

**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 ***Bhilai Expansion Power Plant (2x250 MW)*** for the period from **01.04.2019 to 31.03.2024**.

**INDEX**

<b>Sl. No.</b>	<b>Description</b>	<b>Page No.</b>
1	Affidavit	1 – 2
2	Petition for Approval of Tariff of NSPCL Bhilai Expansion Plant (2x250 MW) for the period from 01.04.2019 to 31.03.2024	3 - 8
3	Appendix-I	9 - 93
4	Annexure- A – Form 15- Certified by Auditor.	94-96

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 of ***Bhilai Expansion Power Plant (2x250 MW)*** for the period from **01.04.2019** to **31.03.2024**.

**AND  
IN THE MATTER OF**

Petitioner: : NTPC SAIL POWER COMPANY LIMITED  
4<sup>th</sup> Floor, 15 Bhikaiji Cama Place  
New Delhi-110066

Respondents

1. Chief Engineer  
DNH Power Distribution Corporation Ltd.  
UT of DNH,  
Silvassa-396230
2. Executive Engineer  
Electricity Department,  
Administration of Daman & Diu,  
Daman-396210
3. The Managing Director  
CSPDCL  
Vidyut Sewa Bhawan ,  
Dagania , RAIPUR – 492001
4. Steel Authority of India Limited (SAIL)  
Ispat Bhavan,  
Lodhi road'new Delhi-110003



AFFIDAVIT



I, Tridib Deb, son of Shri M.C Deb aged about 55 years, resident of H-1602, Prateek Stylome, Sector - 45, Noida (U.P), do solemnly affirm and state as under:

1. That I am the GM (OS & Commercial) in NSPCL and am well conversant with the facts of the case and am competent to swear the present affidavit.
2. That I have read the contents of the accompanying Petition filed by NSPCL and have understood the contents of the same.
3. That the contents of the accompanying Petition being filed by NSPCL are based on information available with the petitioner in the normal course of business and believed by the deponent to be true.



*Tridib Deb*  
(Deponent)

**Verification:**

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

Verified at New Delhi on this *22* day of January 2020.

*Tridib Deb*  
(Deponent)



**ATTESTED**  
*[Signature]*  
NOTARY PUBLIC  
*22/1/20*

The Petitioner humbly states that:

- 1) The Petitioner herein is NTPC SAIL Power Company Limited (hereinafter referred to as 'NSPCL'), a company incorporated under the Companies Act, 1956, with registered office at NBCC Tower (4th Floor), 15, Bhikaji Cama Place, New Delhi -110066. NSPCL is a Joint Venture formed by NTPC Limited (NTPC) and Steel Authority of India Limited, Respondent No.4 (hereinafter referred to as SAIL), each having equity participation on 50: 50 basis. Further, NSPCL 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 NSPCL, 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) NSPCL is a Special Purpose Vehicle established, inter alia, to take over thermal power generating units mainly for the Captive Power requirements of SAIL. NSPCL took over Power Plants (CPPs-II) of total capacity 314 MW from SAIL to meet such captive requirements namely located at Durgapur Steel Plant (2 x 60 MW) in the State of West Bengal, at Rourkela Steel Plant (2 x 60 MW) in the State of Odisha and at Bhilai Steel Plant (2 x 30 MW + 1 x 14 MW) in the State of Chhattisgarh which meet the captive requirements of SAIL engaged in manufacture of steel located in the above three States.
- 4) Bhilai Expansion Power Plant (2 X 250 MW) of the Petitioner is a Central generating station in terms of section 2 (k) of CERC (IEGC) Regulations, 2010. The power generated from the Bhilai Expansion Power Plant is sold to SAIL/BSP and its other units and Respondents 1 to 3 which are distribution licensees in the respective States/Union Territories within the meaning of Section 14 of the Electricity Act, 2003. Supply of power from the generating units of the Bhilai Expansion Power Plant is governed as per terms and conditions of Power Purchase Agreements signed between Petitioner and Respondents.

5) 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 under Section 62 & 79 of the Electricity Act, 2003.

6) 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 Bhilai Expansio Power Plant (2x250 MW) for the period from 01.04.2019 to 31.03.2024 as per the Tariff Regulations 2019.

7) The tariff of the Bhilai Expansion Power Plant (2x250 MW) for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 02.08.2016 in Petition No. 257/GT/2014 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014. The petitioner vide affidavit dated 10.01.2020 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. The truing-up petition has been filed through e-filing portal of Hon'ble Commission and corresponding Diary No is 91/2020.

8) It is submitted that Hon'ble Commission vide order dated 02.08.2016 in Petition no 257/GT/2014 has allowed a capital cost of Rs 2783.65 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 aforesaid true-up petition as Rs 2771.70 Crs based on the actual expenditure after truing up exercise for the period 2014-19. Accordingly, the Petitioner has adjusted an amount of Rs. (-)14.50 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 2771.70 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.

- 9) The capital expenditure claimed in the instant petition is based on the opening capital cost as on 01.04.2019 considered as above and capital expenditures for the period 2019-24 have been projected based on the Regulation 19 and Regulation 24, 25 and of the Tariff Regulations, 2019.
- 10) 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 (*as applicable*) have been furnished below. Accordingly, water charges may be allowed in tariff based on the same for the 2019-24. In accordance with provision of the Regulations, the petitioner shall be furnishing the details of actual for the relevant year at the time of truing up and the same shall be subject to retrospective adjustment.

Description	Remarks
Type of Plant	Coal Based Power Plant
Type of cooling water system	Closed Circuit cooling water system
Consumption of Water	15291097 cubic meter
Rate of Water charges	Rs 12.25/Cubic meter
Total Water Charges	Rs 1873.16 Lakh

- 11) Similarly, the Petitioner is claiming the security expenses based on the estimated expenses for the period 2019-24. 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
- 12) 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.
- 13) It is submitted that the Petitioner has already paid the requisite filing fee vide UTR No. SBIN12019042400113497 on 24.04.2019 for the year 2019-20 and the details of the same have been duly furnished to the Hon'ble Commission vide our letter dtd 29.04.2019. 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.nspcl.co.in](http://www.nspcl.co.in)

- 16) It is submitted that the petitioner is filing this tariff petition subject to the outcome of various appeals/ petitions pending before different courts. Besides, the petitions filed by NSPCL 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 Bhilai Expansion Power Plant (2X250 MW) for the tariff period 01.04.2019 to 31.03.2024.
- ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.
- iii) Pass any other order as it may deem fit in the circumstances mentioned above.

  
**Petitioner**



**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- 4	Details of Foreign loans	✓
FORM- 4A	Details of Foreign Equity	✓
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	✓
FORM- 6	Financial Package upto COD	✓
FORM- 7	Details of Project Specific Loans	✓
FORM- 8	Details of Allocation of corporate loans to various projects	✓
FORM-9	Statement of Additional Capitalisation after COD	✓
FORM- 10	Financing of Additional Capitalisation	✓
FORM- 11	Calculation of Depreciation on original project cost	✓
FORM- 12	Statement of Depreciation	✓
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	✓
FORM- 15	Details of Fuel for Computation of Energy Charges <sup>1</sup>	✓
FORM- 16	Details of Limestone for Computation of Energy Charge Rate	✓
FORM-17	Details of Capital Spares	✓
FORM- 18	Non-Tariff Income	✓
FORM-19	Details of Water Charges	✓
FORM-20	Details of Statutory Charges	✓

**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	✓
FORM-B	Break-up of Capital Cost for Coal/Lignite based projects	✓
FORM-C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	✓
FORM-D	Break-up of Construction/Supply/Service packages	✓
FORM-E	Details of variables , parameters , optional package etc. for New Project	✓
FORM-F	Details of cost over run	✓
FORM-G	Details of time over run	✓
FORM -H	Statement of Additional Capitalisation during end of the useful life	✓
FORM -I	Details of Assets De-capitalised during the period	✓
FORM -J	Reconciliation of Capitalisation claimed vis-à-vis books of accounts	✓
FORM -K	Statement showing details of items/assets/works claimed under Exclusions	✓
FORM-L	Statement of Capital cost	✓
FORM-M	Statement of Capital Woks in Progress	✓
FORM-N	Calculation of Interest on Normative Loan	✓
FORM-O	Calculation of Interest on Working Capital	✓
FORM-P	Incidental Expenditure up to SCOD and up to Actual COD	✓
FORM-Q	Expenditure under different packages up to SCOD and up to Actual COD	✓
FORM-R	Actual cash expenditure	✓
FORM-S	Statement of Liability flow	✓
FORM-T	Summary of issues involved in the petition	✓

*Indisub sub*

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

Note 1: Electronic copy of the petition (in words format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.

*✓ verified sub.*

# APPENDIX-I

Summary of Tariff

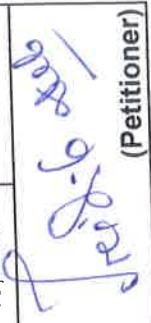
Summary of Tariff										PART-I FORM- 1
Name of the Petitioner:		NTPC SAIL POWER COMPANY LIMITED								
Name of the Generating Station:		BHILAI EXPANSION POWER PLANT (2x250 MW)								
Place (Region/District/State):		Western Region/Durg District/CHHATTISGARH								
S. No.	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	6	7	8	9	10		
1.1	Depreciation	Rs Lakh	14193.41	14,225.89	14,255.96	14,339.77	6,182.76	6,215.11		
1.2	Interest on Loan	Rs Lakh	5742.90	4,598.15	3,458.58	2,374.74	1,624.46	1,137.14		
1.3	Return on Equity	Rs Lakh	15823.79	15,053.22	15,078.48	15,135.21	15,189.93	15,202.10		
1.4	Interest on Working Capital	Rs Lakh	4898.15	4,065.76	4,092.19	4,120.15	4,031.54	4,069.64		
1.5	O&M Expenses	Rs Lakh	19553.84	20576.61	21389.02	22237.27	23139.77	24081.17		
1.6	Special Allowance (if applicable)	Rs Lakh	-	-	-	-	-	-		
1.7	Compensation Allowance (if applicable – relevant for column 4 only)	Rs. Lakh	-	-	-	-	-	-		
	<b>Total</b>	<b>Rs Lakh</b>	<b>60212.10</b>	<b>58519.63</b>	<b>58274.23</b>	<b>58207.13</b>	<b>50168.47</b>	<b>50705.16</b>		
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid) as per FSA approved by beneficiaries	Rs/Ton				NA				
	(%) of Fuel Quantity	(%)								
2.2	Landed Fuel Cost. Imported Coal as per FSA approved by beneficiaries					NA				
	(%) of Fuel Quantity									
2.3	Landed Fuel Cost ( coal/gas /RLNG/liquid) other than FSA	Rs/Ton				NA				
	(%) of Fuel Quantity	(%)								
2.4	Landed Fuel Cost Imported Coal other than FSA.					NA				
	(%) of Fuel Quantity									
2.5	Secondary fuel oil cost	Rs/Unit					0.0185			
	Energy Charge Rate ex-bus (Paise/kWh) 2A, 2B, 2C, 2D	Rs/Unit					2.347			
									 (Petitioner)	

Name of the Petitioner:		NTPC SAIL POWER COMPANY LIMITED							PART-I	
Name of the Generating Station: BHILAI EXPANSION POWER PLANT (2x250 MW)									FORM-1(I)	
Place (Region/District/State): Western Region/Durg District/CHHATTISGARH									(Amount in Rs Lakh)	
Statement showing claimed capital cost – (A+B)										
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24				
1	2		4	5	6	7				
1	Opening Capital Cost	2,77,170.39	2,77,563.86	2,78,343.16	2,80,831.76	2,81,644.76				
2	Add: Addition during the year/period	393.47	779.30	2,488.60	813.00	-				
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	2,77,563.86	2,78,343.16	2,80,831.76	2,81,644.76	2,81,644.76				
7	Average Capital Cost	2,77,367.13	2,77,658.86	2,77,953.86	2,78,153.86	2,78,153.86				
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		4	5	6	7				
1	Opening Capital Cost	2,77,170.39	2,77,563.86	2,77,753.86	2,78,153.86	2,78,153.86				
2	Add: Addition during the year / period	393.47	190.00	400.00	0.00	0.00				
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	2,77,563.86	2,77,753.86	2,78,153.86	2,78,153.86	2,78,153.86				
7	Average Capital Cost	2,77,367.13	2,77,658.86	2,77,953.86	2,78,153.86	2,78,153.86				

*Signature*

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		4	5	7	7
1	Opening Capital Cost	0	0	589.30	2677.90	3490.90
2	Add: Addition during the year / period	0	589.30	2088.60	813.00	0
3	Less: De-capitalisation during the year / period	0	0.00	0	0	0
4	Less: Reversal during the year / period	0	0.00	0	0	0
5	Add: Discharges during the year / period	0	0.00	0	0	0
6	Closing Capital Cost	0	589.30	2677.90	3490.90	3490.90
7	Average Capital Cost	0	294.65	1633.60	3084.40	3490.90
* Not applicable in the instant petition						
						Petitioner

Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED		PART-I				
Name of the Generating Station: BHILAI EXPANSION POWER PLANT (2x250 MW)		FORM-1(IIA)				
Place (Region/District/State): Western Region/Durg District/CHHATTISGARH		(Amount in Rs Lakh)				
Statement showing Return on Equity at Normal Rate:						
Sr	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		4	5	6	7
	Return on Equity		80,206.05	80,263.05	80,383.05	80,383.05
1	Gross Opening Equity (Normal)	80,088.01				
2	Less: Adjustment in Opening Equity					
3	Adjustment during the year	80,088.01	80,206.05	80,263.05	80,383.05	80,383.05
4	Net Opening Equity (Normal)	118.04	57.00	120.00	-	-
5	Add: Increase in equity due to addition during the year / period	0	0	0	0	0
7	Less: Decrease due to De-capitalisation during the year / period	0	0	0	0	0
8	Less: Decrease due to reversal during the year / period	0	0	0	0	0
9	Add: Increase due to discharges during the year / period	80,206.05	80,263.05	80,383.05	80,383.05	80,383.05
10	Net closing Equity (Normal)	80,147.03	80,234.55	80,323.05	80,383.05	80,383.05
11	Average Equity (Normal)	18.782%	18.782%	18.782%	18.782%	18.782%
12	Rate of ROE	15,053.22	15,069.65	15,086.28	15,097.54	15,097.54
13	Total ROE					

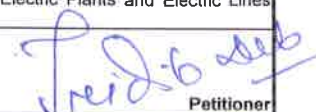
  
 (Petitioner)

		PART-I FORM- 1(IIB)						
Name of the Petitioner:		NTPC SAIL POWER COMPANY LIMITED						
Name of the Generating Station:		Bhilai Expansion Power Plant (2x250 MW)						
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		
<b>Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)</b>								
1	Gross Opening Equity (Normal)	-	-	176.79	803.37	1,047.27		
2	Less: Adjustment in Opening Equity	-	-	-	-	-		
3	Adjustment during the year	-	-	-	-	-		
4	Net Opening Equity (Normal)	-	-	176.79	803.37	1,047.27		
5	Add: Increase in equity due to addition during the year / period	-	176.79	626.58	243.90	-		
7	Less: Decrease due to De-capitalisation during the year / period	-	-	-	-	-		
8	Less: Decrease due to reversal during the year / period	-	-	-	-	-		
9	Add: Increase due to discharges during the year / period	-	-	-	-	-		
10	Net closing Equity (Normal)	-	176.79	803.37	1,047.27	1,047.27		
11	Average Equity (Normal)	-	88.40	490.08	925.32	1,047.27		
12	Rate of ROE (%)	9.9840%	9.9840%	9.9840%	9.9840%	9.9840%		
13	Total ROE	0.00	8.83	48.93	92.38	104.56		

*[Signature]*  
(Petitioner)



## Plant Characteristics

Name of the Petitioner	NTPC SAIL POWER COMPANY LIMITED	
Name of the Generating Station	BHILAI EXPANSION POWER PLANT (2x250 MW)	
Unit(s)/Block(s)/Parameters	Unit-1	Unit-2
Installed Capacity ( MW)	250	250
Schedule COD as per Investment Approval		
Actual COD /Date of Taken Over (as applicable)	22.04.2009	21.10.2009
Pit Head or Non Pit Head	Non Pit Head	
Name of the Boiler Manufacture	BHEL	
Name of Turbine Generator Manufacture	BHEL	
Main Steams Pressure at Turbine inlet (kg/Cm <sup>2</sup> ) abs <sup>1</sup> .		
Main Steam Temperature at Turbine inlet (°C) <sup>1</sup>		
Reheat Steam Pressure at Turbine inlet (kg/Cm <sup>2</sup> ) <sup>1</sup>		
Reheat Steam Temperature at Turbine inlet (°C) <sup>1</sup>		
Main Steam flow at Turbine inlet under MCR condition (tons /hr) <sup>2</sup>		
Main Steam flow at Turbine inlet under VWO condition (tons /hr) <sup>2</sup>		
Unit Gross electrical output under MCR /Rated condition (MW) <sup>2</sup>		
Unit Gross electrical output under VWO condition (MW) <sup>2</sup>		
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) <sup>3</sup>		
Conditions on which design turbine cycle heat rate guaranteed( kcal/kwhr)		
% MCR		
% Makeup Water Consumption		
Design Capacity of Make up Water System(% of throttle steam flow)		
Design Capacity of Inlet Cooling System		
Design Cooling Water Temperature (°C)		
Back Pressure(Average condenser pressure in mmHg(A))		
Steam flow at super heater outlet under BMCR condition (tons/hr)		
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm <sup>2</sup> )		
Steam Temperature at super heater outlet under BMCR condition (°C)		
Steam Temperature at Reheater outlet at BMCR condition (°C)		
Design / Guaranteed Boiler Efficiency (%) <sup>4</sup>		
Design Fuel with and without Blending of domestic/imported coal (GCV ) Domestic Design coal		
Blended Coal (Domestic Design 70%+ Imported 30%)		
Type of Cooling Tower		
Type of cooling system <sup>5</sup>		
Type of Boiler Feed Pump <sup>6</sup>		
Fuel Details <sup>7</sup>		
-Primary Fuel		
-Secondary Fuel		
-Alternate Fuels		
Types of SOX control system		
Types of NOX control system		
Details of SPM control system		
Special Features/Site Specific Features <sup>8</sup>		
Special Technological Features <sup>9</sup>		
Environmental Regulation related features <sup>10</sup>	1.ESP is provided 2.FGD under implementation	1 ESP is provided 2.FGD under implementation
Any other special features		
1: At Turbine MCR condition.		
2: with 0% (Nil) make up and design Cooling water temperature		
3: at TMCR output based on gross generation, 0% (Nil) makeup and design Cooling water temperature.		
4: With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR) out put		
5: Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.		
6: Motor driven, Steam turbine driven etc.		
7: Coal or natural gas or Naptha or lignite etc.		
8: Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. scrubbers etc. Specify all such features		
9: Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.		
10: Environmental Regulation related features like FGD, ESP etc.,		
Note 1: In case of deviation from specified conditions in Regulation, correction curve of manufacturer may also be submitted.		
Note 2: Heat Balance Diagram has to be submitted along with above information in case of new stations.		
Note 3: The Terms – MCR, BMCR, HHV, Performance coal, are as defined in CEA Technical Standards for Construction of Electric Plants and Electric Lines Regulations – 2010 notified by the Central Electricity Authority		
		 Petitioner

