 2 TON WINDOW	2015-16	18,600	Not Claimed
48	PRE-TECH	HITACHI MULTIMEDIA PROJECTOR MODEL CP-X3030WN	2015-16	10,134	Not Claimed
48	ANALYSER INSTRUMENT CO PVT LTD	Continuous Emission Monitoring System	2015-16	16,78,974	Claimed
49	BHARAT HEAVY ELECTRICALS LTD	Solar Main Plant & Machinery & Asso. Civil work	2016-17	8,70,762	Not Claimed
50	Advanced Systems Sampling Pvt Ltd	Auto Coal Sampling System CHP-stg2	2016-17	79,34,746	Not Claimed
51	THE INDORE PVT LTD	Ash Slurry Disposal Extension Pkg	2016-17	4,32,89,626	Not allowed
52	HONEYWELL AUTOMATION INDIA LTD	DDCMIS Stage II Unit 6	2016-17	88,27,492	Not Claimed

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Sum

Name of The Station
Flow of Capital LiabilitiesSingrauli STPS
As on 01.04.2019

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 01.04.2019	Remarks
(1)	(2)	(3)	(4)	(5)	
53	BHARAT HEAVY ELECTRICALS LTD	Solar Main Plant Building & Asso. Civil Work	2016-17	53,77,113	Not Claimed
54	ANALYSER INSTRUMENT CO PVT LTD	Continuous Emission Monitoring System	2016-17	67,492	Not Claimed
55	POWER ENGINEERS	SADC Actuators for Stage II (2 X 500 MW) 136 No	2016-17	1,92,000	Not Claimed
56	JOY MARKETING CO PVT LTD	SCREW COMPRESSOR ASSEMBLY (MODEL 255 G)	2016-17	50,000	Not Claimed
57	BHARAT HEAVY ELECTRICALS LTD	HP TOP CONTROL V/V NO:1	2016-17	14,137	Not Claimed
58	TECHNICAL SYSTEMS & SERVICES	WIRE ROPE ELECTRIC HOIST,CAP:2MT	2016-17	1,95,000	Not Claimed
59	KAILASH TRADING CORPORATION	WAVE TRAP 400KV,2000AMP	2016-17	1,43,227	Not Claimed
60	LONESTAR INDUSTRIES	COMPENSATOR DN 1100 003	2016-17	7,05,750	Not Claimed
61	TEREX EQUIPMENT PRIVATE LIMITED	SKID STEER LOADER FITTED WITH STD. BUCKET,CABIN	2016-17	1,19,600	Not Claimed
62	FRANCIS KLEIN & CO PVT LTD	RERAILING EQUIPMENT FOR MGR WORKSHOP	2016-17	20,300	Not Claimed
63	Mcnaally Bharat Engineering	Ash Water Recirculation System	2016-17	74,605	Not Allowed
64	TRANSFORMERS AND ELECTRICALS	GT, UAT and Station Transformer Pkg 2X500MW	2016-17	1,29,60,000	Not Claimed
65	TRANSFORMERS AND ELECTRICALS	Unit Aux Transformer(UAT) Stg-1 Unit-1	2017-18	70,50,479	Not Claimed
66	VANJAX SALES PVT LTD	AERIAL WORKING PLATFORM LIFT 8MTR/ 100KG-1 QTY	2017-18	29,425	Not Claimed
67	C&S ELECTRIC LTD	Supply, Erection, commissioning of DCDB at CHP	2017-18	1,05,665	Not Claimed
68	LOGICLADDER TECHNOLOGIES PVT LTD	REAL TIME DATA TRANSsolution from CEMS, EQMS	2017-18	40,680	Not Claimed
69	SCHENCK PROCESS SOLUTIONS	Supply, Erection & Comm of Gravimetric Feeder	2017-18	25,58,878	Not Claimed
70	RICE LAKE WEIGHING SYSTEMS	In motion weigh bridge- MGR	2017-18	2,83,054	Not Claimed
71	BHARAT HEAVY ELECTRICALS LTD	Solar Main Plant & Machinery & Asso. Civil work	2017-18	52,24,008	Not Claimed
72	BHARAT HEAVY ELECTRICALS LTD	Solar Main Plant Building & Asso. Civil Work	2017-18	2,88,188	Not Claimed
73	QUADRANT MARKETING	OXIDE SCALER:COMP ASSY	2017-18	35,064	Not Claimed
74	SARTECH INTL	BOMB CALORIMETER- COMPLETE ASSY.	2017-18	2,56,000	Not Claimed
75	CUBIC TRANSMISSIONS PVT LTD	CONCORD-GC-D2007C-COMP ASSY- 1 QTY	2017-18	7,908	Not Claimed
76	OMKAR ENTERPRISES	PORTABLE OIL FILTRATION M/C- 1 QTY	2017-18	45,000	Not Claimed
77	CEE DEE VACUUM EQUIPMENT PVT LTD	OIL FILTERING MACHINE OF CAPACITY 2100 L	2017-18	29,750	Not Claimed
78	WPIL LTD	LINE SHAFT:SS416#19-JHONSTON/WPIL-64TMC-4 NO QTY	2017-18	2,35,105	Not Claimed
79	BHARAT HEAVY ELECTRICALS LTD	ECO. PLAIN TUBE UPPER COIL+SUPPORT ASSY Qty-05	2017-18	2,20,180	Not Claimed
80	AAGMAN INFOTECH SYSTEMS &	PHOTO COPIER MACHINE- SHARP MAKE -AR-6020N	2017-18	29,519	Not Claimed
81	R G ENTERPRISES	450MM SWEEP HEAVY DUTY EXHAUST FAN- 20 QTY	2017-18	4,700	Not Claimed
82	CAMBRIDGE INDUSTRIES	CAPACITOR VOLTAGE TRANSFORMER:PRIMARY:13 Qty-6	2017-18	1,24,207	Not Claimed
83	TRF LTD	CAP132-660TPH:CARRIAGE WHEEL ASSLY TRF P-Qty 2 No.	2017-18	1,87,480	Not Claimed
84	HIND RECTIFIERS Ltd	TRANSFORMER RECTIFIER:415V 60KVA ESP-I Qty-4	2017-18	1,12,100	Not Claimed
85	SCRUM SYSTEM PVT LTD	SAFETY:KIOSK WITH STANDARD FEATURES	2017-18	30,000	Not Claimed
86	BHARAT HEAVY ELECTRICALS LTD	WORM GEAR HUB OF M.DRIVE&BOWL OF XRP803	2017-18	4,61,200	Not Claimed
87	EIP ENVIRO LEVEL CONTROL PVT LTD	VN-350DN:KNIFE GATE V/V-CYL.OP-COMP.ASSY Qty-2	2017-18	1,83,170	Not Claimed
88	AGARWAL AUTO SALES	DUAL DESK & BENCH-WOOD-SIZE-SMALL:SPEC-A- 85 QTY	2017-18	3,299	Not Claimed
89	RAJAT ASSOCIATES	NETWORK LASER PRINTER,SPD:45PPM,SIZE:A4	2017-18	2,614	Not Claimed
90	VOLKS ENERGIE PVT LTD	AIR CONDITIONERS 1.5 TON SPLIT TYPE-39No.	2017-18	3,40,628	Not Claimed
91	Godrej & Boyce Mfg Co Ltd	AIR CONDITIONER 2 TON SPLIT TYPE-10No.	2017-18	37,105	Not Claimed
92	INTELLICON PVT LTD	EPABX:IP BASED:1500LINE(2000PORT)	2017-18	5,30,305	Not Claimed
93	ACER INDIA PVT LTD	DESKTOP PC. CORE-I5 VPRO WIN, 8GB QTY 50	2017-18	1,20,488	Not Claimed
94	TECHNET SOFTWARE SOLUTIONS (P) LTD	8 PORT GIGABIT MANAGED SWITCH WITH 2 SFP-22No.	2017-18	31,500	Not Claimed
95	NTPC EMPLOYEE CONSUMERS	WATER PURIFIER RO-SYSTEM 15-25LPH	2017-18	50,000	Not Claimed
96	BHARAT HEAVY ELECTRICALS LTD	HV BUSHING FOR 200MVA CGL GT	2017-18	2,334	Not Claimed
97	K N INTERNATIONAL LTD	Secound Raising of Ash Dyke S-1 Lagoon -I	2017-18	84,44,695	Not Claimed
98	POWER GRID CORPORATION OF INDIA LTD	Retrfitting of 400 KV Singrauli-Allahabad -I & II	2017-18	19,14,250	Not Claimed
99	BHARAT HEAVY ELECTRICALS LTD	JOURNAL BRG# 6,400MM#32424000 C-1,GEN	2018-19	16,978	Not Claimed
100	BHEL	Spares for BHEL make DVR	2018-19	26,99,832	Not Claimed
101	BHARAT HEAVY ELECTRICALS LTD	CAP SPR- LPBP,HPBP,ESV & HPCV, 500 MW	2018-19	4,210	Not Claimed
102	BHARAT HEAVY ELECTRICALS LTD	DBL.SQ.CG.MOTOR-6.6KV,1805KW,12P.V1-SPDP	2018-19	16,72,900	Not Claimed
103	BHARAT HEAVY ELECTRICALS LTD	HYDROGEN COOLER FOR 500MW GEN	2018-19	19,785	Not Claimed
104	TIRUPATI INDUSTRIAL AGENCIES	ACB:MWS:415VAC:2500A;M-PACT-2025;GE	2018-19	20,33,877	Not Claimed
105	Indure Ltd	Ash Slurry Disposal Extension Pkg	2018-19	1,06,902	Disallowed
106	Mcnaally Bharat Engineering	Ash Water Recirculation System	2018-19	31,84,948	Disallowed

