

Ref. No. 1079/CBCMP/EMG/2024/July/39

Date: 15.07.2024

To, The Deputy Director General of Forests (C) MoEF & CC, Integrated Regional Office, 2nd Floor, Headquarter Jharkhand State Housing Board Harmu Chowk, Ranchi (Jharkhand)-834002

Sub: Six-monthly progress report on compliance of conditions stipulated in the Environmental Clearance (EC) by MoEF & CC and monitoring report for the period October 2023 to March 2024 for NTPC Mining Ltd.- Chatti Bariatu Coal Mining Project (7 MTPA): Reg.

Ref1: EC letter No. J-11015/133/2007-IA.II(M) dated 19.04.2010

Ref2: EC Amendment letter No. J-11015/133/2007-IA.II(M) dated 01.12.2020 Ref3: EC Amendment letter No. J-11015/133/2007-IA.II(M) dated 05.01.2024

Dear Sir,

With reference to the above subject please find enclosed herewith the six-monthly status report on compliance of various conditions stipulated in the Environment Clearance & its amendments accorded to NTPC Mining Ltd.- Chatti Bariatu Coal Mining Project (7 MTPA) for the period October 2023 to March 2024. The monitoring reports on ambient air quality, ground and surface water quality, noise monitoring data etc. are also enclosed with the compliance report.

This is for your kind information please.

Thanking you.

Yours Faithfully,

[Varababu Palathirthapu]

Dy. GM/P&S CBCMP, NML

Encl: A/a
Copy to:

 Sc. E & Regional Director, Kolkata, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, Rajdhanga Main Road, Kolkata-700107 (W.B.). E-mail: mkbiswas.cpcb@nic.in

 Regional Officer, Jharkhand State Pollution Control Board, PTC Chowk, Hazaribagh, Jharkhand. E-mail: jspcb_hazaribagh@rediffmail.com

Member Secretary, Jharkhand State Pollution Control Board, Ranchi-834004 (Jharkhand). E-mail: ranchijspcb@gmail.com

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS

Period: Oct 2023 to March 2024

Six Monthly EC Compliance Report

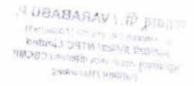
Environmental Clearance Ltr. No.: J-11015/133/2007-IA.II(M) Dated 19.04.2010
Environmental Clearance Ltr. No.: J-11015/133/2007-IA.II(M) Dated 03.03.2016
(Revalidation)
Environmental Clearance Amendment Ltr. No.: J-11015/133/2007-IA.II(M) Dated 01.12.2020

Environmental Clearance Amendment Ltr. No.: J-11015/133/2007-IA.II(M) Dated 05.01.2024





Chhatti Bariatu Coal Mining Project, NTPC Mining Limited, Hazaribagh Jharkhand.





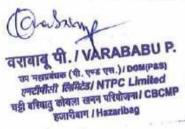
SIX MONTHLY COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE

(PERIOD OCTOBER 2023 TO MARCH 2024)

CHHATTIBARIATU COAL MINING PROJECT (7 MTPA)

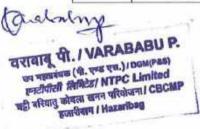
MOEF &CC File No. J-11015/133/2007-1A. II (M) Dated 19.04.2010.

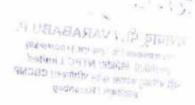
SI. No.	STIPULATED CONDITION AS	COMPLIANCE STATUS AS ON 31.03.2024
A.	Specific Conditions	
(i).	Mining shall not be carried out in 63 ha of forestland until prior forestry clearance is obtained.	Complied. Stage-II Forest Clearance for diversion of 128.92 has forest land involved in ML has been accorded by MoEF&CC vide F.No. 8-42/2010-FC dated 25.11.2011 and re-validated by MoEF&CC vide letter dated 13.04.2017. Copy of FC letters enclosed as Annexure-01.
(ii).	Topsoil of 3.07 Mm ³ shall be stacked properly within the earmarked area with proper slope at earmarked site(s) and shall be used concurrently for reclamation and development of green belt of its generation.	Mining activities at Chatti Bariatu Coal Mining Project started on 25.04.2022 and till 31.03.2024, 0.62 mill. cum topsoil has been excavated. The topsoil is being stacked properly at earmarked site separately within the lease area with proper protective measures. Photographs of the topsoil dump are enclosed as Annexure-02. The topsoil is being used concurrently for development of green belt on OB dump's slope area. Photographs enclosed as Annexure-03.
(iii).	OB shall be stacked at earmarked external OB dumpsite of an area of 38.34 ha for the initial 5 years only and shall be a maximum height of 90 m only. The ultimate slope of the dump shall not exceed 28°. Reclamation of the dumps shall be done using native species and species of economic importance. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be	Being Complied. The mining activity in CBCMP started on 25.04.2022 and till 31.03.2024, 5.96 mill. cum of OB has been excavated. Overburden (OB) is being stacked at earmarked external OB dump site in accordance with the approved Mine plan. The current height of the OB dump is 35 m and will be restricted to 90 m in 3 benches with bench height of 30 m as per latest Central Institute of Mining and Fuel Research (CIMFR) study recommendations. Photographs of OB dump is enclosed as Annexure-03.





SI. No.	STIPULATED CONDITION AS	COMPLIANCE STATUS AS ON 31.03.2024
	submitted to the Ministry of Environment & Forests and its Regional office located at Bhubaneswar on a yearly basis.	reclamation of the closed portion of OB dump will
(iv).	A thick 3-tier plantation shall be developed between the external OB dump and habitation in the SW corner of the ML using native species and species of economic importance.	Currently, OB is being dumped at extreme North within the mining lease. Plantation has been done in the safety zone between the OB dump and habitation in the NW corner of the ML using native species and species of economic importance. Photographs attached as Annexure-04.
(v).	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB, and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly.	Being Complied. Garland drains and siltation ponds of appropriate size have been constructed to arrest silt with adequate water retention. The total length of garland drains is 2506 m (1161.38 m around OB dump) with a width and depth of 1 m each. The water so collected is being used for water sprinkling in the mine area, roads etc. The catch drains and siltation ponds are regularly desilted and maintained properly.
	Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt	Garland drains have been constructed around the quarry area, dump area. The drains are ultimately connected to the siltation pond to arrest silt. More no. of drains has been planned to be constructed before the rainy season to collect the rainwater. The maximum annual rainfall in the last 10 years recorded at Barkagaon/Hazaribagh is 1750 mm (in



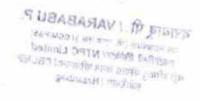




SI. No.	STIPULATED CONDITION AS	COMPLIANCE STATUS AS ON 31.03.2024
	material.	2021). The sump has been developed in the de coaled area of mine pit and designed by keeping 50% safety margin over and above the peal sudden rainfall and maximum discharge in the area adjoining the mine site. The water collected in the quarry area is being utilized for sprinkling to suppress the dust in the mine area, internal roads and for the development of green belt.
(vi).	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.	Being Complied. OB dump is in active stage and presently, the height of OB dump is 35 m. Retaining wall is under construction and till March' 24, 250 m long wall has been constructed. Photographs attached as Annexure-05.
(vii).	Drills shall be wet operated.	Being Complied. Drills are provided with a water injection system and wet cutting arrangements for wet drilling operations. Also, water is being regularly sprinkled in the drilling area to minimize fugitive dust emissions. Photographs of the same have been enclosed as Annexure-06.
(viii).	Controlled blasting shall be practiced only during daytime with the use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	Blasting is being carried out as per the blast design report prepared by M/s CIMFR, Dhanbad, Jharkhand a Gol, CSIR unit, and blasting is being done as per the recommendations. Controlled blasting techniques using delay detonators are being used only during daytime to reduce the blast vibration and to control the flying of rocks. Also, the charge delay per hole is optimized. Blast vibration monitoring data is enclosed as Annexure-07.
ix).	Raw coal from CHP shall be	Agreed to comply.

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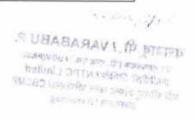
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७व महाप्रबंधक (थी. एवड एल.) I DGM(PAS)
एनटीपीटी लिमिटेड / NTPC Limited
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SI. No.	STIPULATED CONDITION AS	COMPLIANCE STATUS AS ON 31.03.2024
	the railway siding and from there to linked Barh STPS by rail. There shall be no road transportation of coal.	Raw coal from CHP is proposed to be transported by closed conveyors to the railway siding and from there to linked Barh STPS by rail for which dedicated conveyor system to the railway siding is under construction. In view of delay in completion of conveyor system, amendment in Environmental Clearance has been accorded from MoEF&CC vide letter dated 01.12.2020 & 05.01.2024 for transportation of coal by road from mine end as an interim arrangement till 31.10.2024 by adopting all mitigation measures like covering the dispatch trucks with tarpaulin. The coal is being transported strictly through covered trucks only. Photographs enclosed as
	Amendment vide letter no. J11015/133/2007-IA.II(M) Dated 01.12.2020	Annexure-08.
	Width of the road shall be at least 7 mts before the start of the transportation and necessary permission shall be taken from state PWD	The coal is being transported through State Highway to railway sidings and North Karanpura Super Thermal Power Plant (NKSTPP) complying with the conditions. The width of the coal transportation road is more than 7 mts .
		NTPC has carried out required strengthening and broadening of the existing village road from mine boundary to State highway. The expected timeline for completion of construction of alternate road is June 2024.
	PP shall use high axle truck/dumpers (30-40 tonne capacity only) to reduce the number of fleet on road.	The coal at CBCMP is being transported through road in tarpaulin covered high axle trucks with size of up to 50 tonnes.
	Petition(s) Civil No. 114/2014. Common Cause vs Union of India &	Agreed to comply. Mine closing activities shall be done as per the approved mine closure plan.







SI. No.	STIPULATED CONDITION AS	COMPLIANCE STATUS AS ON 31.03.2024
31. NO.	Union of India to impose a	As envisaged in the mine closure plan of CBCMP, it
	condition in the mining lease and a similar condition in the	is agreed to undertake re-grassing of the mining area and any other area which may have disturbed
	environmental clearance and the	due to CBCMP mining activities and restore the
	mining plan to the effect that the	land to a condition fit for growth of fodder, flora,
	mining lease holders shall, after ceasing mining operations,	fauna, etc.
	undertake re-grassing the mining area and any other area which may	An Escrow account has been opened and the amount is being deposited annually. As per
	have disturbed due to their mining	direction received from CCO an amount of Rs. 6.21
	activities and restore the land to a	Crore has been deposited for FY 2023-24 (3rd) and
	condition fit for growth of fodder, flora, fauna, etc. Compliance of this	FY 2024-24 (4 th) as mine closure costs.
	condition after the mining activity	Till date Rs. 11.84 Crore has been deposited in
	is over at the cost of the mining	Escrow Account as part of the Mine Closure Costs.
	lease holders/Project Proponent"	The account statement for FY 2023-24 has been
		enclosed as Annexure-09.
	Project proponent to plant 100,000	Approx. 4,500 plants have been planted along the
	nos. of the native trees with broad	coal transportation route along the boundary of
	leaves along the transportation	mines. Based on the NTPC's request the state
	route in three years to prevent the	forest department has agreed to take up the
	effect of air pollution. After	plantation work along the coal transportation
	completion of tree plantation, number of trees shall be duly	route and a demand was raised for the same vide DFO Ltr. No. 3464 dated 24.06.2023.
	endorsed from District Forest	Subsequently, the amount of 4.61 Cr (1st
	Officer	instalment) & 2.13 Cr (2 nd instalment) have been
П		deposited with the Office of DFO on 04.09.2023 &
		28.03.2024, respectively for plantation of trees.
		Copy of the letter to DFO is enclosed as Annexure-
		10.
	Amendment vide letter no.	Being Complied.
	J11015/133/2007-IA.II(M) Dated	and adultura
	05.01.2024	The work of conveyor, CHP and railway siding is
	1.1) As proposed, PP shall complete	under progress. Further, the CHP is very close to
	the balance work of conveyor and	the mine-pit and the mine pit location changes
	CHP by July, 2024 and railway siding	with advancement of the mining progress. Hence,
	by March, 2025. Further, PP shall	the in-pit conveyor is presently not feasible.
	explore the possibility of	50 TO
	implementing in-pit conveyer till	

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	CHP to stop vehicular transportation.	
	1.2) PP shall submit the approved revised Mine Plan with progressive reclamation for change in land use/area of forest land as per approvals obtained to IRO, MoEF&CC.	Agreed to Comply.
	1.3) PP shall avoid transporting coal by road through forest land without permission from concerned Forest Department.	All the necessary permissions have been obtained from the Forest Department for the transportation of coal by road through the forest land.
	1.4) PP shall use the road having width more than 7 mts with tarpaulin covered 40-50 (payload) dumpers/trucks. Further, State Pollution Control Board shall ensure the emissions of trucks by regular inspections.	The width of roads being used for transportation is more than 7 mts and the transportation is being done strictly with tarpaulin covered trucks. Further, the coal at CBCMP is being transported through high axle trucks with size of up to 50 tonnes. Photographs enclosed as Annexure-08.
	1.5) M/s NTPC shall write to Ministry of Power to co-ordinate with Ministry of Railways for expeditious construction of Railway siding near to the proposed location.	Complied. A request letter has been sent to Ministry of Power vide ref. no. REDCM Sectt/2024/CB&KD/543 dtd. 23.02.2024 to expedite the construction of the Railway Siding for Chatti Bariatu and Kerandari Coal Mining Project. Copy of the letter enclosed as Annexure-11.
		Agreed to Comply. Construction of the road to Shivpur railway siding has been awarded to M/s SHAJ in Dec' 19. Forest Clearance (FC) regarding the Forest land area (3.204 Ha) is awaited. Currently, the Bachra siding is being used for transportation of coal to the NTPC's Thermal Power Plants.
		Being Complied.