**Normative parameters considered for tariff computations**

**PART 1  
FORM-3**

Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED  
Name of the Generating Station: BHILAI EXPANSION POWER PLANT (2x250 MW)

Particulars	Unit	Existing 2018-19	(Year Ending March)										
			2019-20	2020-21	2021-22	2022-23	2023-24						
1													
Base Rate of Return on Equity	2	3	4	5	6	7	8						
	%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%
Base Rate of Return on Equity on Add. Capitalization*	%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%
Effective Tax Rate 4	%	21.549	17.472%	17.472%	17.472%	17.472%	17.472%	17.472%	17.472%	17.472%	17.472%	17.472%	17.472%
Target Availability	%	85	85	85	85	85	85	85	85	85	85	85	85
In High Demand Season	%	85	85	85	85	85	85	85	85	85	85	85	85
Peak Hours	%	85	85	85	85	85	85	85	85	85	85	85	85
Off-Peak Hours	%	85	85	85	85	85	85	85	85	85	85	85	85
In Low Demand Season(Off-Peak)	%	85	85	85	85	85	85	85	85	85	85	85	85
Peak Hours	%	85	85	85	85	85	85	85	85	85	85	85	85
Off-Peak Hours	%	85	85	85	85	85	85	85	85	85	85	85	85
Auxiliary Energy Consumption	%	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
Gross Station Heat Rate	kCal/kWh	2403.5	2,415.00	2,415.00	2,415.00	2,415.00	2,415.00	2,415.00	2,415.00	2,415.00	2,415.00	2,415.00	2,415.00
Specific Fuel Oil Consumption	ml/kWh	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Cost of Coal/Lignite for WC <sub>1</sub>	in days	60	50	50	50	50	50	50	50	50	50	50	50
Cost of Main Secondary Fuel Oil for WC <sub>1</sub>	in Months	2	2	2	2	2	2	2	2	2	2	2	2
Fuel Cost for WC <sub>2</sub>	in Months												
Liquid Fuel Stock for WC <sub>2</sub>	in Months												
O&M Expenses	Rs lakh / MW	30.51	32.96	34.12	35.31	36.56	37.84						
Maintenance Spares for WC	% of O&M		20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Receivables for WC	in days		45	45	45	45	45	45	45	45	45	45	45
Storage capacity of Primary fuel	MT		The existing storage capacity of primary fuel is approx. 30 days with both units operating at normative availability factor.										
SBI 1 Year MCLR plus 350 basis points	%		12.05%	12.05%	12.05%	12.05%	12.05%	12.05%	12.05%	12.05%	12.05%	12.05%	12.05%
Blending ratio of domestic coal/imported coal			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

\* Works under original scope within cut-off date.

*[Signature]*  
Petitioner

## Calculation of O&amp;M Expenses

Name of the Company : NTPC SAIL POWER COMPANY LIMITED  
Name of the Power Station : BHILAI EXPANSION POWER PROJECT ( 2 x 250 MW )

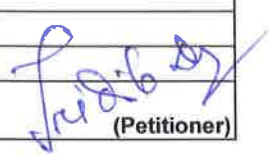
500  
Rs. Lakh

S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	O&M expenses under Reg.35(1)	16480.00	17060.00	17655.00	18280.00	18920.00
2	O&M expenses under Reg. 35(3)					
a	No. of KM of Double Circuit Line for Associated Transmission System	13.794	13.794	13.794	13.794	13.794
	Norm for O & M expenses in Rs. Lakh per Km for Associated Transmission System	0.881	0.912	0.944	0.977	1.011
	O&M Expense for 13.794 KM Double ckt Line for Associated Transmission System	12.15	12.58	13.02	13.48	13.95
b	Norm for O & M expenses per Bay for Associated Transmission System (400Kv)	32.15	33.28	34.45	35.66	36.91
	O&M Expense for 07(Seven) nos of Bays for Associated Transmission System	225.05	232.96	241.15	249.62	258.37
c	Norm for 400 KV Transformers (Rs Lakh per MVA)	0.358	0.371	0.384	0.398	0.411
	Norm for 220 KV Transformers (Rs Lakh per MVA)	0.245	0.254	0.263	0.272	0.282
	400 KV Generator Transformers -02 Nos , 315 MVA	225.54	233.73	241.92	250.74	258.93
	400 KV ICT 02 Nos, 315 MVA	225.54	233.73	241.92	250.74	258.93
	400 KV UAT 02 Nos, 50 MVA	35.80	37.10	38.40	39.80	41.10
	220 KV Station Transformers -02 Nos- 50 MVA	24.50	25.40	26.30	27.20	28.20
	Total Transmission Charges (Lines , Bays and Transformers)	748.58	775.50	802.71	831.58	859.48
3	Water Charges Deduction (Molhad Reservoir) @Rs 1.16 Lakhs/MW	580.00	580.00	580.00	580.00	580.00
4	O&M expenses under Reg. 35(1)					
4a	Water Charges	1873.16	1873.16	1873.16	1873.16	1873.16
4b	Capital Spared Consumed					
4c	Security Expenses	2054.87	2260.36	2486.39	2735.03	3008.54
5	Total O&M Expenses	20576.61	21389.02	22237.27	23139.77	24081.17

  
Petitioner

Details of Foreign loans (Details only in respect of loans applicable to the project under petition)													PART 1 FORM- 4	
Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED														
Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED														
Exchange Rate at COD or 31.03.2019, whichever is later													Exchange Rate as on 31.3.2019	
S. No	Financial Year (Starting from COD)	Year 1				Year 2				Year 3 and so on				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Date	Amount (Foreign Currency)	Relevant Exchange Rate	Amount (Rs. Lakh)	Date	Amount (Foreign Currency)	Relevant Exchange Rate	Amount (Rs. Lakh)	Date	Amount (Foreign Currency)	Relevant Exchange Rate	Amount (Rs. Lakh)		
Currency1:														
A.1	At the date of Drawl or at the beginning t													
2	Scheduled repayment date of principal													
3	Scheduled payment date of interest													
4	At the end of Financial year				Not Applicable									
B In case of Hedging:														
1	At the date of hedging													
2	Period of hedging													
3	Cost of hedging													
Currency2:														
A.1	At the date of Drawl:													
2	Scheduled repayment date of principal													
3	Scheduled payment date of interest													
4	At the end of Financial year													
14														
B In case of Hedging:														
1	At the date of hedging													
2	Period of hedging													
3	Cost of hedging													
Currency3: & so on														
A.1	At the date of Drawl:													
2	Scheduled repayment date of principal													
3	Scheduled payment date of interest													
4	At the end of Financial year													
B In case of Hedging:														
1	At the date of hedging													
2	Period of hedging													
3	Cost of hedging													
1. Name of the currency to be mentioned e.g. US\$, DM, etc. 2. In case of more than one drawl during the year, Exchange rate at the date of each drawl to be given. 3. Furnish details of hedging, in case of more than one hedging during the year or part hedging, details of each hedging are to be given 4. Tax (such as withholding tax) details as applicable including change in rates, date from which change effective etc. must be clearly indicated.														

P  
Ved/6/2019

Abstract of Admitted Capital Cost for the existing Projects		PART 1 FORM- 5	
Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED			
Name of the Generating Station: Bhilai Expansion Power Plant (2x250 MW)			
Last date of order of Commission for the project		02-08-2016	
Reference of petition no. in which the above order was pas	Petition no.	257/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)*	275920.76	
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		NIL	
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		NIL	
Gross Normative Debt		196131.10	
Cumulative Repayment		63347.79	
Net Normative Debt		132783.31	
Normative Equity		79789.66	
Cumulative Depreciation		63347.79	
Freehold land		NIL	
			 (Petitioner)

**Financial package upto COD**

Name of the Company  
Name of the Power Station  
NTPC SAIL POWER COMPANY LIMITED  
BHILAI EXPANSION POWER PROJECT ( 2 x 250 MW)

Project Cost as on COD  
Date of Commercial Operation of the Station<sup>4</sup>  
Debt : Equity Ratio  
2,24,012.74 in Rs Lacs  
21-Oct-09  
70:30

	(Amount in Rs Lacs)						
	1	2	3	4	5	6	7
	Financial Package as approved * Currency and Amount <sup>3</sup>	Financial Package as on 21 October 2009 Currency and Amount <sup>3</sup>	Financial Package as on 21 October 2009 Currency and Amount <sup>3</sup>	As Admitted on COD Currency and Amount <sup>3</sup>			
Loans-							
Central Bank Of India	INR 10,000.00	INR 10,000.00	INR 10,000.00	INR 10,000.00	INR	INR	10000
Union Bank Of India	INR 44,500.00	INR 44,500.00	INR 44,500.00	INR 44,500.00	INR	INR	44500
Rural Electrification Corporation Ltd.(REC)	INR 1,28,500.00	INR 1,28,500.00	INR 1,18,500.00	INR 1,18,500.00	INR	INR	118500
Loan II-Union Bank of India	INR 11,000.00	INR 11,000.00	INR 11,000.00	INR 11,000.00	INR	INR	11000
Total loan		1,94,000.00	1,94,000.00	1,84,000.00			184000
Equity-							
Foreign		NIL	NIL	NIL	NIL	NIL	NIL
Domestic	INR 90466	INR 90466	INR 90466	INR 80,000.00	INR	INR	80000
Total Equity		90466	90466	80,000.00			80000
Debt Equity ratio *		70:30	70:30				

\*The proposed debt equity ratio for the project is 70 :30 . While equity of the project on estimate basis has been completely tied up, balance loan shall be tied up shortly for the additional capitalisation.

<sup>2</sup> Date of Commercial operation means Commercial Operation of Last unit

<sup>3</sup> For Example : US\$,200M etc

*For 2009*

PETITIONER

### Details Of Project Specific Loans

Name of the Company: NTPC SAIL POWER COMPANY LIMITED  
 Name of the Power Station: BHILAI EXPANSION POWER PROJECT ( 2 x 250 MW)

		(Amount in Rs Lacs)				
Source of Loan		Union Bank of India	Central Bank of India	HDFC BANK LTD	REC	Union Bank of India Loan-II
Currency		INR	INR	INR	INR	INR
Amount of Loan Sanctioned		44500	10000	26,557.15	128500	11000
Amount of Gross loan drawn till date		44500	10000	26557.15	128500	11000
Interest Type		FIXED WITH RESET AFTER EVERY 5 YEAR	FIXED WITH RESET AFTER EVERY 5 YEAR	FIXED	FIXED	Floating
Fixed Interest Rate, if applicable		7.02% (upto 30.03.2010) 9.43% (upto 01.04.2016) 9.50% (w.e.f 01.04.2016)	7.02% (upto 12.03.2011) 0.07 % (w.e.f. 13.03.2011-01.09.2016) 9.35% (w.e.f 01.09.2016)	7.95% (Upto 11.06.2018) 8.25% (Upto 11.12.2018) 8.55% (Upto 15.03.2019)	8% on 21500 lacs 9% on balance loan	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year
MCLR/Base Rate, if Floating Interest Margin, if floating Interest		8.50% 1%	N/A No	N/A No	N/A No	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year
Are there any Caps/Floor		N/A	N/A	N/A	N/A	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year
Moratorium Period		4 years	12 mths	*	*	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year
Moratorium effective from		Date of 1st disbursement	Date Of Commercial operation ^	*	*	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year
Repayment Period		44 quarterly installments	44 quarterly installments	2 annual instalments	10 annual instalments	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year
Repayment effective from		01-Jul-09	01-Jan-11	15-Mar-18	15-Mar-10	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year
Repayment Frequency		Quarterly	Quarterly	Annually	Annually	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year
Last 1 (one) repayment Installment		1,011.36	227.00	13,278.57	26,557.15	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year
Last installment		1,011.37	239.00	N/A	26,557.15	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year
Base Exchange Rate		N/A	N/A	N/A	N/A	9.50% (w.e.f 20.02.2017) presently 10.25 % ** (+)1% NA 1 year

<sup>1</sup> Fixed for first fiveyears from the date of first drawal and to be reset thereafter , after every 5 years at 200 bps above 5-year G-sec paper prevailing then

<sup>2</sup> Moratorium period ending at the earlier of

(i) four year from the date of first disbursement or

(ii) six months from the date of commissioning of the project

Details for the total project given in this form i.e. both the units, as project funding is on total project basis and not unit wise

Date of drawal of each loan till date given in Annexure 7(a)

<sup>3</sup> \*\* Upto 06.03.2012, the rate of interest was BPLR-0.75%. The present rate of Base Rate+1% is wef 07.03.2012

<sup>1</sup> Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

<sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.

<sup>3</sup> Details are to be submitted as on 31.03.2009 for existing assets and as on COD for the remaining assets.

<sup>4</sup> Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given seperately in the

<sup>5</sup> if the Tariff in the petition is claimed seperately for various units, details in the Form is to be given seperately for all the units in the same form.

<sup>6</sup> Interest type means whether the interest is fixed or floating.

<sup>7</sup> Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be

<sup>8</sup> Margin means the points over and above the floating rate.

<sup>9</sup> At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

<sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.

<sup>11</sup> Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

<sup>12</sup> Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

<sup>13</sup> Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given seperately

<sup>14</sup> If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished seperately.

<sup>15</sup> In case of Foreign loan, date of each drawal & repayment alongwith exchange rate at that date may be given.

<sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2009 for existing assets and as on COD for the remaining assets.

<sup>17</sup> In case of Hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.

<sup>18</sup> At the time of truing up of rate of interest with relevant reset date (if any) to be furnished seperately.

<sup>19</sup> At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

*Freidib*


**PETITIONER**



Name of the Petitioner Name of the Generating Station	Details of Allocation of corporate loans to various projects					

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Source of Loan <sup>1</sup>	Not Applicable					
Currency <sup>2</sup>						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2019/COD <sup>3,4,5,13,15</sup>						
Interest Type <sup>6</sup>						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest <sup>7</sup>						
Margin, if Floating Interest <sup>8</sup>						
Are there any Caps/Floors <sup>9</sup>						
If above is yes, specify caps/floor						
Moratorium Period <sup>10</sup>						
Moratorium effective from						
Repayment Period <sup>11</sup>						
Repayment effective from						
Repayment Frequency <sup>12</sup>						
Repayment Instalment <sup>13,14</sup>						
Base Exchange Rate <sup>16</sup>						
Are foreign currency loan hedged?						
If above is yes, specify details <sup>17</sup>						
Name of the Projects						
Project 1						
Project 2						
Project 3 and so on						
Note:						

1. Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
2. Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
3. Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately if applicable.
5. If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.
6. Interest type means whether the interest is fixed or floating.
7. Base rate means the base as PLR, MCLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.
8. Margin means the points over and above the floating rate.
9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
10. Moratorium period refers to the period during which loan servicing liability is not required.
11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half-yearly, annual, etc.
13. Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately.
14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
15. In case of Foreign loan, date of each drawl & repayment along with exchange rate at that date may be given.
16. Base Exchange Rate means the exchange rate prevailing as on 31.03.2019 or COD, whichever is later
17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
18. In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.
19. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately
20. At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.


  
 25/03/19  
 25

Petitioner

Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED  
Name of the Generating Station: BHILAI EXPANSION POWER PLANT (2x250 MW)  
COD: 21.10.2009

For Financial Year		2019-20					Regulations under which claimed	Justification	Admitted Cost by the Commission, if any (Rs in lakhs)
Sl. No.	Head of Work / Equipment	Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3				
1	2	3	4	5= (3B-4)	6	7	8	9	
<b>A Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>									
1	Ash Dyke Raising [Logoon-1]	250.00	0.00	250.00	0.00	26 (1) (e)	The Ash dyke Raising have already approved by CERC in tariff period 2014-19. This is Spillover amount of balance work and the work is under progress. Dyke was charged on 28.03.2019 and the balance work for drain, road, turfing etc. are in progress	613.91	
2	Construction of concrete paving for wagon inspection at MGR	11.00	0.00	11.00	0.00	14(3)(iii) of Tariff Regulations 2014	The Construction of Walkway /concrete paving for wagon inspection at MGR of NSPCL expansion have already approved by CERC in tariff period 2014-19 in Order dated 02.08.2016 in petition no 257/GT/2014. This is Spillover amount of balance work and the work is under progress.	44	
3	Implementation of Automatic Generation Control (AGC)	98.00	0.00	98.00	0.00	26 (1)(b)	As per Hon'ble CERC order dated 28.08.19 Order in Petition No. 319/RC/2018, Fiber optic communication from Regional Entity generating station to nearest CTU node and from there on to RLDCs/ NLDC is a must and it could be closely monitored through the RPC forums. In accordance with above Hon'ble Commission may be pleased to allow the expenditure under change in Law. Order of Hon'ble CERC is Attached at Annexure-I.		
4	Bomb Calbrimeter	34.47	0.00	34.47	0.00	14(3)(iii) of Tariff Regulations 2014	This item was allowed by Hon'ble Commission in Tariff Order dated 02.08.2016 in petition no. 257/GT/2014. The item was capitalised in April 2019 and Hon'ble Commission may please to kindly allow the same.	25	

*For 2-6 sub*


Total A	393.47	0.00	393.47	0.00
<b>B</b>	<b>Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>			
NIL				
Total B	0	0	0	0
<b>TOTAL Add Cap Claimed (A+B)</b>	<b>393.47</b>	<b>0.00</b>	<b>393.47</b>	<b>0.00</b>
 (Petitioner)				

										PART-I
										FORM-9A
										Amount in Rs. Lakh
Year wise Statement of Additional Capitalisation after COD										
Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED										
Name of the Generating Station: BHILAI EXPANSION POWER PLANT (2x250 MW)										
COD : 21.10.2009										
For Financial Year										
2020-21										
Sl. No.	Head of Work /Equipment	Accrual basis	ACE Claimed			Regulations under which claimed	Justification	Admitted Cost by the Commission, if any( Rs in lakhs)		
			Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3					
1	2	3	4	5= (3B-4)	6	7	8	9		
<b>A Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>										
1	Ash Dyke Raising [Lagoon-1]	50.00	0.00	50.00	0.00	26 (1) (e )	The Ash dyke Raising have already approved by CERC in tariff period 2014-19. This is Spillover amount of balance work and the work is under progress. Dyke was charged on 28.03.2019 and the balance work for drain, road, turfing etc. are in progress	613.91		
2	Compressor for Ash Evacuation System	100.00	0.00	100.00	0.00	26(1)(b) & 26(1)(e )	As per Directive of Environment authorities, 100 % Ash utilisation is compulsory. MoEF Notification in this regard is attached herewith As Annexure-II-a. Also renewal of Consent letter from Chhattisgarh Environment Conservation Board dated 21.03.2018 (Attached as Annexure-II-b) has mandated 100% Ash Utilization. For achieving the same, 100 % ash evacuation is required. To implement the statutory directive, it is urgently required to strengthen the existing ash evacuation system by installing one compressor and d air drying unit . In view of the urgent requirement to fulfill the mandate of notification, Hon'ble Commission may be pleased to allow the expenditure under change in Law.			