Sr. No.	Name of the Party	Name of the work	Year of creation of liability capitalised in Gross Block	Undischarged liabilities relating to GB 01.04.2019	Remarks
(1)	(2)	(3)	(4)	(5)	
107	RICE LAKE WEIGHING SYSTEMS	In-Motion weigh bridge (C&I/10773)	2018-19	93,674	Not Claimed
108	TOWA OPTICS INDIA PVT LTD	MICROSCOPE BINOCULAR DIGITAL WITH CAMERA	2018-19	41,720	Not Claimed
109	YASH HIGHVOLTAGE INSULATORS PVT LTD	LV BUSHING WTH METL PRTS AND GSKT 260MVA	2018-19	85,202	Not Claimed
110	ELECTRO CARE SYSTEMS	MOTR 1SQL3.3KV:470KW:04P:B3,TEFC:CHT-450	2018-19	1,75,000	Not Claimed
111	BHARAT HEAVY ELECTRICALS LTD	IMPELLER ASSY STG I ID FAN 200 MW	2018-19	4,52,760	Not Claimed
112	LAXMI HYDRAULICS PVT LTD	3PIM;415V;200KW;993RPM;FR:AMW355L/QU355L	2018-19	2,43,806	Not Claimed
113	BHARAT HEAVY ELECTRICALS LTD	COMPENSATOR ASSY DN500X6 11077002100/008	2018-19	1,84,789	Not Claimed
114	BHARAT HEAVY ELECTRICALS LTD	COMPENSATOR ASSY DN500X6 11077002100/008	2018-19	42,083	Not Claimed
115	CONTROL COMPONENT INDIA PVT LTD	Replacement of Field Devices & Oil Unit HPBY Syste	2018-19	37,43,882	Not Claimed
116	NDTS INDIA PVT LTD	PORTABLE NON-DESTRUCTIVE HARDNESS TESTER	2018-19	1,03,500	Not Claimed
117	ANAND TECHNOMARKETING PRIVATE	S.SCM-6.6KV,525KW,10P,B3TETV,ILA7716-3XZ	2018-19	2,36,450	Not Claimed
118	JAIMARUTI GAS CYLINDERS LTD	EMPTY CHLORINE GAS CYLINDER	2018-19	1,16,578	Not Claimed
119	JAIMARUTI GAS CYLINDERS LTD	EMPTY CHLORINE GAS CYLINDER	2018-19	25,922	Not Claimed
120	DHR HOLDING INDIA PVT LTD	ONLINE SILICA ANALYSERRANGE:0-5000PPB-2No.	2018-19	2,24,000	Not Claimed
121	ELPE ENGINEERS	FREQUENCY RESPONSE ANALYSER DOBLE MAKE	2018-19	1,06,250	Not Claimed
122	MASTEL MEDICAL SYSTEMS PVT. LTD.	ADVANCE ANAESTHESIA STATION	2018-19	1,04,920	Not Claimed
123	TRANSASIA BIO-MEDICALS LTD	AUTOMATIC HEMATOLOGY ANALYSER	2018-19	1,48,733	Not Claimed
124	GUNANK TECHNOLOGIES PVT LTD	LABOR INFORMATION AND MANAGEMENT SYSTEM(CLIMS)	2018-19	2,07,000	Not Claimed
125	TAKYON NETWORKS PVT.LTD.	SERVER - SINGLE CPU, WITH OS	2018-19	1,77,300	Not Claimed
126	MEHULENDRA CORPORATION	Biometric Attendance System.	2018-19	2,12,250	Not Claimed
127	ANB COMPUTER SOLUTIONS PVT LTD	IP based PTZ Cameras using outdoor P2P W/L Camera	2018-19	7,56,776	Not Claimed
128	DOCKET CARE SYSTEMS	LASERJET N/W PRINTER-A4 SIZE,31-35PPM (03 Nos. Assets)	2018-19	1,09,728	Not Claimed
129	ARPHI (R) ELECTRONICS PVT LTD	DIGITAL AUDIOMETER	2018-19	27,500	Not Claimed
130	ANB COMPUTER SOLUTIONS PVT LTD	IP-DSLAM STANDARD	2018-19	9,180	Not Claimed
131	HONEYWELL AUTOMATION INDIA LTD	PR/DP TRANSMTR -100+900MMWC (18 Nos. Assets)	2018-19	2,83,018	Not Claimed
132	AQUA MACHINERIES PVT LTD	HEAVY DUTY SUBMERSIBLE PP 500 M3/HR, 30M	2018-19	3,66,933	Not Claimed
133	BHARAT HEAVY ELECTRICALS LTD	SH ERV I/L ISOL V/V PART NO.S072	2018-19	6,89,688	Not Claimed
134	BHARAT HEAVY ELECTRICALS LTD	RH SPRAY LINE-NRV PART NO.R73	2018-19	1,78,777	Not Claimed
135	BHARAT HEAVY ELECTRICALS LTD	VALVE TOA HO 2500 100NB GLOBE BW WC9	2018-19	3,27,947	Not Claimed
136	BHARAT HEAVY ELECTRICALS LTD	CMPLT SLSV ASSY;S:3X6";T:1759WA;BLR.DR	2018-19	3,31,384	Not Claimed
137	BHARAT HEAVY ELECTRICALS LTD	BOILER DRUM SLSV COMPLETE ASSY	2018-19	10,69,380	Not Claimed
138	ENERGY EFFICIENCY SERVICES LTD	ENERGY EFFICIENT CEILING FAN - 50 WATT (100 Nos. Assets)	2018-19	1,34,400	Not Claimed
139	APPASAMY ASSOCIATES	A-SCAN (A-SCAN BIOMETER)	2018-19	2,44,440	Not Claimed
140	SUN POWER CONVERSION PVT LTD	UPS & BATTERYKVA RATING- 5 (2 Nos. Assets)	2018-19	2,06,500	Not Claimed
141	S G ASSOCIATES	Lighting mast in Switchyard & CHP area	2018-19	51,75,960	Not Claimed
142	CLYDE UNION LIMITED	CARTRIDGEASSY#AO102175/102603;WEIRFK6D32	2018-19	1,24,16,827	Not Claimed
143	BHEL	ESP (Renovation & Retrofitting) Pass 1 to 7 (07 Nos. Assets)	2018-19	20,18,85,634	Not Claimed
144	SCHENCK PROCESS INDIA PVT LTD	Microprocessor based electronic belt weigher at Co	2018-19	14,27,234	Not Claimed
145	SSM INFOTECH SOLUTIONS PVT LTD	Supply and Installation of OLEMS hardvar	2018-19	2,18,760	Claimed
146	LARSEN & TOUBRO LTD	Complete Replacement of Slew Bearing of SR-3 in CH	2018-19	24,64,925	Not Claimed
		Grand Total		46,10,83,859	
		Total (Singrauli Thermal)		40,24,07,119	
		Total (Singrauli Solar)		5,86,76,740	
		SINGRAULI THERMAL			
	A	Disc. of liab. by way of pmt. out of liability on allowed items before 1.4.04		78,71,616	
	B	Disc. of liab. by way of pmt. out of liability on allowed items during 2004-09		21,99,956	
	C	Disc. of liab. by way of pmt. on allowed items after 1.4.09-19		1,56,27,501	
		S.Total of Allowed, Claimed & Allowed Items (A+B+C)		2,54,99,073	
	E	Liabilities in relation to 2004-09 not admitted		84,83,042	
	F	Liabilities in relation to 2009-14 not allowed		8,55,375	
	G	Disc. of liab. by way of pmt. on disallowed items after 1.4.14		6,74,03,522	
	H	Disc. of liab. by way of pmt. on not claimed items after 1.4.14		30,01,66,107	
		S.Total of Disallowed and not claimed Items (E+F+G+H)		37,69,08,046	
		GRAND TOTAL SINGRAULI		40,24,07,119	

Saw.
(Petitioner)

Summary of issue involved in the petition

Name of the Company :		NTPC Limited
Name of the Power Station :		Singrauli STPS
1	Petitioner:	NTPC Limited
2	Subject	DETERMINATION OF TARIFF FOR THE PERIOD 2019-24
3	<p>i) Approve tariff of Singrauli for the tariff period 01.04.2019 to 31.03.2024.</p> <p>ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.</p> <p>iii) Allow reimbursement of Ash Transportation Charges directly from the beneficiaries quarterly on net basis.</p> <p>iv) Pass any other order as it may deem fit in the circumstances mentioned above.</p>	
4	Respondents: 11	
	1. Uttar Pradesh Power Corp. Ltd. (UPPCL) Shakti Bhawan 14, Ashok Marg, Lucknow - 226 001.	2. Rajasthan Urja Vika Nigam Limited (RUVNL) (on behalf of DISCOMs of Rajasthan), Vidyut Bhawan, Janpath, Jaipur 302 005
	3. Tata Power Delhi Distribution Ltd. Grid Substation, Hudson Road Kingsway Camp Delhi-110009.	4. BSES Rajdhani Power Ltd., 2nd floor, B-Block BSES Bhawan, Nehru Place New Delhi-110019.
	5. BSES Yamuna Power Ltd., Shakti Kiran Building Karkardooma Delhi-110092	6. Haryana Power Purchase Centre (HPPC) Shakti Bhawan, Sector - VI, Panchkula Haryana - 134 109
	7. Punjab State Power Corporation Ltd. (PSPCL) The Mall Patiala - 147 001	8. Himachal Pradesh State Electricity Board Ltd. (HPSEB) Kumar Housing Complex Building-II Vidyut Bhawan Shimla - 171 004
	9. Power Development Department (J&K) Govt. of J&K, Secretariat Srinagar/Jammu	10. Electricity Department (Chandigarh) Union Territory of Chandigarh Addl. Office Building Sector-9 D, Chandigarh
	11. Uttarakhand Power Corporation Ltd. (UPCL) Urja Bhawan, Kanwali Road Dehradun - 248 001 Uttarakhand.	
5	Project Scope	2000 MW Super Thermal Power Station
	Cost	NA
	Commissioning	May-88
	Claim (2019-24)	6450
	AFC (Average: 2019-24)	1,01,783.21
	Capital cost as on 01.04.2019	122980.92
	Initial spare	-
	NAPAF (Gen)	85%
	Any Specific	-