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	locations such as schools, hospitals etc for transportation of coal by dumpers/trucks.	The trucks used for transportation of coal are optimally loaded and properly covered with tarpaulin to curb pollution. Further, the coal is being transported with all the necessary permission from the departments concerned.
	1.8) PP shall install at least 10 nos. of fog cannon in mine lease, overburden dump and transportation route within 6 months.	Regular water sprinkling within the mining area, along the transportation route and Railway Siding is being done through 12 nos. of mobile water tankers. Further, the proposal for instalment of fog cannons is under the tendering process.
	1.9) PP shall establish Environmental laboratory at project site by March 2024 and create Environmental Management Cell to monitor the issues related environmental degradation.	Being Complied. Presently, Monitoring and analysis is being done through MoEF&CC and NABL accredited lab in consultation with the State Pollution Control Board. However, an environmental laboratory has been established at the Pagar Site office and an Environment Management Cell is created to monitor the issues related to environmental degradation. The organizational structural chart enclosed as Annexure-12.
	1.10) PP shall explore at least 20% of overall fleet size of dumpers/trucks as electrical or CNG/LNG based dumpers/trucks for transportation of coal/OB etc and deploy e-vehicles for workers/staff in/out of the mine.	There are no CNG/LNG stations located near the CBCMP. Also, latest BS VI version tippers are used for transportation of coal to minimize the emissions.
	1.11) As proposed by PP, construction of road for enroute Shivpur siding shall be immediately completed with water sprinkler and tree planation along the road.	Agreed to Comply. Construction of the road to Shivpur railway siding has been awarded to M/s SHAJ in Dec' 19. Forest Clearance (FC) regarding the Forest land area (3.204 Ha) is awaited.
	1.12) PP shall create a "Public Grievance Redressal and Monitoring System" for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not	Being Complied. A "Public Grievance Redressal and Monitoring System" has been created to resolve issues related to the pollution of mines. Also, a committee has been constituted with the members including

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	beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on "Public Grievance Redressal and Monitoring System".	resolve the issues as soon as possible. Further, a logbook is being maintained on "Public Grievance"
	1.13) PP shall ensure the compliance of expenditure to be incurred for wildlife conservation plan submitted to the State Govt. and the details expenditure shall be submitted with six monthly EC compliance report to Ministry's IRO. Also, PP shall engage State Biodiversity Authority and local biodiversity committee for implementation of CSR activity for developing the local market.	Being Complied. NTPC has deposited Rs. 46,25,21,000.00/- (Rupees Forty-Six Crore Twenty-Five Lakh Twenty-One Thousand only) in ad-hoc CAMPA account for the implementation of Site-Specific Wildlife Management Plan (SSWLMP) prepared in line w th the Integrated Wildlife Management Plan. The implementation of SSWLMP shall be done by the State Forest Department.
	1.14) PP shall submit certified compliance report of EC vide letter F.No. J-11015/133/2007-IA. II (M) dated 19th April, 2010 with a conditions and later re-validated on 03.03.2016 and amendment in EC dated 1st December, 2020.	Agreed to Comply. The certified compliance report will be submitted along with the next six-monthly compliance report.
	1.15) PP shall commission a study for evaluating the impact of air pollution generated by its activities on the forests upto a distance of about 10 kms through an institution of MoEFCC.	Agreed to Comply. A request mail was sent to the Director of Institute of Forest Productivity, Ranchi, Jharkhand, to conduct a study for evaluating the impact of air pollution generated by the mining and related activities on the forests upto a distance of about 10 kms. The copy of the mail enclosed as Annexure-

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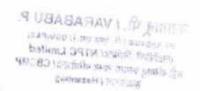
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SI. No.	STIPULATED CONDITION AS	COMPLIANCE STATUS AS ON 31.03.2024
		13.
(x).	Crushers at the CHP shall be operated with high efficiency bag filters, water sprinkling systems shall be provided to check fugitive emissions from crushing operation conveyor system, haulage roads, transfer points, etc. Hoppers of the coal crushing unit shall be fitted with high efficiency bag filters and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of and from transportation road and at Railway Siding.	Crushers in the mine have been designed with effective fugitive dust control measures. Dust suppression, dust extraction and water sprinkling system has been installed at the mine crusher area. Photographs of crushers installed with dust mitigative measures have been attached as Annexure-14. Further, to minimize the dust generation along the coal transportation road, the coal is being transported in covered trucks only. Also, regular water sprinkling within the mining area, along the transportation route and Railway Siding is being done through 12 nos. of mobile water tankers. Photographs attached as Annexure-15.
(xi).	Company's Railway Siding shall be established within 3 years from date of grant of Environmental Clearance. Amendment vide letter no. J11015/133/2007-IA. II (M) Dated 01.12.2	Agreed to comply. DPR for the Railway line from Urda/Khadamdari village to the linked Barh/Tanda STPP via Kharika station had been approved by Railways in 2008 and NTPC had applied for forest clearance and proceeded with land acquisition. Kharika Station was on the proposed ECR railway line from Shivpur–Hazaribagh which was later dropped as MOEF had rejected the Forest clearance for the said line. The alternate railway alignment for the Shivpur–Hazaribagh line viz Shivpur–Kathautia was finalized subsequently, and work started by Railways only in 2022. Accordingly, NTPC has requested Railways to connect common conveyor system from Gopda village to revised alignment (Shivpur – Kathutia). The alignment and DPR is under finalization by Railways.

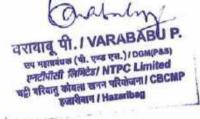
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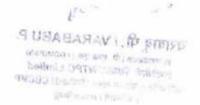
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SI. No.	STIPULATED CONDITION AS	COMPLIANCE STATUS AS ON 31.03.2024
		Amendment in Environmental Clearance has been obtained from MoEF&CC vide letter dated 05.01.2024 for construction of railway siding by March 2026.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	All approach roads shall be black topped and internal roads shall be black topped or concreted. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using local species shall be developed along the main roads, and approach	Being Complied. The permanent approach road to the mine and the internal roads within the office premises are black topped/concreted. Regular housekeeping and maintenance of the road is being done to avoid fugitive dust emissions.
	roads to the mine and at Railway Siding. Green belt shall be developed using local species all along the periphery of the site, along the areas such as infrastructure, and at Railway Siding.	Green belt using local species developed along the Northern & Western part of periphery by planting a total of 4750 nos. of trees. Photographs enclosed as Annexure-16.
(xiii).	Any additional water requirement envisaged shall be obtained by recycling/reuse to the maximum extent and from rainwater harvesting measures. Recycled water shall be used for development and maintenance of green belt and in the Plant Operation.	As per the NOC issued to CBCMP by CGWA vide NOC no. CGWA/NOC/MIN/REN/1/2024/9123, the groundwater abstraction permission is 1621.6 cum/day. Out of which 658 cum/day is for freshwater and 963.60 cum/day for dewatering from mine pit. However, the current average consumption (from October 2023 to March 2024) of fresh groundwater is 7.99 cum/day and the consumption of dewatered mine pit water is 329.16 cum/day (Overall average groundwater consumption 337.15 cum/day). Water consumption report from Oct 2023 to March 2024 enclosed as Annexure-17.
		maximum extent possible by establishing an ETP (under construction). The rainwater harvesting measures will be implemented at the project site. Recycled water will be used for sprinkling, green



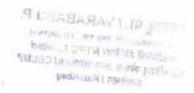




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		belt development and during other mining operations.
(xiv).	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed for treatment of workshop effluents.	Agreed to Comply. The ETP construction is under progress for effective treatment of the industrial effluents conforming to the prescribed statutory standards before final discharge. The work has been awarded to M/s Katoch Envirotech for supply and installation of 50 KLD capacity ETP. The copy of the work order has been enclosed as Annexure-18.
		The industrial wastewater will be collected, analyzed, and treated conforming to the stipulated standards before final discharge on generation of industrial wastewater.
(xv).	Area brought under afforestation shall not be less than 473.44 ha which includes reclaimed external OB dump (38.34 ha), backfilled area (422.59 ha), along ML boundary (7.90 ha), along roads, infrastructure (13.07 ha), in undisturbed areas (3.11 ha), infrastructure and in colony by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around	Afforestation will be done to an extent of 473.44 ha in all the stipulated ML areas in consultation with the local DFO/State Forest Department for effective implementation. The tree density of about around 2500 plants/ha will be maintained. A total of 4750, 4153 and 5717 plants have been planted using native species at the ML Boundary (Safety Zone), R&R colony and township, respectively. Photographs attached as Annexure-19.
(xvi).	A Progressive Closure Plan shall be implemented by reclamation of quarry area of 511.15 ha of which 422.29 ha shall be backfiled and afforested by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. The balance 88.56 ha of decoaled area	Agreed to Comply. The mining operations at the project started from 25.04.2022. An approved progressive mine closure plan is under implementation to meet specified stipulations. The reclamation of the mined-out area will be done as per the approved mine closure plan and then planted with trees over it. Also, efforts will be made to undertake adequate

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SI. No.	STIPULATED CONDITION AS	Mining Project (7MTPA) COMPLIANCE STATUS AS ON 31.03.2024
SI. NO.	being converted into a water reservoir and gently along the upper benches and stabilized and reclaimed with plantation.	afforestation in the mine lease area in consultation with the local DFO/ State Forest Department.
(xvii).	No fly ash from the TPP shall be used in backfilling of the void without undertaking an environmental feasibility study and without prior approval of this Ministry.	Agreed to comply. No fly ash from the TPP shall be used for the purpose of backfilling of void without undertaking an environmental feasibility study and without prior approval of MoEF&CC
(xviii).	A Conservation Plan (in-situ and exsitu) for endangered Schedule-I and II faunal species reported in the study area and for the medicinal plants found in and around the project area shall be prepared and implemented in consultation with the State Forest and Wildlife Departments. The implementation of the various activities there under and the status thereof shall be regularly reported to this Ministry and the MOEF Regional Office, Bhubaneswar and uploaded on the company's website. The proponent shall also participate in the Regional Wildlife Conservation Plan	Being Complied. For conservation of the flora and fauna found in the study area. A Wildlife conservation plan has been prepared which has been approved by Chief Wildlife Warden, GoJH vide letter ref. no. 34 Dated 03.08.2023. Copy of the approval attached as Annexure-21. For implementation of site-specific wildlife management plan prepared in line with IWLMP a total amount Rs. 24,46,62,678.00 was deposited in the ad-hoc CAMPA account vide ref. No. NC03R/2020247588/23.03.2021. Copy attached as Annexure-22. Further, DFO vide letter no. 4700 dated 23.08.2023 demanded for deposition of differential amount of
xix).	to be prepared by the State Wildlife Department and shall also contribute financially for implementation of the RAP. Regular monitoring of groundwater level and quality shall be carried out	Rs 21,78,58,322.00 in ad-hoc CAMPA account. The amount demanded was deposited in the ad-hoc CAMPA account. The payment proof has been enclosed as Annexure-23. Being Complied.

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SI. No.	STIPULATED CONDITION AS	COMPLIANCE STATUS AS ON 31.03.2024
	by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May and in monsoon. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.	One Piezometer with telemetry has been installed within the ML area for regular monitoring of groundwater level. Regular monitoring of groundwater level and quality is being carried out by establishing a network of existing wells at 4 nos. of locations in core and buffer zone of ML area as per stipulation. The monitored data are being submitted along with compliance report to the Regional Office, MoEF&CC at Ranchi & CPCB. Piezometer monitoring data for the period from October 2023 to March 2024 is attached herewith as Annexure-24.
(xx).	The levels of fluoride and TDS in drinking water shall be regularly monitored and records thereon maintained. In case the levels are found to be higher than the prescribed limits in the groundwater and mine discharge water, the project authorities shall provide drinking water to the affected villages in the impact zone.	Regular monitoring of fluoride and TDS is being done in water samples collected to determine its concentration in drinking water. The records are being maintained and found to be within prescribed limits. Water test report from October 2023 to March 2024 has been enclosed as Annexure-25. Further, in case the levels are found to be higher than the prescribed limits in the groundwater and mine discharge water, drinking water shall be provided to the affected villages in the impact zone.
(xxi).	The company shall put up artificial groundwater recharge measures including rainwater harvesting structures for augmentation of groundwater resource in case monitoring indicates decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Agreed to Comply. Rainwater Harvesting structures shall be implemented for augmentation of ground water recharge in the core and buffer zone. The water requirement of the nearby villages shall be met in case the village wells go dry due to dewatering of mine.