2020-21

3	Zero Liquid Discharge System	40.00	0.00	40.00	0.00	26 (1) (b)	As per para 4 of the water consent of Chhattisgarh Environment Conservation Board dated 21.03.2018, station has to maintain zero liquid discharge (Attached as Annexure-II). The works to be executed under this head will fulfill to achieve the mandate of statutory rules and therefore Hon'ble Commission may be pleased to allow the same under Change in Law.
<b>Total A</b>		190.00	0.00	190.00	0.00		
<b>B Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>							
1	LT ACB retrofitting	60.00	0.00	60.00	0.00	26 (1) (d)	In order to ensure safety and as per the recommendation of NTPC OS, drives more than 100 kw, are to be retrofitted with LT ACB to avoid flash over for safety of equipment as well as safety of Personnel. May please be allowed by the Hon'ble Commission in view of safety point of view. Recommendation is attached as Annexure IV.
2	FOAM TENDER	64.00	0.00	64.00	0.00	26 (1)(d)	As per recommendation of standing advising committee (Ministry of Home affairs) and as per letter dated 07.05.2019 from Dy Commadnat, CISF (Attached at Annexure-V), for procurement of Foam tender foam & Fire tender has to be procured in view of safety. Hon'ble Commission may be pleased to allow the same under the head of safety and security of the plant.
3	INSTALLATION OF SECURITY CCTV SYSTEM	150.00	0.00	150.00	0.00	26 (1)(d)	As per Point No. 2 of Audit Recommendation of Security Review Meeting with CISF, Security Surveillance to be done through CCTV. Thus the same as being recommended by CISF may please be allowed by the Hon'ble Commission under safety & security head. Relevant Document is attached as Annexure-VI.
4	Hydraulic platform system for Safety as per Recommendation	74.00	0.00	74.00	0.00	26 (1)(d)	As per standard Electrical Safety procedure, it is recommended to install Hydraulic platform system for safety point of view. Thus Hon'ble Commission may please to allow the same under the Regulations. Relevant Document is Attached as Annexure-VII.
5	CISF -Fire, Fire Fighting Equipments and System	11.30	0.00	11.30	0.00	26(1)(d)	As per recommendation of CISF vide letter dated 19.07.2019 Fire fighting equipments for safet and security of the plant may please be allowed by Hon'ble Commission. (Recommendation is attached as Annexure-VIII).

*[Handwritten Signature]*

6	Dozer model BD 155	230.00	0.00	0.00	230.00	0.00	0.00	0.00	0.00	0.00	0.00	As per OEM , the life of the Dozer is 10 years. Since inception, the dozers are running. Replacement of Dozers will be done in phased manner. May please be allowed by the Hon'ble Commission for procurement of 01 Dozer. Relvant communication from OEM regarding life of Dozer is attached herewith as Annexure-IX.
<b>Total B</b>		589.30	0.00	589.30	779.30	0.00	779.30	0.00	0.00	0.00	0.00	
<b>TOTAL Add Cap claimed (A+B)</b>		779.30	0.00	779.30	779.30	0.00	779.30	0.00	0.00	0.00	0.00	
 (Petitioner)												


Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED  
Name of the Generating Station: BHILAI EXPANSION POWER PLANT (2x250 MW)  
COD : 21.10.2009

For Financial Year: 2021-22

Sl. No.	Head of Work /Equipment	ACE Claimed					Regulations under which claimed	Justification	Admitted Cost by the Commission, if any( Rs in lakhs)
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	5= (3B-4)			
1	2	3	4	5= (3B-4)	6	7	8	9	
A	Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1	CLO2 SYSTEM	400.00	0.00	400.00	0.00	Regulation 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. F. For safety of public NSPCL is replacing the chlorination sytem with ClO2 system. Accordingly, Hon'ble Commission may be pleased to allow the same under Reg. 26(1)(d) &26(1)(b)	9	
	Total A	400.00	0.00	400.00	0.00				
B	Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
1	IP BLADE ROTOR	1,600.00	0.00	1,600.00	0.00	Regulation 76	Design of NSPCL IP rotor is different from other 250 MW units at NTPC and the same may not be matched with pool list.No spare rotor available for IP module of 250MW unit and lead time is high.May be allowed by the Hon'ble Commission in view of for improving system reliability and reduce downtime of the units.		
2	FIRE TENDER	64.00	0.00	64.00		26 1(d))	Same as Item No 2 of Form 9A for Year 2020-21		
3	CISF -Fire Safety related Items as per CISF Recommendation	12.60	0.00	12.60	0.00	26 (1) (d)	Same as Item No 5 of Form 9A for Year 2020-21		

*For Page 31*

4	Installation of Economiser coil handling platform	412.00	0.00	412.00	0.00	26(1)(d) read with Regulation 76 & 77	The operation of the plant is more than 10 years and there is requirement of replacement & repair of economiser coils in boiler. Hence, Platform is compulsory for lifting and replacement of economizer tubes for safety. May be allowed by the Hon'ble Commission in view of for improving system reliability and safety point of view.	
	<b>Total B</b>	<b>2,088.60</b>	<b>0.00</b>	<b>2,088.60</b>	<b>0.00</b>			
	<b>TOTAL Add Cap claimed (A+B)</b>	<b>2,488.60</b>	<b>0.00</b>	<b>2,488.60</b>	<b>0.00</b>			
								 (Petitioner)



Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED  
Name of the Generating Station: BHILAI EXPANSION POWER PLANT (2x250 MW)  
COD : 21.10.2009

For Financial Year: 2022-23

Sl. No.	Head of Work /Equipment	ACE Claimed				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any (Rs in lakhs)
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5= (3B-4)	6	7	8	9
<b>A Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>								
	Nil							
	Total (A)	0	0	0	0			
<b>B Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of interest</b>								
1	HMI UPGRADATION OF MAX DNA DCS	400.00	0.00	400.00	0.00	25 (2)(C) r/w Regulation 76 & 77	As per the original Scope of work, Max DNA System supplied by M/s OEM based on windows Xp workstations in MAX Dna DCS. Windows Xp has been declared obsolete by Microsoft. M/s OEM BHEL has also recommended the HMI Upgrade. This UPGRADATION OF MAX DNA DCS is compulsory for reliable operation of Units. Communication from OEM BHEL and relevant document isn support of proof are attached as Annexure-X	
2	Installation of Economiser coil handling platform	413.00	0.00	413.00	0.00	26(1)(d) read with regulation 76 & 77	The operation of the plant is more than 10 years and there is requirement of replacement & repair of economiser coils in boiler. Hence, Platform is compulsory for lifting and replacement of economizer tubes for safety. May be allowed by the Hon'ble Commission in view of for improving system reliability and safety point of view.	
	Total B	813.00	0.00	813.00	0.00			
	TOTAL Add cAp Claimed (A+B)	813.00	0.00	813.00	0.00			

*Handwritten signature*



**Financing of Additional Capitalisation**

Name of the Petitioner: **NTPC SAIL POWER COMPANY LIMITED** PART 1  
 Name of the Generating Station: **Bhilai Expansion Power Plant (2x250 MW)** FORM- 10

COD: 21.10.2009 (Amount in Rs Lakh)

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

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

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

(Petitioner)

*Handwritten signature in blue ink: J. S. S. S.*

**Calculation of Depreciation****Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED****Name of the Generating Station: Bhilai Expansion Power Plant (2x250 MW)**

Sl.No.	Name of the Assets <sup>1</sup>	Gross Block as on 01.04.2019 as on COD	Depreciation Rates as per CERC's Depreciation Rate Schedule	(Amount in Rs Lakh) Depreciation Amount
1	2	3	4	5= Col.2 X Col.3
1	Leasehold Land	8916.6	3.34	297.81
2	Roads, Bridges, Culverts & Helipads	2173.4	3.34	72.59
3	Main Plant Buildings	5606.41	3.34	187.25
4	Other Buildings	22959.82	3.34	766.86
5	Temporary Erection	43.33	100	43.33
6	Water Supply, Drainage & Sewerage	2504.34	5.28	132.23
7	MGR Track & Signalling System	5565.64	5.28	293.87
8	Plant & Machinery	213034.65	5.28	11248.23
9	Furniture & Fixtures	2046.55	6.33	129.55
10	Other Office Equipments	199.98	6.3	12.66
11	EDP, WP Machines & SATCOM Equipm	347.77	15	52.17
12	Vehicles including Speedboats	29.47	9.5	2.8
13	Construction Equipment	452.87	9.5	43.02
14	Electrical Installations	1089.1	5.28	57.5
15	Communication Equipment	322.38	6.33	20.41
16	Hospital Equipment	9.43	5.28	0.5
17	Laboratory & Workshop Equipment	1335.91	5.28	70.54
18	Software	71.49	33.34	23.83
19	Capex on assets not owned by the comp	979.17	25.0000	244.79
20	Unserviceable/Obsolete assets	0	25	0
21	CAP. Spares_I.GAAP	2363.46	5.28	124.79
22	C. Spares_Ind AS	938.03	5.28	49.53
23	Major Repair&Overhaling	5245.35	5.28	276.95
24	Mohad Reservoir-Industrial Water	11000	5.28	580.8
	<b>Total</b>	<b>287235.15</b>	<b>5.13</b>	<b>14732.01</b>

(Petitioner)

**Statement of Depreciation**

**Name of the Petitioner : NTPC SAIL POWER COMPANY LIMITED**  
**Name of the Generating Station: Bhilai Expansion Power Plant (2x250 MW)**

**Part-I**  
**Form-12**

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	(Amount in Rs Lakh)		
						2022-23	2023-24	
1	Opening Capital Cost	276659.93	2,77,170.39	2,77,563.86	2,78,343.16	2,80,831.76	2,81,644.76	2,81,644.76
2	Closing Capital Cost	277170.39	2,77,563.86	2,78,343.16	2,80,831.76	2,81,644.76	2,81,644.76	2,81,644.76
3	Average Capital Cost	276915.16	2,77,367.13	2,77,953.51	2,79,587.46	2,81,238.26	2,81,644.76	2,81,644.76
4	Freehold land	0.00	-	-	-	-	-	-
4a	IT Equipments & Software		419.26	419.26	419.26	419.26	419.26	419.26
5	Rate of depreciation	5.13%	5.13	5.13	5.13			
6	Depreciable value	249223.64	249672.34	250200.09	251670.64	253156.36	253522.21	253522.21
7.	Balance useful life at the beginning of the period	16.31	15.31	14.31	13.31	12.31	11.31	11.31
8	Remaining depreciable value	129192.09	1,15,447.38	1,01,749.23	88,963.83	76,109.78	70,292.87	70,292.87
9	Depreciation (for the period)	14,193.41	14,225.89	14,255.96	14,339.77	6,182.76	6,215.11	6,215.11
10	Depreciation (annualised)	14193.41	<b>14,225.89</b>	<b>14,255.96</b>	<b>14,339.77</b>	<b>6,182.76</b>	<b>6,215.11</b>	<b>6,215.11</b>
11.	Cumulative depreciation at the end of the period	134224.96	1,48,450.85	1,62,706.82	1,77,046.58	1,83,229.34	1,89,444.45	1,89,444.45
12.	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	0		-	-	-	-	-
13.	Less: Cumulative depreciation adjustment on account of de-capitalisation	0		-	-	-	-	-
14.	Net Cumulative depreciation at the end of the period	134224.96	1,48,450.85	1,62,706.82	1,77,046.58	1,83,229.34	1,89,444.45	1,89,444.45

*Feed-6*  
(Petitioner)

## Calculation of Interest on Actual loan

Name of the Company: NTPC SAIL POWER COMPANY LIMITED

Name of the Power Station: BHILAI EXPANSION PLANT (2x250 MW)

Sl.No.	Particulars	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>1</b>	<b>Central Bank Of India-100 cr</b>						
	Gross loan-Opening *	10,000					
	Cumulative repayments of Loans upto previous year	10,000					
	Net Loan-Opening	0					
	Increase/Decrease due to FERV						
	Increase/Decrease due to ACE						
	<b>Total</b>	-					
	Add: Drawl's) during the Year						
	Less :Repayments of loans during the year						
	Net Loan-Closing	-					
	Average Net Loan	-					
	Rate of Interest on Loan with quarterly rest	9.35%					
	Interest on Loan	-					
<b>2</b>	<b>Union Bank Of India-445 cr</b>						
	Gross loan-Opening *	44,500					
	Cumulative repayments of Loans upto previous year	44,500					
	Net Loan-Opening	0					
	Increase/Decrease due to FERV						
	Increase/Decrease due to ACE						
	<b>Total</b>	0					
	Add: Drawl's) during the Year						
	Less :Repayments of loans during the year	-					
	Net Loan-Closing	0					
	Average Net Loan	0					
	Rate of Interest on Loan with quarterly rest	9.50%					
	Interest on Loan	0					
<b>3</b>	<b>Rural Electrification Corporation Ltd.</b>						
	Gross loan-Opening *	-					
	Cumulative repayments of Loans upto previous year	-					
	Net Loan-Opening	-					
	Increase/Decrease due to FERV						
	Increase/Decrease due to ACE						
	<b>Total</b>	-					
	Add: Drawl's) during the Year						
	Less :Repayments of loans during the year	-					
	Net Loan-Closing	-					
	Average Net Loan	-					
	Rate of Interest on Loan **						
	Interest on Loan	-					
<b>3</b>	<b>Rural Electrification Corporation Ltd.</b>						
	Gross loan-Opening *	-					
	Cumulative repayments of Loans upto previous year	-					
	Net Loan-Opening	-					
	Increase/Decrease due to FERV						
	Increase/Decrease due to ACE						
	<b>Total</b>	-					
	Add: Drawl's) during the Year						
	Less :Repayments of loans during the year	-					
	Net Loan-Closing	-					
	Average Net Loan	-					
	Rate of Interest on Loan **						
	Interest on Loan	-					

Shall be submitted at the time of true-up.





Name of the Petitioner Name of the Generating Station		Draw Down Schedule for Calculation of IDC & Financing Charges						PART 1 FORM- 14	
S. No.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter n (COD)	
		Quantum in Foreign currency	Rate on draw	Indian Rupee	Quantum in Foreign currency	Rate on draw	Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date
1	Loans	<b>Not Applicable</b>							
1.1	Foreign Loans								
1.1.1	Foreign Loan 1								
	Draw down								
	Amount								
	IDC								
	Financing charges								
	Foreign Exchange								
	Rate Variation								
	Hedging Cost								
1.1.2	Foreign Loan 2								
	Draw down								
	Amount								
	IDC								
	Financing charges								
	Foreign Exchange								
	Rate Variation								
	Hedging Cost								
1.1.3	Foreign Loan 3								
	Draw down								
	IDC								
	Financing charges								
	Foreign Exchange								
	Hedging Cost								
1.1.4	--								
	--								
	--								
1.1	Total Foreign Loans Draw down Amount								
	IDC								
	Financing charges								
	Foreign Exchange								
	Hedging Cost								
1.2	Indian Loans								
1.2.1	Indian Loan 1								
	Draw down								
	IDC								
	Financing charges								
1.2.2	Indian Loan 2								
	Draw down								
	IDC								
	Financing charges								
1.2.3	Indian Loan 3								
	Draw down								
	IDC								
	Financing charges								
1.2.4	--								
	--								
1.2	Total Indian Loans Draw down Amount								
	IDC								
1	Total of Loans drawn IDC								
	Financing charges								
	Foreign Exchange								
	Hedging Cost								
2	Equity								
2.1	Foreign equity drawn								
2.2	Indian equity drawn								
	Total equity deployed								
Note:									
1. Drawl of debt and equity shall be on pari-passu basis quarter wise to meet the commissioning schedule. Drawl of higher equity in the beginning is permissible									
2. Applicable interest rates including reset dates used for above computation may be furnished separately									
3. In case of multi unit project details of capitalization ratio used to be furnished.									