PETITIONER



भारत का राजपत्र

The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

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पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 25 जनवरी, 2016

का.आ. 254(अ).—भारत सरकार, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय की अधिसूचना सं. का.आ. 763(अ), तारीख 14 सितंबर, 1999 (जिसे इसमें इसके पश्चात् उक्त अधिसूचना कहा गया है) में कतिपय संशोधनों का प्रारूप, जिन्हें केन्द्रीय सरकार पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के उप-नियम (3) के खंड (घ) के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (1) और उप-धारा (2) के खंड (v) के अंतर्गत करने का प्रस्ताव करती है, भारत के राजपत्र, असाधारण, भाग II, खंड 3, उप-खंड (ii) में अधिसूचना सं. का.आ. 1396(अ), तारीख 25 मई, 2015 द्वारा प्रकाशित किया गया था, जिसके द्वारा ऐसे सभी व्यक्तियों से, जिनके उनमें प्रभावित होने की संभावना थी, उस तारीख से, जिसको उक्त प्रारूप संशोधनों को अंतर्विष्ट करने वाली राजपत्र की प्रतियां जनता को उपलब्ध करा दी जाती हैं, माठ दिनों के अवसान से पूर्व आक्षेप और सुझाव आमंत्रित किए गए थे;

और उक्त राजपत्र की प्रतियां 25 मई, 2015 को जनता को उपलब्ध करा दी गई थी;

और उक्त प्रारूप अधिसूचना के संबंध में, ऐसे सभी व्यक्तियों से, जिनके उनसे प्रभावित होने की संभावना थी, प्राप्त सभी आक्षेपों और सुझावों पर केन्द्रीय सरकार द्वारा मम्यक् रूप से विचार कर लिया गया है;

अतः, अब, केन्द्रीय सरकार पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के उप-नियम (3) के खंड (घ) के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (1) और उप-धारा (2) के खंड (v) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए उक्त अधिसूचना में निम्नलिखित संशोधन करती है, अर्थात् :-

1. उक्त अधिसूचना के पैरा 1 में-

- (क) उप पैरा 1(क) में "सौ किलोमीटर" शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखे जाएंगे;
- (ख) उप पैरा 3 में "100 कि.मी." अंकों और शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखे जाएंगे;
- (ग) उप पैरा 5 में "सौ किलोमीटर" शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखे जाएंगे;
- (घ) उप पैरा 7 में "सौ किलोमीटर" शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखे जाएंगे;

2. उक्त अधिसूचना के पैरा 2 में:-**(क) उप पैरा (1) के पश्चात् निम्नलिखित परंतुक अंतःस्थापित किया जाएगा, अर्थात्:-**

"परंतु यह और कि शुष्क ईएसपी फ्लाई ऐश के 20 प्रतिशत का निःशुल्क प्रदाय करने का निर्बंधन उन तापीय विद्युत संयंत्रों पर लागू नहीं होगा, जो विहित रीति में मौ प्रतिशत फ्लाई ऐश का उपयोग करने में ममर्थ हैं।"

(ख) उप पैरा (7) के पश्चात् निम्नलिखित उप पैरा अंतःस्थापित किए जाएंगे, अर्थात् :-

- "(8) प्रत्येक कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र (जिसके अंतर्गत कैपटिव और/या मह उत्पादन केन्द्र भी हैं), अधिसूचना की तारीख से तीन मास के भीतर उनके पास उपलब्ध प्रत्येक किम्म की ऐश के स्टाक के व्यौर अपनी वेबसाइट पर अपलोड करेगा और उसके पश्चात् मास में कम से कम एक बार स्टाक की स्थिति को अद्यतन करेगा।
- (9) प्रत्येक कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र समर्पित शुष्क ऐश साइलस प्रतिष्ठापित करेगा, जिनके पास पृथक् पहुंच मार्ग होंगे, जिससे कि फ्लाई ऐश के परिदान को सुगम बनाया जा सके।
- (10) कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र से 100 किलोमीटर की परिधि के भीतर मडक संनिर्माण परियोजनाओं या ऐश आधारित उत्पादों के संनिर्माण के लिए या कृषि संबंधित क्रियाकलापों में मृदा अनुकूलक के रूप में उपयोग के लिए ऐश के परिवहन की लागत ऐसे कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र द्वारा वहन की जाएगी और 100 किलोमीटर की परिधि से परे और 300 किलोमीटर की परिधि के भीतर ऐसे परिवहन की लागत को उपयोक्ता और कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र के बीच समान रूप से अंश भाजित की जाएगी।
- (11) कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र अपने परिसरों के भीतर या अपने परिसरों के आस-पास ऐश आधारित उत्पाद संनिर्माण सुविधाओं का संवर्धन करेंगे, उन्हें अपनाएंगे और उनकी स्थापना करेंगे (वित्तीय और अन्य सहबद्ध अवसंरचना)।
- (12) नगरों के आस-पास बने कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र ऐश आधारित उत्पाद विनिर्माण इकाइयों का संवर्धन करेंगे और उनकी स्थापना का समर्थन और उसमें सहायता करेंगे ताकि ईंटों और अन्य भवन संनिर्माण सामग्रियों की अपेक्षाओं की पूर्ति की जा सके और साथ ही परिवहन में कमी की जा सके।
- (13) यह सुनिश्चित करने के लिए कि किसी सड़क संनिर्माण का संविदाकार सड़क निर्माण में ऐश का उपयोग करता है, सड़क संनिर्माण के लिए संबद्ध प्राधिकारी संविदाकार को किए जाने वाले संदाय को तापीय विद्युत संयंत्र से ऐश के प्रदाय के प्रमाणीकरण के माथ जोड़ेगा।
- (14) कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र, 300 किलोमीटर की परिधि के भीतर प्रधानमंत्री ग्रामीण सड़क योजना के अधीन सड़क संनिर्माण परियोजनाओं और भवनों, सड़कों, बांधों और तटबंधों के संनिर्माण को अंतर्बलित करने वाले सरकार के अस्तित्व सृजन कार्यक्रमों के स्थल तक ऐश के परिवहन की मंपूर्ण लागत का वहन करेगा।"

3. उक्त अधिसूचना के पैरा (2) के उप-पैरा (2क) को उप-पैरा (15) के रूप में पढ़ा जाए और उक्त उप-पैरा के अंत में निम्नलिखित उप-पैरा जोड़ा जाएगा, अर्थात् :-

"और तटीय जिलों में अवस्थित कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र तटरेखा सुरक्षा उपायों का समर्थन करेंगे, उनके संनिर्माण में सहायता करेंगे या उसमें प्रत्यक्ष रूप से सम्मिलित होंगे।"

4. उक्त अधिसूचना के पैरा 3 में उप-पैरा (7) के पश्चात् निम्नलिखित अंतःस्थापित किया जाएगा, अर्थात् :-

- "(8) विभिन्न संनिर्माण परियोजनाओं का अनुमोदन करने वाले सभी राज्य प्राधिकारियों का यह उत्तरदायित्व होगा कि वे यह सुनिश्चित करें कि फ्लाई ऐश का उपयोग करने या फ्लाई ऐश आधारित उत्पादों के लिए तापीय विद्युत संयंत्रों और संनिर्माण अभिकरण या संविदाकारों के बीच परस्पर समझ ज्ञापन या कोई अन्य ठहराव किया जाता है।
- (9) राज्य प्राधिकारी, दस लाख या अधिक की जनसंख्या वाले नगरों की भवन निर्माण संबंधी उप विधियों का संशोधन करेंगे ताकि भार वहन करने वाली संरचनाओं हेतु तकनीकी अपेक्षाओं के अनुसार आवश्यक विनिर्देशों को ध्यान में रखते हुए ऐश आधारित ईंटों के आज्ञापक उपयोग को सुनिश्चित किया जा सके।

S.P.

