



A Maharatna company

एनटीपीसी लिमिटेड
(भारत सरकार का उद्यम)

NTPC Limited

(A Govt. of India Enterprise)

चट्टी बरियातु कोयला खनन परियोजना
Chatti Bariatu Coal Mining Project

Ref No.: NTPC/1079/CBCMP/MIN/ENV/193

Date: 26.09.2023

THE MEMBER SECRETARY,

JSPCB (Jharkhand State Pollution Control Board),
H.E.C. Dhurwa,

Ranchi- 834 004 (Jharkhand)

Email: ranchijspcb@gmail.com

Dear Sir,

Sub: Submission of Environment Statement in Form-V for the financial year ending on 31st March, 2023 for "Chatti Bariatu Coal Mining Project, NTPC Limited, Hazaribagh, Jharkhand"-Reg.

Ref: CTO granted to CBCMP vide Ref. No. JSPCB/HO/RNC/CTO-16193411/2023/1157, Dated 28.06.2023.

In compliance with the Rule 14 of the Environmental (Protection) Rule 1986. Please find herewith enclosed the Environment Statement in Form-V for the financial year ending on 31st March, 2023 for "Chatti Bariatu Coal Mining Project, NTPC Limited, Hazaribagh, Jharkhand".

This is for kind information please.

Thanking you,

Yours faithfully

[Naveen Gupta]

GM/Head of Project
CBCMP, NTPC Ltd.

Copy to

1. Regional Director, Kolkata. Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, Rajdhanga Main Road, Kolkata-700107 (WB). Email: mkbiswascpcb@nic.in
2. Regional Officer, Jharkhand State Pollution Control Board. PTC Chowk, Hazaribagh, Jharkhand. Email: jspcb_hazaribagh@rediffmail.com
3. The Additional Principal Chief Conservator of Forest (C), Ministry of Environment, Forest and Climate Change. Ranchi (Jharkhand)- 834002. Email: roranchi-mef@gov.in

चट्टी बरियातु कोयला खनन परियोजना, सिकरी साइट कार्यालय, बड़कागाँव, हजारीबाग - 825311 (झारखण्ड)

Chatti Bariatu Coal Mining Projects, Sikri Site Office, Barkagaon, Hazaribag-825311 (Jharkhand)

पंजीकृत कार्यालय: एनटीपीसी भवन, स्कोप कॉम्प्लेक्स, 7 इन्स्टीट्यूटीओनल एरिया, लोधी रोड न्यू दिल्ली - 110 003, टेलीफोन नं० Tel: 011-24387333, फैक्स : / Fax : 011-24361018
Registered Office: NTPC, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi-110 003, E-mail : ntpc@ntpc.co.in, Web: www.ntpc.co.in

ENVIRONMENT STATEMENT FOR NTPC Ltd - CHATTI BARIATU COAL MINING PROJECT

(FOR THE FINANCIAL YEAR ENDING 31ST MARCH 2023)

(Under Rule 14 of The Environmental (Protection) Rule - 1986)



Transforming lives

**Environment Management Group
NTPC Ltd.-Chatti Bariatu Coal Mining Project**

PO: Barkagaon, Dist: Hazaribagh

Jharkhand - 825 311

[FORM-V]

(See Rule 14 of The Environmental (Protection) Rule – 1986)

**Environment Statement for "NTPC Ltd – Chatti Bariatu Coal Mining Project
[For financial year ending on 31st March 2023]**

PART-A

S. No.	DISCRIPTION	
01	Name and address of the owner/occupier of the industry Operation or process	Shri Naveen Gupta, GM/Head of Project M/s NTPC Ltd.- Chatti Bariatu Coal Mining Project. Post : Barkagaon Dist : Hazaribagh (Jharkhand) PIN : 825 311
		Shri Pavan V. Khandwe, AGM/Mine Agent M/s NTPC Ltd.- Chatti Bariatu Coal Mining Project. Post : Barkagaon Dist : Hazaribagh (Jharkhand) PIN : 825 311
02	Industry category primary: (SIC Code) Secondary – (SIC Code)	Coal Mining Project
03	Production capacity – Units	7.0 MTPA (Peak Production)
04	Year of establishment	Mine operation started in the month of April 2022
05	Date of the last environmental statement submitted	Ref No. NTPC/1079/CBCMP/MIN/ENV/192 Dated 28.04.2022

PART-B**Water and Raw material Consumption****(i) Water Consumption:**

Water and Raw material Consumption			
1	Water Consumption m ³ /day	:	401.25 m³/day
2	Process	:	Not applicable
3	Cooling	:	Not applicable
4	Water sprinkling on Haul roads	:	376.44 m³/day
5	Domestic (Drinking purpose)	:	24.81 m³/day

Process water consumption per product output (Litres/te)			
Name of Products		During the previous fin. Year (2021-22)	During the current fin. Year (2022-23)
Coal	:	Not applicable	

1. Substituted by rule 2 (b) of the Environment (Protection) amendment rules, 1993 notified vide G.S.R vide G.S.R 3'6 (E) dated 22.04.1993.

Ravi Kumar

(ii) Raw material consumption:

Sl. No.	Name of Raw Materials	Name of Product	UoM	Consumption of raw material per unit of output	
				During Previous FY (2021-22)	During current FY (2022-23)
i.	Explosive	Coal	Kg/te	NIL (Mine operation didn't start in FY 2021-22)	0.4199
ii.	HSD (High Speed Diesel)		ltr/te	NIL (Mine operation didn't start in FY 2021-22)	2.83

**Industry may use codes if disclosing details or raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.*

PART-C

**Pollution discharged to environment /unit of output
(Parameter as specified in the consent issued)**

A) Water: No effluent discharged during the reporting period (FY 2022-23)

(Parameter as specified in the consent issued)			
Pollutants	Quantity of Pollutants Dis- charged (Mass/day)	Conc. of Pollutants Dis- charged (Mass/Volume)	CPCB STANDARD
ETP is yet to be developed			
PH	ETP is yet to be devel- oped	NA	NA
TSS		NA	NA
Oil & Grease		NA	NA
Water (S.T.P Discharge)			
Township yet to be established STP shall be constructed with T/S			
PH	NA	NA	NA
T.S.S	NA	NA	NA
B.O.D	NA	NA	NA

B) Air:

Pollutants	Quantity of Pollutants Discharged (mass / Day)	Concentrations of pollutants In discharges (mass/Volume)	Percentage of Variation from prescribed Standards with reasons
(a) Air	Dust is the only common pollutant generated in mines and its allied activities. Dust emission sources are extensive and fugitive in nature like plying of vehicles, coal loading and unloading operations, coal crushing, screening and handling operations. Ambient air quality is being monitored at five locations. Data of the same is enclosed as Annexure- 01		

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PART – D
Hazardous Waste

(As specified under Hazardous Waste/ Management and Handling Rules, 1986)

Hazardous Wastes	Total Quantity	
	During Previous FY (2021-22)	During Current FY (2022-23)
a) From process:		
Used Oil	NIL (Mine operation didn't start in FY 2021-22)	0.6 KL
Oil contaminated waste	NIL (Mine operation didn't start in FY 2021-22)	Nil
b) From Pollution control facilities:	Nil	Nil

PART-E
Solid Waste

Sl No.	Solid Wastes	Total quantity	
		During the Previous Financial year (2021-22)	During the Current Financial year (2022-23)
(a)	From process (Overburden and Interrelated Waste)	NIL (Mine operation didn't start in FY 2021-22)	1850856.08 m³ (As per survey report)
(b)	From Pollution control facility	NIL (Mine operation didn't start in FY 2021-22)	Nil
(c)	Quantity recycled or re-utilized within the unit	NIL (Mine operation didn't start in FY 2021-22)	Nil
(d)	Sold	NIL (Mine operation didn't start in FY 2021-22)	Nil
(e)	Disposed	NIL (Mine operation didn't start in FY 2021-22)	Kept within ML area (1850856.08 m³)

PART-F

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

- ❖ The generated used engine oil is being stored at an earmarked area in leak proof containers (PVC) in a manner specified by the CPCB.
- ❖ There were no used lead acid batteries and its scrap for the FY22-23.
- ❖ The generated OB & intercalated waste is dumped at earmarked area as per approved mine plan & scheme with all proper mitigation measures such as proper sloping, garland drains, etc.
- ❖ The excavated topsoil is kept at a separate location with proper mitigative measures. The topsoil shall be reused for bio-reclamation of the backfilled area.