  
 (Petitioner)



Details of Source wise Fuel for Computation of Energy Charges

S. No.		Month	Unit	October'18		November'18		December'18	
				FSA	E-auction	FSA	E-auction	FSA	E-auction
<b>Name of the Petitioner</b> <b>Name of the Generating Station</b>									
NTPC SAIL POWER COMPANY LIMITED Bhilal Expansion Power Plant (2x250 MW)									
<b>OPENING QUANTITY</b>									
A)	1	Opening Quantity of Coal/Lignite	(MMT)	-2011.03	0.00	-1939.19	-0.67	20,726.52	7,503.38
	2	Value of Stock		-5897828.59	0.00	-5035299.36	-3826.41	5,76,52,127.97	4,23,01,899.29
<b>QUANTITY</b>									
B)	3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)	185198.42	11007.39	222715.44	7564.57	1,78,012.94	-
	4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)						
	5	Coal supplied by Coal/Lignite Company (3+4)	(MMT)	185198.42	11007.39	222715.44	7564.57	1,78,012.94	-
	6	Normative Transit & Handling Losses (For	(MMT)	1481.59	88.06	1781.72	60.52	1,424.10	-
	7	Net coal / Lignite Supplied (3-4)	(MMT)	183716.83	10919.33	220933.72	7504.05	1,76,588.84	-
<b>PRICE</b>									
C)	8	Amount charged by the Coal /Lignite Company	(Rs.)	330984389.27	45081815.36	418238254.71	27296882.14	39,17,62,388.78	-
	9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)						
	10	Handling, Sampling and such other similar charges	(Rs.)	5101772.78	303227.22	5227448.76	177551.24	54,05,000.00	-
	11	Total amount Charged (8+9+10)	(Rs.)	336086162.05	45385042.58	423465703.48	27474433.38	39,71,67,388.78	-
<b>TRANSPORTATION</b>									
D)	12	Transportation charges by rail/ship/road transport	(Rs.)	137850477.00	16826208.00	186845789.00	14699819.00	17,11,05,914.00	-
By Road				137850477.00	16826208.00	186845789.00	14699819.00	17,11,05,914.00	-
By Ship				0.00	0.00	0.00	0.00	-	-
	13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0	0	0	0	-	-
	14	Demurrage Charges, if any	(Rs.)						
	15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	377765.99	224534.01	3870826.68	131473.32	40,02,300.00	-
	16	Total Transportation Charges (12+13+14+15)	(Rs.)	141628242.99	17050742.01	190716615.68	14831292.32	17,51,08,214.00	-
	17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Rs.)	477714405.04	62435784.59	614182319.15	42305725.70	57,22,75,602.78	-
<b>TOTAL COST</b>									
E)	18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs./MT	2596.60	5717.91	2781.56	5637.71	3,192.49	5,637.71
	19	Blending Ratio (FSA/E-auction)		94.39	5.61	100.00	0.00	100.00	0.00
	20	Weighted average cost of coal/ Lignite for preceding three months	Rs./MT	2771.78		2781.56		3192.49	
<b>QUALITY</b>									

*Handwritten signature/initials*

Details of Source wise Fuel for Computation of Energy Charges

**NTPC SAIL POWER COMPANY LIMITED**  
**Bhilai Expansion Power Plant (2x250 MW)**

Name of the Petitioner  
Name of the Generating Station

S. No.	Month	Unit	October'18			November'18			December'18		
			Domestic			Domestic			Domestic		
			FSA	E-auction		FSA	E-auction		FSA	E-auction	
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	NA	NA	NA	3,968.15	3,459.37	3,968.15	3,459.37	3,968.15	3,459.37
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)				3,418.77	3,703.97	3,734.56			
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)	-	-	-	-	-	-	-	-	-
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)	-	-	-	-	-	-	-	-	-
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)				3,418.77		3,779.62			
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3460.49	0.00	0.00	3,655.18	3,137.20	3,264.74	3,137.20	3,264.74	2,662.02
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	3655.18	3137.20	3137.20	3,264.74	2,662.02	3,330.04			
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)	-	-	-	-	-	-	-	-	-
29	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)	-	-	-	-	-	-	-	-	-
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)				3626.12		3264.74			3819.62

*(Petitioner)*

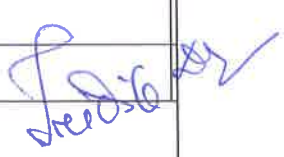
Name of the Petitioner		Details of Limestone for				PART 1
Name of the Generating Station		Computation of Energy Charge Rate				FORM- 16
S. No.	Month	Unit	For preceding	For preceding	For preceding	
			3rd Month (from COD or from 1.4.2019 as the case may be )	2nd Month (from COD or from 1.4.2019 as the case may be )	1st Month (from COD or from 1.4.2019 as the case may be )	
1	Quantity of Limestone supplied by Limestone supply Company	(MMT)				
2	Adjustment (+/-) in quantity supplied made by Limestone supply Company	(MMT)				
3	Limestone supplied by Limestone supply Company(1+2)	(MMT)				
4	Net Limestone Supplied (3-4)	(MMT)				
5	Amount charged by the Limestone supply Company	(Rs.)				
6	Adjustment (+/-) in amount charged made by Limestone supply Company	(Rs.)				
7	Total amount Charged (6+7)	(Rs.)				
8	Transportation charges by rail/ship/road transport	( Rs.)				
9	Adjustment (+/-) in amount charged made by Railways/Transport Company	( Rs.)				
10	Demurrage Charges, if any	( Rs.)				
11	Total Transportation Charges (8+/-9-10)	( Rs.)				
12	Total amount Charged for Limestone supplied including Transportation (7+11)	( Rs.)				
<b>Not Applicable</b>						

*[Signature]*  
(Petitioner)

## Details of Capital Spares

Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED

Name of the Generating Station: BHILAI EXPANSION POWER PLANT (2X250 MW)

S. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (if Applicable)	Claimed as a part of stores and spares
	Name of spare	Amount in Rs. Lakh				
1						
2						
3	Shall be submitted at the time of true-up					
4						
5						
6						
7						
8						
 (Petitioner)						

Non-Tariff Income

Name of the Petitioner : NTPC SAIL POWER COMPANY LIMITED

Name of the Generating Station : Bhilai Expansion Power Plant (2x250 MW)

S. No.	Parameters	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1.	Income from rent of land or buildings						
2.	Income from sale of scrap						
3.	Income from advertisements						

Shall be provided at truing up exercise

Note: To be submitted at the time of truing up

*[Signature]*  
(Petitioner)

Details of Water Charges

Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED

Name of the Generating Station: Bhilai Expansion Power Plant (2x250 Mw)

S. No.	Details of Water charges* (excluding water cess)	Quantity allocated*	Normative consumption at 85% PLF	Rate specified (as per govt. notification or agreement)*	Spillage of water (in percentage)	Amount Claimed
	Name of source and quantity	Unit....	Unit....			
1	Name: Mohad Reservoir Quantity: 0.6 TMC	0.6 TMC = 16990107.96 Cubic Meter	0.54 TMC = 15291097.16 Cubic Meter	Rs 12.25/Cubic meter	Nil	1873.16

Note: \* As per agreement with WRD, Govt. of Chattisgarh, allocated quantity is 0.6 TMC

# As per agreement with WRD, Govt. of Chattisgarh, petitioner has to pay the water charges at 90% of allocated quantity if actual water consumption is less

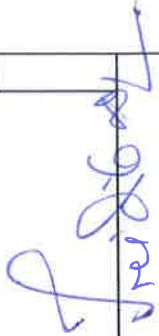
^ As per WRD notification dated 21.02.2016, the rate of water from canal from which is being supplied to the generation station is Rs 12.25 cubic meter

*Signature*

Details of Statutory Charges

Name of the Petitioner: NTPC SAIL POWER COMPANY LIMITED

Name of the Generating Station: Bhilai Expansion Power Plant (2x250 MW)

Particulars	Unit Rate	No of Units	Amount Claimed
Electricity Duty			Shall be submitted on truing up exercise.
Water Cess			
***			
***			
***			
			 (Petitioner)

**Abstract of Capital Cost Estimates and Schedule**

<b>Name of the Petitioner</b>	NTPC SAIL POWER COMPANY LIMITED
<b>Name of the Generating Station</b>	Bhilai Expansion Power Plant (2x250 MW)

<b>New Projects</b>	
<b>Capital Cost Estimates</b>	
Board of Director/ Agency approving the Capital cost estimates:	Not Applicable
Date of approval of the Capital cost estimates:	
Price level of approved estimates	
Foreign Exchange rate considered for the Capital cost estimates	
<b>Capital Cost excluding IDC, IEDC &amp; FC</b>	
Foreign Component, if any (In Million US \$ or the relevant Currency)	
Domestic Component (Rs. Lakh)	
<b>Capital cost excluding IDC, IEDC, FC, FERV &amp; Hedging Cost (Rs. Cr)</b>	
<b>IDC, IEDC, FC, FERV &amp; Hedging Cost</b>	
Foreign Component, if any (In Million US \$ or the relevant Currency)	
Domestic Component (Rs. Lakh)	
<b>Total IDC, IEDC, FC, FERV &amp; Hedging Cost (Rs. Cr)</b>	
Rate of taxes & duties considered	
<b>Capital cost Including IDC, IEDC, FC, FERV &amp; Hedging</b>	
Foreign Component, if any (In Million US \$ or the relevant Currency)	
Domestic Component (Rs. Lakh)	
<b>Capital cost Including IDC, IEDC &amp; FC (Rs. Cr)</b>	
<b>Schedule of Commissioning</b>	
Scheduled COD of Unit-I/Block-I as per Investment Approval	
Scheduled COD of Unit-II/Block-II as per Investment Approval	
Scheduled COD of last Unit/Block	

*[Handwritten Signature]*

(Petitioner)



Break-up of Capital Cost for New Coal/Lignite based projects		FORM- B								
Name of the Petitioner										
Name of the Generating Station										
		(Amount in Rs. Lakh)								
Sl. No.	Break Down (2)	As per Original Estimates as per Investment Approval (3)	Actual Capital Expenditure as on COD/ anticipated COD (For U#1 only as on 30.04.2019) (4)	Liabilities/Provision on as on COD for U#1 (5)	Actual Capital Expenditure / anticipated expenditure as on COD of station (For U#1&2 put together) (6)	Liabilities/Provision for U#1&2 as on COD of Station (7)	Total Cost (8)	Variation (9)=(3-4-5-6-7) (9)	Specific Reasons for Variation (8)	Estimated Capital expenditure upto Cut-off date (9)
1	Cost of Land & Site Development									
1.1	Land*									
1.2	Rehabilitation & Resettlement (R&R)									
1.3	Preliminary Investigation & Site Development									
	<b>Total Land &amp; Site Development</b>									
2	Plant & Equipment									
2.1	Steam Generator Island									
2.2	Turbine Generator Island									
2.3	BOP Mechanical									
2.3.1	External water supply system									
2.3.2	CW system									
2.3.3	DM water Plant									
2.3.4	Clarification plant									
2.3.5	Chlorination Plant									
2.3.6	Fuel Handling & Storage system									
2.3.7	Ash Handling System									

Not Applicable

J. J. J.

PART-I												
FORM-D												
NTPC SAIL POWER COMPANY LIMITED												
Bhilai Expansion Power Plant (2x250 MW)												
Name of the Generating Station												
1.1-1.2												
Sl No.	Name/No. of Construction / Supply / Service Package	Land Including R & R	TG Package	ESP Package	SG Package	CW, WTP, ETP, Pip lining	AHP (Industrial)	CT Mechanical	CHP/Elecon (Mechanical)	CHP, CT, CW & Offsite Civil	AC & Ventilation (Sterling & Wilson)	FDPS (Lloyd)
1	Scope of works (in line with head of cost break-ups as applicable)											
2	Whether awarded through ICB/DCB/ Departmentally/											
3	Deposit Work											
4	No. of bids received											
5	Date of Award											
6	Date of Completion of Work/Expected date of completion of work											
7	Value of Award in (Rs. Lakh)											
8	Firm or With Escalation in prices											
9	Actual capital expenditure till the completion or upto Ant. COD of U#1 (Rs.Lakh)											
10	Taxes & Duties & IEDC (Rs. Lakh) Upto Ant. COD U#1											
10(a)	IEDC U#1 upto Ant. COD U#1 IDC, FC, FERV & Hedging cost (Rs. Lakh) upto COD											
11	Total Capitalisation at ant. COD of U#1 (9+10+10(a)+11)											
12	Actual Capital expenditure on ant. COD of the station											

Not Applicable

*Handwritten signature*

Details of variables, parameters, optional package etc. for New Project

Name of the Petitioner  
Name of the Generating Station

NTPC SAIL POWER COMPANY LIMITED  
Bhilai Expansion Power Plant (2x250 MW)

Unit Size 250 MW  
Number of Units 2  
Greenfield/Extension

S. No.	Variables
1	Coal Quality – Calorific Value
2	Ash Content
3	Moisture Content
4	Boiler Efficiency
5	Suspended Particulate Matter
6	Ash Utilization
7	Boiler Configuration
8	Turbine Heat Rate
9	CW Temperature
10	Water Source
11	Distance of Water Source
12	Clarifier
13	Mode of Unloading Oil
14	Coal Unholding Mechanism
15	Type of Fly Ash Disposal and Distance
16	Type of Bottom Ash Disposal and Distance
17	Type of Soil
18	Foundation Type (Chimney)
19	Water Table
20	Seismic and Wind Zone
21	Condensate Cooling Method
22	Desalination/RO Plant
23	Evacuation Voltage Level
24	Type of Coal (Domestic/Imported)
	<b>Parameter/Variables</b>
	Completion Schedule
	Terms of Payment
	Performance Guarantee Liability
	Basis of Price (Firm/Escalation-Linked)
	Equipment Supplier (Country of Origin)
	<b>Optional Packages</b>
	Desalination Plant/RO Plant
	MGR
	Railway Siding
	Unloading Equipment at Jetty
	Rolling Stock/Locomotive
	FGD Plant
	Length of Transmission Line till Tie Point (in km)

Not Applicable

  
(Petitioner)

Detail of cost over run  
Name of the Petitioner  
Name of the Generating Station

NTPC SAIL POWER COMPANY LIMITED  
Bhilai Expansion Power Plant (2x250 MW)

S. No.	Break Down	Original Cost (Rs. Lakh) as approved by the Board of Members	Actual/ Estimated Cost as incurred/to be incurred (Rs. Lakh)	Difference	Reasons for Variation (Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost	Total Cost	Total Cost		
1	<b>Cost of Land &amp; Site Development</b>					
1.1	Land*					
1.2	Rehabilitation & Resettlement (R&R)					
1.3	Preliminary Investigation & Site Development					
2	<b>Plant &amp; Equipment</b>					
2.1	Steam Generator Island					
2.2	Turbine Generator Island					
2.3	BOP Mechanical					
2.3.1	Fuel Handling & Storage system					
2.3.2	External water supply system					
2.3.3	DM water Plant					
2.3.4	Clarification plant					
2.3.5	Chlorination Plant					
2.3.6	Fuel Handling & Storage system					
2.3.7	Ash Handling System					
2.3.8	Coal Handling Plant					
2.3.9	Rolling Stock and Locomotives					
2.3.10	MGR					
2.3.11	Air Compressor System					
2.3.12	Air Condition & Ventilation System					
2.3.13	Fire fighting System					
2.3.14	HPLP Piping					
	<b>Total BOP Mechanical</b>					
2.4	BOP Electrical					
2.4.1	Switch Yard Package					
2.4.2	Transformers Package					
2.4.3	Switch gear Package					
2.4.4	Cables, Cable facilities & grounding					
2.4.5	Lighting					
2.4.6	Emergency D.G. set					
	<b>Total BOP Electrical</b>					
2.5	Control & Instrumentation (C & I) Package					
	<b>Total Plant &amp; Equipment excluding taxes &amp; Duties</b>					
3	Initial Spares					
4	Civil Works					
4.1	Main plant/Adm. Building					
4.2	CW system					
4.3	Cooling Towers					
4.4	DM water Plant					
4.5	Clarification plant					
4.6	Chlorination plant					
4.7	Fuel handling & Storage system					
4.8	Coal Handling Plant					
4.9	MGR & Marshalling Yard					
4.1	Ash Handling System					
4.11	Ash disposal area development					
4.12	Fire fighting System					
4.13	Township & Colony					
4.14	Temp. construction & enabling works					
4.15	Road & Drainage					
	<b>Total Civil works</b>					
5	Construction & Pre-Commissioning Expenses					
5.1	Erection Testing and commissioning					
5.2	Site supervision					
5.3	Operator's Training					
5.4	Construction Insurance					
5.5	Tools & Plant					
5.6	Startup fuel					
	<b>Total Construction &amp; Pre-Commissioning Expenses</b>					
6	Overheads					
6.1	Establishment					
6.2	Design & Engineering					
6.3	Audit & Accounts					
6.4	Contingency					
	<b>Total Overheads</b>					
7	Capital cost excluding IDC & FC					
8	IDC, FC, FERV & Hedging Cost					
8.1	Interest During Construction (IDC)					
8.2	Financing Charges (FC)					
8.3	Foreign Exchange Rate Variation (FERV)					
8.4	Hedging Cost					
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>					
9	Capital cost including IDC, FC, FERV & Hedging Cost					

Not Applicable

*[Handwritten signature]*

\*Submit details of Freehold and Lease hold land

Note: Impact on account of each reason for Cost overrun should be quantified and substantiated with necessary documents and supporting workings.

(Petitioner)

**Detail of time over run**

**Name of the Petitioner** NTPC SAIL POWER COMPANY LIMITED  
**Name of the Generating Station** Bhilai Expansion Power Plant (2x250 MW)  
**COD: 21.10.2009**

S. No	Description of Activity / Works / Service	Original Schedule (As per Planning)		Actual Schedule (As per Actual)		Time Over-Run Days	Reasons for delay	Other Activity affected  (Mention S. No. of activity affected)	
		Start Date	Completion Date	Actual Start Date	Actual Completion Date				
1		<b>Not Aplicable</b>							
2									
3									
4									
5									
6									
7									
8									
9									
....									

*[Handwritten Signature]*  
**(Petitioner)**

Statement of Additional Capitalisation during five year before the end of useful life of the Project

Name of the Petitioner NTPC SAIL Power Company Limited  
 Name of the Generating Station BHILAI EXPANSION POWER PLANT (2x250 MW)  
 COD 21.10.2009

(Amount in Rs. Lakh)

S. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)			Regulations under which claimed	Justification	Impact on life extension	
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis				IDC included in col. 4
1	2	3	4	5	(6 = 4 - 5)	7	8	9	10

**Note:**

1. Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes
2. Justification for additional capital expenditure claim for each asset should be relevant to regulations under which claim has been made and the necessity of capitalization of the asset.

*[Signature]*  
(Petitioner)

Details of Assets De-capitalized during the period

Name of the Petitioner NTPC SAIL Power Company Limited  
 Name of the Generating Station BHILAI EXPANSION POWER PLANT (2x250 MW)  
 Region Western  
 State Chhattisgarh  
 District Durg

Amount in Rs Lakh

S. No.	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1						
2						
3						
4						
5						

Shall be submitted at the time of true-up

Note: Year wise detail need to be submitted.

  
(Petitioner)

Reconciliation of capitalisation claimed vis-à-vis books

Name of the Petitioner NTPC SAIL Power Company Limited  
Name of the Generating Station BHILAI EXPANSION POWER PLANT (2x250 MW)  
COD 21.10.2009

(Amount in Rs. Lakh)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Closing Gross Block as per IND AS					
2	Add/Less: Adjustments*					
3	Closing Gross Block as per IGAAP					
4	Opening Gross Block as per IND AS					
5	Add/Less: Adjustments*					
6	Opening Gross Block as per IGAAP					
7	<b>Total Additions as per books (G = 3 - 5)</b>					
8	Less: Additions pertaining to other Stages (give Stage wise breakup)					
9	<b>Net Additions pertaining to Instant project/Unit/Stage</b>					
10	Less: Exclusions (items not allowable / not claimed)					
11	<b>Net Additional Capital Expenditure Claimed (on accrual basis)</b>					
12	<b>Less: Un-discharged Liabilities (as per IGAAP)</b>					
13	<b>Add: Discharges of un-discharged liabilities, corresponding to admitted assets/works (as per IGAAP)</b>					
14	<b>Net Additional Capital Expenditure Claimed (on cash basis)</b>					

Shall be submitted at the time of true-up

Note: (1) Form is to be certified by the Auditor and Certificate Issued as per the guidelines prescribed by their governing body.  
(2) Reason for exclusion of any expenditure shall be given in Clear terms. \*Break-up to be specified.

  
(Petitioner)



Statement showing items/assets/works claimed under Exclusions:

Name of the Petitioner NTPC SAIL Power Company Limited  
Name of the Generating Station BHILAI EXPANSION POWER PLANT (2x250 MW)  
COD 21.10.2009

S. No.	Head of Work / Equipment	ACE Claimed under Exclusion			IDC included in col. 3	Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis		
1	2	3	4	(5 = 3 - 4)	6	7
Shall be submitted at the time of truing-up						

(Amount in Rs.  
Lakh)

Note: 1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed, etc.

2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and not in sending station or in both the station.