- (10) संबद्ध प्राधिकारी सभी सरकारी स्कीमों या कार्यक्रमों में, उदाहरणार्थ महात्मा गांधी राष्ट्रीय ग्रामीण रोजगार गारंटी अधिनियम, 2005 (मनरेगा), स्वच्छ भारत अभियान, शहरी और ग्रामीण आवासन स्कीम, जहां सन्निर्मित क्षेत्र एक हजार वर्ग फुट से अधिक है और अवसंरचना संबंधी सन्निर्माण में, जिनके अंतर्गत अभिहित औद्योगिक संपदाओं या पार्कों या विशेष आर्थिक जोनों में भवन निर्माण भी है, ऐश आधारित ईंटों या उत्पादों के आज्ञापक उपयोग को सुनिश्चित करेंगे।
- (11) कृषि मंत्रालय कृषि क्रियाकलापों में ऐश के मृदा अनुकूलक के रूप में उपयोग का संवर्धन करने पर विचार कर सकेगा।”
5. सभी संबद्ध प्राधिकारियों द्वारा उपरोक्त उपबंधों का अनुपालन करने की समयावधि 31 दिसंबर, 2017 है। कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र, उनके द्वारा उत्पादित फ्लाई ऐश के 100 प्रतिशत उपयोग के अतिरिक्त उपरोक्त उपबंधों का अनुपालन 31 दिसंबर, 2017 से पूर्व करेंगे।

[फा. सं. 9-8/2005-एचएमएमडी]

विश्वनाथ सिन्हा, संयुक्त मन्त्रि

टिप्पण:- मूल अधिसूचना भारत के राजपत्र, असाधारण, भाग II, खंड 3, उप-खंड (ii) में अधिसूचना सं. का.आ. 763(अ), तारीख 14 सितंबर, 1999 द्वारा प्रकाशित की गई थी और इसमें पश्चातवर्ती संशोधन अधिसूचना सं. का.आ. 979(अ), तारीख 27 अगस्त, 2003 और का.आ. 2804(अ), तारीख 3 नवंबर, 2009 द्वारा किए गए थे।

MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 25th January, 2016

S.O. 254(E).—Whereas a draft of certain amendments to the Government of India in the Ministry of Environment, Forests and Climate Change number S.O. 763(E), dated the 14th September, 1999 (hereinafter referred to as the said notification) which the Central Government proposes to make under sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, was published in the Gazette of India, Extraordinary, Part II, section 3, Sub-section (ii), vide S.O. 1396(E), dated the 25th May, 2015 inviting objections and suggestions from all persons likely to be affected thereby before the expiry of sixty days from the date on which copies of the Gazette containing the said draft amendments were made available to the public.

And, whereas copies of the said Gazette were made available to the public on 25th May, 2015:

And, whereas all the objections and suggestions received from all persons likely to be affected thereby in respect of the said draft notification have been duly considered by the Central Government:

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following amendments to the said notification, namely:—

1. In the said notification, in paragraph 1,-
 - (a) in sub-paragraph 1(A), for the words “hundred kilometers”, the words “three hundred kilometers” shall be substituted;
 - (b) in sub-paragraph (3), for the figures and letters “100 km”, the words “three hundred kilometers” shall be substituted;
 - (c) in sub-paragraph (5), for the words “hundred Kilometers”, the words “three hundred Kilometers” shall be substituted;
 - (d) in sub-paragraph (7), for the words “hundred Kilometers”, the words “three hundred Kilometers” shall be substituted.

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2. In the said notification, in paragraph 2:-**(a) after sub-paragraph (1), the following proviso shall be inserted, namely:-**

“provided further that the restriction to provide 20 % of dry ESP fly ash free of cost shall not apply to those thermal power plants which are able to utilise 100 % fly ash in the prescribed manner.”

(b) after sub-paragraph (7), the following sub-paragraphs shall be inserted, namely:-

- “(8) Every coal or lignite based thermal power plants (including captive and or co-generating stations) shall, within three months from the date of notification, upload on their website the details of stock of each type of ash available with them and thereafter shall update the stock position at least once a Month.
- (9) Every coal or lignite based thermal power plants shall install dedicated dry ash silos having separate access roads so as to ease the delivery of fly ash.
- (10) The cost of transportation of ash for road construction projects or for manufacturing of ash based products or use as soil conditioner in agriculture activity within a radius of hundred kilometers from a coal or lignite based thermal power plant shall be borne by such coal or lignite based thermal power plant and the cost of transportation beyond the radius of hundred kilometers and up to three hundred kilometers shall be shared equally between the user and the coal or lignite based thermal power plant.
- (11) The coal or lignite based thermal power plants shall promote, adopt and set up (financial and other associated infrastructure) the ash based product manufacturing facilities within their premises or in the vicinity of their premises so as to reduce the transportation of ash.
- (12) The coal or lignite based thermal power plants in the vicinity of the cities shall promote, support and assist in setting up of ash based product manufacturing units so as to meet the requirements of bricks and other building construction materials and also to reduce the transportation.
- (13) To ensure that the contractor of road construction utilizes the ash in the road, the Authority concerned for road construction shall link the payment of contractor with the certification of ash supply from the thermal power plants.
- (14) The coal or lignite based thermal power plants shall within a radius of three hundred kilometers bear the entire cost of transportation of ash to the site of road construction projects under Pradhan Mantri Gramin Sadak Yojna and asset creation programmes of the Government involving construction of buildings, road, dams and embankments”.

3. In the said notification, in paragraph 2, sub-paragraph (2A) be read as sub-paragraph (15) and at the end of the said sub-paragraph, the following sub-paragraph shall be added, namely:-

“and the coal or lignite based thermal power plants located in coastal districts shall support, assist or directly engage into construction of shore line protection measures.”

4. In the said notification, in paragraph 3, after sub-paragraph (7), the following shall be inserted, namely:-

- “(8) It shall be the responsibility of all State Authorities approving various construction projects to ensure that Memorandum of Understanding or any other arrangement for using fly ash or fly ash based products is made between the thermal power plants and the construction agency or contractors.
- (9) The State Authorities shall amend Building Bye Laws of the cities having population One million or more so as to ensure the mandatory use of ash based bricks keeping in view the specifications necessary as per technical requirements for load bearing structures.
- (10) The concerned Authority shall ensure mandatory use of ash based bricks or products in all Government Scheme or programmes e.g. Mahatma Gandhi National Rural Employment Guarantee Act, 2005 (MNREGA), SWACHH BHARAT ABHIYAN, Urban and Rural Housing Scheme, where built up area is more than 1000 square feet and in infrastructure construction including buildings in designated industrial Estates or Parks or Special Economic Zone.

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(11) The Ministry of Agriculture may consider the promotion of ash utilisation in agriculture as soil conditioner.”

5. The time period to comply with the above provisions by all concerned authorities is 31st December, 2017. The coal or lignite based thermal power plants shall comply with the above provision in addition to 100 % utilization of fly ash generated by them before 31st December, 2017.

[F. No. 9-8/2005-HSMD]

BISHWANATH SINHA, Jt. Secy.

Note:- The principal notification was published in the Gazette of India, Extraordinary, Part II, section 3, Sub-section (ii) *vide* notification S.O. 763(E), dated the 14th September, 1999 and was subsequently amended *vide* notification S.O. 979(E), dated the 27th August, 2003 and S.O. 2804(E), dated the 3rd November, 2009.

Item Nos. 01 to 03

Court No. 1

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Original Application No. 117/2014
WITH
Original Application No. 499/2014
WITH
Original Application No. 102/2014
(M.A. No. 858/2014, M.A. No.872/2014, 42/2015, 287/2015,
694/2015 & 580/2016)

Shantanu Sharma Applicant(s)

Versus

Union of India & Ors. Respondent(s)

WITH

Anupam Raghav & Anr. Applicant(s)

Versus

U.O.I. & Ors. Respondent(s)

WITH

Sandplast (India) Ltd. & Ors. Applicant(s)

Versus

MoEF & Ors. Respondent(s)

Date of hearing: 20.11.2018

CORAM : HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE MR. JUSTICE S.P. WANGDI, JUDICIAL MEMBER
HON'BLE MR. JUSTICE K. RAMAKRISHNAN, JUDICIAL MEMBER
HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

For Applicant(s): Tasneema Ahmadi & Mahima Rathi, Advocates

For Respondent (s): Krishna Kumar Singh, Advocate for MoEF & CC
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Leishangtham Roshmani, Maibam Babina,
Anupama Ngangom, Advocates for State of
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K. Enatoli Sema, Advocate for Nagaland PCB
Arun Mathur, Avneesh Arputham, Anuradha
Arputham & Geetanjali, Advocates for State of
Sikkim
G.M. Kawoosa, Advocate for State of J&K
Balendu shekhar & Sriansh Prakash, Advocates
V.K. Shukla, Ms. Vijay Laxmi, Advocates for
State of M.P.
Rajul Srivastav, Advocate for MPPCB
Rahul Verma, Addl. AG for State of U.K.
Ankit Verma, Advocate for State of U.K.
Deepak Anand, Advocate
Jayesh Gaurav, Advocate for JSPCB
Jogy Scaria, Reegan S. Bel, Advocates for KSPCB
Abhishek Paruthi, Advocate for CPCB
Mr. R. Rakesh Sharma, Advocate for TNPCB