Ravi Kumar

PART-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of the production

- ❖ Garland drains have been constructed to control the flow of effluents and rainwater.
- ❖ Plantation is being carried out in CBCMP area.
- ❖ The topsoil is stored in a proper manner.

PART-H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution

- ❖ Water sprinkling is being done through water tankers for dust suppression along permanent haul roads and along the coal and OB dispatch road.
- ❖ 07 no. of different capacity water tankers (three of 22 KL, two of 18KL, one of 12 KL and one of 10 KL capacity) have been engaged for haul road dust suppression in mine.
- ❖ 2 mobile water tankers with capacity of 05 KL have also been engaged for road dust suppression in villages.
- ❖ Dust extraction and wetting process are being used for drilling process.

PART-I

Any other particulars for improving the quality of the environment:

Environmental Expenditure for the FY (April 2022 to March 2023)		
Sl. No	Purpose of Expense	Amount (in Rs.)
(A) Environmental Monitoring		
1	Recalibration of Instruments / equipment	
2	Environmental Monitoring (AAQ, PDS, Water, Noise etc.)	61,73,460.00
Total Amount		61,73,460.00

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**Sabz Care****Environmental Consultancy Pvt. Ltd.**

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Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000260
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	16.05.2022 to 18.05.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/115/AA-114/01,02,03	Remarks	
Period of Analysis	19.05.2022 to 21.05.2022	Report Release Date	30.05.2022

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine

(Coordinates- 23°53'28.16"N to 85°04'57.53"E)

Location- 2: Pagar Village (Coordinates- 23°53'6.33"N to 85°05'13.94"E)

Location- 3: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 33.5
2. Relative Humidity (%) : 42
3. Barometric Pressure (mBar) : 1002
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	35.63	33.56	37.88	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	69.83	67.58	73.35	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	19.27	18.23	23.18	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	16.22	14.07	17.40	80 (µg/m ³)

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***

Fani Kumar



Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com



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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000261
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	17.05.2022 to 19.05.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/115/AA-115/04,05	Remarks	
Period of Analysis	20.05.2022 to 23.05.2022	Report Release Date	30.05.2022

A. GENERAL INFORMATION

Location of Sampling: Location-4: Kated Village (Coordinates- 23°53'27.752"N to 85°05'20.06"E)
Location- 5: Sisai Village (Coordinates- 23°56'05"N to 85°02'0.1"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 33.5
2. Relative Humidity (%) : 42
3. Barometric Pressure (mBar) : 1002
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	34.87	32.68	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	70.53	65.32	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	17.97	14.84	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	12.90	10.76	80 (µg/m ³)

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***

Ravi Kumar



ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	16.05.2022 to 18.05.2022	Sample condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Remarks	
Sample ID	SCECPL/TR/22/115/AA-114/01,02,03	Report Release Date	30.05.2022
Period of Analysis	20.05.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-1: **Site Office Chatti Bariatu Coal Mine**

(Coordinates- 23°53'28.16"N to 85°04'57.53"E)

Location- 2: **Pagar Village** (Coordinates- 23°53'6.33"N to 85°05'13.94"E)

Location- 3: **Keredari P.S.** (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. **Average Ambient Temperature (°C)** : 33.5
2. **Relative Humidity (%)** : 42
3. **Barometric Pressure (mBar)** : 1002
4. **Smell or Odour** : No Remarkable smell
5. **Weather condition** : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182 (Part 10)	0.30	0.35	0.60	2 (mg/m ³)

Remarks: The ambient air quality with respect to CO is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***

Ravi Kumar



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Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	17.05.2022 to 19.05.2022	Sample condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Remarks	
Sample ID	SCECPL/TR/22/115/AA-115/04,05	Report Release Date	30.05.2022
Period of Analysis	20.05.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-4: Kated Village (Coordinates- 23°53'27.752"N to 85°05'20.06"E)
Location- 5: Sisai Village (Coordinates- 23°56'05"N to 85°02'0.1"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 33.5
- Relative Humidity (%) : 42
- Barometric Pressure (mBar) : 1002
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.38	0.40	2 (mg/m ³)

Remarks: The ambient air quality with respect to CO is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***

Ravi Kumar



ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000297
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	06.06.2022 to 08.06.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/143/AA-134/01,02 & 03	Remarks	-----
Period of Analysis	10.06.2022 to 11.06.2022	Report Release Date	15.06.2022

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine

(Coordinates- 23°53'28.16"N to 85°04'57.53"E)

Location- 2: Chatibariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location- 3: Kabed Village (Coordinates- 23°53'27.752"N to 85°05'20.06"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 32.5
2. Relative Humidity (%) : 45
3. Barometric Pressure (mBar) : 1002
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	36.19	34.87	35.85	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	71.15	68.56	69.79	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	18.75	16.97	18.75	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	15.62	14.49	16.56	80 (µg/m ³)

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***

Ravi Kumar

Authorized Signatory

Quality Manager
(Piyush Ranjan)



ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com

**Sabz Care****Environmental Consultancy Pvt. Ltd.***lets start thinking about nature for tomorrow*Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000298
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	07.06.2022 to 09.06.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/143/AA-135/04 & 05	Remarks	-----
Period of Analysis	10.06.2022 to 11.06.2022	Report Release Date	15.06.2022

A. GENERAL INFORMATION**Location of Sampling:** Location-4: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Location- 5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location**B. METEOROLOGICAL INFORMATION**

1. Average Ambient Temperature (°C) : 32.5
2. Relative Humidity (%) : 45
3. Barometric Pressure (mBar) : 1002
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

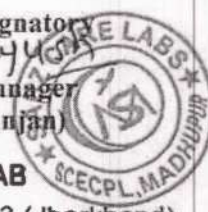
S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	37.02	33.19	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	72.46	65.82	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	24.40	13.39	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	21.64	11.67	80 (µg/m ³)

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

***** END OF REPORT ******Ravi Kumar*

Authorized Signatory

Quality Manager
(Piyush Ranjan)**ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB**

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	06.06.2022 to 08.06.2022	Sample condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Remarks	-----
Sample ID	SCECPL/TR/22/143/AA-134/01,02 & 03	Report Release Date	15.06.2022
Period of Analysis	10.06.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine

(Coordinates- 23°53'28.16"N to 85°04'57.53"E)

Location- 2: Chatibariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location- 3: Kabed Village (Coordinates- 23°53'27.752"N to 85°05'20.06"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 32.5
2. Relative Humidity (%) : 45
3. Barometric Pressure (mBar) : 1002
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.36	0.45	0.34	2 (mg/m ³)

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***

Ravi Kumar

Authorized Signatory

Quality Manager
(Piyush Ranjan)



ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	07.06.2022 to 09.06.2022	Sample condition	Scaled and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Remarks	-----
Sample ID	SCECPL/TR/22/143/AA-135/04 & 05	Report Release Date	15.06.2022
Period of Analysis	10.06.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-4: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location- 5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 32.5
- Relative Humidity (%) : 45
- Barometric Pressure (mBar) : 1002
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.49	0.32	2 (mg/m ³)

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***

Pavi Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)



ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com

**Sabz Care****Environmental Consultancy Pvt. Ltd.***Let's start thinking about nature for tomorrow*Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000346
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	27.06.2022 to 28.06.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/168/AA-152/01,02 & 03	Remarks	-----
Period of Analysis	01.07.2022 to 02.07.2022	Report Release Date	04.07.2022

A. GENERAL INFORMATION**Location of Sampling:** Location-1: Site Office Chatti Bariatu Coal Mine

(Coordinates- 23°53'28.16"N to 85°04'57.53"E)

Location- 2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location- 3: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location**B. METEOROLOGICAL INFORMATION**

1. Average Ambient Temperature (°C) : 33
2. Relative Humidity (%) : 65
3. Barometric Pressure (mBar) : 1003
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	36.84	35.88	36.19	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	72.14	69.45	70.25	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	19.64	17.86	18.45	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	17.31	15.06	16.94	80 (µg/m ³)

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

***** END OF REPORT *****

Pari Kumar

**ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB**

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000347
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	28.06.2022 to 29.06.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/168/AA-153/04 & 05	Remarks	
Period of Analysis	01.07.2022 to 02.07.2022	Report Release Date	04.07.2022

A. GENERAL INFORMATION

Location of Sampling: Location-4: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location- 5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 33
2. Relative Humidity (%) : 65
3. Barometric Pressure (mBar) : 1003
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	35.17	33.63	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	73.20	70.00	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	21.42	16.07	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	22.21	14.12	80 (µg/m ³)

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	27.06.2022 to 28.06.2022	Sample condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Remarks	-----
Sample ID	SCECPL/TR/22/168/AA-152/01,02 & 03	Report Release Date	04.07.2022
Period of Analysis	01.07.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine

(Coordinates- 23°53'28.16"N to 85°04'57.53"E)

Location- 2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location- 3: Kabed Village (Coordinates- - 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 33
2. Relative Humidity (%) : 65
3. Barometric Pressure (mBar) : 1003
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.39	0.47	0.39	2 (mg/m ³)

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	28.06.2022 to 29.06.2022	Sample condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Remarks	-----
Sample ID	SCECPL/TR/22/168/AA-153/04 & 05	Report Release Date	04.07.2022
Period of Analysis	01.07.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-4: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location- 5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 33
- Relative Humidity (%) : 65
- Barometric Pressure (mBar) : 1003
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.52	0.36	2 (mg/m ³)

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

*** END OF REPORT ***

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

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Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000384
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	14.07.2022 to 15.07.2022	Sample Collected by	Istekhar Sabir & Team
Type of Sample	Suspended Dust and Gases	Sample condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/186/AA-165/01,02 & 03	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	18.07.2022 to 19.07.2022	Report Release Date	22.07.2022

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location- 2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location- 3: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 28
2. Relative Humidity (%) : 78
3. Barometric Pressure (mBar) : 998
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	39.60	38.15	37.27	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	73.13	70.37	71.30	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	20.54	18.75	19.64	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	18.63	16.37	17.50	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar



Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000385
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	15.07.2022 to 16.07.2022	Sample Collected by	Iftekhar Sabir & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/186/AA-166/04 & 05	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	18.07.2022 to 19.07.2022	Report Release Date	22.07.2022

A. GENERAL INFORMATION

Location of Sampling: Location-4: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 28
2. Relative Humidity (%) : 78
3. Barometric Pressure (mBar) : 998
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	38.24	34.91	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	76.25	69.42	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	22.32	17.86	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	23.15	15.81	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pav Kumar

Authorized Signatory
Piyush Ranjan
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Iftekhar Sabir & Team
Date of Sampling	14.07.2022 to 15.07.2022	Sample Condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/186/AA-165/01,02 & 03	Report Release Date	22.07.2022
Period of Analysis	18.07.2022 to 19.07.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location-2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location- 3: Kabed Village (Coordinates- - 23°53'23.0"N to 85°05'23.8"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C)** : 28
- Relative Humidity (%)** : 78
- Barometric Pressure (mBar)** : 998
- Smell or Odour** : No Remarkable smell
- Weather condition** : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.37	0.44	0.36	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pav Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

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Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Iftexhar Sabir & Team
Date of Sampling	15.07.2022 to 16.07.2022	Sample Condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/186/AA-166/04 & 05	Report Release Date	22.07.2022
Period of Analysis	18.07.2022 to 19.07.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location- 5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 28
- Relative Humidity (%) : 78
- Barometric Pressure (mBar) : 998
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifi cations as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.48	0.32	2 (mg/m ³)

***** END OF REPORT *****

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Fair Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

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 Accredited by NABL, ISO/IEC 17025:2017

TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000498
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	29.07.2022 to 30.07.2022	Sample Collected by	Iftexhar Sabir & Team
Type of Sample	Suspended Dust and Gases	Sample condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/204/AA-178/01,02 & 03	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	01.08.2022 to 02.08.2022	Report Release Date	10.08.2022

A. GENERAL INFORMATION

Location of Sampling: Location-1: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
 (Coordinates- 23°53'28.16"N to 85°04'57.53"E)
 Location- 2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
 Location- 3: Site Office Chatti Bariatu Coal Mine (23°53'28.16"N to 85°04'57.53"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 26.5
2. Relative Humidity (%) : 78.5
3. Barometric Pressure (mBar) : 1002
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	39.83	37.49	38.27	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	75.66	72.52	74.32	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	23.21	20.54	22.32	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	20.89	19.76	18.63	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
 Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000499
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	30.07.2022 to 31.07.2022	Sample Collected by	Iftekhhar Sabir & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/204/AA-179/04 & 05	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	01.08.2022 to 02.08.2022	Report Release Date	10.08.2022

A. GENERAL INFORMATION

Location of Sampling: Location-4: **Kabed Village** (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location-5: **Kishunpur Village** (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 26.5
2. Relative Humidity (%) : 78.5
3. Barometric Pressure (mBar) : 1002
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Spec ifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	35.88	34.46	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	70.68	68.80	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	18.75	16.96	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	19.20	15.24	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Fai Jumar

Authorized Signatory
Piyush
Quality Manager
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ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Iftekhhar Sabir & Team
Date of Sampling	29.07.2022 to 30.07.2022	Sample condition	Scaled and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/204/AA-178/01,02 & 03	Report Release Date	10.08.2022
Period of Analysis	01.08.2022 to 02.08.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-1: **Keredari P.S.** (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location- 2: **Chatti Bariatu Village** (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location- 3: **Site Office Chatti Bariatu Coal Mine** (23°53'28.16"N to 85°04'57.53"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C)** : 26.5
- Relative Humidity (%)** : 78.5
- Barometric Pressure (mBar)** : 1002
- Smell or Odour** : No Remarkable smell
- Weather condition** : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.46	0.42	0.35	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pavi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Iftexhar Sabir & Team
Date of Sampling	30.07.2022 to 31.07.2022	Sample Condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/VO/22-23/010
Sample ID	SCECPL/TR/22/204/AA-179/04 & 05	Report Release Date	10.08.2022
Period of Analysis	01.08.2022 to 02.08.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-4: **Kabed Village** (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location-5: **Kishunpur Village** (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C)** : 26.5
- Relative Humidity (%)** : 78.5
- Barometric Pressure (mBar)** : 1002
- Smell or Odour** : No Remarkable smell
- Weather condition** : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifi cations as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.38	0.35	2 (mg/m ³)

***** END OF REPORT *****

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Sanj Kumar

Authorized Signatory

Piyush
**Quality Manager
(Piyush Ranjan)**

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000522
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	12.08.2022 to 13.08.2022	Sample Collected by	Vivek Kr Malakar & Team
Type of Sample	Suspended Dust and Gases	Sample condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/219/AA-185/01,02 & 03	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	16.08.2022 to 17.08.2022	Report Release Date	20.08.2022