  
(Petitioner)

Name of the Petitioner  
Name of the Generating Station

NTPC SAIL Power Company Limited  
BHILAI EXPANSION POWER PLANT (2x250 MW)

**Statement of Capital cost**

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

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

To be filed at the time of truing-up.

**Note:**

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

*Jedib*  
(Petitioner)

Name of the Petitioner NTPC SAIL Power Company Limited  
Name of the Generating Station BHILAI EXPANSION POWER PLANT (2x250 MW)

Statement of Capital Woks in Progress

(Amount in Rs. Lakh)

S. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	To be filed at the time of truing-up.		
	b) Amount of IDC in A(a) above			
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above			
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount du			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

**Note:**

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

*[Handwritten Signature]*  
(Petitioner)

Calculation of Interest on Normative Loan

Name of the Petitioner

Name of the Generating Station

NTPC SAIL Power Company Limited  
BHILAI EXPANSION POWER PLANT (2x250 MW)

		(Amount in Rs Lakh)							
S. No.	Particulars	Existing 2018-19	2019-20.	2020-21	2021-22	2022-23	2023-24		
		3		5	6	7	8		
1	2								
1	Gross Normative loan – Opening	196648.48	1,97,005.80	1,97,281.23	1,97,826.74	1,99,568.76	2,00,137.86		
2	Cumulative repayment of Normative loan up to previous year	120031.55	1,34,224.96	1,48,450.85	1,62,706.82	1,77,046.58	1,83,229.34		
3	Net Normative loan – Opening	76,616.93	62,780.84	48,830.38	35,119.93	22,522.18	16,908.52		
	Add-Cap		393.47	779.30	2,488.60	813.00	-		
4	Add: Increase due to addition during the year / period	357.32	275.43	545.51	1,742.02	569.10	-		
5	Less: Decrease due to de-capitalisation during the year / period	0.00	-	-	-	-	-		
6	Less: Decrease due to reversal during the year / period	0.00	-	-	-	-	-		
7	Add: Increase due to discharges during the year / period	0.00	-	-	-	-	-		
	Less: Repayment of Loan	14193.41	14,225.89	14,255.96	14,339.77	6,182.76	6,215.11		
8	Net Normative loan - Closing	62,780.84	48,830.38	35,119.93	22,522.18	16,908.52	10,693.41		
9	Average Normative loan	69,698.88	55,805.61	41,975.15	28,821.05	19,715.35	13,800.96		
10	Weighted average rate of interest	8.2396%	8.2396%	8.2396%	8.2396%	8.2396%	8.2396%		
11	Interest on Loan	5,742.90	4,598.15	3,458.58	2,374.74	1,624.46	1,137.14		

  
 (Petitioner)

Details/Information to be Submitted in respect of Oil (HFO) for Computation of Energy Charges<sup>1</sup>

Name of the Company: **NTPC SAIL POWER COMPANY LIMITED**  
 Name of the Power Station: **Bhilai Expansion Power Plant (2x250 MW)**

Sl.No.	Fuel: LDO	Month	Unit	Oct-18		Nov-18		Dec-18	
				LDO	HFO	LDO	HFO	LDO	HFO
1	Quantity of Oil supplied by Oil Company(Including Opening stock)		KL	113.679	658.105	109.179	623.393	109.179	623.393
2	Adjustment(+/-) in quantity supplied made by Oil Company		KL	0		0		0	0
3	Oil supplied by Oil Company (1+2)		KL	113.679	658.105	109.179	623.393	109.179	623.393
4	Normative Transit & Handling Losses		KL	0	0	0	0	0	0
5	Net Oil Supplied (3-4)		KL	113.679	658.105	109.179	623.393	109.179	623.393
6	Amount charged by the Oil Company		(Rs)	6286311	23099978	6037467	22712312	6037467	22712312
7	Adjustment(+/-) in amount charged made by Oil Company		(Rs)	0	0	0	0	0	0
8	Total amount charged (6+7)		(Rs)	6286311	23099978	6037467	22712312	6037467	22712312
9	Transportation charges by rail / ship / road transport		(Rs)	0	0	0	0	0	0
10	Adjustment (+/-) in amount charged made by Railways/Transport Company		(Rs)	0	0	0	0	0	0
11	Demurrage Charges, if any		(Rs)	0	0	0	0	0	0
12	Cost of diesel in transporting Oil through MGR system, if applicable		(Rs)	0	0	0	0	0	0
13	Total Transportation Charges (9+/-10-11+12)		(Rs)	0	0	0	0	0	0
14	Others -Entry Tax on Oil		(Rs.)	0	0	0	0	0	0
15	Total amount Charged for fuel supplied including Transportation (8+13+14)		(Rs)	6286311	23099978	6037467	22712312	6037467	22712312
16	Weighted average GCV of Oil as fired		(kCal/L)	9897	9897	9897	9897	9897	9897
17	Weighted average rate of Secondary Fuel		Rs/KL	36016.44	36016.44	36016.44	36016.44	36016.44	36016.44

\* Including opening stock

*[Handwritten Signature]*  
Date: 16/12/18

PETITIONER

Calculation of Interest on Working Capital

Name of the Petitioner:

NTPC SAIL POWER COMPANY LIMITED

Name of the Generating Station: BHILAI EXPANSION POWER PLANT (2x250 MW)

Place (Region/District/State): Western Region/Durg District/CHHATTISGARH

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite1 50 days		10797.84	10797.84	10797.84	10797.84	10797.84
2	Cost of Main Secondary Fuel Oil1 2 month		114.97	114.66	114.66	114.66	114.97
3	Fuel Cost2						
4	Liquid Fuel Stock2						
5	O & M Expenses 1 month		1714.72	1782.42	1853.11	1928.31	2006.76
6	Maintenance Spares 20% of O&M	N.A.	4115.32	4277.80	4447.45	4627.95	4816.23
7	Receivables 45 days		16997.91	16987.37	16979.09	15988.02	16037.11
8	<b>Total Working Capital</b>		33740.76	33960.08	34192.15	33456.79	33772.92
9	Rate of Interest		12.05%	12.05%	12.05%	12.05%	12.05%
10	<b>Interest on Working Capital</b>		<b>4,065.76</b>	<b>4,092.19</b>	<b>4,120.15</b>	<b>4,031.54</b>	<b>4,069.64</b>

**Note:**

1. For Coal based/Lignite based generating stations
2. For Gas Turbine/Combined Cycle generating stations duly taking into account the annual mode of operation (last available) on gas fuel and liquid fuel.


  
 Petitioner

Computation of Energy Charges

Form-O(I)

ADDITIONAL FORM

Name of the Company: NTPC SAIL POWER COMPANY LIMITED  
 Name of the Power Station: BHILAI EXPANSION POWER PLANT (2X250 MW)

Sr.No.	Description	Formula	2019-24	2019-20	2020-21	2021-22	2022-23	2023-24
1	Rate of Energy Charge from Sec. Fuel Oil/ Alternate (REC) <sub>s</sub>		1.848	0.5	0.5	0.5	0.5	0.5
2	Heat Contribution from SFO / Alternate (H <sub>s</sub> )		4.942	9.00%	9.00%	9.00%	9.00%	9.00%
3	Heat Contribution from coal (H <sub>p</sub> ) <sub>s</sub>	= GHR - H <sub>s</sub>	2410.06	2,415.00	2,415.00	2,415.00	2,415.00	2,415.00
4	Specific Primary Fuel Consumption (Qp) <sub>h</sub>	= H <sub>p</sub> / (GCV) <sub>p</sub>	0.726	2,415.00	2,415.00	2,415.00	2,415.00	2,415.00
5	Rate of Energy charge from Primary Fuel (p/kwh)		211.722	283.101	282.328	282.328	282.328	283.101
6	Rate of Energy charge ex-bus (p/kWh)	REC = ((REC) <sub>s</sub> + (REC) <sub>p</sub> ) / (1-(AUX))	234.692	278.460	278.460	278.460	278.460	278.460

Sp. Oil consumption ml/kwh 0.5

Auxiliary consumption % 9.00%

Heat Rate Kcal/Kwh 2,415.00

Computation of Variable Charges

Variable Charge (Coal)	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
Variable Charge (Coal)	p/kwh	232.662	232.662	232.662	232.662	232.662
Variable Charge (Oil)	p/kwh	2.031	2.031	2.031	2.031	2.031
<b>Total</b>	<b>p/kwh</b>	<b>234.692</b>	<b>234.692</b>	<b>234.692</b>	<b>234.692</b>	<b>234.692</b>

Price of fuel from Form-15/15A

coal Cost	(Rs./MT)	2915.28	2915.28	2915.28	2915.28	2915.28
oil Cost	(Rs./KL)	36957.30	36957.30	36957.30	36957.30	36957.30

Computation of Fuel Expenses for Calculation of IWC:

ESO in one month	(MU)	283.101	282.328	282.328	282.328	283.101
ESO in 30 days	MU	278.460	278.460	278.460	278.460	278.460
Cost of coal for 30 days	(Rs.Cr.)	64.79	64.79	64.79	64.79	64.79
Cost of oil for 1 month	(Rs.Cr.)	0.57	0.57	0.57	0.57	0.57
Cost of oil for 2 months	(Rs.Cr.)	1.15	1.15	1.15	1.15	1.15
Energy Expenses for 1 month	(Rs. Cr)	66.44	66.26	66.26	66.26	66.44
Energy Expenses for 30 days	(Rs. Cr)	65.35	65.35	65.35	65.35	65.35

Coal	3rd month	2nd month	1st month	Avg.	Rs./MT
Wtd. Avg. Price of Coal	2771.78	2781.56	3192.49	2915.28	2915.28
Wtd. Avg. GCV of Coal as received (A)	3626.12	3264.74	3319.62	3403.49	kCal/Kg
Wtd Avg GCV for ECR Calculation as per Regulation-.....(A)-85 Kcal/Kg	3541	3180	3235	3318.49	Kcal/kg
Wtd. Avg. Price of Secondary Fuel	36016.44	36016.44	36839.03	36957.30	Rs/KL
Wtd. Avg. GCV of Secondary Fuel	9897.00	9897.00	9857.00	9883.67	kCal/L

W.Avg

*[Handwritten Signature]*

PETITIONER

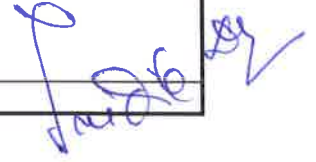
**Incidental Expenditure up to SCOD and up to Actual/anticipated COD**

Name of the Petitioner : NTPC -SAIL Power Company Limited

Name of the Generating Station : BHILAI EXPANSION POWER PLANT (2x250 MW)

(Amount in Rs Lakh)

S. No.	Parameters	As on Scheduled COD	As on actual COD/anticipated COD
A	<b>Head of Expenses:</b>		
1	Employees' Benefits Expenses		
2	Finance Costs		
3	Water Charges		
4	Communication Expenses		
5	Power Charges		
6	Other Office and Administrative Expenses		
7	Depreatitaion		
8	Rep & Maint,		NA
9	Other Pre-Operating Expenses		
B	<b>Total Expenses</b>		
	Less: Income from sale of tenders		
	Less: Income from guest house		
	Less: Income recovered from Contractors		
	Less: Interest on Deposits		





Expenditure under different packages up to SCOD and up to Actual/anticipated COD

Name of the Petitioner :NTPC -SAIL Power Company Limited

Name of the Generating Station : BHILAI EXPANSION POWER PLANT (2x250 MW)

(Amount in Rs Lakh)

S. No.	Parameters	As on Scheduled COD	As on actual/anticipated COD
1	Package 1	NA	
2	Package 2		
3	Package 3		
4	-----		
5	-----		
6			

*[Handwritten Signature]*  
(Petitioner)

NTPC -SAIL Power Company Limited  
 Name of the Generating Station : BHILAI EXPANSION POWER PLANT (2x250 MW)  
 Expenditure is provisional

(Rs. crore)

Qtr Ended on	Expr. During Qtr	Cumulative Expr. Upto the end of Qtr	Debt Applied (Dom Borr and Bonds)	Repayments of DB & Bonds	Cumulative debt applied (DB & Bonds)	Debt Applied (ECB)	ERV	Cumulative debt applied (ECB)	Cumulative debt applied (Total)	Debt Equity Ratio
--------------	------------------	--------------------------------------	-----------------------------------	--------------------------	--------------------------------------	--------------------	-----	-------------------------------	---------------------------------	-------------------

Not applicable


Expenditure upto 30.06.18 is provisional  
 No WCM has been considered in above expenditure

*File*

Statement of Liability Flow

NTPC -SAIL Power Company Limited  
Name of the Generating Station : BHILAI EXPANSION POWER PLANT (2x250 MW)

(Amount in Rs Lakh)

Party	Asset / Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2019	Discharges (Year wise)	Reversal (Year wise)
Shall be provided at the time of true up						
						(Petitioner)

Summary of issue involved in the petition

PART 1  
FORM-T

1	<b>Petitioner: NTPC SAIL POWER COMPANY Limited</b>					
2	<b>Subject: Determination of Tariff for Bhilai Expansion Power Plant (2x250 MW) from 01.04.2019 to 31.03.2024.</b>					
3	<p><b>Prayer:</b></p> <p>i) Approve / determine the capital cost and tariff of NSPCL Bhilai Expansion Power Plant (2x250 MW) for 2019-24 Tariff Block, taking into account the submissions made herein above, in the Forms and Annexures filed herewith permitting the Petitioner to recover Annual Fixed Cost.</p> <p>iv) Grant liberty to the petitioner to approach the Hon'ble Commission seeking in-principle approval for implementation of various systems in the instant station to comply with revised emission standards.</p> <p>v) Grant liberty to the petitioner to approach the Hon'ble Commission for claiming the Ash Transportation Charges (under O&amp;M expenses) as part of Annual Fixed Charges (AFC).</p> <p>vi) Allow the recovery of filing fees as &amp; when paid to the Hon'ble Commission and the publication expenses from the beneficiaries.</p> <p>vii) Pass any other order as it may deem fit in the circumstances mentioned above.</p>					
4	<p><b>Respondents</b></p> <p>Four (4) no. Respondent</p>					
	<b>Name of Respondents</b>					
5	<p>1. Steel Authority of India Limited                  2. Chhattisgarh State Power Distribution Company Limited                  3. Dadra &amp; Nagar Haveli Power Distribution Company Limited                  4. Electricity department, Union Territory of Daman &amp; Diu</p>					
	<b>Claim</b>	2019-20	2020-21	2021-22	2022-23	2023-24
	<b>AFC (in Rs Lakh)</b>	58519.63	58274.23	58207.13	50168.47	50705.16

Petitioner

**SUMMARY**

34. In the interest of reliable and safe grid operation, the Commission directs that all the ISGS stations whose tariff is determined or adopted by CERC shall be AGC-enabled and the ancillary services including secondary control through AGC be implemented as per the following direction:

- i. All thermal ISGS stations with installed capacity of 200 MW and above and all hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC are directed to install equipment at the unit control rooms for transferring the required data for AGC as per the requirement to be notified by NLDC. NLDC shall notify the said requirements within one month of this order.*
- ii. All such ISGS stations whose tariff is determined or adopted by CERC shall have communication from the nearest wide band node to the RTU in the unit control room.*
- iii. The Central Transmission Utility (CTU) is directed to have communication availability from NLDC/ RLDCs to the nearest wide band node/ switchyard for the generating stations in a redundant and alternate path ensuring route diversity and dual communication.*
- iv. The NLDC is also directed to commission the required communication infrastructure.*
- v. The expenditure as a result of compliance of the above directions may be claimed as per relevant regulations or provisions of the PPA.*
- vi. The NLDC is directed to monitor implementation of the above directions so that all the ISGS stations whose tariff is determined or adopted by CERC are AGC-enabled within six months of this order.*
- vii. The framework regarding compensation for AGC support and deviation charges as stipulated in the Commission's Order in Petition no. 79/RC/2017 dated 06.12.2017 shall apply to the five pilot projects as also to other ISGS as and when they are AGC enabled. This arrangement shall remain in place till the relevant regulations inter alia on compensation for AGC services are framed by the Commission.*
- viii. NLDC/RLDCs are allowed to operate the AGC system for enabling the signals to the power plants at the earliest.*

ix. *All new thermal ISGS stations with installed capacity of 200 MW and above and hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC shall mandatorily have the capability to provide AGC support.*

35. With the above directions, Petition No. 319/RC/2018 stands disposed of.

Sd/-

आई. एस. झा  
सदस्य

Sd/-

डॉ एम. के. अय्यर  
सदस्य

Sd/-

पी. के. पुजारी  
अध्यक्ष



# 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

PUBLISHED BY AUTHORITY

सं. 1104]

नई दिल्ली, सोमवार, मई 25, 2015/ज्यैष्ठ 4, 1937

No. 1104]

NEW DELHI, MONDAY, MAY 25, 2015 / JYAISTHA 4, 1937

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 25 मई, 2015

का.आ. 1396(अ).—केन्द्रीय सरकार ने, का.आ. 763(अ) तारीख 14 सितंबर, 1999 (जिसे इसे इसके पश्चात उक्त अधिसूचना कहा गया है), का.आ. 979(अ) तारीख 27 अगस्त, 2003 और का.आ. 2804(अ) तारीख 3 नवंबर, 2009 द्वारा ईटों के विनिर्माण के लिए ऊपरी मृदा की उत्खनन को निषिद्ध करने और कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्रों से एक सौ किलोमीटर की विनिर्दिष्ट परिधि में भवन सामग्री के विनिर्माण और निर्माण क्रियाकलापों में फ्लाइं ऐश के उपयोग को बढ़ावा देने के लिए निर्देश जारी किए थे;

और उक्त संशोधन अधिसूचना सं. का.आ. 804(अ) तारीख 3 नवंबर, 2009 द्वारा तापीय संयंत्रों द्वारा फ्लाइं ऐश के सौ प्रतिशत उपयोग के लक्ष्य को प्राप्त करने के लिए समय-सीमा विनिर्दिष्ट की थी;

और यह देखा गया है कि तापीय विद्युत संयंत्रों द्वारा सौ प्रतिशत फ्लाइं ऐश के उपयोग के लक्ष्य को अभी प्राप्त किया जाना है और अप्रयुक्त फ्लाइं ऐश की मात्रा निरंतर बढ़ रही है;

और यह भी देखा गया है कि निर्माण एजेंसियां फ्लाइं ऐश तथा फ्लाइं ऐश आधारित उत्पादों का अपनी निर्माण परियोजनाओं में प्रयोग नहीं कर रहीं हैं;

और यह महसूस किया गया कि देश में फ्लाइं ऐश और फ्लाइं ऐश आधारित उत्पादों के उपयोग के लिए अतिरिक्त उपाय करने की तत्काल आवश्यकता है;

और भारत सरकार के पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय ने इस मुद्दे का परीक्षण किया है और केन्द्रीय सरकार का यह मत है कि उक्त अधिसूचना में संशोधन किए जाने की आवश्यकता है;

और पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के उपनियम (3) के खंड (क) में यह उपबंध है कि जहां केन्द्रीय सरकार किसी उद्योग की अवस्थितियों या किसी क्षेत्र में प्रसंस्करण या प्रचालन करने पर प्रतिषेध या निर्वहन अधिरोपित करना समीचीन समझे तो वह ऐसा करने के अपने आशय की सूचना दे सकती है;

अब, इसीलिए, पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उपधारा (1) और उपधारा (2) के खंड (5) तथा धारा 5 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए निम्नलिखित और संशोधन, जिन्हें उक्त अधिसूचना में करने के प्रयोजन से केन्द्रीय सरकार पर्यावरण (संरक्षण) नियम 1986 के नियम 5 के उपनियम (3) के खंड (क) की अपेक्षा के अनुसार जनता, जिसके उससे प्रभावित होने की संभावना है, की सूचना के लिए एतद्वारा प्रकाशित किए जाते हैं; और एतद्वारा सूचना दी जाती है कि उक्त प्रारूप संशोधन अधिसूचना पर सरकारी राजपत्र, जिसमें अधिसूचना प्रकाशित होगी, की प्रतियां जनता को उपलब्ध कराए जाने की तारीख को अथवा उस तारीख से साठ दिनों की अवधि की समाप्ति के पश्चात विचार किया जाएगा;

आक्षेप या सुझाव, यदि कोई हों, सचिव, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, चतुर्थ तल, पृथ्वी ब्लॉक, इंदिरा पर्यावरण भवन, जोर बाग, नई दिल्ली-110003 को या इलेक्ट्रॉनिक रूप से ई-मेल : [binsinha@gov.in](mailto:binsinha@gov.in), [shard.sapra@nic.in](mailto:shard.sapra@nic.in) पर भेजे जा सकते हैं। आक्षेप या सुझाव, जो उक्त प्रारूप संशोधनों के संबंध में ऊपर विनिर्दिष्ट समय के भीतर किसी व्यक्ति से प्राप्त होते हैं, पर केन्द्रीय सरकार द्वारा विचार किया जाएगा।

#### प्रारूप संशोधन

1. उक्त अधिसूचना के पैरा 1 में -

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

2. उक्त अधिसूचना के पैरा 2 में, उप पैरा (7) के पश्चात, निम्नलिखित उप पैरा अंतः स्थापित किया जाएगा, अर्थात्:-

- "(8) प्रत्येक कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र (अंतिम सूचना से भावी उपयुक्त तारीख विनिर्दिष्ट की जाए) अपने पास उपलब्ध फ्लाइंग ऐश के प्रत्येक प्रकार का स्टॉक अपनी वेबसाइट पर अपलोड करेगा और उसके पश्चात प्रत्येक पखवाड़े में कम से कम एक बार फ्लाइंग ऐश के प्रत्येक प्रकार के स्टॉक की स्थिति को अद्यतन करेगा।
- (9) कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र से 100 कि.मी की परिधि में, भवन और सड़क निर्माण परियोजनाओं के लिए फ्लाइंग ऐश के परिवहन की लागत ऐसे कोयला या लिग्नाइट आधारित तापीय संयंत्र द्वारा वहन की जाएगी और 100 किमी परिधि के बाहर तथा 500 कि.मी तक परिवहन लागत प्रयोक्ता निर्माण एजेंसी और कोयला या लिग्नाइट आधारित तापीय संयंत्र के मध्य समानत रूप से बांटी जाएगी।
- (10) कोयला या लिग्नाइट आधारित तापीय संयंत्रों द्वारा पांच सौ कि.मी की परिधि में, प्रधानमंत्री ग्रामीण सड़क योजना और सरकार के धाति सृजन कार्यक्रमों, जो भवनों, सड़कों, बांधों और तटबंधों के निर्माण से संबंधित हैं, के तहत चलाई जा रही सड़क निर्माण परियोजनाओं के स्थल तक फ्लाइंग ऐश के परिवहन की समग्र लागत वहन की जाएगी।"

3. उक्त अधिसूचना के पैरा 3 के उप पैरा (7) के पश्चात, निम्नलिखित उप पैरा अंतः स्थापित किया जाएगा, अर्थात्:-

- "(8) विभिन्न निर्माण परियोजना को अनुमोदित करने वाले सभी राज्य प्राधिकरणों का यह उत्तरदायित्व होगा कि वे फ्लाइंग ऐश या फ्लाइंग ऐश आधारित उत्पादों के प्रयोग हेतु तापीय विद्युत संयंत्रों और निर्माण एजेंसी या ठेकेदारों के मध्य समझौता ज्ञापन या कोई अन्य प्रबंध किया जाना सुनिश्चित करें।

[सं. 9-8/2005-एचएसएमडी]

बिश्वनाथ सिन्हा, संयुक्त सचिव



टिप्पण : मूल अधिसूचना भारत के राजपत्र, असाधारण, भाग II, खंड 3 उपखंड (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, FOREST AND CLIMATE CHANGE

### NOTIFICATION

New Delhi, the 25th March, 2015

S.O. 1396(E).—whereas by notification number S.O. 763(E) dated the 14<sup>th</sup> September, 1999 (hereinafter referred to as the said notification) notifications S.O. 979(E) dated the 27<sup>th</sup> August, 2003 and S.O. 2804 (E) dated the 3<sup>rd</sup> November, 2009, the Central Government issued directions for restricting the excavation of top soil for manufacture of bricks and promoting utilisation of fly ash in the manufacture of building materials and in construction activities with a specified radius of one hundred kilometers from coal or lignite based thermal power plants;

And whereas, vide the said amendment notification number S.O.804(E) dated the 3<sup>rd</sup> November, 2009, timeline to achieve the target of hundred per cent utilisation of fly ash by thermal power plants was specified;

And whereas, it is observed that the thermal power plants are yet to achieve the target of hundred per cent utilisation of fly ash and the unutilised fly ash quantum is continuously increasing;

And whereas, it is observed that the construction agencies are not using fly ash and fly ash based products in their construction projects;

And whereas, it is felt that there is an urgent need to provide additional measures for utilization of fly ash and fly ash based products in the country;

And whereas, the issue has been examined by the Government of India in the Ministry of Environment and Forests and the Central Government is of the opinion that the said notification needs to be amended;

And whereas, clause (a) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986 provides that whenever the Central Government considers it expedient to impose prohibition or restrictions on the locations of any industry or the carrying on of processes or operations in any area, it may give notice of its intention to do so;

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of the section 3, and section 5 of the Environment (Protection) Act, 1986 (29 of 1986), the following further amendments, which the Central Government proposes to make in the said notification is hereby published as required by clause (a) of sub-rule(3) of rule 5 of the Environment (Protection) Rules, 1986 for the information of the public likely to be affected thereby; and notice is hereby given that the said draft amendment notification will be taken into consideration on or after the expiry of the period of sixty days from the date on which copies of the Official Gazette, in which this notification is published, are made available to the public;

Objections or suggestions, if any, may be addressed to the Secretary, Ministry of Environment, Forest and Climate Change, 4<sup>th</sup> Level, Prithvi Block, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi-110003, or electronically at e-mail address: [bnsinha@gov.in](mailto:bnsinha@gov.in), [sharad.sapra@nic.in](mailto:sharad.sapra@nic.in). The objection or suggestion, which may be received from any person with respect to the said draft amendments within the period specified above, will be taken into consideration by the Central Government.

### DRAFT AMENDMENTS

1. In the said notification, in paragraph 1,
  - (a) in sub-paragraph 1(A), for the words "hundred kilometers", the words "five hundred kilometers" shall be substituted:

- (b) in sub-paragraph (3), for the figures and letters "100 km." the words and letters "five hundred kilometers" shall be substituted;
- (c) in sub-paragraph (5), for the words "hundred Kilometers", the words "five hundred Kilometers" shall be substituted.
- (d) in sub-paragraph (7), for the words "hundred Kilometers", the words "five hundred Kilometers" shall be substituted.
2. In the said notification, in paragraph 2, after the sub-paragraph (7) the following sub-paragraphs shall be inserted, namely:—

"(8) Every coal or lignite based thermal power plants shall, (A suitable date prospective to final notification is to be specified) upload the stock of each type of fly ash available with them on their website and, thereafter shall update the stock position for each type of fly ash at least once in every fortnight.

(9) A radius of hundred Kilometers from a coal or lignite based thermal power plant, the cost of transportation of fly ash for building and road construction projects shall be borne by such coal or lignite based thermal power plant and the cost of transportation beyond a radius of hundred Kilometers and upto five hundred kilometers shall be shared equally between the user construction agency engaged and the coal or lignite based thermal power plant.

(10) The coal or lignite based thermal power plants within a radius of five hundred kilometers shall bear the entire cost of transportation of fly 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 3, after the sub-paragraph (7) the following sub-paragraph 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."

[No. 9-8/2005-HSMD]

BISHWANATH SINHA, Jt Secy.

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



## CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

Paryavas Bhawan, Sector - 19,

Naya Raipur (C.G.) 492002

No. 7354/TS/CECB/2018

Naya Raipur, dated: 21/3/2018

To,

✓ M/s NTPC SAIL Power Company Limited,  
(A Joint Venture of National Thermal Power Corporation  
Limited & Steel Authority of India Limited)  
Bhilai Steel Plant,  
P.O. Bhilai (East) 490 021,  
District - Durg (C.G.)

- Sub:- Renewal of consent of the Board under section 21 of the Air (Prevention and Control of Pollution) Act, 1981.
- Ref:-
1. Consent of the Board issued under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 vide letter no. 1415/TS/CECB/2008 Raipur dated: 13/03/2008.
  2. Renewal of consent of the Board issued under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 vide letter no. 3728/TS/CECB/2015 Raipur, dated: 05/11/2015.
  3. Your online application no. 635741 dated: 16/02/2018.

---:000:---

With reference to your above application, consent is hereby renewed for a period of five years i.e. from 01/04/2018 to 31/03/2023, subject to the fulfillment of the terms and conditions incorporated in the consent letter no. 1415/TS/CECB/2008 Raipur dated: 13/03/2008, subsequent renewal of consent issued by Board and additional conditions mentioned below.

This renewal of consent is valid for production capacity of:-

Name of Product	Production Capacity
Generation of Electricity	2 x 250 MW = 500 MW (Five Hundred Megawatt)

### Additional Conditions

- 1- Industry shall install one fly ash brick/block/products manufacturing unit of capacity at-least 1,30,000 Nos. / Day before 30 June 2018 for proper utilization of ash generated.
- 2- Industry shall not increase the height of ash dyke without obtaining prior permission from the Chhattisgarh Environment Conservation Board.
- 3- Industry shall operate and maintain online continuous emission monitoring system regularly and ensure regular transfer of data to Chhattisgarh Environment Conservation Board.
- 4- Industry shall comply with all the provisions as specified in the notification published by Ministry of Environment, Forest & Climate Change S.O.3306(E) vide dated 07/12/2015.
- 5- Industry shall operate and maintain the existing pollution control systems effectively and regularly to ensure the emission of air pollutants within the prescribed emission limit all the time. Industry shall ensure particulate matter

*Amisha*

- emission less than 50 mg/Nm<sup>3</sup> all the time, failing which this renewal of consent may be treated as cancelled. Industry shall also maintain the ambient air quality within the factory premises within prescribed limits. Effective steps shall be taken to control fugitive emission inside the factory premises. All the air pollution control system shall be kept in good running conditions all the time and failure (if any), shall be immediately rectified without delay otherwise, similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- 6- Regular monitoring for the measurement of air pollutants level in ambient and emission of air pollutants from stack shall be carried out. Industry shall submit stack and ambient air quality monitoring reports to the Board regularly every month.
  - 7- Industry shall incorporate total fly ash utilization as integral part of the project. Fly ash and bottom ash generated shall be utilized 100% for other beneficial uses such as brick making, road construction, cement making etc. Industry shall provide silos of adequate capacity at appropriate places to facilitate the lifting of ash for different uses without any hindrance. Ash generated shall be used in phased manner as per provisions of the notification on fly ash utilization issued by Ministry of Environment and Forests, Government of India in September, 1999 and as amended up to date. The industry shall follow the guidelines, notification etc. for utilization of fly ash / bottom ash issued by Central Government / State Government from time to time. Industry shall abide by the decisions taken by Central Government / Central Pollution Control Board / State Government / Chhattisgarh Environment Conservation Board from time to time regarding use of fly ash / bottom ash. Industry shall ensure transportation of fly ash / bottom ash for beneficial uses by covered vehicles to prevent emission during transportation. The low-lying area within premises / outside premises filled by ash shall be reclaimed by proper leveling, covering with soil and plantation without delay.
  - 8- Industry shall ensure use of mechanically covered vehicles for the transportation of raw material like iron ore & coal etc. before 30 June 2018 so as to avoid environmental hazards in the surroundings.
  - 9- All internal roads shall be made pucca. Good housekeeping practices shall be adopted by the industry.
  - 10- Industry shall use fly ash brick, fly ash block and fly ash based products in the construction/repairing activities.
  - 11- Wide green belt of broad leaf local species shall be developed along the plant premises. As far as possible maximum area of open spaces shall be utilized for plantation purposes. Green belt / plantation shall be developed within and around the plant premises in at-least 33 % area of total plant area. Industry shall carry out extensive tree plantation at the earliest.
  - 12- Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31<sup>st</sup> March on or before 30<sup>th</sup> September every year.
  - 13- This renewal of consent is being issued under the "Scheme of Auto-Renewal of Consent" of the Board issued vide office order no. 5734 dated 24/02/2016 as per self certificate submitted by authorized signatory Mr. Debasish Chattopadhyay, General Manager & Business Unit Head of M/s NTPC SAIL Power Company Limited, (A Joint Venture of National Thermal Power Corporation Limited & Steel Authority of India Limited), Bhilai Steel Plant, P.O. Bhilai (East), District Durg (C.G.).

*Debasish*

- 14- Chhattisgarh Environment Conservation Board reserves the rights to revoke the Consent at any time for any violation/non-compliance.
- 15- In case, if the capital investment is increased by such amount that the total investment exceeds the range for which renewal fees has been paid, the industry shall have to pay the difference amount of renewal fees for the corresponding block years.
- 16- In case, the prescribed fee payable is amended in future, the industry shall be liable to pay the difference amount for corresponding block years.

Please acknowledge the receipt of this letter.

For & on behalf of  
Chhattisgarh Environment Conservation Board Raipur (C.G.)




**Member Secretary**

Chhattisgarh Environment Conservation Board  
Naya Raipur (C.G.)

Endt. No.                    /TS/CECB/2018  
Copy to: -

Naya Raipur, dated: \_\_\_ / \_\_\_ /2018

Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Bhilai-Durg (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.



**Member Secretary**  
Chhattisgarh Environment Conservation Board  
Naya Raipur (C.G.)



## CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

Paryavas Bhawan, Sector - 19,

Naya Raipur (C.G.) 492002

No. 7352/TS/CECB/2018

Naya Raipur, dated: 21/3/2018

To,

M/s NTPC SAIL Power Company Limited,  
(A Joint Venture of National Thermal Power Corporation  
Limited & Steel Authority of India Limited)  
Bhilai Steel Plant,  
P.O. Bhilai (East) 490 021,  
**District - Durg (C.G.)**

- Sub: Renewal of consent of the Board under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974.
- Ref: 1. Consent of the Board issued under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 vide letter no. 1413/TS/CECB/2008 Raipur, dated: 13/03/2008.
2. Renewal of consent of the Board issued under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 vide letter no. 3726/TS/CECB/2015 Raipur, dated: 05/11/2015.
3. Your online application no. 635741 dated: 16/02/2018.

---:000:---

With reference to your above application, consent is hereby renewed for a period of five years i.e. from 01/04/2018 to 31/03/2023, subject to the fulfillment of the terms and conditions incorporated in the consent letter no. 1413/TS/CECB/2008 Raipur, dated: 13/03/2008, subsequent renewal of consent issued by Board and additional conditions mentioned below.

This renewal of consent is valid for production capacity of:-

Name of Product	Production Capacity
Generation of Electricity	2 x 250 MW = 500 MW (Five Hundred Megawatt)

### Additional Conditions

- 1- Industry shall install one fly ash brick/block/products manufacturing unit of capacity at-least 1,30,000 Nos. / Day before 30 June 2018 for proper utilization of ash generated.
- 2- Industry shall not increase the height of ash dyke without obtaining prior permission from the Chhattisgarh Environment Conservation Board.
- 3- Industry shall comply with all the provisions as specified in the notification published by Ministry of Environment, Forest & Climate Change S.O.3305(E) vide dated 07/12/2015.
- 4- Industry shall operate and maintain the effluent treatment system effectively and regularly. Industry shall ensure treated effluent quality within the standards prescribed by Board published in Gazette Notification dated 25.03.88. The treated effluent shall be utilized in plant operations or for plantation within premises. All the pollution control system shall be kept in good running conditions all the time and failure (if any), shall be immediately rectified without delay otherwise, similar alternate arrangement shall be made.

*Amisha*

In the event of any failure of any pollution control system adopted by the industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Industry shall not discharge any treated / untreated effluent in to the river or any surface water bodies. No effluent shall be discharged out side of the factory premises in any circumstances; hence zero discharge condition outside the factory premises shall be maintained at all the time.

- 5- Industry shall submit monitoring report of effluent regularly every month.
- 6- Industry shall ensure use of mechanically covered vehicles for the transportation of raw material like iron ore & coal etc. before 30 June 2018 so as to avoid environmental hazards in the surroundings.
- 7- All internal roads shall be made pucca. Good housekeeping practices shall be adopted by the industry.
- 8- Industry shall submit characterization report of all the waste generated. As per characterization report, if any waste comes under the purview of Hazardous and Other Wastes (Management and Trans Boundary Movement) Rules, 2016, Industry shall obtain letter of authorization under Hazardous and Other Wastes (Management and Trans Boundary Movement) Rules, 2016 from the Board.
- 9- Industry shall incorporate total fly ash utilization as integral part of the project. Fly ash and bottom ash generated shall be utilized 100% for other beneficial uses such as brick making, road construction, cement making etc. Industry shall provide silos of adequate capacity at appropriate places to facilitate the lifting of ash for different uses without any hindrance. Ash generated shall be used in phased manner as per provisions of the notification on fly ash utilization issued by Ministry of Environment and Forests, Government of India in September, 1999 and as amended up to date. The industry shall follow the guidelines, notification etc. for utilization of fly ash / bottom ash issued by Central Government / State Government from time to time. Industry shall abide by the decisions taken by Central Government / Central Pollution Control Board / State Government / Chhattisgarh Environment Conservation Board from time to time regarding use of fly ash / bottom ash. Industry shall ensure transportation of fly ash / bottom ash for beneficial uses by covered vehicles to prevent emission during transportation. The low-lying area within premises / outside premises filled by ash shall be reclaimed by proper leveling, covering with soil and plantation without delay.
- 10- Industry shall use fly ash brick, fly ash block and fly ash based products in the construction / repairing activities.
- 11- Wide green belt of broad leaf local species shall be developed along the plant premises. As far as possible maximum area of open spaces shall be utilized for plantation purposes. Green belt / plantation shall be developed within and around the plant premises in at-least 33 % area of total plant area. Industry shall carry out extensive tree plantation at the earliest.
- 12- Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31<sup>st</sup> March on or before 30<sup>th</sup> September every year.
- 13- This renewal of consent is being issued under the "Scheme of Auto-Renewal of Consent" of the Board issued vide office order no. 5734 dated 24/02/2016 as per self certificate submitted by authorized signatory Mr. Debasish Chattopadhyay, General Manager & Business Unit Head of M/s NTPC SAIL Power Company Limited, (A Joint Venture of National Thermal Power Corporation Limited & Steel Authority of India Limited), Bhilai Steel Plant, P.O. Bhilai (East), District-Durg (C.G.).
- 14- Chhattisgarh Environment Conservation Board reserves the rights to revoke the Consent at any time for any violation/non-compliance.