Mr. Shubham Bhalla, Advocate
Roopam Rai, Advocate
Hemantika Wahi, Puja Siingh, Advocates for
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K.V. Jagdishvaran & G. Indira, Advocates
Tayenjam Singh, Advocate for MPCB
Aprajita Mukherjee & Upendra Mishra,
Advocates for State of Meghalaya
Dhruv Pal & Himanshu Pal, Advocates for GPCB
Nishe Rajen Shonker, Anu K. Joy & Alim Anvar,
Advocates for State of Kerala
Ardhendhumauli Kr. Prasad , Advocate for
CGSC/MOC and Mr. Shashank Saxena,
Advocate for CGSC/MOC
Debojit Borkakati, Advocate for State of Assam
Rajul Shrivastav, Advocate for State of MPPCB
Shuvodeep Roy & Rituraj Biswas, Advocates for
State of Tripura
Anil Srivastav & Sujaya Bardhan, Advocates for
State of Arunachal Pradesh
M. Paikaray, Advocate for State of SPCB
Devraj Ashok, Advocate for State of Karnataka
Raja Chatterjee, Piyush Sachdev & Abhinandini
Yadav, Advocates for State of West Bengal
Anand Verma, S. Jain & S. Singh, Advocates
Ajit Pudusery & Ajeet Singh Verma, Advocates
Bharat Sangal & Isha Gupta, Advocates
M. Paikroy, Advocate for state of SPCB
Puja Kalra, Advocate for North & South, MCD
Shashi Juneja, Advocate for State of
Chhattisgarh
Dhananjaj Bajjal & Nikhil Naggar, Advocates for
AACB & TSPCB
Kshitij Mudgal, Advocate for DGMS
Hemantika Wahi & Puja Singh, Advocates for
State of GPCB
Souryajit Pani & Chittaranjan Singh, Advocates
for state of Odisha
Santosh Kumar & Sarthak Agarwal, Advocates
for SAIL
Guntur Prabhakar, Guntur Pramod, Prashant
Mathur, P. Venkat Reddy & Prashant Tyagi,
Advocates for State of A.P
Prashant Tyagi, Advocate for State of Talangana
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Atul Jha, Advocate
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Shubham Bhalla, Roopam Rai, Advocate
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Ravin Dubey, Advocate
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Jayesh Gaurav, Advocate for JSPCB
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Anil Grover, AAG for State of HSPCB
Mr. Shoeab, Gautam Singh & Rudreshwar Singh,
Advocates for BSPCB
Debarshi Bhiyan, Advocate for GSPCB

ORDER

1. These matters raise concern of management of fly ash generated by the Thermal Power Plants (TPP). We may refer to the pleadings in Original Application No. 117/2014, Shantanu Sharma Vs. Union of India & Ors. Other matters are said to be identical.
2. The applicant claims to be interested in protection of environment and forest. He claims to be aggrieved by non-implementation of Notifications issued by the Ministry of Environment, Forest and Climate Change (MoEF&CC) for proper utilization of fly ash generated by the coal and lignite based TPP.
3. Case of the applicant is that non-utilization and improper disposal of fly ash leads to increase in air pollution and causes severe health problems. It also affects horticulture and agricultural crops. As at present, there are increased ash pond areas and increased height of ash dykes. Apart from air pollution, there is pollution of surface water and ground water. Major pollutants in fly ash are Arsenic and Mercury. Both the said pollutants are injurious for the land and the water bodies. Thus, there is need for 100% utilization of fly ash by all possible means such as conversion to ash based products, preventing its washing away or flying in the air. MoEF&CC has failed to ensure proper monitoring mechanism inspite of issuing notification on the subject.
4. Notification dated 14.09.1999 required use of atleast 25% of the ash for clay bricks or tiles or blocks for use in construction

activities. The Delhi High Court vide judgment dated 05.08.2004 in Writ Petition (C) No. 2145/1999 directed the Government to make use of fly ash mandatory in roads apart from using it in bricks for construction. Land, electricity and water is required to be made available for promoting ash based production units. Vide amendment dated 03.11.2009, provision was made for its use in manufacturing of building material and in construction activity to preserve top soil by restricting excavation for disposal. Since quantum of fly ash has increased, the extent of fly ash required to be used was also increased.

5. In view of more and more concern on account of failure of efficacy of the measures already taken, a working group was constituted by the Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Govt. of India. In its report submitted in the year 2011, the said group *inter-alia* observed that increase in generation of fly ash led to increase in the requirement of land and thus target has to be of 100% utilization as against 60% utilization which was happening. The disposal process lacked transparency and it was necessary that each thermal power plant displays complete information. Other measures adopted include policy of financial institutions to require compliance of fly ash as a condition for grant of loan and incentives in rate of excise duty. The applicant has also referred to the report jointly published by the World Bank and the Department of Economic Affairs, Govt. of India pointing out the deficiencies in pro-active government policies on the subject.

6. We may now refer to the Notifications on the subject. Vide Notification dated 14.09.1999, the MoEF&CC issued directions requiring manufacturers of clay bricks or tiles or blocks or construction activities to mix atleast 25% of ash which is to be ensured by the Pollution Control Boards/Committees by

canceling the consent order for brick kilns or mining leases. Every thermal power plant was required to make available such ash and phase out dumping and disposal in three years to the extent of 30%, and in six years the remaining. This applied to plants permissioned subject to Environmental Clearance having such conditions. The remaining are required to phase-out the same in 15 years and compliance was required to be furnished to the Central Pollution Control Board and the concerned State Pollution Control Boards/Committees. The Electricity Boards, NTPC and the management of the power plants are to facilitate making available land, electricity and water for manufacturing activities and also to provide access to the ash lifting area and furnish annual implementation report. Manufacturers of ash based products such as cement, blocks, brick panels were to operate as per the guidelines laid down by the Bureau of Indian Standards, Indian Bureau of Mines, Indian Road Congress, Central Building Research Institute, Roorkee, Central Road Research Institute, New Delhi, Building Materials and Technology Promotion Council, New Delhi, Central Public Works Department, State Public Works Departments and other Central and State Government agencies. The said authorities are to prescribe the use of ash and ash based products in schedules of specifications. Local authorities are to specify such requirement in building bye-laws.

7. Vide Notification dated 27.08.2003, certain amendments were made particularly to the effect that construction agencies were required to use the fly ash to the extent of 100% in a phased manner upto 31.08.2007.
8. Next Notification is dated 03.11.2009, revising the timelines and the period for implementation. The revised timelines apply to the construction agencies as well as thermal power plants as per

details mentioned in the said Notification. The said Notification also provided for shifting of the fly ash by filling empty mined voids by stowing.

9. The report of the Working Group of Cement Industries for 12th Five Year Plan (2012-2017) by the Department of Industrial Policy and Promotion, Ministry of Commerce and Industry goes into the extent of the problems and challenges in tackling the issue. The report shows that if the fly ash generated is not consumed, the cost on the economy by way of disposal risks and threat to health will be very high. Thus, to conserve top soil and prevent dumping and disposal on land, proper disposal of fly ash was significant. It was recommended that the Ministry of Power, Govt. of India should make proper assessment of the level of fly ash generation. The fly ash need not be required to be supplied free by the cement manufacturers to small bricks manufacturers and should be utilized by the cement plants for their own consumption. If the cement plants are required to purchase the fly ash at a cost, it will require transportation and add to the cost unnecessarily.

10. We now note the stand of the respondents. The Ministry of Finance and Revenue, Govt. of India in its reply has stated that the excise duty is 2% without CENVAT credit and 6% with CENVAT credit. Fly ash products are covered by SSI exemption. No excise duty is payable upto a clearance value of Rs. 1.5 crores.

11. The Reserve Bank of India has stated that the Banks have been advised to have an appropriate policy in this regard in the matter of giving loans.

12. The MoEF&CC has referred to the Notifications issued from time to time to deal with the problem. In respect of thermal power

stations in its operation before 03.11.2009, extent of fly ash utilizations is as per following table:

Sr. No.	Percentage Utilization of Fly Ash	Target Date
1.	At least generation 50% of fly ash	One year from the date of issue of this notification.
2.	At least generation 60% of fly ash	Two years from the date of issue of this notification.
3.	At least generation 75% of fly ash	Three years from the date of issue of this notification
4.	At least generation 90% of fly ash	Four years from the date of issue of this notification
5.	At least generation 100% of fly ash	Five years from the date of issue of this notification

13. For those commissioned thereafter, the extent of fly ash utilization is as follows:

Sr. No.	Percentage Utilization of Fly Ash	Target Date
1.	At least generation 50% of fly ash	One year from the date of issue of commissioning.
2.	At least generation 70% of fly ash	Two years from the date of issue of commissioning.
3.	At least generation 90% of fly ash	Three years from the date of issue of commissioning.
4.	At least generation 100% of fly ash	Four years from the date of issue of commissioning.

14. Conditions prescribed for utilization of fly ash are as follows:

(a) the pond ash should be made available free of cost on "as is where is basis" to manufacturers of bricks, blocks or tiles including clay fly ash product manufacturing unit(s), farmers, the Central and the State road construction agencies, Public Works Department, and to agencies engaged in backfilling or stowing of mines.

(b) at least 20% of dry ESP fly ash shall be made available free of cost to units manufacturing fly ash or clay-fly ash bricks, blocks and tiles on a priority basis over other users and if the demand from such agencies falls short of 20% of quantity, the balance quantity can be sold or disposed of by the power station as may be possible;

Provided that the fly ash obtained from the thermal power station should be utilized only for the purpose for which it was obtained from the thermal power station or plant failing which no fly ash shall be made available to the defaulting users."

15. Under the above notification, a Monitoring Committee is to be constituted in every State/Union Territory under the Chairmanship of the Secretary, Department of Environment with representatives from Department of Power, Department of Mining, Road and Building Construction Department and State Pollution Control Board. The Committee is required to deal with

any unresolved issue by Dispute Settlement Committee in addition to the monitoring and facilitating the implementation of the notification.

16. Monitoring Committee constituted by the MoEF&CC is to have members from Ministry of Coal., Ministry of Power., Central Pollution Control Board., Central Electricity Authority., Head, Fly Ash Unit of the Department of Science and Technology and Building Material Technology Promotion Council.

17. It is further stated, in the affidavit of the MoEF&CC, that as per the information received from Central Electricity Authority (CEA), during a meeting, the fly ash generation from 138 thermal power plants is reported to be 163.56 million tons during the year 2012-13. The overall utilization of fly ash was 100.73 million ton, which is about 61.37% of the total fly ash generated. During the year 2012-13, out of 138 (one hundred thirty-eight) thermal power stations for which data was received, 66 (sixty-six) power stations have achieved the targets of fly ash utilization as stipulated in the notification dated 03.11.2009. The remaining 33 (thirty-three) plants have achieved the level of fly ash utilization up to 75%. The 19 (nineteen) plants have achieved the level of fly ash utilization up to 60%.