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location- 2: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location- 3: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29
2. Relative Humidity (%) : 69
3. Barometric Pressure (mBar) : 1011
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	39.52	37.11	40.49	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	76.74	71.50	77.69	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	23.21	19.64	25.89	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	17.50	18.63	22.58	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000523
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	13.08.2022 to 14.08.2022	Sample Collected by	Vivek Kr malakar & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/219/AA-186/04 & 05	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	16.08.2022 to 17.08.2022	Report Release Date	20.08.2022

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29
2. Relative Humidity (%) : 69
3. Barometric Pressure (mBar) : 1011
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	35.21	36.63	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	74.85	69.30	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	18.75	15.18	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	20.32	16.37	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000529
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	20.08.2022 to 21.08.2022	Sample Collected by	Md Taushif Nawaz & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Scaled and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/222/AA-193/01.02 & 03	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	23.08.2022 to 24.08.2022	Report Release Date	25.08.2022

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location- 2: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location- 3: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 29
- Relative Humidity (%) : 81.5
- Barometric Pressure (mBar) : 1001
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	40.71	38.69	39.21	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	78.56	73.30	71.82	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	20.54	16.96	21.43	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	15.81	19.20	20.32	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation.
- Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000530
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	21.08.2022 to 22.08.2022	Sample Collected by	Mid Taushif Nawaz & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/222/AA-194/04 & 05	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	23.08.2022 to 24.08.2022	Report Release Date	25.08.2022

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29
2. Relative Humidity (%) : 85
3. Barometric Pressure (mBar) : 1001
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	34.46	32.58	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	70.73	67.38	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	13.39	12.50	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	18.63	17.50	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Vivek Kr Malakar & Team
Date of Sampling	12.08.2022 to 13.08.2022	Sample Condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/219/AA-185/01,02 & 03	Report Release Date	20.08.2022
Period of Analysis	16.08.2022 to 17.08.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location-2: Kated Village (Coordinates- - 23°53'23.0"N to 85°05'23.8"E)
Location- 3: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 29
- Relative Humidity (%) : 69
- Barometric Pressure (mBar) : 1011
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.48	0.41	0.44	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pavi Kumar

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Piyush
Quality Manager
(Piyush Ranjan)

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Vivek kr Malakar & Team
Date of Sampling	13.08.2022 to 14.08.2022	Sample Condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/219/AA-186/04 & 05	Report Release Date	20.08.2022
Period of Analysis	16.08.2022 to 17.08.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location- 5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 29
- Relative Humidity (%) : 69
- Barometric Pressure (mBar) : 1011
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1	Carbou Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.36	0.34	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Md Taushif Nawaz & Team
Date of Sampling	20.08.2022 to 21.08.2022	Sample Condition	Scaled and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/VO/22-23/010
Sample ID	SCECPL/TR/22/222/AA-193/01,02 & 03	Report Release Date	25.08.2022
Period of Analysis	23.08.2022 to 24.08.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location-2: Kated Village (Coordinates- - 23°53'23.0"N to 85°05'23.8"E)
Location- 3: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 29
- Relative Humidity (%) : 81.5
- Barometric Pressure (mBar) : 1001
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.46	0.40	0.42	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Md Taushif Nawaz & Team
Date of Sampling	21.08.2022 to 22.08.2022	Sample Condition	Sealed and Preserved
Type of Sample	Suspended Dust and Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/222/AA-194/04 & 05	Report Release Date	25.08.2022
Period of Analysis	23.08.2022 to 24.08.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location- 5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29
2. Relative Humidity (%) : 81.5
3. Barometric Pressure (mBar) : 1001
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.33	0.31	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 30 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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**Sabz Care****Environmental Consultancy Pvt. Ltd.***lets start thinking about nature for tomorrow*Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000641
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	06.09.2022 to 07.09.2022	Sample Collected by	Vivek Kr Malakar & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/233/AA-203/01,02 & 03	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	09.09.2022 to 10.09.2022	Report Release Date	15.09.2022

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location- 2: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location- 3: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 30.0
2. Relative Humidity (%) : 75
3. Barometric Pressure (mBar) : 1007
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	42.13	39.96	40.10	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	76.54	74.73	75.32	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	23.21	19.64	20.54	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	18.63	17.50	19.20	80 (µg/m ³)

***** END OF REPORT *****

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000642
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	07.09.2022 to 08.09.2022	Sample Collected by	Vivek Kr Malakar & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/233/AA-204/04 & 05	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	09.09.2022 to 10.09.2022	Report Release Date	15.09.2022

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 30
2. Relative Humidity (%) : 75
3. Barometric Pressure (mBar) : 1007
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	36.53	33.72	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	69.63	70.24	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	22.32	18.75	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	20.32	17.69	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Paw Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

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Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Vivek Kr Malakar & Team
Date of Sampling	06.09.2022 to 07.09.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/233/AA-203/06, 07 & 08	Report Release Date	15.09.2022
Period of Analysis	09.09.2022 to 10.09.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location-2: **Kahed Village** (Coordinates- - 23°53'23.0"N to 85°05'23.8"E)
Location- 3: **Keredari P.S.** (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 30
2. Relative Humidity (%) : 73
3. Barometric Pressure (mBar) : 1007
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.46	0.42	0.44	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

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- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Paul Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Vivek Kr Malakar & Team
Date of Sampling	07.09.2022 to 08.09.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/VO/22-23/010
Sample ID	SCECPL/TR/22/233/AA-204/09 & 10	Report Release Date	15.09.2022
Period of Analysis	09.09.2022 to 10.09.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location- 5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 30.0
2. Relative Humidity (%) : 75
3. Barometric Pressure (mBar) : 1007
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.39	0.33	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

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- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pai Kumar

Authorized Signatory
Piyush
Quality Manager
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ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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**Sabz Care****Environmental Consultancy Pvt. Ltd.***Let's start thinking about nature for tomorrow*Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000769
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	22.09.2022 to 23.09.2022	Sample Collected by	Md Taushif Nawaz & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/265/AA-237/01,02 & 03	Work Order No.	CBCMPL/VO/22-23/010
Period of Analysis	26.09.2022 to 27.09.2022	Report Release Date	27.09.2022

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location- 2: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location- 3: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29.0
2. Relative Humidity (%) : 71
3. Barometric Pressure (mBar) : 1005
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	41.30	36.71	39.63	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	74.26	69.83	71.52	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	22.32	18.75	21.43	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	19.76	16.94	18.63	80 (µg/m ³)

***** END OF REPORT *****

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pari Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)**ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB**

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000770
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	23.09.2022 to 24.09.2022	Sample Collected by	Md Taushif Nawaz & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/265/AA-238/04 & 05	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	26.09.2022 to 27.09.2022	Report Release Date	27.09.2022

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29
2. Relative Humidity (%) : 71
3. Barometric Pressure (mBar) : 1005
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	33.79	30.45	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	68.14	61.38	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	20.54	17.86	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	18.07	15.24	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Fauz Kumar

Authorized Signatory

Piyush
Quality Manager
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Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Md Taushif Nawaz & Team
Date of Sampling	22.09.2022 to 23.09.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/265/AA-237/06, 07 & 08	Report Release Date	27.09.2022
Period of Analysis	26.09.2022 to 27.09.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location-2: Kated Village (Coordinates- - 23°53'23.0"N to 85°05'23.8"E)
Location- 3: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29
2. Relative Humidity (%) : 71
3. Barometric Pressure (mBar) : 1005
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.44	0.40	0.43	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Fari Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

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Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Md Taushif Nawaz & Team
Date of Sampling	23.09.2022 to 24.09.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/265/AA-238/09 & 10	Report Release Date	27.09.2022
Period of Analysis	26.09.2022 to 27.09.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location- 5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29.0
2. Relative Humidity (%) : 71
3. Barometric Pressure (mBar) : 1005
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.35	0.31	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Fai Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com