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(xxii).	ETP shall also be provided for workshops, and CHP. Effluents shall be treated to conform to prescribed standards, particularly for pH and TSS in case of discharge into any watercourse within of outside the lease.	
(xxiii).	An STP shall be provided for the township /colony to treat the domestic effluents to prescribed standards and for their reuse in project activities.	Being Complied. Sewage Treatment Plant (STP) of 1.5 MLD capacities has been provided in R&R colony at Dhenga. The same is being operated and maintained as per the Standard Operating Procedure. Photographs attached as Annexure-26.
(xxiv)	An amount not less than Rs. 1484 lakhs as capital costs and Rs.466.88 lakhs (which shall be up scaled after adjusting for depreciation of the rupee) as revenue costs shall be provided for implementing environmental measures. The details of the activities and expenditure made thereon shall be displayed on the company's website and updated at least once in six months.	Being Complied. A separate budget has been earmarked for implementing environmental measures. If needed, an additional amount shall be spent towards environmental measures implementation. The details of activities with expenditure shall be displayed on the company's website and updated. The details of expenditure on environmental activities for F.Y. 2023-24 have been attached as Annexure-27.
xxv)	A detailed R&R plan shall be prepared and implemented in consultation with the stakeholders. R&R shall be based on norms laid down/approval by the state Government and shall not be inferior to that in the National R&R Policy and shall be completed within a specified timeframe. R&R shall include specific income generation schemes. A Corpus fund	Being Complied. The R&R plan has been prepared in line with Jharkhand & National R&R Policy and approved by the Govt of Jharkhand and company board. Compensation for landless project affected families is being paid as per the approved R&R policy plan. So far the land compensation amount has been paid for 702.66 acres out of 1071.90 acres. The plan which covers the stipulated conditions is under implementation.

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	of Rs 5 crores shall be created for maintenance of the R&R colony. Annuities shall be provided for the vulnerable sections of the displaced population. Alternate livelihood schemes shall be implemented for the persons not being absorbed for employment.	A separate Corpus fund of Rs 5 crores will be created in future after displacement and settlement of the PAPs in R&R colony for maintenance of the R&R colony. However, till date no consent has been received from the villages for R&R colony. Annuity is already being provided as per the existing R&R policy to the affected persons as per their eligibility. Alternate livelihood schemes shall be implemented for the persons not being absorbed for employment.
(xxvi)	The proponent shall provide a minimum Rs. 713 lakhs towards capital costs which includes the setting up of an ITI for Rs 600 lakhs and supporting revenue expenditure (which shall be upscaled after adjusting for depreciation of the rupee) towards activities undertaken under CSR. The details of the activities and expenditure made thereon shall be displayed on the company's website and updated at least once in six months.	Being Complied. NTPC has established an Industrial Training Institute (ITI) in the name of NTPC-Mining and Industrial Training Institute (NTPC-MAITI), It is a Private Industrial Training Institute located at Dhenga village near Barkagaon Block in Hazaribagh District, Jharkhand for NTPC coal mining projects. It is registered by the Government under NCVT and has been operational since 2015. Under Corporate Social Responsibilities & Skill development programs NTPC want to prepare a bank of trained manpower to give employment to project affected people (PAP's), & unemployed youths from neighboring areas. This ITI has been offering three months, one year and two-year NCVT approved courses since 2015 in Fitter, Welder, and Electrician with 100% placement records. Till date 461 nos. of student get employed after passing from ITI Dhenga.
(xxvii)	For monitoring land use pattern and for post mining land use, a time series of land-use maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any	Being Complied. The project activities at CBCMP started on 25.04.2022. The land use/land cover map based on satellite imagery before start of project activities during the month of April 2022 was prepared and submitted on 01.12.2022. The next map shall be prepared for the period 2025-27 in 2025.

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	one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhubaneswar	
(xxviii)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests for approval 5 years in advance of final mine closure for approval.	Agreed to Comply. The Mine Closure Plan has been approved by the Ministry of Coal and submitted to Coal Controller, MoC. The mining operations at CBCMP started in April 2022. However, a final mine closure plan along with details of Corpus Fund shall be submitted to MOEF & CC for approval well in advance as per stipulation. An Escrow account has been opened and the amount is being deposited annually. As per direction received from CCO an amount of Rs. 6.21 Crore has been deposited for FY 2023-24 (3 rd) and FY 2024-25 (4 th) as mine closure costs. Till date Rs. 11.84 Crore has been deposited in Escrow Account as part of the Mine Closure Costs. The account statement of the Escrow Account for FY 2023-24 has been enclosed as Annexure-09.
В.	General conditions	
(i)	No change in technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	Agreed to Comply. Permission from MOEF&CC will be taken in case of any change in technology and scope of work is proposed
(ii)	No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.	Agreed to comply. There will be no change in the calendar plan including quantum of mineral coal and waste generated. The peak rated coal production capacity of the mine has not yet been reached.
		Guidelines issued by MoEF&CC in this regard shall be strictly followed.

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31. NO.	stations shall be established in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in particulates shall be carried out at least once in six months.	Four ambient air quality monitoring stations have been established in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, SO2 and NOx. Location of the stations has been decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd Cr, in particulates is being carried out once in six months. The data is being collected and analyzed by M/s. Sabz Care Env. Consultancy (P) Ltd Madhupur, DistDeoghar, Jharkhand, is laboratory having NABL accreditation and recognized by Govt of Jharkhand under EP rules 1986. All the environmental quality parameters have been found within the stipulated norms. The ambient air quality monitoring data report from October 2023 to March 2024 has been attached as Annexure-28.
(iv)	Data on ambient air quality (PM10,	Apart from this, one Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been installed to monitor Ambient Air Quality (AAQ within the mining lease area near NTPC/NML Site Office at Pagar. The data is shared continuously through online server to JSPCB. The monitoring data report from October 2023 to March 2024 has been attached as Annexure-29. Link for server: https://jsac.jharkhand.gov.in/pollution/ Being Complied.
	PM2.5, SO2 and NOx and heavy metals such as Hg, As, Ni, Cr, etc.) and other monitoring data shall be	Data on ambient air quality (PM10, PM2.5, SO2 and NOx and heavy metals such as Hg, As, Ni, Cr,

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SI. No.	STIPULATED CONDITION AS	Mining Project (7MTPA) COMPLIANCE STATUS AS ON 31.03.2024
31.103	regularly submitted to the Ministry including its Regional Office at Bhubaneswar and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EP rules, 1986 shall be furnished as	etc.) and other monitoring data is being submitted along with half yearly report to the concerned statutory authorities of MOEF&CC, SPCB & CPCB. Random verification of sample analysis shall be furnished.
(v)	part of the compliance report. Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. shall be provided with ear plugs/muffs.	Being Complied. Adequate measures are being taken to keep the noise levels below 85 dB(A) in the work environment. Workers engaged in blasting, drilling operations, operations of HEMM, etc. are provided with ear plugs/muffs.
(vi)	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected and treated so as to confirm to the standards including for heavy metals before discharge prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	Agreed to comply. The ETP construction is under progress and the work has been awarded to M/s Katoch Envirotech. After ETP construction, the industrial wastewater shall be collected, analyzed, and treated conforming to the stipulated standards before final discharge after completion of ETP.
(vii)	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.	Being Complied. All vehicles plying for the project are well maintained & in good working condition. Regular pollution monitoring of all the vehicles involved in the project is being done in order to control emissions. The pollution under control certificate of a vehicle deployed in mine has been enclosed as Annexure-31 for reference.

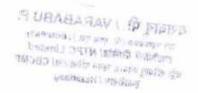
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		Vehicles used for coal transportation are optimally loaded and covered with tarpaulins. Photographs attached as Annexure-10 .
(viii)	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EP rules, 1986.	Being Complied. Monitoring of environmental quality parameters is being carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board. The data is being collected and analyzed by M/s. Sabz Care Env. Consultancy (P) Ltd, Madhupur, Dist Deoghar, Jharkhand, a laboratory having NABL accreditation and recognized by Govt. of Jharkhand under EP rules, 1986. Copy of the monitoring data of all parameters enclosed as Annexure-24, 25, 28, 29 & 30.
(ix)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	Initial medical examination (IME) of workers is done prior to joining the assigned task. IME of 98 workers has been done for the period from October 2023 to March 2024. Copy of one IME report has been attached as Annexure-32. Protective equipments are made available to personnel working in dusty areas & adequate training on safety & health is being imparted. A schedule will be prepared for implementation of Occupational health surveillance audit of the workers to determine the impact due to exposure to dust and take appropriate corrective action if required. The photographs of the training session on safety & health are enclosed as Annexure-33.
×)	A separate environmental management cell with suitable	Complied.







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	qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the head of the Company.	A Separate Environmental Management Cell (EMC) with suitable qualified personnel has been established and is under supervision of senior executive directly reporting to Head of the Coal Mining Projects. The organizational structural chart has been enclosed as Annexure-12 .
(xi)	The funds earmarked for environmental protection measures shall be kept in a separate account and shall not be diverted for other purposes. Yearwise expenditure shall be reported to this Ministry and its Regional Office at Bhubaneswar.	Being Complied. The requisite funds for environmental mitigation measures have been included in the project cost. The financial provision stipulated towards environmental mitigative measures will not be diverted for other proposes. Also, year-wise expenses detail for environmental protection measures are submitted to the Regional Office of MoEF & CC at Ranchi along with the EC compliance reports. The details of expenditure on environmental activities for F.Y. 2023-24 have been attached as Annexure-27.
(xii)	The project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at the website of the Ministry of Environment & Forests.	Complied. Advertisements of EC have been published in three local Papers widely circulated in Jharkhand namely. 1. Times of India, dt. 25.04.2010, Ranchi. 2. The Hindustan (Hindi), 25.04.2010, Ranchi. 3. Prabhat Khabar (Hindi), 24.04.2010, Ranchi.
(xiii)	A copy of the Environmental Clearance letter shall be marked to concerned Panchayat /Zila Parishad, Municipal Corporation or Urban Local Body and local NGO, if	Complied. A copy of the EC letter has been sent to the office of Zila Parishad, Municipal Corporation and other concerned local authorities.

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	any from whom any suggestion /representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.	The EC letter has also been uploaded on the company's website.
(xiv)	A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board; the EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.	Complied. Copy of EC letter was sent to office of District Industry Centre (DIC), District Collector for display. A copy of the EC had also been forwarded to JSPCB and the Regional office for display.
(xv)	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise, and soil) and critical pollutants such as PM10, PM2.5, SO2 and NOx (ambient and stack if any) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.	The environmental clearance letter has been uploaded on the NTPC website. The compliance status of the stipulated EC conditions is also uploaded on NTPC's website. The monitored data of environmental quality will be displayed at the entrance of the mine office and on the company website during the operation phase of the mine block.
(xvi)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional	Being Complied. The six-monthly compliance report is submitted regularly to the statutory authority concerned. The last EC compliance report was submitted on 09.12.2023 vide letter reference no.

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Sl. No.	STIPULATED CONDITION AS	COMPLIANCE STATUS AS ON 31.03.2024
	Office of the MOEF, the Respective Zonal offices of CPCB and the SPCB.	1079/CBCMP/EMG/2023/Dec/02.
(xvii)	The regional office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data /information/monitoring reports.	Agree to comply. Full co-operation shall be extended by the project authorities to the officers of the Ministry/Regional Office during their inspection/ visit.
(xviii)	The environmental statement for each financial year ending 31st march in Form –V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by Email.	The environmental statement for each financial year is being submitted to the Jharkhand State Pollution Control Board and Regional office of MOEF in the prescribed Form V and the same shall also be uploaded on NTPC website along with the status of compliance of EC conditions. The last Environment Statement in Form-V was submitted on 27.09.2023 vide letter reference no. NTPC/1079/CBCMP/ENV/MIN/193.

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एजारीबाग / Hazaribag

F. No. 8-42/2010-FC Government of India Ministry of Environment and Forests (FC Division)

Paryayaran Bhawan, CGO Complex, Lodhi Road, New Delhi - 110510 Dated: 2nd February, 2011

To

The Principal Secretary (Forests), Government of Jharkhand, Ranchi.

Sub: Diversion of 128.92 ha of forest land for Chattibariatu Coal Mining Project in favour M/s NTPC in Hazaribagh West Forest Division in Hazaribagh District of Jharkhand.

Sir.

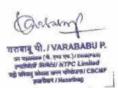
I am directed to refer to the State Government's letter no. 3 / VanBhumi - 33 / 2010 / 2154 / VP dated 17.06.2010 on the subject mentioned above seeking prior approval of the Central Government under section-2 of the Forest (Conservation) Act, 1980 and to say that the proposal has been examined by the Forest Advisory Committee constituted by the Central Government under section-3 of the said Act.

After careful examination of the proposal of the State Government, the Central Government hereby conveys the recommendations of the Forest Advisory Committee for diversion of 128.92 ha of forest land for Chattibariatu Coal Mining Project in favour M/s NTPC in Hazaribagh West Forest Division in Hazaribagh District of Jharkhand subject to fulfillment of the following conditions:

- (i) The Compensatory Afforestation (CA) will be raised and maintained over double the degraded forest land i.e. 128.92 x 2= 258 ha at the cost of User Agency.
 - (ii) The User Agency will submit the details of area identified for Compensatory Afforestation on SOI toposheet of 1:50,000 scale.
 - (iii) The User Agency shall transfer the cost (incorporating the current wage structure) of raising and maintaining Compensatory Afforestation to the Adhoc CAMPA through State Forest Department.
- 2. Fencing, protection and regeneration of the safety zone area (7.5 metre strip all along the outer boundary of the mining lease area), wherever feasible, shall be done at the project cost. Besides this, afforestation on degraded forest land, to be selected elsewhere, measuring one and a half times the area under safety zone shall also be done at the project cost.
- The following activities shall be undertaken by the User Agency under supervision of the State Forest Department at the project cost:
 - Proper mitigative measures to minimize soil erosion and choking of streams shall be prepared and implemented.

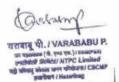
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- (ii) Planting of adequate drought hardy plant species and sowing of seeds to arrest soil erosion.
- (iii) Construction of check dams, retention/toe walls to arrest sliding down of the



excavated material along the contour.