*Amisha*

- 15- In case, if the capital investment is increased by such amount that the total investment exceeds the range for which renewal fees has been paid, the industry shall have to pay the difference amount of renewal fees for the corresponding block years.
- 16- In case, the prescribed fee payable is amended in future, the industry shall be liable to pay the difference amount for corresponding block years.  
Please acknowledge the receipt of this letter.

For & on behalf of  
Chhattisgarh Environment Conservation Board Raipur (C.G.)




Member Secretary

Chhattisgarh Environment Conservation Board  
Naya Raipur (C.G.)

Endt. No. /TS/CECB/2018  
Copy to: -

Naya Raipur, dated: \_\_\_ / \_\_\_ /2018

Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Bhilai-Durg (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.



Member Secretary  
Chhattisgarh Environment Conservation Board  
Naya Raipur (C.G.)





**एन टी पी सी लिमिटेड**  
 (भारत सरकार का उद्यम)  
**NTPC Limited**  
 (A Govt. of India Enterprise)  
 (Formerly National Thermal Power Corporation)

## INTER OFFICE MEMO

FROM: AGM(COS-Elect) REF : OS/ELEC/2013/ 24559	TO: HOD (EMD) NTPC KORBA , SIMHADRI , FARAKKA , MAUDA , VALLUR , JHAJJAR ,RIHAND ,VINDHYACHAL , DADRI (TH) ,DADRI (GAS) , ANTA ,AURAIYA, BADARPUR , UNCHAHAR , FARIDABAD , GANDHAR , KHAHALGAON , KAWAS , RAMAGUNDAM , KAYAMKULAM , SIPAT , SINGRAULI , TALCHER KANIHA , TALCHER , TANDA , BARH , BOGAIGAON , RGPPL .
DATE: 05/09/2013 h	COPIES: ED(OS) } AGM(COS-EL) } For kind information pl.

### SUBJECT: LT SWITCHGEARS

On the basis of the feed back from various sites during HOD conference it was decided to use Breakers for LT motors > 100kw . This has been implemented for all future projects by Engineering.

Recently at Dadri Contact melting of contactor and subsequent fire occurred in the vacuum pump module in the USS .

In view of the above it is our suggestion to all existing Stations which have contactor modules for Large LT motors , to explore options of providing breakers based on the space availability and fitment . This shall enhance the reliability of the system .

*Munish Mishra*  
5/9/13  
MUNISH MISHRA

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

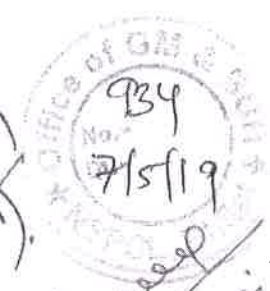
Annexure-V

CISF Unit, NSPCL(B)  
Dated: 07/05/2019

No. : CISF/NSPCL/Store / 2019- 304

To  
The GM/BUH  
NSPCL Bhilai

*P.L. Chakraborty*  
*X. Unnikrishnan*  
*07/05/19*  
*GM (BUH)*



*Accepted*  
*07/05/19*

**Sub: - Replacement of Major fire appliances : Reg.**

It is to intimate that Fire station is provided with following major appliances for fire fighting on regular basis.

1. **Foam tender** bearing registration no. CG 07 D-9079- 01 No.
2. **Water tender** bearing registration no. CG-07-D-9080- 01 No.

Foam tender is suitable for major oil fire and other type of fire and its requirement is also envisaged in BIS 3034 . Since July 2018, its foam making system is not working and unable to produce foam through delivery side. Foam and water tender are frequently getting off road due to its defects and aging.

It is also intimated that as per recommendation of Standing fire advisory committee ( Ministry of Home affairs) service life of foam and water tender is 10 year only, while both above appliances have completed 13 year as manufactured in year 2006. Engine sides defects are however being attended through authorized garage of TATA Motors Ltd, but its pump side defects are not being attended. Its pump and body was fabricated by M/S Brijbasi Hi tech udyog ltd Mathura and Tata motors Ltd is unable to repair the pump side defects. Some defects of pump side are as under and already intimated to TMD department.

Foam Tender	Water Tender
1..Foam system not working <i>(circled)</i>	1..Priming system not working.
2. Priming not working.	2. PTO switch not working properly
3. Oil leakage from PTO.	

Since Annual maintenance contract is not in existence for above appliances, hence its pump side repair/maintenance is not being attended through experts and requisite performance is not found and foam system of Foam tender is not working. There is a huge storage of highly inflammable oil at FOT area, GT, MOT etc. In case of any fire in said installations, foam tender will not serve the purpose and Mutual aid scheme is not also exist with near by fire services to assist in emergency.

As per existing fire hazards in plant there is a need of reliable Foam tender to control the major kind of fire. In view of the above it is requested kindly look into the matter and direction may be given to concerned staff for procurement of Foam and water tender in phase manner.

*3/11-07/05/19*  
**Dy. Commandant**  
**CISF UNIT NSPCL Bhilai**

*ASMC (AM)*  
*P.L. take action.*  
*07/05/19*  
*DGM (TMD)*  
*10/05/19*

- S/no. 3 of Foam tender & S/no. 2 of water tender may be attended through AME of fire tender.  
- Budget provision may be kept in capital budget for phased replacement, 'A'.



BHILAI

**NTPC-SAIL POWER COMPANY LTD.**  
(A JOINT VENTURE OF NTPC AND SAIL)  
**BHILAI**

Record notes of Security Review Meeting with CISF, NSPCL held on 17.06.2019

Ref. No: NSPCL/HR/ 2520

Dated: 19.06.2018

Members Present:

SN	Name (S/Sri)	Designation
1	D. Chattopadhyay	CGM & BUH
2	K. Kishore	GM(O&M)
3	P.C. Huddar	AGM(Opn & Chem)
4	B.K. Mukhopadhyay	AGM(Civil & CHP)
5	P.K. Panigrahi	AGM(EMD)
6	S.A. Farooqui	AGM(TS)
7	Kamal Kant	AGM(MM)
8	R.K. Jena	DGAM(C&I)
9	B.B. Patra	DGM(HR)
10	Abdul Waseem	DGM(HR)
11	Manoj Chouhan	AC, CISF
12	S. S. Dhakad	Inspector, CISF
13	Akhilesh Yadav	SI/Exe, CISF
14	Sandeep	SI/Exe, CISF


**Following points were discussed and decided in the meeting:**

Sl.No	Issues	Status and Discussion	Action
1	Restoration of Intercom Telephone(2299) at CISF line	AC, CISF informed that the Intercom facility at CISF line is out of order. In situation when there is no mobile network, the said telephone no. serves the purpose of communication with all concerned.  DGM(C&I) informed that due to issues related with optic fiber cable, only 10 nos. of intercom connections are presently available for CISF and it was suggested that for the interim period the connection may be swapped to activate the intercom no.2299.	DGM(C&I)
2	Installation of new CCTVS	AC, CISF informed that as per the security audit recommendation, security surveillance is to be done through extensive use of CCTV. DGM(C&I) informed that CCTV available have been installed at main gate. However, it was informed that the requirement of CISF can be looked into in a holistic manner. BUH advised that joint inspection may be done for relocating the 17 nos. of existing CCTVs as per immediate requirement and considering the security sensitivity.	DGM(C&I)/ AGM(TS)/ AC, CISF
3	Godrej DFMD installed in Main gate.	DFMD installed at main gate was not functioning. It was informed that the supplier/OEM has been asked to attend the same at the earliest.	DGM(HR)
4	Quarter Guard	The issue of construction of quarter guard was raised by CISF. It was informed that the construction of a separate quarter guard would require capital expenditure and would also be time consuming. It was suggested that as an interim measure a separate enclosure by way of partition wall may be made at the H-type to serve the purpose.	AGM(Civil) / AGM(TS) / DGM(HR)

Cont'd.....P/2

5	Repair of H-Type Shed	It was informed that the maintenance contract shall be awarded within a fortnight and subsequently the work for repair of false ceiling shall be undertaken and expedited before monsoon.	AGM(Civil)
6	Central Store	AC, CISF informed that the CISF personnel deployed at central stores was not able to monitor the total stores area due to non availability of proper access through out the perimeter of central stores. AGM( Civil) was requested to provide for a chain link fencing along the temporary shed being constructed and a passage way may be made so as to enable the security personnel to monitor the total area.	AGM(Civil)
7	Govt. Family Accommodation	It was informed that the contract is in advanced tendering process. The civil maintenance works required in the quarters allotted to CISF shall be attended on award of the contract.	AGM ( Civil)

The meeting ended with thanks to the Chair.

  
(Abdul Waseem) 19/6/19  
DGM(HR)

Distribution:

1. All members concerned
2. ES to CGM & BUH : For kind information to CGM & BUH please.
3. GM (O&M) – For kind Information please.

3. All the operating staffs should be very thorough regarding the process which they are operating. Continuous training may be arranged for all the operating staffs.
4. Safety Work Permit Procedure may be revised for a full proof system.
5. All safety systems always may be kept in line to face any emergency.
6. Continuous safety training may be given to all the employees and the contract labourers regarding the use of PPs.
7. The standard of the house keeping may be improved.

## ELECTRICAL SAFETY

### 1. EARTHING OF LIGHTENING

All lightening arrestors are to be brought to earth without touching any steel structure as per clause 74 of CEA Regulation 2010 but presently it is touching the structure in switch yard. Corrective action may be taken.

### 2. MAN LIFTER IN SWITCH YARD

No hydraulically operated man lifter is there to work inside switchyard for attending work in over head conductor and H.T. breaker isolator. Same may be purchased. Use of aluminum ladder or using scaffolding is a risky business and unsafe.

### 3. STATIC ELECTRICITY

To discharge static electricity during unloading the HFO the practice of earthing it, does not exists .Suitable copper wire with crocodile clip at both ends be kept in unloading station .

### 4. REMOVAL OF ELECTRICAL HEATER

Lot of diesel fumes are generated while filling the diesel from 200 litres diesel drums to browser at dozer maintenance shed. A electrical heater for making tea has been kept at office nearby. Same may be removed from there to avoid fire.

### 5. FLAME PROOF EXAUST FAN AT HYDROGEN FILLING AREA AT GENERATOR END

In both the generator, the rooms from where hydrogen is filled in the generator , the rooms remains locked and in case of leak from cylinder it will remain there .A flame proof exhaust fan is needed and same may be provided.

\* \* \*

OFFICE OF THE ASSISTANT COMMANDANT/FIRE  
CENTRAL INDUSTRIAL SECURITY FORCE  
(MINISTRY OF HOME AFFAIRS)

CISF UNIT: NSPCL BHILAI.

DATED: 19/07/2019

NO.E-32015 / CISF/NSPCL /FIRE/19- 446

To,

The AGM/TS  
NSPCL Bhilai (CG)

23.7.19  
→ Dy. Mgr (Safety)

**SUBJECT: Estimated cost of DM emergency rescue equipments regarding :**

Kindly refer our office letter no. E-32015/CISF/ NSPCL/Fire/35/18-633 dated 01/10/2018 regarding availability of emergency rescue equipments in the field CISF units.

As discussed, the estimated cost of the following DM emergency rescue tools is as follows-

SL. No	Name of equipment	Quantity	Estimated cost per piece		Total Cost	
01	Portable inflatable emergency lighting system	01	150000	00	150000	00
02	Life jackets	20	2000	00	40000	00
03	Inflatable rescue boat	01	160000	00	160000	00
04	Mega Phone	02	3500	00	7000	00
05	Hydraulic spreader	01	300000	00	300000	00
06	Hydraulic cutter	01	300000	00	300000	00
07	Water proof reflective jacket	20	1000	00	20000	00
08	Floating pump	02	300000	00	600000	00
09	Bullet chain saw	01	50000	00	50000	00
10	Traffic cones	10	500	00	5000	00
	<b>TOTAL</b>				<b>1632000</b>	<b>00</b>

Submitted for your kind perusal and further necessary action pl.

*Comp*  
19/7/19  
Assistant Commandant/Fire  
CISF Unit NSPCL Bhilai



**बी ई एम एल लिमिटेड**  
(रक्षा मंत्रालय के अधिन भारत सरकार की मिनरी रत्न कंपनी)  
**BEML LIMITED**  
(A Govt. of India Mini Ratna Company Under Ministry of Defence)  
CIN : L35202KA1964G01001530

**Corporate Office**

**BEML SOUDAHA**  
23/1, 4th Main Road, S. R. Nagar  
Bangalore - 560 027, INDIA  
Tel. : 080-22224141  
e-mail : office@pr.beml.co.in

**Manufacturing Units****Bangalore Complex**

Tel. : 080-25242414  
e-mail : rollice@beml.co.in

**KGF Complex**

Tel. : 08153-263020  
e-mail : ede@beml.co.in

**Mysore Complex**

Tel. : 0821-2402422  
e-mail : edoffice@beml.co.in

**Palakkad Complex**

Tel. : 0491-2567944  
e-mail : p@beml.co.in

**International Business Division**

Tel. : +91-80-2222 2730, 2223 3350  
e-mail : office@export.beml.co.in

**Technology Division**

Tel. : +91-80-2296 3100-109  
e-mail : office@ctd.beml.co.in

**Trading Division**

Tel. : +91-80-22963113  
e-mail : office@trading.beml.co.in

**Regional Offices :****Bilaspur**

Tel. : 07752-252082  
e-mail : bilaspur@rm.beml.co.in

**Chennai**

Tel. : 044-28270792  
e-mail : chennai@rm.beml.co.in

**Dhanbad**

Tel. : 0326-2205750  
e-mail : dhanbad@rm.beml.co.in

**Hyderabad**

Tel. : 040-23227032  
e-mail : hyderabad@rm.beml.co.in

**Kolkata**

Tel. : 033-24015286  
e-mail : Kolkata@rm.beml.co.in

**Mumbai**

Tel. : 022-22049480  
e-mail : mumbai@rm.beml.co.in

**New Delhi**

Tel. : 011-23316500  
e-mail : deihi@rm.beml.co.in

**Nagpur**

Tel. : 0712-2248845  
e-mail : nagpur@rm.beml.co.in

**Ranchi**

Tel. : 0651-2540710  
e-mail : ranchi@rm.beml.co.in

**Sambalpur**

Tel. : 0663-2521604  
e-mail : sambalpur@rm.beml.co.in

**Singrauli**

Tel. : 07805-265260  
e-mail : singrauli@rm.beml.co.in

**Global Service Headquarter, Nagpur**

Tel. : 07104-235907 / 08  
e-mail : servicehq@beml.co.in

**BEML Service Centres :****Moula Ali, Hyderabad**

Tel. : 040-27240873  
e-mail : sh@zonal.beml.co.in

**Kolkata**

Tel. : 033-24010782  
e-mail : sk@zonal.beml.co.in

**Bilaspur**

Tel. : 07752-252508  
e-mail : mvc@rm.beml.co.in

Ref – BEML / MNB / 201- NSPCL / ३४५  
Dt. 18.01.2020

To ,  
The DGM ( CHP ) ,  
Power Plant – III ,  
M/s NSPCL ,  
Bhilai.

Dear Sir ,

Sub : Regarding economic life of BEML Dozer Model BD155.

This has reference to our discussion regarding economic life of BEML Dozer model BD155 for your BD155 Dozer SI No 12568.

The equipment was commissioned on 02.11.2006 and till date worked for more than 21000 Hrs.

The economic life of Dozer depends of factors like usage, Maintenance practices followed by user etc. However, Economic life of BD155 Dozer (320 HP) is considered as 9 Years or 16000 Hrs by M/s Coal India Limited. Same is considered as 06 Years or 16000 Hrs by M/s SAIL- BSP . Copy enclosed for ready reference.

BD155 Dozer, SI No 12568 has worked for more than 13 years and also crossed 21000 Hrs which is much higher than norms followed by major user of HEMM equipment.

In view of above, the said equipment has crossed the economic life parameter as followed by other major users of HEMM equipment

This is for your kind information please.

Thanking You ,  
Yours Faithfully  
For BEML Ltd ,

( Chandra Shekhar Singh )  
District Manager

\* हमें, हिन्दी में पत्राचार सहर्ष स्वीकार है। \*

जिला कार्यालय : 22/सी, बी एस पी विस्तार कार्यालय, इस्पत भवन के पास, भिलाई - 460001(छ.ग.)  
District Office : 22/B, BSP Expansion Office Building, Near Ispat Bhavan, BHILAI - 460001 (CG)  
दूरभाष/Ph : 0788 - 2223880, 2223882, 2854721 फॅक्स / Fax : 0788 - 2221652  
ई-मेल / E-mail : bhilai@rm.beml.co.in, mnboffice@beml.co.in

Annexure-X

Mobile +91 9425293503

----- Original Message -----

From: saravananga@bheledn.co.in  
To: "SSBG Jabalpur" <ssbgwrj@bhel.in>  
Cc: "shrikant gupta" <shrikant.gupta@nspcl.co.in>, "PAVAN KUMAR H" <pavankumarh@bheledn.co.in>, "GUNASEKHAR K" <gunasekhar@bheledn.co.in>, "ARVIND TIWARI" <arvindtiwari@bheledn.co.in>  
Sent: Tuesday, January 10, 2017 9:29:47 PM  
Subject: Fwd: Anti Virus for Max Dna Workstations(os-windos xp sp-2,max version 4.2.1)

Dear Viswajeet,

Please suggest to customer the urgent need for HMI upgrades in view of product support withdrawal by Microsoft for Win XP OS.

In this connection please refer to my earlier mail.

Regards.