18. CPCB has given a chart showing progress of fly ash generation and utilization from 1996 to 2012. Some of the State Pollution Control Boards/Committees have filed their affidavits indicating the extents to which utilization of fly ash has taken place.

19. Vide Notification dated 25.01.2016, further amendment was made to the Notification dated 14.09.1999 mainly to the effect that the area within which the fly ash is to be utilized has been increased to 300 kms. The time period to comply with the requirements of 100% utilization of fly ash was extended to 31.12.2017.

20. The matter has been considered on several dates in the last four and a half years. Reference may be made to some of the orders passed.
21. Vide order dated 06.01.2016, the MoEF&CC, the State Governments/Union Territories were required to furnish the details of the Monitoring Committees and if such Committees were not constituted as per the mandate of the Notification, the same were directed to be constituted.
22. On 03.01.2018, the States/Union Territories were directed to furnish their action plans for utilization of fly ash produced and generated by thermal power plants in accordance with the Notifications.
23. On 16.02.2018, it was noted that only eight States have submitted their action plans. MoEF&CC was directed to expedite the collection of action plans from the concerned States.
24. On 20.03.2018, the Chief Secretaries of the States, who had failed to submit action plans, were again required to do so.
25. On 12.07.2018, it was stated that 20 States have submitted their action plans out of which 13 were not complete or satisfactory. The MoEF&CC was directed to monitor the compliance of the earlier orders referred to above and submit a status report.
26. Accordingly, status report has been filed before this Tribunal on 07.09.2018 by the MoEF&CC stating that no fly ash is generated in 15 States/UTs namely Goa, Himachal Pradesh, Jammu & Kashmir, Kerala, Manipur, Mizoram, Nagaland, Sikkim, Tripura, Andaman and Nicobar, Chandigarh, Daman & Diu, Dadra & Nagar Haveli, Lakshadweep and Pondicherry. Accordingly, the said States and Union Territories and their authorities be deleted from the array of parties.
27. Twenty States have given their action plans. Only State of Arunachal Pradesh has not furnished any action plan. Since there is nothing to show that there is any fly ash generation in the said

State, the said State or its authorities are also deleted from array of parties. We do not understand why deletion of unnecessary parties was never sought.

28. The position of each of the remaining twenty States has been mentioned. It may be noted that though the last date for achieving 100% utilization was 31.12.2017 and the said date has not been extended, the States have sought extension of time by 2 to 5 years upto the year 2023 which is wholly uncalled for. This Tribunal has no jurisdiction to grant any extension of time in conflict with the mandate of notification under the Environment (Protection) Act, 1986, particularly when such extension will enable harm to environment, in violation of statutory scheme. It is also stated by some of the States that action plans to achieve 100% utilization of fly ash has not even been furnished by some of the Thermal Power Plants.

29. We may also note that the NITI Aayog, vide order dated 12.06.2018, constituted a Committee headed by Joint Secretary, MoEF&CC, Govt. of India, to develop a focused strategy for best utilization of fly ash to manufacture end products. Issues to be gone into by the Committee are - revisiting existing notifications / guidelines, transportation of fly ash, better utilization in MSME Sector, cement and allied industries, use of mobile app in data base, guidelines for ash parks, regulation of red bricks, incentives for 100% utilization, incentives to TPPs for new innovations. Draft report was circulated by MoEF&CC on 16.10.2018. The Committee noted that the existing notification needed review and the same were not being fully implemented.

30. In view of the above, only question for consideration is the directions to be issued on account of failure of 100% utilization of fly ash which has admitted adverse impact on public health and to give effect to the 'Precautionary Principle' and the 'Polluter Pays'

Principle to be applied under Section 20 the National Green Tribunal Act, 2010.

31. Since non-utilization of 100% fly ash, especially after 31.12.2017, the date fixed in the Notification of the MoEF&CC dated 25.01.2016, invites penal consequences under the provisions of the Environment Protection Act, 1986, liability in this regard is not only of the persons responsible for non-utilization but also for generators of the fly ash. The generator cannot avoid responsibility for due disposal of any residue pollutants on account of its activity. The principle of 'extended producer's liability' is well recognized as part of 'Sustainable Development'. Applying the 'Precautionary Principle', the permission to dump fly ash in the mined voids has to be subject to all precautionary measures necessary for environment protection. Area of utilization of fly ash has been extended to 300 kms, which may call for more stringent conditions to avoid damage to the environment.

32. The adverse effect of fly ash mismanagement is well acknowledged in decision of Courts¹ as well as by public authorities².

33. We are of the view that a Joint Committee of the representatives of the Ministry of Environment, Forest and Climate Change, Central Pollution Control Board and IIT Roorkee and any other member considered necessary by MoEF&CC needs to be forthwith constituted to finalize action plan covering all aspects so as to not only achieve 100% utilization of fly ash but also to ensure its scientific and environmentally sound disposal. The Committee will also be required to determine the amount of damages to be paid for the violation of requirement of utilization of fly ash.

Needless to say that statutory authorities under the Environment

¹ Occupational Health and Safety Association v. Union of India & Ors. (2004) 3 SCC 547 ¶12-15

² <http://pib.nic.in/PressReleaseDetail.aspx?PRID=1520080>, <https://economictimes.indiatimes.com/news/politics-and-nation/pmo-asks-agencies-to-increase-usage-of-fly-ash-by-10-times/articleshow/65814656.cms>, <https://energy.economictimes.indiatimes.com/news/power/from-coal-production-to-renewable-power-obligations-niti-aavog-lays-down-its-3-year-agenda-for-indias-energy-sector/58486230>, <http://pib.nic.in/newsite/PrintRelease.aspx?relid=179785>

(Protection) Act, 1986, the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974 are entitled to assess and recover damages on 'Polluter Pay's Principle' in exercise of incidental powers to protect environment. The Committee may determine any other allied or incidental issue.

34. Accordingly, we direct constitution of such a Committee by the MoEF&CC forthwith. The Committee may give its report within two months from the date of its assuming charge to the MoEF&CC.

35. The report of the Committee may be complied with by all concerned, subject to any challenge to such report, in accordance with law.

36. Pending submissions of such report, we direct all Thermal Power Stations who have failed to dispose of 100% fly ash up to 31.12.2017, to deposit damages for environment restoration as follows:

Sl. No.	Capacity of the Thermal Power Plant	Cost of damages
1.	Thermal Power Plants upto the capacity of 500 MW	Rs. 1 Crore
2.	Thermal Power Plants upto the capacity of 1000 MW	Rs. 3 Crores
3.	Thermal Power Plants beyond the capacity of 1000 MW	Rs. 5 Crores

37. The above amount may be deposited with the CPCB within one month from today, failing which interest @ 12% p.a. will be payable for the delayed period. The amount may be spent on restoration and restitution of the environment.

38. No damages will be payable by the Thermal Power Plants which have utilized 100% of the ash generated by it in accordance with law up to 31.12.2017 and disposing it in scientific manner. In case, any such claim is found to be false by the Committee, the amount of penalty payable may be up to five times.

39. The MoEF&CC may furnish an action taken report to this Tribunal on or before 31.03.2019 by e-mail at ngt.filing@gmail.com. All the applications are disposed of.

40. Report may be put up for consideration on 9th April, 2019.

Adarsh Kumar Goel, CP

S.P. Wangdi, JM

K. Ramakrishnan, JM

Dr. Nagin Nanda, EM

November 20, 2018
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रजिस्ट्री सं० डी० एल०-33004/99

REGD. NO. D. L.-33004/99



भारत का राजपत्र

The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (i)

PART II—Section 3—Sub-section (i)

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 02]

नई दिल्ली, बृहस्पतिवार, जनवरी 2, 2014/पौष 12, 1935

No. 02]

NEW DELHI, THURSDAY, JANUARY 2, 2014/PAUSHA 12, 1935

पर्यावरण और वन मंत्रालय

अधिसूचना

नई दिल्ली, 2 जनवरी, 2014

सा.का.नि. 02(अ).—केन्द्रीय सरकार ने, पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के साथ पठित पर्यावरण संरक्षण अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (2) और धारा 25 का प्रयोग करते हुए, पर्यावरण (संरक्षण) नियम, 1986 का और संशोधन करने के लिए भारत के राजपत्र, असाधारण में सं. सा.का.नि. 552(अ), तारीख 11 जुलाई, 2012 द्वारा सभी व्यक्तियों तथा संगठनों की जानकारी के लिए जिनके उनसे प्रभावित होने की संभावना थी, प्रारूप नियम प्रकाशित किए थे और यह सूचना दी थी कि उक्त प्रारूप नियमों पर उस तारीख से जिसको राजपत्र की प्रतियां, जिसमें सूचना प्रकाशित की जाती है, जनता को उपलब्ध करा दी जाती हैं, साठ दिनों की अवधि की समाप्ति के पश्चात् विचार किया जाएगा;

और जनता को उक्त राजपत्र की प्रतियां 31 जुलाई, 2012 को उपलब्ध करा दी गई थी;

और केन्द्रीय सरकार द्वारा उपर वर्णित प्रारूप नियमों पर प्राप्त सुझावों या आक्षेपों पर सम्यक्तः विचार किया गया है;