- (iv) The top soil management plan should be strictly adhered to.
- 4. Wherever possible and technically feasible, the User Agency shall undertake by involving local community, the afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department at the project cost.
- 5. The State Government shall charge the Net Present Value of the forest area diverted under this proposal from the User Agency as per the Judgement of the Hon'ble Supreme Court of India dated 28.03.2008 & 09.05.2008 in IA No. 566 in WP (C) No. 202/1995 and as per the guidelines issued by this Ministry vide letter No. 5-3/2007-FC dated 05.02.2009 in this regard.
- The User Agency shall furnish an undertaking to pay the additional NPV, if so determined, as per the final decision of Hon'ble Supreme Court of India.
- All the funds received from the User Agency under the project shall be transferred to Ad-hoc CAMPA in account number CA 1587 of Corporation Bank, Block-11, CGO Complex, Phase-1, Lodhi Road, New Delhi - 110 510.
- The period of diversion under this approval shall be twenty (20) years or coterminous with the mining lease subject to possession of valid lease by User Agency under the MMDR Act, 1957.
- Any tree felling shall be done only when it is unavoidable under strict supervision of the State Forest Department.
- 10. No damage to the flora and fauna of the area shall be caused.
- No labour camps shall be set up inside the forest area.
- The user agency shall provide fuel wood preferably alternate fuel to the labourers working at the site to avoid damage / felling of trees.
- 13 The user agency will obtain Environmental clearance and any other clearances required for such project.
- 14. The user agency will assist the State Government in conservation and preservation of flora and fauna of the area in accordance with the plan prepared by the Chief Wildlife Warden of the State.
- The Project Proponent to give an undertaking to contribute proportionately for the regional wildlife management plan which is under preparation.
- The forest land shall not be used for any purpose other than that specified in the proposal.
- 17. The User Agency will ensure the dumping of OB as per the plan and will submit the duly approved phased Reclamation plan along with the compliance report.
- 18. The Project Proponent shall explore the possibility of setting up of Vocational Training Institutes in the area for training the local youths and employing them in



their operations for some minimum time period as part of its CSR.

- 19. The Project Proponent shall earmark 1% of the market price of total coal produced deposit with the State Forest Department for the protection and development of forest and wildlife of the area as part of the CSR.
- 20. The Project Proponent shall also bear the cost of depredation of crops by wild elephants, if any, and if required, shall make arrangement for water and food for the migrating elephants at an alternate area.
- 21. The Project Proponent shall explore the possibility of sparing 100-150 m wide strip from diverted forest land on the northern side of its mines in the region for Rail line project, if geologically & geographically feasible and envisaged by the Railways.
- 22. The user agency will obtain the clearance under the provisions of ST&OTFD (Recognition of Forest Rights) Act, 2006 before the final approval and will submit certificate towards the settlement of all claims and rights over the proposed forest land under the Act along with the as per the advisory dated 03.08.2009 issued by MoEF.
- 23. The user agency shall set up a full fledged Social Welfare Division to track and monitor the future conditions of all the project displaced, affected persons including landless persons and report on the social & economic condition of these people & the impact of the project, as well as take all possible measures to compensate them for any loss in economic and social well-being and livelihood sustainability.
- 24. The user agency will provide permanent vehicular mobility to the Regional Office, Bhubaneshwar for periodic monitoring of the projects already existing and those are coming up in the area.
- The User agency will reclaim and surrender all areas which were handed over to them 20 years back.
- 26. Any other condition that the CCF (Central), Regional Office, Bhubaneshwar, may impose from time to time for protection and improvement of flora and fauna in the forest area, shall also be applicable.

After receipt of the compliance report on fulfillment of the conditions mentioned above, the Central Government shall consider the handing over of forest land for non-forest purposes under section-2 of the Forest (Conservation) Act, 1980.

Yours faithfully,

(C.D. Singh)

Deputy Inspector General of Forests

Copy to:-

1. The Principal Chief Conservator of Forests, Government of Jharkhand, Ranchi.

2. The Nodal Officer (FCA), O/o the PCCF, Government of Jharkhand, Ranchi.

3. The Chief conservator of Forest (Central), Eastern Regional Office, Bhubaneshwar.

/4. User Agency for information.

5. Monitoring cell.

6. Guard File.

Deputy Inspector General of Porests

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F. No. 8-42/2010-FC Government of India Ministry of Environment and Forests (FC Division)

Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi - 110510

Dated: 21st November, 2011

To

The Principal Secretary (Forests), Government of Jharkhand, Ranchi.

Diversion of 128.92 ha of forest land for Chattibariatu Coal Mining Project in favour M/s NTPC in Hazaribagh West Forest Division in Hazaribagh District of Jharkhand.

I am directed to refer to the State Government's letter no. 3 / VanBhumi - 33 / 2010 / 2154 / Sir. VP dated 17.06.2010 on the subject mentioned above seeking prior approval of the Central Government under Section-2 of the Forest (Conservation) Act, 1980. After careful consideration of the proposal by the Forest Advisory Committee constituted under section-3 of the said Act, inprinciple approval was granted vide this Ministry's letter of even number dated 2.02.2011 subject to fulfillment of certain conditions. The State Government has furnished compliance report in respect of the conditions stipulated in the in-principle approval and has requested the Central Government

In this connection, I am directed to say that on the basis of the compliance report furnished to grant final approval. by the State Government vide letter no. 3/Vanbhumi-33/2010-3069 dated 11.08.2011, approval of the Central Government is hereby granted under section-2 of the Forest (Conservation) Act, 1980 for diversion of 128.92 ha of forest land for Chattibariatu Coal Mining Project in favour M/s NTPC in Hazaribagh West Forest Division in Hazaribagh District of Jharkhand subject to fulfillment of the

following conditions:

- Legal status of forest land shall remain unchanged.
- Compensatory afforestation shall be raised and maintained by the State Forest 2. Department at the project cost.
 - Fencing, protection and regeneration of the safety zone area shall be done at the project cost. Besides this, afforestation on degraded forest land, to be selected b. elsewhere, measuring one and a half times the area under safety zone, shall also be done at the project cost.
- The following activities shall be undertaken by the User Agency under supervision of the State Forest Department at the project cost:
 - Proper mitigative measures to minimize soil crosion and choking of streams (i) shall be prepared and implemented.
 - Planting of adequate drought hardy plant species and sowing of seeds to arrest (ii) soil erosion.

- (iii) Construction of check dams, retention/toe walls to arrest sliding down of the excavated material along the contour.
- (iv) The top soil management plan should be strictly adhered to.
- 4. Wherever possible and technically feasible, the User Agency shall undertake by involving local community, the afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department at the project cost.
- The User Agency shall furnish an undertaking to pay the additional NPV, if so determined, as per the final decision of Hon'ble Supreme Court of India.
- The approval under the Forest (Conservation) Act, 1980 is subject to the clearance under the Environment (Protection) Act, 1986 and any other Acts/Regulation/Rules.
- The period of diversion under this approval shall be twenty (20) years or coterminous with the mining lease subject to possession of valid lease by User Agency under the MMDR Act, 1957.
- Any tree felling shall be done only when it is unavoidable under strict supervision of the State Forest Department.
- 9. No damage to the flora and fauna of the area shall be caused.
- 10. No labour camps shall be set up inside the forest area.
- The user agency shall provide fuel wood preferably alternate fuel to the labourers working at the site to avoid damage / felling of trees.
- Demarcation of mining lease area will be done on the ground at project cost using four feet high reinforced cement concrete pillars with serial numbers, forward & back bearings and distance from pillar to pillar.
- 13. The user agency will assist the State Government in conservation and preservation of flora and fauna of the area in accordance with the plan prepared by the Chief Wildlife Warden of the State.
- The forest land shall not be used for any purpose other than that specified in the proposal.
- The User Agency will ensure the dumping of OB as per the approved phased Reclamation plan.
- 16. The Project Proponent shall explore the possibility of setting up of Vocational Training Institutes in the area for training the local youths and employing them in their operations for some minimum time period as part of its CSR.

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- 17. The Project Proponent shall earmark 1% of the market price of total coal produced deposit with the State Forest Department for the protection and development of forest and wildlife of the area as part of the CSR.
- 18. The Project Proponent shall also bear the cost of depredation of crops by wild elephants, if any, and if required, shall make arrangement for water and food for the migrating elephants at an alternate area.
- 19. The Project Proponent shall explore the possibility of sparing 100-150 m wide strip from diverted forest land on the northern side of its mines in the region for Rail line project, if geologically & geographically feasible and envisaged by the Railways.
- 20. The user agency shall set up a full fledged Social Welfare Division to track and monitor the future conditions of all the project displaced, affected persons including landless persons and report on the social & economic condition of these people & the impact of the project, as well as take all possible measures to compensate them for any loss in economic and social well-being and livelihood sustainability.
- The user agency will provide permanent vehicular mobility to the Regional Office, Bhubaneswar for periodic monitoring of the projects already existing and those are coming up in the area.
- The User agency will reclaim and surrender all areas which were handed over to them 20 years back.
- Any other condition that the CCF (Central), Regional Office, Bhubaneswar, may impose from time to time for protection and improvement of flora and fauna in the forest area, shall also be applicable.
- The user agency shall submit the annual compliance report in respect of the above conditions to the State Government and to the Regional Office, Bhubaneswar regularly.

Yours faithfully,

(S.P. Singh)

Assistant Inspector General of Forests

Copy to:-

- 1. The Principal Chief Conservator of Forests Government of Jharkhand, Ranchi.
- The Nodal Officer, Office of the PCCF, Government of Jharkhand, Ranchi.
 The Chief Conservator of Forest (Central), Regional Office, Bhubaneswar.

4. User Agency.

5. Monitoring cell of the FC section

6. Guard file.

(S.P. Singh)
Assistant Inspector General of Forests

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F. No. 8-42/2010-FC

Govt. of India

Ministry of Environment, Forests and Climate Change
(Forest Conservation)

Indira Paryavarn Bhawan, Aliganj, Jor Bagh, Road New Delhi – 110003

Dated: 13th April, 2017

To

The Principal Secretary (Forest) Government of Jharkhand, Ranchi.

Sub: Transfer of lease in respect of diversion of 128.92 ha of forest land for Chattibariatu Coal Mining Project in Hazaribagh West Forest Division in Hazaribagh District of Jharkhand, from the original user agency i.e. M/s NTPC in whose favour forest land was diverted to M/s NTPC in whose favour the coal block was auctioned/re-allotted by the Ministry of Coal.

Sir.

I am directed to refer to the Ministry of Coal's letters no. 13016/38/2015-CA-III dated 18th September, 2015 and 103/26/2015/NA dated 22.12.2016 on the above subject requesting this Ministry to transfer its approval granted under the Forest (Conservation) Act, 1980 for diversion of 128.92 ha of forest land for Chattibariatu Coal Mining Project in Hazaribagh West Forest Division in Hazaribagh District of Jharkhand from the original user agency i.e. M/s NTPC in whose favour forest land was diverted to M/s NTPC in whose favour the coal block was auctioned/re-allotted by the Ministry of Coal.

After careful examination of the proposal in accordance with para 2.8 of the Guidelines read with the Guidelines dated 03.05.2010, 03.05.2013 and 31.03.2015 under the Forest (Conservation) Act, 1980 for transfer of approval granted by the Central Government and on the basis of recommendations of the Ministry of Coal, the Central Government hereby conveys its approval for lease transfer subject to following condition:

- (i) Lease transfer charges @ 10% of the NPV or Rs.1,00,000/- (1 Lakh) whichever is less—will be realized from the new user agency and will be deposited in the account of Ad-hoc CAMPA before execution of lease in favour of the new user agency.
- (ii) Reimbursement of amount paid by the original user agency shall be dealt with in the manner, as provided in the Coal Mines (Special Provisions) Second Ordinance, 2014 and Rules framed there under.
- (iii) The new user agency shall pay the NPV as per the approval granted under FC Act if not paid earlier. The new user agency shall also furnish an undertaking to pay the additional NPV, if so determined by the Hon'ble Supreme Court of India.
- (iv) The new user agency shall also abide the conditions:

1. Legal status of the diverted forest land shall remain unchanged:

Compensatory afforestation over the degraded forest land, twice in extent to the area of forest land
proposed to be diverted shall be raised within two years from the issue of this letter, if already
not done; and maintained thereafter as per approved plan by the State Forest Department at the cost
of the User Agency;

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3. At the time of payment of the Net Present Value (NPV) at the then prevailing rate, the User Agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India;

4. The State Govt, shall ensure the following activities by the User Agency under the supervision of

the State Forest Department:

(a) Mitigative measures to minimize soil erosion and choking of stream shall be implemented within a period of three year with effect from the issue of Stage-II clearance in accordance with the approved Plan in consultation with the State Forest Department.

(b) Planting of adequate drought hardy plant species and sowing of seeds, in the appropriate area

within the mining lease to arrest soil erosion in accordance with the approved scheme;

(c) Construction of check dams, retention /toe walls to arrest sliding down of the excavated material along the contour in accordance with the approved scheme, and;

(d) No damage shall be caused to the top-soil and the user agency will follow the top soil management plan.

5. Fencing, protection and regeneration of the safety zone area [7.5 meters strip all along the outer boundary of the mining lease area as recommended by the state govt.] shall be done within three year at the project cost from the issue of Stage-II Clearance. Besides this afforestation on degraded forest land to be selected elsewhere measuring one & a half times the area under safety zone shall also be done at the project cost; The degraded forest land (DFL) so selected will be informed to the MoEF & CC with shape files and afforestation will be done within three years, if not already done, from the date of Stage-II clearance;

6. Wherever possible and technically feasible, the User Agency shall undertake by involving local community, the afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department

at the project cost.