**Sabz Care****Environmental Consultancy Pvt. Ltd.***lets start thinking about nature for tomorrow*Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC99482200000821
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	10.10.2022 to 11.10.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/282/AA-248/01,02 & 03	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	13.10.2022 to 14.10.2022	Report Release Date	19.10.2022

A. GENERAL INFORMATION

Location of Sampling: Location-1: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
 Location-2: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
 Location-3: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29.0
2. Relative Humidity (%) : 48
3. Barometric Pressure (mBar) : 1009
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	40.46	37.78	31.26	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	73.36	68.74	60.69	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	23.21	17.86	18.75	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	20.32	17.50	16.94	80 (µg/m ³)

***** END OF REPORT *****

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Rani Kumar

Authorized Signatory
Piyush
 Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY ; OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan, Blghas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
 Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com

**Sabz Care****Environmental Consultancy Pvt. Ltd.***let's start thinking about nature for tomorrow*Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000822
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	11.10.2022 to 12.10.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/282/AA-249/04 & 05	Work Order No.	CBCMPL/VO/22-23/010
Period of Analysis	13.10.2022 to 14.10.2022	Report Release Date	19.10.2022

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office Chatti Bariatu Coal Mine

(Coordinates- 23°53'28.16"N to 85°04'57.53"E)

Location-5: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29
2. Relative Humidity (%) : 48
3. Barometric Pressure (mBar) : 1009
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	39.52	32.12	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	70.79	69.55	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	21.43	19.64	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	19.20	17.50	80 (µg/m ³)


*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory


 Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	10.10.2022 to 11.10.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/282/AA-248/06, 07 & 08	Report Release Date	19.10.2022
Period of Analysis	13.10.2022 to 14.10.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-2: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location-3: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29
2. Relative Humidity (%) : 48
3. Barometric Pressure (mBar) : 1009
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.46	0.42	0.39	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

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- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	11.10.2022 to 12.10.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/282/AA-249/09 & 10	Report Release Date	19.10.2022
Period of Analysis	13.10.2022 to 14.10.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office Chatti Bariatu Coal Mine

(Coordinates- 23°53'28.16"N to 85°04'57.53"E)

Location-5: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 29.0
2. Relative Humidity (%) : 48
3. Barometric Pressure (mBar) : 1009
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifi cations as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.43	0.41	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

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- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ran Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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**Sabz Care****Environmental Consultancy Pvt. Ltd.**

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Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000918
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	25.10.2022 to 26.10.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/291/AA-256/01,02 & 03	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	28.10.2022 to 29.10.2022	Report Release Date	29.10.2022

A. GENERAL INFORMATION

Location of Sampling: Location-1: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
 Location-2: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
 Location-3: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 26.0
2. Relative Humidity (%) : 43
3. Barometric Pressure (mBar) : 1015
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

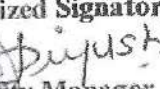
S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	41.87	36.58	30.45	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	75.60	66.59	61.31	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	25.89	16.96	17.86	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	22.58	15.81	14.12	80 (µg/m ³)

***** END OF REPORT *****

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory

 Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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**Sabz Care****Environmental Consultancy Pvt. Ltd.**

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Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	ULR No.	TC994822000000919
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	26.10.2022 to 27.10.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/291/AA-257/04 & 05	Work Order No.	CBCMPL/WO/22-23/010
Period of Analysis	28.10.2022 to 29.10.2022	Report Release Date	29.10.2022

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location-5: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 26
2. Relative Humidity (%) : 43
3. Barometric Pressure (mBar) : 1015
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	40.72	34.37	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	73.84	71.25	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	24.11	19.64	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	21.45	18.63	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

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- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Riyush Ranjan
Quality Manager
(Riyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	25.10.2022 to 26.10.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/291/AA-256/06, 07 & 08	Report Release Date	29.10.2022
Period of Analysis	28.10.2022 to 29.10.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-2: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location-3: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 26
2. Relative Humidity (%) : 43
3. Barometric Pressure (mBar) : 1015
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.48	0.41	0.38	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

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Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Date of Sampling	26.10.2022 to 27.10.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/291/AA-257/09 & 10	Report Release Date	29.10.2022
Period of Analysis	28.10.2022 to 29.10.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location-5: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 26.0
2. Relative Humidity (%) : 43
3. Barometric Pressure (mBar) : 1015
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifi cations as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.45	0.39	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

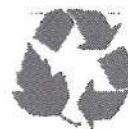
- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush Ranjan
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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**Sabz Care****Environmental Consultancy Pvt. Ltd.**

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Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Unique Lab Report No. (ULR No.)		TC994822000000943F	
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	03.11.2022 to 04.11.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/302/AA-265/01, 02 & 03	Report Release Date	10.11.2022
Period of Analysis	05.11.2022 to 07.11.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
 Location-2: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
 Location-3: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)
Duration of Sampling: 24 hours Each Location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 25.5
2. Relative Humidity (%) : 42
3. Barometric Pressure (mBar) : 1016
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	40.38	36.52	32.54	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	74.73	65.43	63.32	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	23.21	20.54	19.64	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	20.32	17.50	16.37	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory

 Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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Sabz Care Environmental Consultancy Pvt. Ltd.



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TEST REPORT

Unique Lab Report No. (ULR No.)		TC99482200000944F	
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	04.11.2022 to 05.11.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/302/AA-266/01 & 02	Report Release Date	10.11.2022
Period of Analysis	05.11.2022 to 07.11.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office Chatti Bariatu Coal Mine (23°53'28.16"N to 85°04'57.53"E)
Location-5: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 25.5
2. Relative Humidity (%) : 42
3. Barometric Pressure (mBar) : 1016
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	43.66	39.41	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	76.84	69.34	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	25.00	22.32	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	22.58	19.76	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pai Kumar

Authorized Signatory
Piyush Ranjan
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	03.11.2022 to 04.11.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/302/AA-265/04, 05 & 06	Report Release Date	10.11.2022
Period of Analysis	05.11.2022 to 07.11.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-2: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location-3: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 25.5
- Relative Humidity (%) : 42
- Barometric Pressure (mBar) : 1016
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.47	0.38	0.36	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush Ranjan
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	04.11.2022 to 05.11.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/302/AA-266/03 & 04	Report Release Date	10.11.2022
Period of Analysis	05.11.2022 to 07.11.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location-5: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 25.5
- Relative Humidity (%) : 42
- Barometric Pressure (mBar) : 1016
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifi cations as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.49	0.40	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ranjan

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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TEST REPORT

Unique Lab Report No. (ULR No.)	TC994822000001122F		
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazariabagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	18.11.2022 to 19.11.2022	Sample Collected by	Hassan A. Khan & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/331/AA-293/01, 02 & 03	Report Release Date	23.11.2022
Period of Analysis	21.11.2022 to 22.11.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-2: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location-3: Kishumpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours Each Location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 18.5
2. Relative Humidity (%) : 45
3. Barometric Pressure (mBar) : 1016
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	38.25	35.39	34.18	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	75.24	65.50	64.48	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	24.11	21.43	20.54	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	22.58	19.76	17.50	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pai Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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**Sabz Care****Environmental Consultancy Pvt. Ltd.***let's start thinking about nature for tomorrow*Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Unique Lab Report No. (ULR No.)		TC994822000001123F	
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	19.11.2022 to 20.11.2022	Sample Collected by	Hassan A. Khan & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Scaled and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/331/AA-294/01 & 02	Report Release Date	23.11.2022
Period of Analysis	21.11.2022 to 22.11.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office Chatti Bariatu Coal Mine (23°53'28.16"N to 85°04'57.53"E)
Location-5: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 18.5
2. Relative Humidity (%) : 45
3. Barometric Pressure (mBar) : 1016
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	42.22	38.42	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	78.03	70.31	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	26.79	21.43	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	23.15	20.89	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Fair times