अतः अब केन्द्रीय सरकार, पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के साथ पठित पर्यावरण संरक्षण अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (2), धारा 6 और धारा 25 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, पर्यावरण (संरक्षण) नियम, 1986 का और संशोधन करने के लिए निम्नलिखित नियम बनाती है, अर्थात् :—

1. (1) इन नियमों का संक्षिप्त नाम पर्यावरण (संरक्षण) संशोधन नियम, 2014 है।
- (2) ये राजपत्र में प्रकाशन की तारीख को प्रवृत्त होंगे।
2. पर्यावरण (संरक्षण) अधिनियम, 1986 में, नियम 3 के उप-नियम (8) के स्थान पर निम्नलिखित उप-नियम रखा जाएगा, अर्थात् :—

“(8) इसमें नीचे विनिर्दिष्ट तारीख से निम्नलिखित कोयला आधारित ताप ऊर्जा संयंत्र त्रैमासिक औसत आधार पर कच्चा अथवा मिश्रित अथवा सज्जीकृत कोयले का जिसमें भष्म अंतर्वस्तु 34% से अनधिक हो, उपयोग करेंगे, अर्थात् :—

- (क) एकल ताप विद्युत संयंत्र (किसी भी क्षमता का) या 100 मेगावाट या अधिक प्रतिष्ठापित क्षमता का या उससे अधिक क्षमता का प्रतिष्ठापित कैप्टिव ताप विद्युत संयंत्र जो गर्तमुख से 1000 किलोमीटर से अधिक दूरी पर या किसी शहरी क्षेत्र या किसी पारिस्थितिकीय रूप से संवेदनशील क्षेत्र में या गंभीर रूप से प्रदूषित औद्योगिक क्षेत्र में अवस्थित है, गर्तमुख से उसकी दूरी पर ध्यान दिए बिना सिवाय किसी गर्तमुख विद्युत संयंत्र के, तुरंत प्रभाव से;
- (ख) एकल ताप विद्युत संयंत्र (किसी भी क्षमता का) या 100 मेगावाट या उससे अधिक प्रतिष्ठापित क्षमता का कैप्टिव ताप विद्युत संयंत्र जो गर्तमुख से 750-1000 किलोमीटर के बीच की दूरी पर अवस्थित है, 1 जनवरी, 2015 से;
- (ग) एकल ताप ऊर्जा संयंत्र (किसी भी क्षमता का) या 100 मेगावाट या उससे अधिक प्रतिष्ठापित क्षमता का कैप्टिव ताप विद्युत संयंत्र जो गर्तमुख से 500-749 किलोमीटर के बीच की दूरी पर अवस्थित है, 5 जून, 2016 से;

परंतु यह कि ऐसे किसी ताप ऊर्जा संयंत्र के संबंध में, जो परिसंचारी तरल-तर दहन या वायुमंडलीय तरल-तर दहन या संपीड़ित द्रवित तरल-तर दहन या समाकलित गैसीकरण संयुक्त आवर्तन चक्र प्रौद्योगिकियों का या ऐसी कोई स्वच्छ प्रौद्योगिकियों का, जो केन्द्रीय सरकार द्वारा राजपत्र में अधिसूचित की जाएं, प्रयोग कर रहा है, खंड (क), (ख) और (ग) लागू नहीं होंगे।

स्पष्टीकरण :— इस नियम के प्रयोजन के लिए, —

- (i) ‘सज्जीकृत कोयला’ से ऐसा कोयला अभिप्रेत है जिसमें उच्चतर कैलोरी मान अंतर्विष्ट है किंतु भौतिक पृथक्करण या धोवन प्रक्रिया के माध्यम से अभिप्राप्त कच्चे कोयले में अंतर्विष्ट मूल भष्म से निम्नतर भष्म अंतर्विष्ट है;
- (ii) ‘कैप्टिव ताप ऊर्जा संयंत्र’ से ऐसा ताप ऊर्जा संयंत्र अभिप्रेत है जो किसी उद्योग द्वारा उसके अनन्य उपयोग के लिए विद्युत सृजन के लिए स्थापित किया गया है;
- (iii) ‘अत्यधिक प्रदूषित औद्योगिक क्षेत्र’ से ऐसा औद्योगिक समूह या क्षेत्र अभिप्रेत है, जहां प्रदूषण गंभीर स्तर पर पहुंच चुका है या पहुंच जाने की संभावना है और जिसकी केन्द्रीय सरकार या राज्य सरकार या केन्द्रीय प्रदूषण नियंत्रण बोर्ड या राज्य प्रदूषण नियंत्रण बोर्ड द्वारा ऐसे क्षेत्र के रूप में पहचान की जा चुकी है;
- (iv) ‘पारिस्थितिकीय रूप से संवेदनशील क्षेत्र’ से, ऐसा क्षेत्र अभिप्रेत है, जहां पारिस्थितिकीय संतुलन आसानी से विक्षुब्ध होने की संभावना है और जिसकी केन्द्रीय सरकार द्वारा पहचान की गई है और उसे अधिसूचित किया गया है;
- (v) ‘प्रतिष्ठापित क्षमता’ की संगणना किसी सीमा के भीतर सभी इकाईयों की व्यक्तिगत क्षमता को जोड़कर की जाएगी;
- (vi) ‘गर्तमुख विद्युत संयंत्र’ से कोई कैप्टिव या एकल विद्युत केन्द्र अभिप्रेत है जिसका खनन क्षेत्र से लदाई बिन्दु तक विद्युत केन्द्र में सामान्य लोक परिवहन प्रणाली का उपयोग किए बिना विद्युत केन्द्र में कोयले के परिवहन के लिए उसके अनन्य उपयोग के लिए कैप्टिव परिवहन प्रणाली है;
- (vii) ‘एकल ताप विद्युत संयंत्र’ से ऐसा विद्युत संयंत्र अभिप्रेत है जिसकी स्थापना विद्युत ग्रिड में विद्युत आपूर्ति के लिए विद्युत के सृजन के लिए या उन अवस्थानों पर जिन्हें विद्युत वितरण प्रणाली के साथ सुसज्जित नहीं किया गया है, विद्युत आपूर्ति के लिए की गई है; और
- (viii) ‘शहरी क्षेत्र’ से ऐसे शहर की क्षेत्र सीमा अभिप्रेत जिसकी जनसंख्या नवीनतम जनगणना के अनुसार दस लाख से अधिक हो।”।

[फा. सं. क्यू-15017/11/2011-सी.पी.डब्ल्यू.]

सुशील कुमार अपर सचिव

टिप्पण.—मूल नियम भारत के राजपत्र में सं. का. आ. 844(अ), तारीख 19 नवम्बर, 1986 द्वारा प्रकाशित किए गए थे और पश्चात्पूर्वी संशोधन सं. का.आ. 82(अ), तारीख 16 फरवरी, 1987; का.आ. 64(अ), तारीख 18 जनवरी, 1988;

सा.का.नि., 931(अ), तारीख 27 अक्टूबर, 1989; का.आ. 23 (अ), तारीख 16 जनवरी, 1991; सा.का.नि. 95(अ), तारीख 12 फरवरी, 1992; सा.का.नि. 329(अ), तारीख 13 मार्च, 1992; सा.का.नि. 562(अ), तारीख 27 मई, 1992; सा.का. नि. 884(अ), तारीख 20 नवम्बर, 1992; सा.का.नि. 386(अ), तारीख 22 अप्रैल, 1993; सा.का.नि. 422(अ), तारीख 19 मई, 1993; सा.का.नि. 801(अ), तारीख 31 दिसंबर, 1993; सा.का.नि. 320(अ), तारीख 16 मार्च, 1994; सा.का.नि. 560(अ), तारीख 19 सितंबर, 1997; सा.का.नि. 378(अ), तारीख 30 जून, 1998; सा.का.नि. 07(अ), तारीख 22 दिसंबर 1998; सा.का.नि. 407(अ), तारीख 31 मई, 2001; और सा.का.नि. 826(अ), तारीख 16 नवंबर, 2009 और सा.का.नि. 513(अ), तारीख 28 जून, 2012 द्वारा किए गए।

MINISTRY OF ENVIRONMENT AND FORESTS
NOTIFICATION

New Delhi, the 2nd January, 2014

G.S.R. 02(E).—Whereas the Central Government had, in exercise of its powers under sub-section (2) of Section 3 and Section 25 of the Environment (Protection) Act, 1986 (29 of 1986), read with rule 5 of the Environment (Protection) Rules, 1986, published draft rules further to amend the Environment (Protection) Rules, 1986, in the Gazette of India, Extraordinary, vide number G.S.R. 552(E), dated 11th July, 2012 for information of all persons and organizations likely to be affected thereby; and notice was given that the said draft rules would be taken into consideration by the Central Government on or after the expiry of a period of sixty days from the date on which copies of the Gazette containing this notification are made available to the public;

And whereas, the copies of the said Gazette notification were made available to the public on the 31st July, 2012; and whereas, the suggestions or objections received in response to the above mentioned draft rules have been duly considered by the Central Government;

Now, therefore, in exercise of the powers conferred by Section 3, Section 6 and Section 25 of the Environment (Protection) Act, 1986 (29 of 1986) read with rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2014.
(2) They shall come into force on the date of their publication in the Official Gazette.
2. In the Environment (Protection) Rules, 1986, in rule 3, for sub-rule (8), the following sub-rule shall be substituted, namely:—

“(8) With effect from the date specified hereunder, the following coal based thermal power plants shall be supplied with, and shall use, raw or blended or beneficiated coal with ash content not exceeding thirty-four per cent. on quarterly average basis, namely:—

- (a) a stand-alone thermal power plant (of any capacity), or a captive thermal power plant of installed capacity of 100 MW or above, located beyond 1000 kilometres from the pit-head or, in an urban area or an ecologically sensitive area or a critically polluted industrial area, irrespective of its distance from the pit-head, except a pit-head power plant, with immediate effect;
- (b) a stand-alone thermal power plant (of any capacity), or a captive thermal power plant of installed capacity of 100 MW or above, located between 750 – 1000 kilometres from the pit-head, with effect from the 1st day of January, 2015;
- (c) a stand-alone thermal power plant (of any capacity), or a captive thermal power plant of installed capacity of 100 MW or above, located between 500-749 kilometres from the pit-head, with effect from the 5th day of June, 2016:

Provided that in respect of a thermal power plant using Circulating Fluidised Bed Combustion or Atmosphere Fluidised Bed Combustion or Pressurized Fluidised Bed Combustion or Integrated Gasification Combined Cycle technologies or any other clean technologies as may be notified by the Central Government in the Official Gazette, the provisions of clauses (a), (b) and (c) shall not be applicable.