----- Forwarded message from PAVAN KUMAR H <pavankumarh@bheledn.co.in> -----

Date: Tue, 10 Jan 2017 17:28:17 +0530  
From: PAVAN KUMAR H <pavankumarh@bheledn.co.in>  
Subject: RE: Anti Virus for Max Dna Workstations(os-windos xp sp-2,max version 4.2.1)  
To: 'BIRENDER NATH SHARMA' <birendersharma@bheledn.co.in>  
Cc: saravananga@bheledn.co.in, anilsinha@bheledn.co.in, 'GUNASEKHAR K' <gunasekhar@bheledn.co.in>

Dear Sir,

Kindly refer to the below trailing mail for enabling us to quote with suitable code number.

Regards

H pavan kumar

8432



From: Vishwajeet Kumar [mailto:ssbgwrj@bhel.in]  
Sent: 09 January 2017 13:30  
To: ce\_sm\_mktg@bheledn.co.in  
Cc: pavankumarh@bheledn.co.in; saravananga@bheledn.co.in  
Subject: FW: Anti Virus for Max Dna Workstations(os-windos xp  
sp-2,max  
version 4.2.1)

Dear Sir,

Please arrange to submit the offer.

With Regards,

Vishwajeet Kumar

BHEL-SSBG-Jabalpur

Ph-0761-4018046

From: Shrikant Gupta [mailto:shrikant.gupta@nspcl.co.in]  
Sent: Friday, January 06, 2017 5:32 PM  
To: SSBG Jabalpur  
Cc: soumitra samanta; Nitin Nema NSPCL  
Subject: Anti Virus for Max Dna Workstations(os-windos xp sp-2,max  
version 4.2.1)

Sir,

We are using Symantec antivirus corporate edition 10.2 at Bhilai.

As update to this antivirus software has been stopped by Symantec

you are requested to send us a budgetary offer for latest  
antivirus

software for max dna workstations.(os-windos xp sp-2,max version  
4.2.1).

Thanks & Regards

Shrikant Gupta

Supdt (C&I)  
NTPC-SAIL Power Company Pvt Ltd  
(A Joint Venture of NTPC & SAIL)  
Expansion Project  
Bhilai  
Dist: Durg  
Chattisgarh PIN: 490021, INDIA  
Ph (O) : +91 788 2442505  
Mobile +91 9425293503

Disclaimer for the Electronic Transmission Message- E-mail

The information contained in this Electronic Transmission Message i.e. E-Mail and any attachments to this electronic message are intended for the exclusive use of the address(s) and may contain proprietary, confidential or privileged information. If you are not intended recipient, you should not disseminate, distribute or copy this e-mail. If you have received this message in error, you should destroy this message and may please notify the sender by email.

E-mail transmission is not guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or may contain virus in transmission. The E-mail and its contents (with or without referred errors) shall therefore not attach any liability on the originator/sender of message or BHEL or its affiliates. Views or opinions, if any, presented in this e-mail are solely those of the sender and may not necessarily reflect the views or opinions of BHEL or its affiliates. Intended recipients(s) may like to verify the information or intended meaning through alternate communication mechanism before taking action on the E-mail

or its contents.

WARNING: Although the company has taken reasonable precaution to ensure no viruses are present in this email, the recipient should

check this email and any attachments for the presence of virus.

The

sender of the mail or BHEL accepts no liability for any damage caused

by any virus transmitted by this email.

--

Please Save trees, print only when necessary.

----- End forwarded message -----

--

Please Save trees, print only when necessary.

---

# Windows XP support has ended

Applies to: Windows XP, Windows 10

---

## What is Windows XP end of support?

Microsoft provided support for Windows XP for the past 12 years. But the time came for us, along with our hardware and software partners, to invest our resources toward supporting more recent technologies so that we can continue to deliver great new experiences. As a result, technical assistance for Windows XP is no longer available, including automatic updates that help protect your PC.

Microsoft has also stopped providing Microsoft Security Essentials for download on Windows XP. If you already have Microsoft Security Essentials installed, you'll continue to receive antimalware signature updates for a limited time. However, please note that Microsoft Security Essentials (or any other antivirus software) will have limited effectiveness on PCs that do not have the latest security updates. This means that PCs running Windows XP will not be secure and will still be at risk for infection.

## What happens if I continue to use Windows XP?

If you continue to use Windows XP now that support has ended, your computer will still work but it might become more vulnerable to security risks and viruses. Internet Explorer 8 is also no longer supported, so if your Windows XP PC is connected to the Internet and you use Internet Explorer 8 to surf the web, you might be exposing your PC to additional threats. Also, as more software and hardware manufacturers continue to optimize for more recent versions of Windows, you can expect to encounter more apps and devices that do not work with Windows XP.

What does it mean if my version of Windows is no longer supported?

Which version of Windows am I running?

## How do I stay protected?

To stay protected now that support has ended, you have two options:

### Upgrade your current PC

Very few older computers are able to run Windows 10, which is the latest version of Windows. We recommend that you check out the Windows 10

specifications page to find out if your PC meets the system requirements for Windows 10. For more detailed information, read the FAQ.

## Get a new PC

If your current PC can't run Windows 10, it might be time to consider shopping for a new one. Be sure to explore our great selection of new PCs. They're more powerful, lightweight, and stylish than ever before—and with an average price that's considerably less expensive than the average PC was 14 years ago.

Find your perfect PC

## Move your files, folders, and more—for free

Microsoft has partnered with Laplink to bring you PCmover Express—a tool for transferring selected files, folders, and more from your old Windows PC to your new Windows 10 PC.

And for a limited time, you can download PCmover Express for free.

Get started

Last Updated: Jun 7, 2019

What's new	Microsoft Store	Education	Enterprise	Developer	Company
Surface Pro 6	Account profile	Microsoft in education	Azure	Microsoft Visual Studio	Careers
Surface Laptop 2	Download Center	Office for students	AppSource	Windows Dev Center	About Microsoft
Surface Go	Microsoft Store support	Office 365 for schools	Automotive	Developer Network	Company news
Xbox One X	Returns	Deals for students & parents	Government	TechNet	Privacy at Microsoft
Xbox One S	Order tracking	Microsoft Azure in education	Healthcare	Microsoft developer program	Investors
VR & mixed reality	Store locations		Manufacturing	Channel 9	Diversity and inclusion
Windows 10 apps	Buy online, pick up in store		Financial services	Office Dev Center	Accessibility
Office apps			Retail	Microsoft Garage	Security

## FORM-15

Details/Information to be provided to beneficiaries under Clause (7) of Regulation 30 of CERC (Terms & Conditions of Tariff) Regulations, 2014

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

Name of the Company:- **NTPC - SAIL POWER COMPANY LTD**

Name of Power Station:- **BHILAI EXPANSION POWER PLANT (2 x 250 MW)**

Month:- **OCT 18**

S.No.	Particulars	Unit	Domestic FSA Coal (Supplied by Rail)	Imported Coal	Domestic E-Auction coal (Supplied by Rail)
<b>A) OPENING QUANTITY</b>					
1	Opening Quantity of Coal/Lignite	(MT)	-2011.03 ✓	-	-
2	Value of Stock	(Rs.)	-5897828.59 ✓	-	-
<b>B) QUANTITY</b>					
3	Quantity of coal supplied by the coal Company	(MT)	185198.42 ✓	-	11007.39 ✓
4	Adjustment (+/-) in quantity supplied by the coal Company	(MT)	-	-	-
5	Coal supplied by the Coal Company (3+4)	(MT)	185198.42 ✓	-	11007.39 ✓
6	Normative transit & handling losses (for coal based projects)	(MT)	1481.59 ✓	-	88.06 ✓
7	Net coal supplied of coal (5-6)	(MT)	183716.83 ✓	-	10919.33 ✓
<b>C) PRICE</b>					
8	Amount charged by the coal company	(Rs.)	330984389.27 ✓	-	45081815.36 ✓
9	Adjustment (+/-) in amount charged by the coal Company	(Rs.)	-	-	-
10	Handling, Sampling and Such other similar charges	(Rs.)	5101772.78 ✓	-	303227.22 ✓
11	Total amount charged (8+9+10)	(Rs.)	336086162.05 ✓	-	45385042.58 ✓
<b>D) TRANSPORTATION</b>					
12	Transportation charges by Rail / Ship / Road Transport	(Rs.)	137850477.00 ✓	-	16826208.00 ✓
	By Rail	(Rs.)	137850477.00	-	16826208.00
	By Road	(Rs.)	-	-	-
	By Ship	(Rs.)	-	-	-
13	Adjustment (+/-) in amount charged by Railways / transport Company	(Rs.)	-	-	-
14	Demurrage charges, if any	(Rs.)	-	-	-
15	Cost of diesel in transporting coal through MGR system, if applicable, and other charges	(Rs.)	3777765.99 ✓	-	224534.01 ✓
16	Total Transportation Charges and other charges (12+13+14+15)	(Rs.)	141628242.99	-	17050742.01
17	Total amount charged for coal supplied including transportation (11+16)	(Rs.)	477714405.04	-	62435784.59
<b>E) TOTAL COST</b>					
18	Landed cost of coal (2+17)/(1+7)	(Rs./MT)	2596.60 ✓	-	5717.91 ✓
19	Blending Ratio (Domestic/ Eaucion)	%	94.39%	-	5.61%
20	Weighted average cost of Coal for the month	(Rs./MT)	-	2771.781 ✓	-
<b>F) QUALITY</b>					
21	GCV of domestic coal of the Opening Coal Stock as per bill of Coal Company	(kcal/kg)	NA	-	NA
22	GCV of domestic coal supplied as per bill of Coal Company*	(kcal/kg)	3968.153	-	3459
23	GCV of Imported coal of the Opening Coal Stock as per bill of Coal Company	(kcal/kg)	-	-	-
24	GCV of Imported coal supplied as per bill of Coal Company	(kcal/kg)	-	-	-
25	Weighted average GCV of coal as billed *	(kcal/kg)	-	3939.609	-
26	GCV of domestic coal of the Opening Coal Stock as received at station, TM basis	(kcal/kg)	3460.491	-	0
27	GCV of domestic coal as received at station, TM basis	(kcal/kg)	3655.175	-	312
28	GCV of Imported coal of the Opening Coal Stock as received at station, TM basis	(kcal/kg)	-	-	-
29	GCV of Imported coal as received at station, TM basis	(kcal/kg)	-	-	-
30	Weighted average GCV of coal as received at station *	(kcal/kg)	-	3626.115	-

DGM(MT/COE/Comm)  
Bhilai

DGM/F&A  
Bhilai

For Dinesh Jain & Associates  
Chartered Accountants  
FFIN: 004885 N  
(Neha Jain) FCA Bhilai  
Partner

GM&RUH  
Bhilai

UDIN: 19514325AAAADF8481

## FORM-15

Details/Information to be provided to beneficiaries under Clause (7) of Regulation 30 of CERC (Terms & Conditions of Tariff) Regulations, 2014

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

Name of the Company:- **NTPC - SAIL POWER COMPANY LTD**

Name of Power Station:- **BHILAI EXPANSION POWER PLANT (2 x 250 MW)**

Month:- **NOV 18**

S.N o.	Particulars	Unit	Domestic FSA Coal (Supplied by Rail)	Imported Coal	Domestic E-Auction coal (Supplied by Rail)
<b>A) OPENING QUANTITY</b>					
1	Opening Quantity of Coal /Lignite	(MT)	-1939.19 ✓	-	-0.67 ✓
2	Value of Stock	(Rs.)	-5035299.36 ✓	-	-3826.41 ✓
<b>B) QUANTITY</b>					
3	Quantity of coal supplied by the coal Company	(MT)	222715.44 ✓	-	7564.57 ✓
4	Adjustment (+/-) in quantity supplied by the coal Company	(MT)	-	-	0.00
5	Coal supplied by the Coal Company (3+4)	(MT)	222715.44	-	7564.57
6	Normative transit & handling losses (for coal based projects)	(MT)	1781.72 ✓	-	60.52 ✓
7	Net coal supplied of coal (5-6)	(MT)	220933.72 ✓	-	7504.05 ✓
<b>C) PRICE</b>					
8	Amount charged by the coal company	(Rs.)	418238254.71 ✓	-	27296882.14 ✓
9	Adjustment (+/-) in amount charged by the coal Company	(Rs.)	-	-	-
10	Handling, Sampling and Such other similar charges	(Rs.)	5227448.76 ✓	-	177551.24 ✓
11	Total amount charged (8+9+10)	(Rs.)	423465703.48	-	27474433.38
<b>D) TRANSPORTATION</b>					
12	Transportation charges by Rail / Ship / Road Transport	(Rs.)	186845789.00	-	14699819.00
	By Rail	(Rs.)	186845789.00 ✓	-	14699819.00 ✓
	By Road	(Rs.)	-	-	-
	By Ship	(Rs.)	-	-	-
13	Adjustment (+/-) in amount charged by Railways / transport Company	(Rs.)	-	-	-
14	Demurrage charges, if any	(Rs.)	-	-	-
15	Cost of diesel in transporting coal through MGR system, if applicable, and other charges	(Rs.)	3870826.68 ✓	-	131473.32 ✓
16	Total Transportation Charges and other charges (12+13+14+15)	(Rs.)	190716615.68	-	14831292.32
17	Total amount charged for coal supplied including transportation (11+16)	(Rs.)	614182319.15	-	42305725.70
<b>E) TOTAL COST</b>					
18	Landed cost of coal (2+17)/(1+7)	(Rs./MT)	2781.563 ✓	-	5637.709 ✓
19	Blending Ratio (Domestic/ Eaucion)	%	100.00%	-	0.00%
20	Weighted average cost of Coal for the month	(Rs./MT)	-	2781.563 ✓	-
<b>F) QUALITY</b>					
21	GCV of domestic coal of the Opening Coal Stock as per bill of Coal Company	(kcal/kg)	3968.153	-	3459.366
22	GCV of domestic coal supplied as per bill of Coal Company*	(kcal/kg)	3418.766	-	3704
23	GCV of Imported coal of the Opening Coal Stock as per bill of Coal Company	(kcal/kg)	-	-	-
24	GCV of Imported coal supplied as per bill of Coal Company	(kcal/kg)	-	-	-
25	Weighted average GCV of coal as billed *	(kcal/kg)	-	3418.766	-
26	GCV of domestic coal of the Opening Coal Stock as received at station, TM basis	(kcal/kg)	3655.175	-	3137
27	GCV of domestic coal as received at station, TM basis	(kcal/kg)	3264.745	-	2662
28	GCV of Imported coal of the Opening Coal Stock as received at station, TM basis	(kcal/kg)	-	-	-
29	GCV of Imported coal as received at station, TM basis	(kcal/kg)	-	-	-
30	Weighted average GCV of coal as received at station *	(kcal/kg)	-	3264.744	-

DGM(MTR, O&M Comm)  
Bhilai

DGM, F&A  
Bhilai

(Neha Jain) FC/SM (O&M)  
Partner  
M. No. 514725

GM&BUH  
Bhilai

UDIN: 19514725AAAADG4221

## FORM-15

Details/Information to be provided to beneficiaries under Clause (7) of Regulation 30 of CERC (Terms & Conditions of Tariff) Regulations, 2014

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

Name of the Company:- **NTPC - SAIL POWER COMPANY LTD**

Name of Power Station:- **BHILAI EXPANSION POWER PLANT (2 x 250 MW)**

Month:- **DEC 18**

S. No.	Particulars	Unit	Domestic FSA Coal (Supplied by Rail)	Imported Coal	Domestic E-Auction coal (Supplied by Rail)
<b>A) OPENING QUANTITY</b>					
1	Opening Quantity of Coal /Lignite	(MT)	20726.52 ✓	-	7503.38 ✓
2	Value of Stock	(Rs.)	57652127.97 ✓	-	42301899.29 ✓
<b>B) QUANTITY</b>					
3	Quantity of coal supplied by the coal Company	(MT)	178012.94 ✓	-	0.00
4	Adjustment (+/-) in quantity supplied by the coal Company	(MT)	0.00	-	0.00
5	Coal supplied by the Coal Company (3+4)	(MT)	178012.94 ✓	-	0.00
6	Normative transit & handling losses (for coal based projects)	(MT)	1424.10 ✓	-	0.00
7	Net coal supplied of coal (5-6)	(MT)	176588.84 ✓	-	0.00
<b>C) PRICE</b>					
8	Amount charged by the coal company	(Rs.)	391762388.78 ✓	-	0.00
9	Adjustment (+/-) in amount charged by the coal Company	(Rs.)	-	-	-
10	Handling, Sampling and Such other similar charges	(Rs.)	5405000.00 ✓	-	0.00
11	Total amount charged (8+9+10)	(Rs.)	397167388.78	-	0.00
<b>D) TRANSPORTATION</b>					
12	Transportation charges by Rail / Ship / Road Transport	(Rs.)	171105914.00 ✓	-	0.00
	By Rail	(Rs.)	171105914.00	-	0.00
	By Road	(Rs.)	-	-	-
	By Ship	(Rs.)	-	-	-
13	Adjustment (+/-) in amount charged by Railways / transport Company	(Rs.)	-	-	-
14	Demurrage charges, if any	(Rs.)	-	-	-
15	Cost of diesel in transporting coal through MGR system, if applicable, and other charges	(Rs.)	4002300.00 ✓	-	0.00
16	Total Transportation Charges and other charges (12+13+14+15)	(Rs.)	175108214.00	-	0.00
17	Total amount charged for coal supplied including transportation (11+16)	(Rs.)	572275602.78	-	0.00
<b>E) TOTAL COST</b>					
18	Landed cost of coal (2+17)/(1+7)	Rs./MT	3192.492 ✓	-	5637.709 ✓
19	Blending Ratio (Domestic/ Eaucion)	%	100.00%	-	0.00%
20	Weighted average cost of Coal for the month	Rs./MT		3192.492	
<b>F) QUALITY</b>					
21	GCV of domestic coal of the Opening Coal Stock as per bill of Coal Company	kcal/kg	3418.766	NA	3703.967
22	GCV of domestic coal supplied as per bill of Coal Company*	kcal/kg	3734.563	-	0
23	GCV of Imported coal of the Opening Coal Stock as per bill of Coal Company	kcal/kg	-	-	-
24	GCV of Imported coal supplied as per bill of Coal Company	kcal/kg	-	-	-
25	Weighted average GCV of coal as billed *	kcal/kg		3779.618	
26	GCV of domestic coal of the Opening Coal Stock as received at station, TM basis	kcal/kg	3264.745	NA	2662
27	GCV of domestic coal as received at station, TM basis	kcal/kg	3330.036	-	0
28	GCV of Imported coal of the Opening Coal Stock as received at station, TM basis	kcal/kg	-	-	-
29	GCV of Imported coal as received at station, TM basis	kcal/kg	-	-	-
30	Weighted average GCV of coal as received at station *	kcal/kg		3319.621	

DGM(MTP/GR/Comm)  
Bhilai

DGM/F&A  
Bhilai

(Neha Jain) FCA GM (O&M)  
Partner  
Bhilai  
M. No. 514725

GM&BUH  
Bhilai

UDIN: 19514725AAAADH5927