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	18.11.2022 to 19.11.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/331/AA-293/04, 05 & 06	Report Release Date	23.11.2022
Period of Analysis	21.11.2022 to 22.11.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-2: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Location-3: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 18.5
- Relative Humidity (%) : 45
- Barometric Pressure (mBar) : 1016
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.46	0.37	0.38	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ran

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Hassan A. khan & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	19.11.2022 to 20.11.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/331/AA-294/03 & 04	Report Release Date	23.11.2022
Period of Analysis	21.11.2022 to 22.11.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office Chatti Bariatu Coal Mine
(Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Location-5: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

B. METEOROLOGICAL INFORMATION

- Average Ambient Temperature (°C) : 18.5
- Relative Humidity (%) : 45
- Barometric Pressure (mBar) : 1016
- Smell or Odour : No Remarkable smell
- Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifi cations as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.38	0.41	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pai Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

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TEST REPORT

Unique Lab Report No. (ULR No.)	TC994822000001173F		
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	08.12.2022 to 09.12.2022	Sample Collected by	Vivek Kr Malakar & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/359/AA-316/01, 02 & 03	Report Release Date	15.12.2022
Period of Analysis	12.12.2022 to 13.12.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine (23°53'28.16"N to 85°04'57.53"E)
Location-2: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-3: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Duration of Sampling: 24 hours Each Location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 23
2. Relative Humidity (%) : 55
3. Barometric Pressure (mBar) : 1012
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	40.80	37.13	33.96	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	77.54	76.29	64.18	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182 (Part 2)	25.83	24.17	23.33	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182 (Part 6)	22.17	21.48	20.09	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pan Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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**Sabz Care****Environmental Consultancy Pvt. Ltd.***lets start thinking about nature for tomorrow*Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Unique Lab Report No. (ULR No.)	TC994822000001174F		
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	09.12.2022 to 10.12.2022	Sample Collected by	Vivek Kr Malakar & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/359/AA-317/01 & 02	Report Release Date	15.12.2022
Period of Analysis	12.12.2022 to 13.12.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 22.0
2. Relative Humidity (%) : 72
3. Barometric Pressure (mBar) : 1005
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	39.51	30.70	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	74.85	62.49	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	22.50	22.78	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	19.40	18.71	80 (µg/m ³)

***** END OF REPORT *****

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Paw Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Vivek Kr. Malakar & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	08.12.2022 to 09.12.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/VO/22-23/010
Sample ID	SCECPL/TR/22/359/AA-316/04, 05 & 06	Report Release Date	15.12.2022
Period of Analysis	12.12.2022 to 13.12.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1: Site Office Chatti Bariatu Coal Mine (23°53'28.16"N to 85°04'57.53"E)
Location-2: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-3: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 22.0
2. Relative Humidity (%) : 72
3. Barometric Pressure (mBar) : 1005
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.41	0.45	0.40	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Vivek Kr. Malakar & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	08.12.2022 to 09.12.2022	Sample Condition	Scaled and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/VO/22-23/010
Sample ID	SCECPL/TR/22/359/AA-317/03 & 04	Report Release Date	15.12.2022
Period of Analysis	12.12.2022 to 13.12.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 23.0
2. Relative Humidity (%) : 55
3. Barometric Pressure (mBar) : 1012
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.42	0.39	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pai Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Unique Lab Report No. (ULR No.)	TC994822000001211F		
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	19.12.2022 to 20.12.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Scaled and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/385/AA-335/01, 02 & 03	Report Release Date	23.12.2022
Period of Analysis	22.12.2022 to 23.12.2022		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Chatti Bariatu Coal Mine Pit area (Coordinates- 23°53'49"N to 85°03'44"E)
Location-2: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-3: Kaled Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours Each Location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 22
2. Relative Humidity (%) : 68
3. Barometric Pressure (mBar) : 1010
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	38.56	35.25	30.18	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	82.22	72.42	70.18	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182 (Part 2)	26.67	25.00	21.67	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182 (Part 6)	23.55	20.78	18.71	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Authorized Signatory

 Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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TEST REPORT

Unique Lab Report No. (ULR No.)	TC994822000001212F		
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	20.12.2022 to 21.12.2022	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/22/385/AA-336/01 & 02	Report Release Date	23.12.2022
Period of Analysis	22.12.2022 to 23.12.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 21
2. Relative Humidity (%) : 70
3. Barometric Pressure (mBar) : 1010
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	40.18	32.56	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	75.66	66.52	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	23.33	20.83	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	20.78	18.02	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazariabagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	19.12.2022 to 20.12.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/385/AA-335/04, 05 & 06	Report Release Date	23.12.2022
Period of Analysis	22.12.2022 to 23.12.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1 : Chatti Bariatu Coal Mine Pit area (Coordinates- 23°53'49"N to 85°03'44"E)
Location-2: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-3: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 22
2. Relative Humidity (%) : 68
3. Barometric Pressure (mBar) : 1010
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.47	0.42	0.38	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Raj Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

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Contact : 09334315731, 07563048389, e-mail : sabzcaremanagementservices@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	20.12.2022 to 21.12.2022	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/385/AA-336/03 & 04	Report Release Date	23.12.2022
Period of Analysis	22.12.2022 to 23.12.2022	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 21
2. Relative Humidity (%) : 70
3. Barometric Pressure (mBar) : 1010
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.40	0.35	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pari Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Kanjan)

ISO 9001:2015 CERTIFIED COMPANY:OHSAS:18001:2007 CERTIFIED LAB

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TEST REPORT

Unique Lab Report No. (ULR No.)	TC994823000000130F		
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	04.01.2023 to 05.01.2023	Sample Collected by	Vivek Kr. Malakar & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/05/AA-04/01, 02 & 03	Report Release Date	11.01.2023
Period of Analysis	06.01.2023 to 07.01.2023		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Chatti Bariatu Coal Mine Pit area (Coordinates- 23°53'49"N to 85°03'44"E)
Location-2: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-3: Kaded Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)
Duration of Sampling: 24 hours Each Location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 18
2. Relative Humidity (%) : 56
3. Barometric Pressure (mBar) : 1018
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	39.77	34.14	31.38	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	83.94	75.42	71.68	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	25.83	24.17	22.50	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	21.48	22.17	19.40	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

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Authorized Signatory
Piyush Ranjan
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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TEST REPORT

Unique Lab Report No. (ULR No.)	TC994823000000131F		
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	05.01.2023 to 06.01.2023	Sample Collected by	Vivek Kr Malakar & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/05/AA-05/01 & 02	Report Release Date	11.01.2023
Period of Analysis	06.01.2023 to 07.01.2023	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 18
2. Relative Humidity (%) : 56
3. Barometric Pressure (mBar) : 1018
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

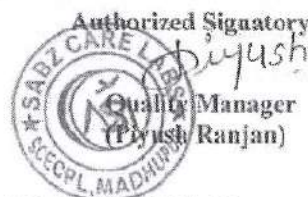
S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	38.56	30.60	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	74.26	68.13	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	23.33	21.67	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	20.79	19.40	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ran Kumar



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Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Vivek Kr. Malakar & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	04.01.2023 to 05.01.2023	Sample Condition	Scaled and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/05/AA-04/01, 02 & 03	Report Release Date	11.01.2023
Period of Analysis	06.01.2023 to 07.01.2023	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1 : Chatti Bariatu Coal Mine Pit area (Coordinates- 23°53'49"N to 85°03'44"E)
Location-2: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-3: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 18
2. Relative Humidity (%) : 56
3. Barometric Pressure (mBar) : 1018
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.49	0.43	0.40	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Vivek Kr Malakar & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	05.01.2023 to 06.01.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/22/05/AA-05/03 & 04	Report Release Date	11.01.2023
Period of Analysis	06.01.2023 to 07.01.2023	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 18
2. Relative Humidity (%) : 56
3. Barometric Pressure (mBar) : 1018
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.41	0.39	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory



ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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TEST REPORT

Unique Lab Report No. (ULR No.)	TC994823000000288F		
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	20.01.2023 to 21.01.2023	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCCPL/TR/23/34/AA-28/01, 02 & 03	Report Release Date	25.01.2023
Period of Analysis	23.01.2023 to 24.01.2023		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Chatti Bariatu Coal Mine Pit area (Coordinates- 23°53'49"N to 85°03'44"E)
Location-2: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-3: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours Each Location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 21
2. Relative Humidity (%) : 51
3. Barometric Pressure (mBar) : 1014
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	40.82	36.89	32.68	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	85.16	79.42	74.59	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	24.17	23.33	19.17	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	18.71	20.09	17.32	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pavi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : sccecplmdp@gmail.com



TEST REPORT

Unique Lab Report No. (ULR No.)	TC994823000000289F		
Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	21.01.2023 to 22.01.2023	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/34/AA-29/01 & 02	Report Release Date	25.01.2023
Period of Analysis	23.01.2023 to 24.01.2023	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 21
2. Relative Humidity (%) : 51
3. Barometric Pressure (mBar) : 1014
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	39.35	30.20	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	77.28	71.36	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	20.83	18.33	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	19.40	17.32	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com

**Sabz Care****Environmental Consultancy Pvt. Ltd.***Let's start thinking about nature for tomorrow***TEST REPORT**

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	20.01.2023 to 21.01.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/23/34/AA-28/01, 02 & 03	Report Release Date	25.01.2023
Period of Analysis	24.01.2023	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-1 : Chatti Bariatu Coal Mine Pit area (Coordinates- 23°53'49"N to 85°03'44"E)
 Location-2: Keredari P.S. (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
 Location-3: Kated Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 21
2. Relative Humidity (%) : 51
3. Barometric Pressure (mBar) : 1014
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.46	0.40	0.37	2 (mg/m ³)

***** END OF REPORT *****

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory

 Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Opencast Coal Mining Project of M/s Chatti Bariatu Coal Mining Private Limited (M/s NTPC Ltd.)	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	21.01.2023 to 22.01.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/23/34/AA-29/03 & 04	Report Release Date	25.01.2023
Period of Analysis	23.01.2023 to 24.01.2023	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 21
2. Relative Humidity (%) : 51
3. Barometric Pressure (mBar) : 1014
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.39	0.36	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pari Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com

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Unique Lab Report No. (ULR No.)	TC994823000000346F		
Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	14.02.2023 to 15.02.2023	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sahz Care Lab
Sample ID	SCECPL/TR/23/75/AA-64/01, 02 & 03	Report Release Date	21.02.2023
Period of Analysis	17.02.2023 to 18.02.2023		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Coal Face (Near DG Set) (Coordinates- 23°53'49"N to 85°03'44"E)
 Location-2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
 Location-3: Site Office CBCMPL (Coordinates- 23°53'28.16"N to 85°04'57.53"E)

Duration of Sampling: 24 hours Each Location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 21.5
2. Relative Humidity (%) : 49
3. Barometric Pressure (mBar) : 1012
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	40.15	36.53	37.33	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	85.94	79.63	81.39	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182 (Part 2)	24.17	23.33	19.17	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182 (Part 6)	18.71	20.79	17.32	80 (µg/m ³)

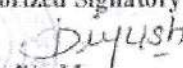
*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory


 Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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TEST REPORT

Unique Lab Report No. (ULR No.)	TC994823000000347F		
Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	15.02.2023 to 16.02.2023	Sample Collected by	Ranjeet Yadav & Team
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)		
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/75/AA-65/01 & 02	Report Release Date	21.02.2023
Period of Analysis	17.02.2023 to 18.02.2023	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Coal Stock Yard (Coordinates- 23°53'44.65"N to 85°04'30.23"E)

Location-5: Keredari Village (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 21.5
2. Relative Humidity (%) : 49
3. Barometric Pressure (mBar) : 1012
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	39.50	34.48	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	82.16	77.32	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	20.83	18.33	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	19.40	17.32	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	14.02.2023 to 15.02.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/23/64/AA-04/01, 02 & 03	Report Release Date	21.02.2023
Period of Analysis	17.02.2023 to 18.02.2023	Work Order No.	CBCMPL/WO/22-23/010

A. GENERAL INFORMATION

Location of Sampling: Location-1 : Coal Face (Near DG Set) (Coordinates- 23°53'49"N to 85°03'44"E)
Location-2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-3: Site Office CBCMPL (Coordinates- 23°53'28.16"N to 85°04'57.53"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 21.5
2. Relative Humidity (%) : 49
3. Barometric Pressure (mBar) : 1012
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.46	0.40	0.37	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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TEST REPORT

Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	15.02.2023 to 16.02.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/VO/22-23/010
Sample ID	SCECPL/TR/23/75/AA-65/03 & 04	Report Release Date	21.02.2023
Period of Analysis	17.02.2023 to 18.02.2023	Work Order No.	CBCMPL/VO/22-23/010

A. GENERAL INFORMATION

Location of Sampling: Location-4: Coal Stock Yard (Coordinates- 23°53'44.65"N to 85°04'30.23"E)
Location-5: Keredari Village (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 21.5
2. Relative Humidity (%) : 49
3. Barometric Pressure (mBar) : 1012
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifi- cations as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.039	0.36	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pavi Kumar

Authorized Signatory

Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com

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Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Unique Lab Report No. (ULR No.)	TC994823000000454F		
Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	22.02.2023 to 23.02.2023	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/90/AA-77/01, 02 & 03	Report Release Date	28.02.2023
Period of Analysis	25.02.2023 to 27.02.2023		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Pit Area (Near DG Set) (Coordinates- 23°53'49"N to 85°03'44"E)
 Location-2: Keredari Village (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
 Location-3: Kabed Village (Coordinates- 23°53'23"N to 85°05'23.8"E)

Duration of Sampling: 24 hours Each Location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 25.5
2. Relative Humidity (%) : 49
3. Barometric Pressure (mBar) : 1017
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	41.80	36.69	32.61	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	87.14	73.92	72.53	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	25.83	19.17	18.33	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	20.79	17.32	16.63	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory

 Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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TEST REPORT

Unique Lab Report No. (ULR No.)	TC994823000000455F		
Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/22-23/010
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	23.02.2023 to 24.02.2023	Sample Collected by	Ranjeet Yadav & Team
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)		
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/90/AA-78/01 & 02	Report Release Date	28.02.2023
Period of Analysis	25.02.2023 to 27.02.2023	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)

Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 25.3
2. Relative Humidity (%) : 49
3. Barometric Pressure (mBar) : 1017
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	35.62	31.39	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	81.45	70.13	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182 (Part 2)	22.50	17.50	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182 (Part 6)	21.48	16.63	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ran Kumar

Authorized Signatory
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com

**Sabz Care****Environmental Consultancy Pvt. Ltd.***lets start thinking about nature for tomorrow***TEST REPORT**

Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	22.02.2023 to 23.02.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/VO/22-23/010
Sample ID	SCECPL/TR/23/90/AA-77/01, 02 & 03	Report Release Date	28.02.2023
Period of Analysis	25.02.2023 to 27.02.2023	Work Order No.	CBCMPL/VO/22-23/010

A. GENERAL INFORMATION

Location of Sampling: Location-1: Pit Area (Near DG Set) (Coordinates- 23°53'49"N to 85°03'44"E)
 Location-2: Keredari Village (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
 Location-3: Kated Village (Coordinates- 23°53'23"N to 85°05'23.8"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 25.5
2. Relative Humidity (%) : 49
3. Barometric Pressure (mBar) : 1017
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.48	0.35	0.34	2 (mg/m ³)

***** END OF REPORT *****

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ran Kumar**ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB**

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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TEST REPORT

Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	23.02.2023 to 24.02.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/23/90/AA-78/03 & 04	Report Release Date	28.02.2023
Period of Analysis	25.02.2023 to 27.02.2023	Work Order No.	CBCMPL/WO/22-23/010

A. GENERAL INFORMATION

Location of Sampling: Location-4: Chatti Bariatu Village(Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 25.5
2. Relative Humidity (%) : 49
3. Barometric Pressure (mBar) : 1017
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifi cations as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.38	0.31	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pari Kumar



ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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TEST REPORT

Unique Lab Report No. (ULR No.)	TC994823000000613F		
Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	13.03.2023 to 14.03.2023	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/120/AA-104/01, 02 & 03	Report Release Date	21.03.2023
Period of Analysis	16.03.2023 to 17.03.2023		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Coal Face (Near DG Set) (Coordinates- 23°53'49"N to 85°03'44"E)
Location-2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-3: Site Office CBCMPL (Coordinates- 23°53'28.16"N to 85°04'57.53"E)
Duration of Sampling: 24 hours Each Location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 27.5
2. Relative Humidity (%) : 42
3. Barometric Pressure (mBar) : 1011
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	46.77	47.70	39.86	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	90.46	81.13	84.32	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	28.33	22.50	24.17	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	25.64	20.79	22.17	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush Ranjan
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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TEST REPORT

Unique Lab Report No. (ULR No.)	TC994823000000577F		
Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	14.03.2023 to 15.03.2023	Sample Collected by	Ranjeet Yadav & Team
Sampling Method	IS 5182 and CPCB Air Manual Volume I (NAAQM/36/2012-13)		
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/120/AA-105/01 & 02	Report Release Date	21.03.2023
Period of Analysis	16.03.2023 to 17.03.2023	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Keredari Village (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 27.5
2. Relative Humidity (%) : 42
3. Barometric Pressure (mBar) : 1011
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	38.44	35.56	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	75.63	72.81	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182 (Part 2)	23.33	21.67	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182 (Part 6)	19.40	17.32	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	13.03.2023 to 14.03.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/23/120/AA-104/04, 05 & 06	Report Release Date	21.03.2023
Period of Analysis	16.03.2023	Work Order No.	CBCMPL/WO/22-23/010

A. GENERAL INFORMATION

Location of Sampling: Location-1 : Coal Face (Near DG Set) (Coordinates- 23°53'49"N to 85°03'44"E)
Location-2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-3: Site Office CBCMPL (Coordinates- 23°53'28.16"N to 85°04'57.53"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 27.5
2. Relative Humidity (%) : 42
3. Barometric Pressure (mBar) : 1011
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.51	0.34	0.46	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Pari Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

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Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecpmdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	14.03.2023 to 15.03.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/23/120/AA-105/03 & 04	Report Release Date	21.03.2023
Period of Analysis	16.03.2023	Work Order No.	CBCMPL/WO/22-23/010

A. GENERAL INFORMATION

Location of Sampling: Location-4: Keredari Village (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 27.5
2. Relative Humidity (%) : 42
3. Barometric Pressure (mBar) : 1011
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.033	0.30	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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**Sabz Care****Environmental Consultancy Pvt. Ltd.***Let's start thinking about nature for tomorrow*Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Unique Lab Report No. (ULR No.)	TC994823000000606F		
Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	27.03.2023 to 28.03.2023	Sample Collected by	Ranjeet Yadav & Team
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/123/AA-107/01, 02 & 03	Report Release Date	31.03.2023
Period of Analysis	30.03.2023 to 31.03.2023		

A. GENERAL INFORMATION

Location of Sampling: Location-1: Coal Face (Near DG Set) (Coordinates- 23°53'49"N to 85°03'44"E)
 Location-2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
 Location-3: Site Office CBCMPL (Coordinates- 23°53'28.16"N to 85°04'57.53"E)

Duration of Sampling: 24 hours Each Location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 28.0
2. Relative Humidity (%) : 47
3. Barometric Pressure (mBar) : 1008
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	48.60	40.53	42.76	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	91.29	79.63	86.72	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	29.17	21.67	25.83	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	26.33	21.48	22.87	80 (µg/m ³)

***** END OF REPORT *****

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory


 Quality Manager
 (Piyush Ranjan)
ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
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**Sabz Care****Environmental Consultancy Pvt. Ltd.***Let's start thinking about nature for tomorrow*Recognized by JSPCB, Ranchi
Accredited by NABL, ISO/IEC 17025:2017**TEST REPORT**

Unique Lab Report No. (ULR No.)	TC994823000000607F		
Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/22-23/010
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.03.2023 to 29.03.2023	Sample Collected by	Ranjeet Yadav & Team
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQM/36/2012-13)		
Type of Sample	Suspended Dust and Gases	Sample Condition	Sealed and Preserved
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/123/AA-108/01 & 02	Report Release Date	31.03.2023
Period of Analysis	30.03.2023 to 31.03.2023	-	-

A. GENERAL INFORMATION

Location of Sampling: Location-4: Keredari Village (Coordinates- 23°51'34.99"N to 85°05'14.39"E)

Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Duration of Sampling: 24 hours each location

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 28.0
2. Relative Humidity (%) : 47
3. Barometric Pressure (mBar) : 1008
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	µg/m ³	IS 5182 (Part 24)	39.67	36.41	60 (µg/m ³)
2.	Particulate Matter as PM ₁₀	µg/m ³	IS 5182 (Part 23)	78.15	71.32	100 (µg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182(Part 2)	24.17	21.67	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS 5182(Part 6)	20.79	18.71	80 (µg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Particulate matters, SO₂ and NO₂ are within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

 Authorized Signatory

 Quality Manager
 (Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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Contact : 09334315731, 07563048389, e-mail : scecpimdp@gmail.com



TEST REPORT

Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	A/- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	27.03.2023 to 28.03.2023	Sample Condition	Scaled and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/23/123/AA-107/04, 05 & 06	Report Release Date	31.03.2023
Period of Analysis	30.03.2023		

A. GENERAL INFORMATION

Location of Sampling: Location-1 : Coal Face (Near DG Set) (Coordinates- 23°53'49"N to 85°03'44"E)
Location-2: Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)
Location-3: Site Office CBCMPL (Coordinates- 23°53'28.16"N to 85°04'57.53"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 28.0
2. Relative Humidity (%) : 47
3. Barometric Pressure (mBar) : 1008
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.52	0.31	0.49	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Ravi Kumar

Authorized Signatory
Priyush
Quality Manager
(Priyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

Registered Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)

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TEST REPORT

Name of Industry	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	A1- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh State-Jharkhand	Sample Collected by	Ranjeet Yadav & Team
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.03.2023 to 29.03.2023	Sample Condition	Sealed and Preserved
Type of Sample	Gases	Sample Drawn By	Sabz Care Lab
Sample Details	Ambient Air	Work Order No.	CBCMPL/WO/22-23/010
Sample ID	SCECPL/TR/23/123/AA-108/03 & 04	Report Release Date	31.03.2023
Period of Analysis	31.03.2023		

A. GENERAL INFORMATION

Location of Sampling: Location-4: Keredari Village (Coordinates- 23°51'34.99"N to 85°05'14.39"E)
Location-5: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

B. METEOROLOGICAL INFORMATION

1. Average Ambient Temperature (°C) : 28.0
2. Relative Humidity (%) : 47
3. Barometric Pressure (mBar) : 1008
4. Smell or Odour : No Remarkable smell
5. Weather condition : Clear

C. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	Requirements/Specifi cations as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.35	0.29	2 (mg/m ³)

*** END OF REPORT ***

Remarks: The ambient air quality with respect to Carbon Monoxide is within the prescribed National Ambient Air Quality Standard.

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

Raj Kumar

Authorized Signatory
Piyush
Quality Manager
(Piyush Ranjan)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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