



एक महारत्न कम्पनी

एनटीपीसी लिमिटेड
(भारत सरकार का उद्योग)
NTPC Limited
(A Govt. of India Enterprise)

कुड़गी/Kudgi

Ref:NTPC/Kudgi/EMG/KSPCB

Date: 25.09.2018

To

Regional Officer,
Karnataka State Pollution Control Board
Plot No.86, Harakari layout,
Vajra Hanuman Nagar,
Bagalkot Road, Bijapur 586101

Dear Sir

Sub: Submission of Environmental Statement for the financial year 2017-18 - Reg

We are herewith submitting the Environmental statement for the financial year 2017-18 for NTPC Kudgi prepared in Form-V

Thanking you

Yours faithfully

(K.Karthikeyan)

Dy. General Manager (EMG)

कुड़गी सुपर थर्मल पावर प्रोजेक्ट, बसवन बागेवाड़ी, बिजापुर-५८६१२१, कर्नाटक फोन:०८४२६-२००१८३

Kudgi Super Thermal Power Project, Basavana Bagawadi, Bijapur-586 121, Karnataka. Tel : 08426-200183

रजिस्टर्ड कार्यालय: एनटीपीसी भवन, कोरे न.7, स्कोप कॉम्प्लेक्स 7, इन्स्टीटूशनल एरिया, लोधी रोड, न्यू दिल्ली-110 003.

Regd. Office: NTPC Bhawan, Core 7, SCOPE Complex, 7 Institutional Area, Lodhi Road, New Delhi 110 003.

FORM -V
ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING 31st MARCH 2018

PART-A

i	Name and address of the Owner/Occupier of the industry operation or process	Shri. R K Sinha Chief General Manager NTPC Kudgi Kudgi - P.O Basavan Bagawadi- Taluk Vijayapura - District Karnataka -586121
ii	Industry Category- Primary -(STC Code) Secondary -(STC Code)	Thermal Power Plant
iii	Production Category -Units	3 X800 MW Units (2400MW Capacity)
iv	Year of Establishment	UNIT- I 800 MW – 31.07.2017 UNIT- II 800 MW – 31.12.2017 UNIT- III 800 MW – 15.09.2018
v	Date of last Environmental Statement submitted	Environment Statement is submitted for the first year

PART – B

WATER AND RAW MATERIAL CONSUMPTION

(i). Water Consumption (m³/day)

Process	14752 m ³ /day
Cooling	25395 m ³ /day
Domestic	1600 m ³ /day

Name of Products	Process water consumption per unit of products	
	During the Previous financial year (2016-17)	During the Current financial year (2017-18)
Electricity generation 3494.46 MU	Unit was not commissioned	1.03 lit/kwhr

ii. Raw Material Consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the Previous financial year (2016-17)	During the Current financial year (2017-18)
a. Coal	Electricity generation	Unit was not commissioned	0.574 kg/kwh
b. Fuel Oil			1.047ml/kwh

Note: Plant was not fully operational

PART – C

Pollution Discharge to Environment/Unit of Output

(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutant discharged (mass/day)	Concentration of Pollutant (mass/volume)	Percentage of variation from prescribed standard with reasons
a) Water	No discharge of water	-	Nil
b) Air			
SPM	826 kg/day	27.4 mg/Nm ³	Nil
SO ₂	33838 kg/day	1122 mg/Nm ³	Nil*
NO _x	14084 kg/day	467 mg/Nm ³	Nil*

*Applicable New Emission Norms extended upto the year 2022 by CPCB.

PART – D

HAZARDOUS WASTES

(as specified under Hazardous waste/Management and handling Rules 2016)

Hazardous Wastes	Total Quantity	
	During the Previous financial year (2016-17)	During the Current financial year (2017-18)
1. From Process	Unit was not commissioned	No hazardous waste is generated in the process of electricity generation. However, hazardous waste generated (Used spent oil - 1650 Lit) during maintenance activities will be given to authorized recyclers.
2. From Pollution Control facilities		

PART – E

SOLID WASTES

Solid Wastes	Total Quantity	
	During the Previous financial year (2016-17)	During the Current financial year (2017-18)
a. From Process	Unit was not commissioned	142893 MT Bottom ash 6221 MT Mill rejects
b. From Pollution control facility		571571 MT Fly ash
c. Quantity recycled or reutilized within the unit		50% fly ash utilized by Cement, RMC and Brick manufacturing Units Mill rejects used in coal carpet in Coal pile yard

PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes

S. No.	Component	Composition (%)	Quantum (MT)	Disposal Practice
I	ASH			
1	Sodium oxide	1.05	7502	Dry ash issue to Cement, Ready Mix Concrete, Brick and other industries;
2	Magnesium oxide	0.96	6859	
3	Alumina	26.44	188904	
4	Silica	58.5	417961	
5	Phosphorous Pentoxide	0.52	3715	
6	Sulphur trioxide	0.76	5430	
7	Potassium oxide	1.27	9074	
8	Calcium oxide	4.1	29293	
9	Titanium dioxide	1.2	8574	
10	Manganese oxide	0.06	429	
11	Iron oxide	5.14	36723	

PART-G

Impact of Pollution Control Measures on Conservation of Natural Resources and On the Cost of Production

Providing of dry fly ash to Cement, Ready Mix Concrete (RMC) and Fly Ash Brick Manufacturing industries helped in conservation of natural top soil/minerals and Water is being conserved through various water conservation practices

PART – H

Additional Measures/Investment Proposal for Environment Protection Including Abatement of Pollution

The expenditure of Rs. 79035.64 Lakhs has been made for environmental protection. The expenditure includes ESP, ETP & Greenbelt development etc.

PART – I

Miscellaneous

Any other particulars in respect of environmental protection and abatement of pollution

- Super Critical Technology with high efficiency and less fuel consumption
- All the units are provided with high efficiency Electro-static Precipitators (ESP) of more than 99.97% efficiency.
- Effluent Treatment Plant is provided to treat the waste water and reuse the water
- Dry Fly Ash is being issued to Cement, RMC and brick manufacturing industries.
- Green Belt development with more than 1,50,000 no of plantation done
- Water sprinkling, Dry Fog Dust Suppression systems in coal handling, Water cover in ash pond is being maintained avoid any fugitive dust emission
- Various Environment Awareness Program has been conducted for school children and employees during important environment days.

Date: 25/09/2018

R. P. J. Stephen

Signature

Name आर. पी. जे. स्टीफेन
R. P. J. STEPHEN
महाप्रबंधक (प्र व अ) General Manager (O & M)
एनटीपीसी लिमिटेड, कुडगी एस.टी.पी.पी.
Design NTPC Limited, Kudgi S.T.P.P.
विजयपुर, कर्नाटक / Vijayapura, Karnataka-586121

Address