Saw.

Explanation: For the purpose of this rule,—

- (i) 'beneficiated coal' means coal containing higher calorific value but lower ash than the original ash content in the raw coal obtained through physical separation or washing process;
- (ii) 'captive thermal power plant' means a power plant which is set up by an industry to generate electricity for its exclusive use;
- (iii) 'critically polluted industrial area' means an industrial cluster or area where pollution levels have reached or likely to reach critical level, and has been identified as such by the Central Government or the State Government or the Central Pollution Control Board or a State Pollution Control Board;
- (iv) 'ecologically sensitive area' means an area whose ecological balance is prone to be easily disturbed and has been identified and notified by the Central Government;
- (v) 'installed capacity' shall be calculated by adding, individual capacity of all units within a boundary;
- (vi) 'pit-head power plant' means any captive or stand-alone power station having captive transportation system for its exclusive use for transportation of coal from the loading point at the mining end, up to the uploading point at the power station without using the normal public transportation system;
- (vii) 'stand-alone thermal power plant' means a power plant which is set up to generate electricity for feeding to electricity grid or for locations that are not fitted with an electricity distribution system; and
- (viii) 'urban area' means an area limit of a city having a population of more than one million according to the last census. "

[F. No. Q-15017/11/2011-CPW]

SUSHEEL KUMAR, Addl. Secy.

Note:—The Principal rules were published in the Gazette of India *vide* number S.O. 844(E), dated the 19th November, 1986 and subsequently amended *vide* numbers S.O. 82(E), dated 16th February, 1987; S.O. 64(E), dated 18th January, 1988; G.S.R. 931(E), dated 27th October, 1989; S.O. 23(E), dated 16th January, 1991; G.S.R. 95(E), dated 12th February, 1992; G.S.R. 329(E), dated 13th March, 1992; G.S.R. 562(E), dated 27th May, 1992; G.S.R. 884(E), dated 20th November, 1992; G.S.R. 386(E), dated 22nd April, 1993; G.S.R. 422(E), dated 19th May, 1993; G.S.R. 801(E), dated 31st December, 1993; G.S.R. 320(E), dated 16th March, 1994; G.S.R. 560(E), dated 19th September, 1997; G.S.R. 378(E), dated 30th June, 1998; G.S.R. 7(E), dated 22nd December, 1998; G.S.R. 407(E), dated 31st May, 2001; G.S.R. 826(E), dated 16th November, 2009 and G.S.R. 513(E), dated 28th June, 2012.

S.K.

~~CONFIDENTIAL~~

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

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

Phone No 080 26531200
Fax No 080-26531202

General Manager,
M/s NTPC Limited,
Kudgi Super Thermal Power Project,
Plot No. 9, Mallikarjun Nagar,
Mangaloch Road, Bijapur-586100

A GM (PKS)
Date 17/10/2013

Sir,

Subject: [REDACTED]

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

* * *

We are pleased to inform you that the Task Force Committee in its meeting held on 12.09.2013 has reviewed the presentation documents, details of the safety systems adopted, etc and has concurred in principle to issue the Site Clearance for the establishment of super thermal power project for generating electrical power of 1 X 800 MW at Near Kudgi village, Basavanna bagewadi Taluk, Bijapur District.

The site clearance is issued subject to the following conditions:

[REDACTED]

1. The mobile hydrogen cylinder bank with manifold system shall be adopted in place of base line hydrogen cylinders.
2. The safety check shall be prepared in storing, handling and usage of Hydrogen 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 to monitor the health work environment with special trust to fugitive emission, its 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 and continuous basis.

[Signature]
1/2

- The mitigation measures as submitted for preservation and as suggested by committee shall be incorporated in the site emergency plan. The same shall be submitted for scrutiny and approval.
- The provisions of rule 701-251 of Building and Other Construction Workers (Regulation of Employment and Condition of Service) (Karnataka) Rules 2016 shall be complied to ensure occupational safety and health of the construction workers involved project. The compliance shall be furnished regularly to jurisdiction officers at own department and to the Director of factories, mines, industrial safety and health.

Suggestions:

- 1. The industry shall adopt the rain harvesting system to utilize rain water for domestic use.
- 2. The industry shall adopt solar energy system at least catering to street lighting and/or other suitable air air like water heating in the canteen, etc.

All the above conditions and suggestions shall be complied and copy of it shall be submitted to the department. 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, Mines,
Industrial Safety and Health, Bangalore

Signature

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 I 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.
G5/11
29/4/16
29/4/2016

मे वरा कुट्टि
75

29/4/16

ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಕಾರ್ಖಾನೆಗಳು, ಬಾಯ್ಲರುಗಳು, ಕೈಗಾರಿಕಾ ಸುರಕ್ಷತೆ ಮತ್ತು ಸ್ವಾಸ್ಥ್ಯ ಇಲಾಖೆ

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

ನಿರ್ದೇಶಕರ ಕಾರ್ಯಾಲಯ,

ಕಾರ್ಮಿಕ ಭವನ, 2ನೇ ಮಹಡಿ, 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 ವಿದ್ಯಾನುಶಿಷ್ಟಗಳ ನೀಲಿ ನಕ್ಷೆಗಳು ಅಗತ್ಯವಿರುವ ಕಾರ್ಖಾನೆಗಳು ಕಾಯ್ದೆ 1948ರ ಹಾಗೂ ಕರ್ನಾಟಕ ಕಾರ್ಖಾನೆಗಳ ನಿಯಮಾವಳಿಗಳು 1969ರ 3(4) ನೇ ನಿಯಮಕ್ಕನುಸಾರವಾಗಿ ಕಲ್ಪಿಸಿರುವ ಎಲ್ಲಾ ಅವಕಾಶಗಳು ಮತ್ತು ಈ ಕೆಳಕಂಡ ಷರತ್ತುಗಳ ಅನುಷ್ಠಾನಗೊಳಪಟ್ಟು ಅನುಮೋದಿತವಾಗಿವೆ.

1. ಇದೇ ಕಛೇರಿಯ ಪತ್ರ ಸಂಖ್ಯೆ: ಸಿಎಸ್‌ಎಂಸಿ/ಟಿಎಫ್‌ಸಿ/ಸಿಆರ್-13/2013-14, ದಿ: 23.09.2013 ರಂತೆ ವಿಧಿಸಿರುವ ಷರತ್ತಿನಂತೆ 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 ವಿದ್ಯಾನುಶಿಷ್ಟ ನಕ್ಷೆಗಳನ್ನು ಕ್ರೋಡೀಕರಿಸಿ ಯಾವುದೇ ಕಟ್ಟಡ ಮತ್ತು ಯಂತ್ರ ವಿದ್ಯಾನುಶಿಷ್ಟ ಅನುಮೋದನೆಗೊಳ್ಳದಿದ್ದಲ್ಲಿ ಅಥವಾ ಬದಲಾವಣೆಗಳಿದ್ದಲ್ಲಿ ಅವುಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ನಕ್ಷೆಗಳನ್ನು ಸಲ್ಲಿಸಿ ಅನುಮೋದನೆ ಪಡೆಯುವುದು.
3. ಕಾರ್ಖಾನೆಯಲ್ಲಿನ ಎಲ್ಲಾ ಕಟ್ಟಡ ಮತ್ತು ಸ್ವಚ್ಛಗೊಳಿಸುವ ಉಪಯೋಗಕ್ಕೆ ತೆಗೆದುಕೊಳ್ಳುವ ಪೂರ್ವದಲ್ಲಿ ದೃಢೀಕೃತ ಸಿವಿಲ್ ಇಂಜಿನಿಯರ್‌ಗಳಿಂದ ದೃಢೀಕರಣ ಪ್ರಮಾಣ ಪತ್ರಗಳನ್ನು ನಮೂನೆ-1ಎ ನಂತೆ ಪ್ರತ್ಯೇಕವಾಗಿ ಪಡೆದು ಕ್ಷೇತ್ರಾಧಿಕಾರಿಗಳಿಗೆ ಸಲ್ಲಿಸಿ, ನಂತರವೇ ಉಪಯೋಗಕ್ಕೆ ತೆಗೆದುಕೊಳ್ಳುವುದು.

ಇವುಗಳಿಗೆ ಅನುಮೋದನೆ ನೀಡಲಾಗಿದೆ
ಸಹಿ
ಸಹಾಯಕ ನಿರ್ದೇಶಕರು (ಕಾರ್ಮಿಕ ಸೇವೆ)
(76)