Period of diversion of the said forest land under this approval shall be for a period co-terminus with the period of the mining lease proposed to be granted under the Mines and Minerals (Development and Regulation) Act, 1957, as amended and the Rules framed there-under;

8. The User Agency will ensure the dumping of OB as per the approved phased Reclamation plan.

9. The State Govt. make efforts to explore the possibility of setting up of Vocational Training Institutes at the cost of the user agency in the area for training the local youths and employing them in their operations for some minimum time period as part of its CSR.

10. The Project Proponent shall also bear the cost of depredation of crops by wild elephants, if any, and if required, shall make arrangement for water and food for the migrating elephants at an alternate

11. The Project Proponent shall explore the possibility of sparing 100-150 m wide strip from diverted forest land on the northern side of its mines in the region for Rail line project, if geologically &

geographically feasible and envisaged by the Railways

12. The user agency shall set up a full -fledged Social Welfare Division to track and monitor the future conditions of all the project displaced, affected persons including landless persons and report on the social & economic condition of these people & the impact of the project, as well as take all possible measures to compensate them for any loss in economic and social well-being and livelihood sustainability.

13. The user agency will provide permanent vehicular mobility to the Regional Office, Bhubaneswar for periodic monitoring of the projects already existing and those are coming up in the area.

- 14. The approval under the Forest (Conservation) Act, 1980 is subject to the clearance under the Environment (Protection) Act, 1986 and any other Acts/Regulation/Rules.
- 15. The user agency will assist the State Government in conservation and preservation of flora and fauna of the area in accordance with the plan prepared by the Chief Wildlife Warden of the State.

No labour camp shall be established on the forest land;

17. The User Agency shall provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas;

- 18. The boundary of the diverted forest land, mining lease and safety zone, as applicable, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates;
- 19. The User Agency shall undertake mining in a phased manner after taking due care for reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan shall be executed by the User Agency from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the Nodal Officer or the Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities area satisfactorily executed:
- The layout plan of the mining plan/ proposal shall not be changed without the prior approval of the Central Government;

21. The forest land shall not be used for any purpose other than that specified in the proposal:

22. The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government;

23. No damage to the flora and fauna of the adjoining area shall be caused;

- 24. Any tree felling shall be done only in a phased manner to coincide with the phasing of area to be put to mining with a view to minimizing clear felling. The felling will always be carried out under strict supervision of State Forest Department; when it is unavoidable and that too under strict supervision of the State Forest Department;
- 25. The Project Proponent shall earmark 1% of the market price of total coal produced deposit with the State Forest Department for the protection and development of forest and wildlife of the area as part of the CSR.
- 26. The User Agency shall submit the annual self compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year;

27. Any other condition that the concerned Regional Office of this Ministry may stipulate, from time to time, in the interest of conservation, protection and development of forests & wildlife; and

28. The user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines & Hon'ble Court Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project.

Yours faithfully,

(Nisheeth Saxena)

Sr. Assistant inspector General of Forests (FC)

Copy to:

- 1. The Principal Chief Conservator of Forests Government of Jharkhand, Ranchi.
- 2. The Nodal Officer (FCA), Office of the PCCF, Government of Jharkhand, Ranchi.
- 3. The Addl. Principle Chief Conservator of Forest (Central), Regional Office, Ranchi.

4. User Agency.

5. Monitoring Cell of the FC section MoEF&CC New Delhi

Guard file.

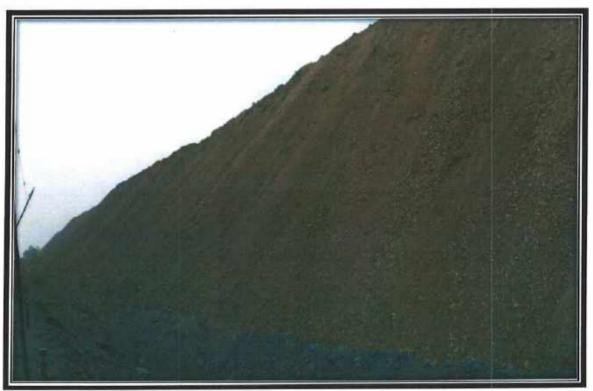
(Nisheeth Saxena)

Sr. Assistant inspector General of Forests (FC)

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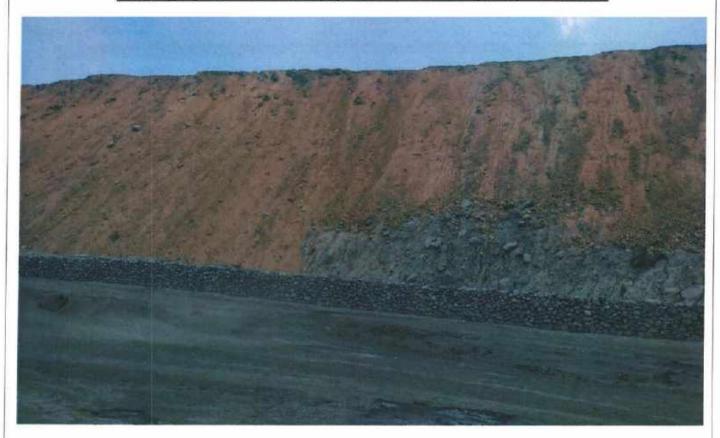
Top Soil stacked properly within Mine Lease Area at CBCMP

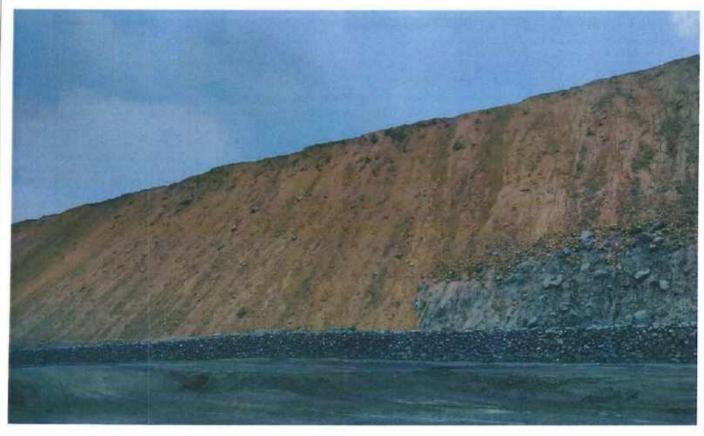




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Photographs of OB Dump (Covered with Topsoil) at CBCMP

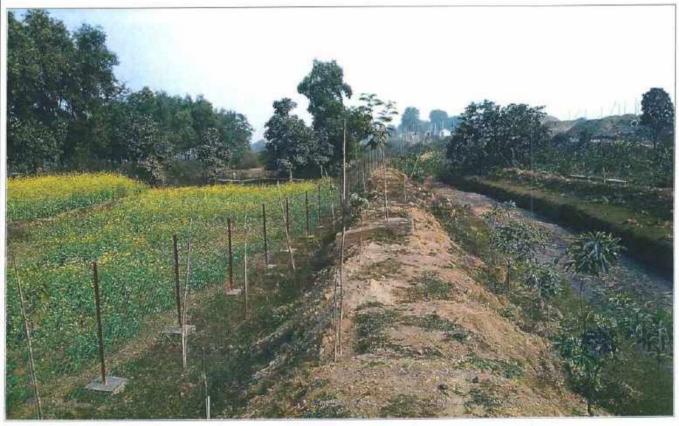






Plantation in the NW corner of ML boundary at CBCMP

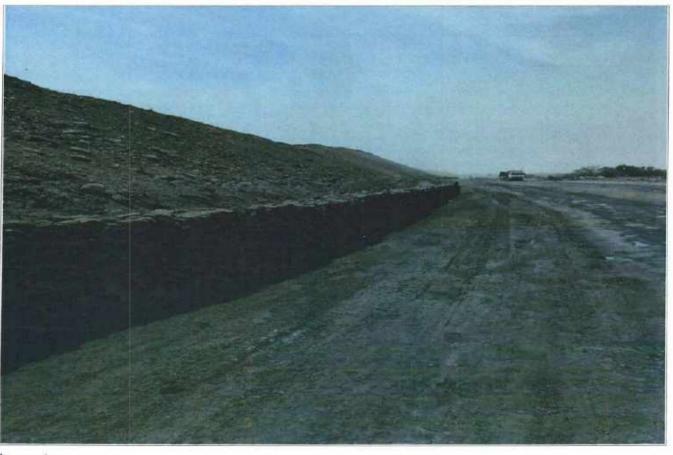






Retaining Wall at the Toe of OB Dump in CBCMP

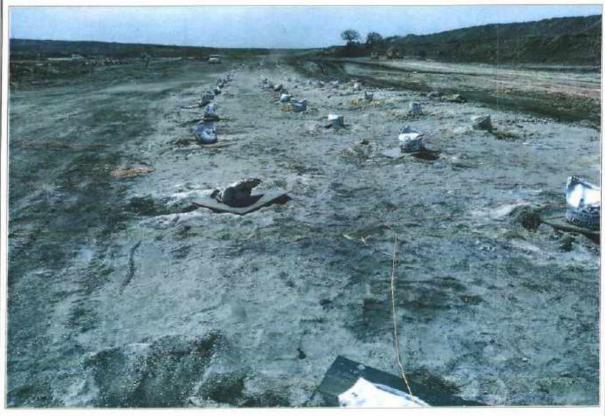




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Drilling Work carried out at CBCMP





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Event Report

Date/Time

Long at 14:11:26 March 6, 2024

Trigger Source Range Record Time

Geo: 0.500 mm/s Geo: 254.0 mm/s

3.0 sec at 2048 sps Operator/Setup: Operator/CBCMP.MMB

Notes

Location:

1- Bottom seam

Client: NTPC User Name: General:

CBCMPL COAL MINES

Microphone PSPL

Linear Weighting

ZC Freq

2.048 pa.(L) at 0.735 sec

27 Hz

Channel Test Passed (Freq = 20.5 Hz Amp = 1207 mv)

	Tran	Vert	Long	
PPV	1.119	0.875	1.301	mm/
ZC Freq	20	25	18.0	Hz
Time (Rel. to Trig)	0.378	0.294	0.255	sec
Peak Acceleration	0.051	0.036	0.074	g
Peak Displacement	0.008	0.005	0.012	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.5	Hz
Overswing Ratio	4.5	4.3	4.3	

Peak Vector Sum 1,492 mm/s at 0,255 sec

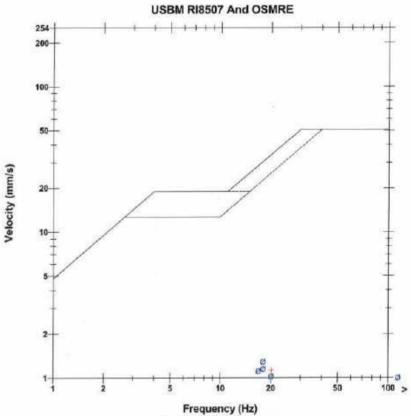
UM20033 V 10-90GC Micromate ISEE

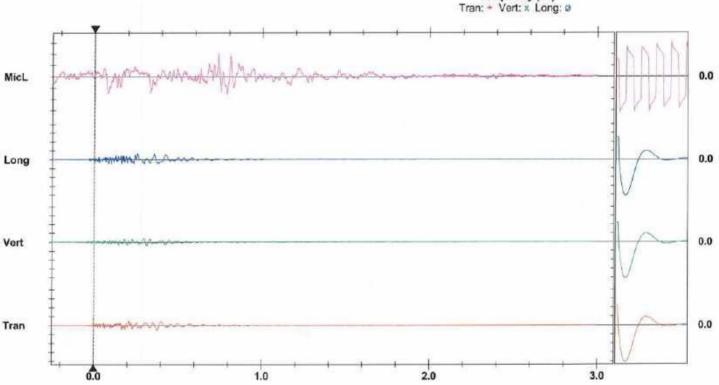
Serial Number **Battery Level**

3.8 Volts

Unit Calibration

November 3, 2023 by UES New Delhi __TEMP.EVT





Time Scale: 0.20 sec/div

Amplitude Scale: Geo; 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Trigger = >

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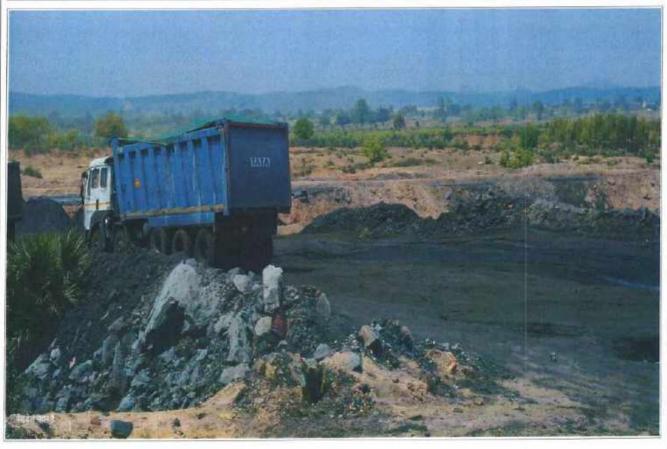
Sensor Check

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Printed: March 17, 2024 (V 10.72 - 10.72.1)

Coal transportation with covered trucks at CBCMP







Unit name: NTPC Limited Chatti Bariatu Coal Mining Project Detail of ESCROW deposits for the FY 2023-24

ESCROW A/c No.: 33769593988.

No. of the last			THE RESERVE THE PERSON NAMED IN	FY 2023-24		
FDR no.	Opening Balance	Deposit	Reimbursement	Miscellaneous Withdrawal (If any)	Interest	TDS
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41784727017	2,88,38,033.87	0			19.96.511.32	1 99 652 00
42831105100	í	3,03,00,000.00	,		33,593.48	3.360.00
42835165858		3,18,00,000.00			14,406.43	3.524.00
Total	5,72,39,929,47	6,21,00,000.00		112 年間の日本日	40,10,771.50	4,03,163,00

3,03,30,233.48 3,06,34,893.19 3,01,71,528.87

Closing Balance 3,18,10,882.43



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NTPC Limited

(A Govt. of India Enterprise)

चट्टी बारियातु कीयला खनन परियोजना Chatti Bariatu Coal Mining Project

Date: 20.04.2024

Ref No:1079/CBCMP/CD/ 268

To

The Divisional Forest Office (Hazaribagh West), Van Bhavan, Hazaribagh, Jharkhand, Pin 825301.

Sub: Regarding plantation scheme of 62,500 trees of NTPC CBCMP on deposit work basis through Forest department, Hazaribagh.

Dear Sir

The coal production and dispatch from CBCMP Mine is in full swing. As per environmental condition on dated 01.12.2020, it is stated that" Project proponent to plant 100000 no's of native trees with broad leaves along the transportation route in three years to prevent the effect of air pollution. After completion of tree plantation, number of trees shall be duly endorsed from District Forest Officer" Annexure I.

In this regard, at the initial phases NTPC CBCMP has been deposited an amount of Rs 4,61,29,153.00 as a 1st year instalment towards plantation of 33000 no of trees to your kind department to conduct the work on depository basis for the compliance of EC. Further we have deposited Rs 2,13,28,168/- for contribution for 2nd year on 28.03.2024.

It is to inform that we have completed plantation of 4500 plants along the coal dispatch route near the Mines area. Thus, in order to comply with EC conditions in totality, It is further requested to provide an economically suitable and low duration scheme for the plantation of the remaining 62,500 no. of trees along with scope of work, details of the scheme and other relevant details to enable NTPC-CBCMP to conduct plantation work as per EC conditions on depository work basis.

Yours singeraly

Pawn Kumar Rawat

AGM (Coal Dispatch& Billing)

वराबाबू पी. / VARABABU P. च्य महावर्षक (थे. एवंड एव.)। DOM(PAS) (न्नटोपीटी स्थिपेटेड) NTPC Limited च्छी वरिवानु क्षेत्रका क्ष्मण परियोजना CBCMP

pedfesself i Pipgfsag

पदान कुनार खारा / PMMAN KUBIAR RAWA अपर न्यान्येका (प्रेम्पस प्रेम्प पूर्व शिक्षेत्र) ADM (COAL DEPATCH & BILLING) स्ट्रिमिटी MFRCH NTPC Limited प्रदेशियों क्रांच्या पूर्वन परिवासमा / CBCMP

चट्टी बारियातु कोयला खनन परियोजना, सिकरी साईट कार्यालय, पी.ओ.-बड़कागाँव, जिला-हजारीबाग 825311 (झारखण्ड) Chatti Bariatu Coal Mining Project, Sikri Site Office, P.O.-Barkagaon, Dist- Hazaribag - 876311 (Jharkhand) पंजीकृत कार्यालय: एन. टी. पी. सी. भवनस्कोय कॉम्पलेक्स, 7 इंस्टीटयूशन एरिया, लोधी रोड, नई दिल्ली - 110003 Registered Office: NTPC Bhawan Scope Complex, 7 institutional Area, Lodhi Road, New Delhi - 110 003 टेलीफोन नंo/Tel: 011-24387333, फैक्स:/Fax: 011-24361018, Email: ntpccc@ntpc.co.in, web! www.ntpc.co.in

teceiving Office: HZBFWL005-D.F.O., HAZARIBAG WEST DIV, HZB-D.F.O. Valid UpTo :-06/04/2024 **DREST REMITTANCES** GRN:-2401360339 SUSSICITUS istrict > Hazaribac Receiving Dept: ear.-01/04 >8 1 Date: - 28/03/2024 18:59:15 reasury Copy Amount Treasury:- Hazaribagh 21328168.00 Receiving Office .- HZBFWL005-D.F.O., HAZARIBAG WEST DIV, HZB-D.F.O., to:- 31/03/2025 Receiving Dept: Forest, Environment and Climate Change Department Finance Department, Government of Jharkhand HAZARIBAG WEST DIV, HZB e-Challan 878200103 Valid UpTo:-06/04/2024 FOREST REMITTANCES GRN:-2401360339 District. Hazanbag Year,- 01/04/2024 Head Details Head(8782)

Date: - 28/03/2024 18:59:15

AG Copy

Forest, Environment and Climate Change Department Finance Department, Government of Jhankhand

Treasury:- Hazaribagh

HAZARIBAG WEST DIV HZB

to:- 31/03/2025 Amount

> kh Twenty Eight Thousand One Hundred Sixty sa Only Two Crore Thirtee Net Payable Amo

For Treasury Use Only(Hazaribagh) (28/03/2024) identity Proof (TAN Number) - RCHN00278F No and Date: 166

Challan

Rupees And

NTPCLTD Remitter Name: PAN No:-

SIKRI SITE OFFICE, NTPC LTD, CHATTIBARIATU Address -

Deposit Work

Remarks :-

Treasury Officer Signature is not reuqired. FOR USE IN TREASURY LINK BANK

CHEQUE/DD No :-

627705 Dt 28.03.2024 (30/03/2024) Bank Name :-SBI, HAZARIBAGH, HAZARIBAGH, JHARKHAND Scroll No and (Date) :-

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For Treasury Use Only(Hazaribagh)

(28/03/2024)

Challan No and Date: 166

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Deposit Work

CMP

627705 Dt 28.03.2024 (30/03/2024) CHEQUE/DD No

3ank Name :- SBI, HAZARIBAGH, HAZARIBAGH, JHARKHAND

Note:- Bank Official are requested to update the receipt Online before Stamping

Signature & Seal of Bank

Net Payable Amount:-

21328168.00

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Use separate page

Remarks :-

Address -

SIKRI SITE OFFICE, NTPC LTD, CHATTIBARIATU

NTPCLTD

Scroll No and (Date) :->

Signature & Seal of Bank

वराबाबू यी. / VARABABU P. का महात्रकार (चे. एवर एव.)/ DOMPAN एनटेचीजी शिलोटेड/ MTPC Limited | बरिवाहु कोवाता स्थान क्षिकेत्वता/ CBCMP





Ref no.: REDCM Sectt/2024/CB&KD/543

Date: 23.02.2024

To.

The Joint Secretary (Thermal). Ministry of Power. Govt. of India. Shram Shakti Bhawan, Rafi Marg, New Delhi -110001

Subject: Request to Ministry of Railways for expediting construction of Railway siding for Kerandari and Chatti Bariatu Coal Mining Projects

Sir.

Chatti-Bariatu and Kerandari Coal Mining Project, located in Hazaribagh District (Jharkhand), are adjacent coal blocks with common coal evacuation system which includes pipe conveyor and Railway siding system.

Conveyor system in under construction by NTPC and is expected to be completed by Oct'24. The Railway Siding system is to be constructed by Indian Railways and Detailed Project Report (DPR) for the same is under finalization by Railways. The expected timeline for its completion is three years post-approval by the Railway Board. The project has been delayed due to delay in forest clearance, land and local law & order

Both Chatti Bariatu and Kerandari Coal Mining Project have started coal production from Sep'22 and Jan'24 respectively. As per the conditions of Environment Clearance, there shall be no transportation of coal by road. However, given that coal production has already begun, and the conveyor/Railway siding system is not yet ready, an application for amendment in the Environment Clearance for transportation of coal by road through trucks was submitted to MoEF&CC. MOEF&CC vide letter dated 05.02.2024 has extended timeline for construction of closed belt conveyor up to October 2024 & construction of railway siding by March 2025. Further, advised NTPC to request Ministry of Power to co-ordinate with Ministry of Railways for expeditious construction of Railway siding.

In view of the above, I would request your intervention to facilitate and expedite the construction of the Railway Siding system for the Chatti-Bariatu and Kerandari Coal Mining Project. Your support in this matter would significantly contribute to the timely completion of this crucial infrastructure.

Thanking You,

वराबाबू पी. / VARABABU P.

क्षा प्रशासिक (थी. एवड एस.)। DGM(P&S) ल्डिपीसी विविदेश NTPC Limited रही वरियातु कोयला खनन परियोजना। CBCMP स्मिष्यम् । Hazaribag

(Animesh Jain) CEO, NML &

Regional ED (Coal Mining), NTPC

कोयला खनन् मुख्यालयः एनटीपीसी लिमिटेङ, गिन्नी प्लाजा, चुटिया थाना के सामने, चुटिया, राँची 834001 (आस्खण्ड) Coal Mining Headquarters, NTPC Limited, Ginni Plaza, Opposite Chutia Police Station, Chutia, Ranchi-834001 (Jharkhand) Registered Office: NTPC Bhawan, SCOPE Complex, 7, Institutional Area, Lodi Road, New Delhi-110003 www.ntpc.co.in





File No.: J-11015/120/2007-IA-II(M) Government of India Ministry of Environment, Forest and Climate Change IA Division



Dated 05/02/2024



To.

Shri Birendra Kumar

NTPC LIMITED

NTPC Limited, NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi - 110003 , New Delhi, NEW DELHI, DELHI, , 110003

environment.ntpc@gmail.com

Subject:

Kerendari 'A' Coal Mine Block (6 MTPA in project area of 1173 ha (ML area 654 Ha) of M/s National Thermal Power Corporation Ltd., located in North Karanpura Coalfields in District Hazaribagh (Jharkhand) - For Amendment of EC dated 31,03,2010 read with subsequent EC transfer on 28.10.2105-regarding

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/JH/CMIN/443765/2023 dated 14/12/2023 for grant of an amendment in prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below

(i) EC Identification No.

EC23A0101JH5909189A

(ii) File No.

J-11015/120/2007-IA-II(M)

(iii) Clearance Type

Amendment in EC

(iv) Category

(v) Schedule No./ Project Activity

1(a) Mining of minerals

(vi) Sector

Coal Mining

(vii) Name of Project

Kerandari Coal Mining Project

(viii) Location of Project (District, State)

HAZARIBAGH, JHARKHAND

(ix) Issuing Authority

MoEF&CC

(x) EC Date

NO

(xii) Applicability of General Conditions

(xiii) Status of implementation of the project

ाह (थी. एवड एस.)। DGM(P&S) हरतेपीशी शिमिटेड/ NTPC Limited वेयला सन्त्र परियोजना / CBCMP वारीयाग । Hazaribag

3. Environment Clearance (EC) to the project Kerendari 'A' Coal Mining Project of 6 MTPA peak capacity in mine lease area of 654 ha was accorded by Ministry's vide letter No.: J11015/133/2007-IA. II (M) dated 31.03.2010 to M/s NTPC

Limited.

- 4. Hon'ble Supreme Court of India vide Judgement dated 25th August, 2014 read with orders dated 24th September, 2014 has cancelled the allocation of 204 coal blocks which include the North Karanpura Coal Fields. In pursuance of the order of Hon'ble Supreme Court, the said coal mine was allocated again to M/s NTPC Limited vide vesting order No. 103/29/2015/NA dated 8th September, 2015 issued by the Nominated Authority in the Ministry of Coal. Pursuant to the said Notification, Ministry has transferred/revalidated EC to M/s NTPC Limited on 28.10.2015 with certain terms & conditions therein.
- 5. Project Proponent (M/s NTPC Limited) vide proposal number IA/JH/CMIN/443765/2023 dated 14/12/2023 has requested for a following amendment in specific conditions no. 2A (xi) and 2A (xiv) of Environment Clearance (EC) 31.03,2010 with respect to the permission for transportation of coal by road:

Sr No	As not left dated 31 03 7010	Amendment Sought
(i)	Tanda/Barh STPP. The conveyor cum rail corridor consisting of a stretch of 13.1 km of rail and 10.5 km of overhead closed conveyors and extend upto unloading part at the Railway Siding with Silo Loading facilities and from there to linked Barh STPS/Tanda by rai. There will be no road transportation of coal.	Change in mode for transportation of coal by road through covered tippers/dumpers from mine to Shivpur, Bachra, Kusmahi, Bira Toli, Tori & Katkamsandi railway sidings (over a distance of 27 km, 38 km, 84 km, 95 km, 96 km, & 96 km respectively) for a period of three (03) years or till the associated railway siding become operational, whichever is earlier, for supply to Tanda/Barh STPP and
(ii)	2A (xiv) Company's Railway siding at village Khadambari shall be established within 3 years from date of grant of environmental clearance.	km)

- 6. Above proposal for an amendment was considered in the 5th EAC meeting held on 22.12.2023, EAC during the meeting noted that the contract was signed with M/s L&T on 27.09.2019 for construction of conveyor belt and approximately 50% of the closed conveyor work has been completed and balance work is expected to complete by October 2024. PP committed that M/s NTPC will pursue with Ministry of Power to coordinate with Ministry of Railways for expeditious construction of Railway siding, which is in their domain to ensure railway transportation to respective linkage.
- 7. EAC after detailed deliberation on the information submitted and presented, recommended the proposal for grant of amendment in Environment Clearance to Kerendari 'A' Coal Mine Block (6 MTPA in project area of 1173 ha) of M/s National Thermal Power Corporation Ltd., located in North Karanpura Coalfields in District Hazaribagh (Jharkhand) by extending timeline for construction of closed belt conveyor upto October, 2024 & construction of railway siding by March, 2025 w.e.f 31st January 2024.
- 8. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC hereby accords amendment in Environment Clearance to M/s NTPC Limited for Kerendari 'A' Coal Mining Project of 6 MTPA peak capacity in mine lease area of 654 ha (project area 1173 ha) by extending timeline for construction of closed belt conveyor upto October, 2024 & construction of railway siding by March, 2025 w.e.f 31st January 2024.
- 9. This issues with the approval of the Competent Authority.

Copy To

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi

2. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional

यराबाबू पी. / VARABABU P.
प्राच प्राचनकार (पी. एवड एस.)। DGM(Pas)
व्यानी शिविदेड/ NTPC Limited
वही वरिवातु कोवता खन्न परियोजना। CBCMP
हजारीबात । Hazaribag

Office, 2nd Floor, Headquarter- Jharkhand State Housing Board, Harmu Chowk, Ranchi, Jharkhand - 834002, Ranchi.

- The Chairman, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi
- The Regional Director, Central Ground Water Board, Mid Eastern Region, 6th& 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer Road, Dak Banglow, Patna- 800011, Bihar.
- 5. The Chairman, Jharkhand State Pollution Control Board, TA building, HEC complex, PO Dhurwa, Ranchi
- 6. The District Collector, Hazaribagh, Government of (Jharkhand)
- 7. PARIVESH Portal

Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Specific Conditions:

S. No	EC Conditions
1.1	As proposed, PP shall complete the work of conveyor and CHP by October, 2024 and railway siding by March, 2025.
1.2	PP shall submit the approved revised Mine Plan with progressive reclamation for change in land use / area of forest land as per approvals obtained to IRO, MoEF&CC.
1.3	PP shall avoid transporting coal by road through forest land without permission from concerned Forest Department.
1.4	PP shall not use any village road and road along sensitive locations such as schools, hospitals etc. for transportation of coal by dumpers/trucks.
1.5	PP shall use the road having width more than 7 mts with tarpaulin covered 40-50 (payload, dumpers/trucks. Further, State Pollution Control Board shall ensure the emissions of trucks by regular inspections.
1.6	M/s NTPC shall write to Ministry of Power to co-ordinate with Ministry of Railways for expeditious construction of Railway siding near to the proposed location.
1.7	PP shall maximum use the nearest location of railway siding (Shivpur & Bachra) for transporting the coal instead of using road for long distance.
1.8	As proposed, construction of road for enroute shivpur siding shall be immediately completed with water sprinkler and tree planation along the road.
1.9	PP shall install atleast 10 nos of fog cannon in mine lease, overburden dump and transportation route within 6 months.
1.10	PP shall establish Environmental laboratory at project site by March 2024 and create Environmental Management Cell to monitor the issues related environmental degradation.

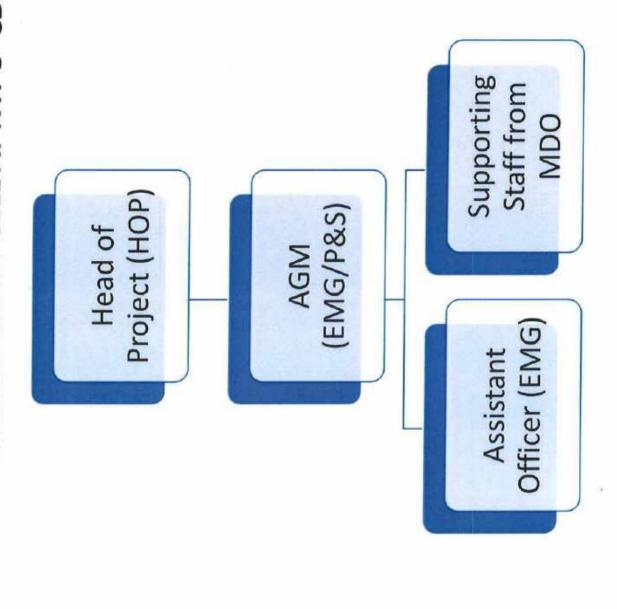
यराबाबू पी. / VARABABU P.
प्राच प्रावसका विश्वलिक वेना)। वंकसाम्बक्तः
व्यवस्थाना विश्वलिक वेना)। वंकसाम्बक्तः
व्यवस्थाना विश्वलिक वेना। प्राप्तिकाना। CBCMP
प्राप्तिकाना। Hazaribag

S. No	EC Conditions
1.11	PP shall explore at least 20% of overall fleet size of dumpers/trucks as electrical or CNG/LNG based dumpers/trucks for transportation of coal/OB etc and deploy e-vehicles for workers/staff in/out of the mine.
1.12	PP shall ensure the compliance of expenditure to be incurred for wildlife conservation plan submitted to the State Govt. and the details expenditure shall be submitted with six monthly EC compliance report to Ministry's IRO. Also, PP shall engage State Biodiversity Authority and local biodiversity committee for implementation of CSR activity for developing the local market.
1.13	PP shall create a "Public Grievance Redressal and Monitoring System" for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on "Public Grievance Redressal and Monitoring System."
1.14	PP shall submit certified compliance report of EC vide letter No. J-11015/120/2007-IA. II (M) dated 31st March, 2010 and later re-validated letter dated 28.10.2015.
1.15	PP shall commission a study for evaluating the impact of air pollution generated by its activities on the forests upto a distance of about 10 kms through an institution of MoEFCC.

Additional EC Conditions

All conditions mentioned in EC letter dated 31.03.2010 read with subsequent EC transfer on 28.10.2015 shall remain unchanged.

वरावाव पी. / VARABABU P.
जा प्राप्तकाम (पी. एवड एस.) / DOM(Pas)
इन्द्रीपीली क्रिकेट / NTPC Limited
वही वरिवाद कोवल जन्म परियोजना / CBCMP
क्राविवान । Hazaribag



वराबाबू पी. / VARABABU P.
पर पहालंबाव (पी. एवड एस.)। DGM(Pas)
हन्दीपीली शिर्मिटेड/ NTPC Limited
वडी वरिवानु कोवता जनन परिवोधना / CBCMP
हजारीबान । Hazaribag

Re: To conduct a study for evaluating the impact of air pollution generated by the mining activities of Chatti Bariatu Coal Mining Project of M/s NTPC Limited on the forests up to a distance of about 10 kms.

EMG_CBCMP <emg_cbcmp@ntpc.co.in>

Thu 5/2/2024 10:30 AM

To:dir_ifp@icfre.org <dir_ifp@icfre.org>;ifpranchi2018@gmail.com <ifpranchi2018@gmail.com>

1 attachments (245 KB)

EC_Amendment_Certificate_of_CBCMP.pdf;

Respected Sir,

With reference to the trailing mail, please find the attached latest EC Amendment letter accorded to CBCMP vide its letter no. J-11015/133/2007-IA.II (M) dated 05.01.2024.

With warm regards, Ravi Kumar Assistant Officer (Environment Management) CBCMP, NTPC Ltd. Mob- 8396059957

From: EMG CBCMP

Sent: Thursday, May 2, 2024 10:26 AM

To: dir_ifp@icfre.org <dir_ifp@icfre.org>; ifpranchi2018@gmail.com <ifpranchi2018@gmail.com>
Cc: AK SONI <AKSONI01@NTPC.CO.IN>; Pavan Vasantrao <PAVANKHANDWE@NTPC.CO.IN>; Ravi Kumar <RKUMAR10@NTPC.CO.IN>

Subject: To conduct a study for evaluating the impact of air pollution generated by the mining activities of Chatti Bariatu Coal Mining Project of M/s NTPC Limited on the forests up to a distance of about 10 kms.

Respected Sir,

The Environmental Clearance (EC) to Chatti Bariatu Coal Mining Project (CBCMP) was granted by MoEF vide its letter no. J-11015/133/2007-IA.II (M) dated 19.04.2010. The EC was further amended two times by MoEF&CC vide its letter no. J-11015/133/2007-IA.II (M) dated 01.12.2020 & 05.01.2024, respectively with certain additional specific conditions (The copy of the latest EC amendment letter is enclosed herewith). One of the specific conditions of the latest EC Amendment letter dated 05.01.2024 stipulates that, "PP shall commission a study for evaluating the impact of air pollution generated by its activities on the forests up to a distance of about 10 kms through an institution of MoEFCC".

We understand that your esteemed Institute carries out such aforementioned study as per the requirement of MoEF&CC. In this context, we request you to provide credentials of such studies done by the Institute and provide budgetary offer to conduct a study for evaluating the impact of air pollution generated by mining activities of Chatti Bariatu Coal Mining Project on the forests up to a distance of about 10 kms.

We remain available to provide any further clarification on the matter and solicit your early response.

With warm regards,

दराबाबू पी. / VARABABU P.

प्राप्त पार्टिश (पी. एवड एस.) / DOM(PAS)

प्राप्त प्रतिकेड / NTPC Limited

वही वरिवानु कोवता साना परियोजना / CBCMP

अवस्थित । Hazaribag

Ravi Kumar Assistant Officer (Environment Management) CBCMP, NTPC Ltd. Mob- 8396059957

यराबाबू पी. / VARABABU P. ज्ञ चलावका (थे. एवड एस.) (DOM(Pas) इन्टोपीसी जिमिटेड / NTPC Limited वही वरिवानु कोवला जनन परिकेचना / CBCMP इजारिवान । Hazaribag

Water Sprinkling System and Fog Canon Installed at the Crusher Unit in CBCMP





Galary

दराबाबू पी. / VARABABU P. पर महास्थान (थे. एवड एस.) i DOM(Pas) इन्टोपीली जिमिटेड/ NTPC Limited यही वरियानु कोयता खनन परियोजना CBCMP इजारियान् । Hazaribag

Dust Suppression along transportation route through Mobile Water Tankers







वराबाबू पी. / VARABABU P.

पर प्राप्तकाम (पी. एपड एस.) / DOM(Pa.8)

इन्द्रीपीली क्रिक्टेड / NTPC Limited

मही वरिवातु कोवला जनन परियोजना / CBCMP

हजारीवान । Hazaribag

Photographs of Plantation work in safety zone of mine lease area, CBCMP





यराबाबू पी. / VARABABU P. पर पहारक्षक (थे. एवड एस.) i DOM(PAS) इन्होंगोली क्रिकेट / NTPC Limited यही वरियानु कोयता जनन परियोजना / CBCMP हजारियान् । Hazaribag

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RAI (m.)	m			Ground	Ground Water Consumption Details in Cubic Meter & Ltr (From 01.10.23 to 31.10.23	sumption Detai	ils in C	ubic Met	ails in Cubic Meter & Ltr (From 01	From 01.10.2	23 to 31.10.2	3)	
BAB!	-		CBC	MPL Offi	CBCMPL Office (B.W. No-01	(1)		Z	TPC Camp	NTPC Camp (B.W. No-02)			CBCMPL+NTPC Camp
ochip	Date	Flow Rate m3/hr	Initial Reading (in m3)	Final Reading (in m3)	Water Consumption (in m3)	Water Consumption (in Itr/day)	Flow Rate m3/hr	Initial Reading (in m3)	Final Reading (in m3)	Water Consumption (in m3)	Water Consumption (in Itr/day)	Total Consumption in m3 (CBCMPL+NTPC Camp)	Total Consumption in ltr/day (CBCMPL+NTPC Camp)
1	01/10/23	4.1	2518.00	2521.00	3.00	3000.00	2.6	4121	4124.34	3.34	3340.00	6.34	6340.00
2	02/10/23	4.2	2521.00	2524.54	3.54	3540.00	2.8	4124.34	4128.02	3.68	3680.00	7.22	7220.00
3	03/10/23	4.1	2524.54	2528.19	3.65	3650.00	5.9	4128.02	4132.56	4.54	4540.00	8.19	8190.00
4	04/10/23	4.4	2528.19	2531.72	3.53	3530.00	2.5	4132.56	4135.61	3.05	3050.00	6.58	6580.00
2	05/10/23	4.2	2531.72	2535.27	3.55	3550.00	2.8	4135.61	4139.27	3.66	3660.00	7.21	7210.00
9	06/10/23	4.2	2535.27	2538.37	3.10	3100.00	2.8	4139.27	4143.24	3.97	3970.00	7.07	7070.00
7	07/10/23	4.1	2538.37	2542.00	3.63	3630.00	2.7	4143.24	4147.04	3.80	3800.00	7.43	7430.00
∞	08/10/23	4.9	2542.00	2545.37	3.37	3370.00	5.6	4147.04	4151.14	4.10	4100.00	7.47	7470.00
6	09/10/23	4.5	2545.37	2548.28	2.91	2910.00	2.8	4151.14	4154.87	3.73	3730.00	6.64	6640.00
10	10/10/23	4.2	2548.28	2551.87	3.59	3590.00	5.6	4154.87	4158.28	3.41	3410.00	7.00	7000.00
11	11/10/23	4.4	2551.87	2554.48	2.61	2610.00	2.8	4158.28	4162.05	3.77	3770.00	6.38	6380.00
12	12/10/23	4.1	2554.48	2558.00	3.52	3520.00	2.6	4162.05	4165.67	3.62	3620.00	7.14	7140.00
13	13/10/23	4.2	2558.00	2561.58	3.58	3580.00	2.8	4165.67	4169.00	3.33	3330.00	6.91	6910.00
14	14/10/23	4.6	2561.58	2565.00	3.42	3420.00	2.9	4169.00	4172.73	3.73	3730.00	7.15	7150.00
15	15/10/23	5.6	2565.00	2568.43	3.43	3430.00	2.8	4172.73	4176.51	3.78	3780.00	7.21	7210.00
16	16/10/23	4.2	2568.43	2572.28	3.85	3850.00	2.8	4176.51	4180.37	3.86	3860.00	7.71	7710.00
17	17/10/23	4.1	2572.28	2575.48	3.20	3200.00	2.6	4180.37	4184.42	4.05	4050.00	7.25	7250.00
18	18/10/23	4.1	2575.48	2578.24	2.76	2760.00	2.8	4184.42	4187.58	3.16	3160.00	5.92	5920.00
13	19/10/23	4.3	2578.24	2582.19	3.95	3950.00	2.6	4187.58	4191.29	3.71	3710.00	7.66	7660.00
20	20/10/23	4.4	2582.19	_	3.15	3150.00	2.8	4191.29	4195.29	4.00	4000.00	7.15	7150.00
21	21/10/23	4.4	2585.34	2588.00	2.66	2660.00	2.9	4195.29	4198.71	3.42	3420.00	80.9	00'0809
22	22/10/23	4.2	2588.00	2591.36	3.36	3360.00	2.8	4198.71	4203.11	4.40	4400.00	7.76	7760.00
23	23/10/23	4.1	2591.36	2594.26	2.90	2900.00	2.2	4203.11	4207.14	4.03	4030.00	6.93	6930.00
24	24/10/23	4.6	2594.26		3.51	3510.00	2.5	4207.14	4211.08	3.94	3940.00	7.45	7450.00
25	25/10/23	5.6	77.7652	_	2.23	2230.00	2.6	4211.08	4215.38	4.30	4300.00	6.53	6530.00
56	26/10/23	4.2	2600.00		3.34	3340.00	2.4	4215.38	4219.49	4.11	4110.00	7.45	7450.00
27	27/10/23	4.1	2603.34	2607.02	3.68	3680.00	25	01 prch	00 SCCV	2 51	3510.00	2,5	2400000

वराबाबू पी. / VARABA!
जन पहालकाक (ची. एवड एस.) / DOM
हन्द्रीपीली जिलक्षेत्र / NTPC Line
वही वरिवाद कोवला खनन परियोजना / हजारीबान । Hazaribag

दाराबाबू पी. / VARABABU P. प्रम महासंक्षक (थी. एवड एस.) (DOM(Pas) इन्होंपीली जिलेक्टेड/ NTPC Limited वही वरिवातु कोवता खनन परिकेजना (CBCMP हजारीबाग । Hazaribag

The state of the s
Total Water Consumption (Oct_2023) 102.00 102000.00
2617.35 2620.00 2.65
2614.00 2617.35 3.35
T
2610 03 2614 00 3 97
2607.02 2610.03 3.01

		TPC Camp	Total Consumption in Itr/day (CBCMPL+NTPC Camp)	7970.00	7270.00	8100.00	7800.00	7280.00	7580.00	7750.00	7620.00	7720.00	7450.00	7530.00	8340.00	7800.00	7130.00	7310.00	8490.00	6560.00	7170.00	7470.00	7790.00	7210.00	6860.00	00.0699	7870.00	8090.00
	()	CBCMPL+NTPC Camp	Total Consumption in m3/day (CBCMPL+NTPC Camp)	79.7	7.27	8.10	7.80	7.28	7.58	7.75	7.62	7.72	7.45	7.53	8.34	7.80	7.13	7.31	8.49	6.56	7.17	7.47	7.79	7.21	98'9	69'9	7.87	8 09
	Cubic Meter & Ltr (From 01.11.23 to 30.11.23)		Water Consumption (in ltr/day)	4200.00	3910.00	4210.00	4080.00	4090.00	4050.00	4150.00	4440.00	4310.00	4280.00	4420.00	4510.00	4570.00	3990.00	4240.00	4660.00	3370.00	3740.00	4080.00	4640.00	3940.00	3790.00	3520.00	3920.00	4370.00
CT, NTPC	From 01.11.2	NTPC Camp (B.W. No-02)	Water Consumption (in m3/day)	4.20	3.91	4.21	4.08	4.09	4.05	4.15	4.44	4.31	4.28	4.42	4.51	4.57	3.99	4.24	4.66	3.37	3.74	4.08	4.64	3.94	3.79	3.52	3.92	4 37
G PROJEC	er & Ltr (PC Camp	Final Reading (in m3)	4240.09	4244.00	4248.21	4252.29	4256.38	4260.43	4264.58	4269.02	4273.33	4277.61	4282.03	4286.54	4291.11	4295.10	4299.34	4304.00	4307.37	4311.11	4315.19	4319.83	4323.77	4327.56	4331.08	4335.00	4339 37
I MININ	ubic Met	Z	Initial Reading (in m3)	4235.89	4240.09	4244.00	4248.21	4252.29	4256.38	4260.43	4264.58	4269.02	4273.33	4277.61	4282.03	4286.54	4291.11	4295.10	4299.34	4304.00	4307.37	4311.11	4315.19	4319.83	4323.77	4327.56	4331.08	4335.00
700 N	ails in C		Flow Rate m3/hr	2.6	2.8	5.9	2.5	2.8	2.8	2.7	2.6	2.8	2.6	2.8	2.6	2.8	5.9	2.8	2.8	2.6	2.8	5.6	2.8	2.9	2.8	2.2	2.5	36
CHATTI BARIATU COAL MINING PROJECT, NTPC	umption Deta	(Water Consumption (in ltr/day)	3770.00	3360.00	3890.00	3720.00	3190.00	3530.00	3600.00	3180.00	3410.00	3170.00	3110.00	3830.00	3230.00	3140.00	3070.00	3830.00	3190.00	3430.00	3390.00	3150.00	3270.00	3070.00	3170.00	3950.00	3770 00
0	Ground Water Consumption Det	CBCMPL Office (B.W. No-01)	Water Consumption (in m3/day)	3.77	3.36	3.89	3.72	3.19	3.53	3.60	3.18	3,41	3.17	3.11	3.83	3.23	3.14	3.07	3.83	3.19	3.43	3.39	3.15	3.27	3.07	3.17	3.95	3 72
	Ground	MPL Offic	Final Reading (in m3)	2621.12	2624.48	2628.37	2632.09	2635.28	2638.81	2642.41	2645.59	2649.00	2652.17	2655.28	2659.11	2662.34	2665.48	2668.55	2672.38	2675.57	2679.00	2682.39	2685.54	2688.81	2691.88	2695.05	2699.00	270272
		CBC	Initial Reading (in m3)	2617.35	2621.12	2624.48	2628.37	2632.09	2635.28	2638.81	2642.41	2645.59	2649.00	2652.17	2655.28	2659.11	2662.34	2665.48	2668.55	2672.38	2675.57	2679.00	2682.39	2685.54	2688.81	2691.88	2695.05	2699.00
			Flow Rate m3/hr	4.1	4.2	4.1	4.4	4.2	4.2	4.1	4.9	4.5	4.2	4.4	4.1	4.2	4.6	5.6	4.2	4.1	4.1	4.3	4.4	4.4	4.2	4.1	4.6	2.6
al .	M) BABI	Date	01/11/23	02/11/23	03/11/23	04/11/23	05/11/23	06/11/23	07/11/23	08/11/23	09/11/23	10/11/23	11/11/23	12/11/23	13/11/23	14/11/23	15/11/23	16/11/23	17/11/23	18/11/23	19/11/23	20/11/23	21/11/23	22/11/23	23/11/23	24/11/23	25/11/23
ens V	(H.)	DOM(PI	CMP	-	2	n	4	2	9	7	00	0	2	11	12	133	14	15	16	17	18	19	20	21	22	23	24	25

वराबाबू पी. / VARABABU P.
जन प्रात्नकार (शे. एवड एस.) / DOM(PAS)
हन्द्रीपीसी शिर्मिटेड / NTPC Limited
वही संरेवातु कोवला खनन परियोजना / CBCMP
हजारीबाग । Hazaribag

226450.00	226.45	125110.00	125.11				101340.00	101.34	_2023)	VON (NOV	Sumpt	Total Water Consumption (Nov_2023)	101
1000.00				100000000000000000000000000000000000000		I		P K C C C C	10000				1
7000 00	7 09	3790.00	3.79	4361.00	4357.21	5.7	3300.00	3.30	2/18.69	2/15.39	4.5	30/11/23 4.5 2/15.39 2/18.69	oc
111000	****		100	The second second				2	23.000	3745 30		20/11/02	OC
7740 00	7 74	4570.00	4.57	4 4357.21	4352.64	2.5	31/0.00	3.1/	2/12/2/ 2/13/39	77.77.77	4.0	C2/TT/C2	63
1110.00	::,	11.0.00					2	277	2715 20	7717 77	40	70/11/72	20
7710 00	771	4570.00	4.57	4352.64	4348.07 4352.6	2.8	3140.00	3.14	77.77/7	2/1/2 00.00/	4.1	C2/TT/07	0.0
							24.000	1	171111	3700 00		78/11/72	28

		CBCMPL+NTPC Camp	n Total Consumption in Itr/day (CBCMPL+NTPC Camp)	8410.00	8190.00	8790.00	8860.00	7980.00	8450.00	8760.00	7980.00	8610.00	8590.00	8970.00	8330.00	8560.00	8640.00	7580.00	8630.00	7600.00	8800.00	8770.00	8010.00	7940.00	8560.00	8460.00	00.40.00
	0	CBCMPL	Total Consumption in m3/day (CBCMPL+NTPC Camp)	8.41	8.19	8.79	8.86	7.98	8.45	8.76	7.98	8.61	8.59	8.97	8.33	8.56	8.64	7.58	8.63	7.60	8.80	8.77	8.01	7.94	8.56	8.46	
	ails in Cubic Meter & Ltr (From 01.12.23 to 31.12.23)		Water Consumption (in ftr/day)	4450.00	3840.00	4710.00	4810.00	4060.00	4500.00	4470.00	3890.00	4270.00	4720.00	4520.00	43.70.00	4650.00	4490.00	3790.00	4220.00	3890.00	4330.00	4480.00	4300.00	4410.00	4370.00	4390.00	2000
CT, NTPC	(From 01.12.2	NTPC Camp (B.W. No-02)	Water Consumption (in m3/day)	4.45	3.84	4.71	4.81	4.06	4.50	4.47	3.89	4.27	4.72	4.52	4.37	4.65	4.49	3.79	4.22	3,89	4.33	4.48	4.30	4.41	4.37	4.39	* 7 *
G PROJE	er & Ltr (PC Camp	Final Reading (in m3)	4365.45	4369.29	4374.00	4378.81	4382.87	4387.37	4391.84	4395.73	4400.00	4404.72	4409.24	4413.51	4423.09	4427.58	4431.37	4435.59	4439.48	4443.81	4448.29	4452.59	4457.00	4461.37	4465.76	100000
I MININ	ubic Met	Ξ	Initial Reading (in m3)	4361.00	4365.45	4369.29	4374.00	4378.81	4382.87	4387.37	4391.84	4395.73	4400.00	4404.72	4409.24	4418.44	4423.09	4427.58	4431.37	4435.59	4439.48	4443.81	4448.29	4452.59	4457.00	4461.37	AP LEVE
U COA	ils in C		Flow Rate m3/hr	2.6	2.8	5.9	2.5	2.8	2.8	2.7	2.6	2.8	2.6	2.0	2.8	2.9	2.8	2.8	5.6	2.8	5.6	2.8	5.9	2.8	2.2	2.5	
CHATTI BARIATU COAL MINING PROJECT, NTPC	umption Deta		Water Consumption (in ltr/day)	3960.00	4350.00	4080.00	4050.00	3920.00	3950.00	4290.00	4090.00	4340.00	3870.00	4450.00	3950.00 4180.00	3910.00	4150.00	3790.00	4410.00	3710.00	4470.00	4290.00	3710.00	3530.00	4190.00	4070.00	
Ū	Ground Water Consumption Det	CBCMPL Office (B.W. No-01)	Water Consumption (in m3/day)	3.96	4.35	4.08	4.05	3.92	3.95	4.29	4.09	4.34	3.8/	4.45	3.90	3.91	4.15	3.79	4.41	3.71	4.47	4.29	3.71	3.53	4.19	4.07	***
	Ground	MPL Offic	Final Reading (in m3)	2722.65	2727.00	2731.08	2735.13	2739.05	2743.00	2747.29	2751.38	27.55.72	65.6677	2759.00	2772 18	2776.09	2780.24	2784.03	2788.44	2792.15	2796.62	2800.91	2804.62	2808.15	2812.34	2816.41	20000
		CBC	Initial Reading (in m3)	2718.69	2722.65	2727.00	2731.08	2735.13	2739.05	2743.00	2741.29	2/51.38	27.55.72	60.6077	2768.00	2772.18	2776.09	2780.24	2784.03	2788.44	2792.15	2796.62	2800.91	2804.62	2808.15	2812.34	2040 44
			Flow Rate m3/hr	4.1	4.2	4.1	4.4	4.2	4.2	4.1	P. 4	4.5	7.4	4.4	4.1	4.6	5.6	4.2	4.1	4.1	4.3	4.4	4.4	4.2	4.1	4.6	1
ak Val	MARAF	BABI	'A Date	01/12/23	02/12/23	03/12/23	04/12/23	05/12/23	06/12/23	07/12/23	08/17/23	09/12/23	10/17/73	11/17/23	13/12/23	14/12/23	15/12/23	16/12/23	17/12/23	18/12/23	19/12/23	20/12/23	21/12/23	22/12/23	23/12/23	24/12/23	00/01/10
gus s/N	(R.)	DOM(PI Limite PILLCE	ad Z	-	2	n	4	2	٦	, 0	0	n :	15	1 5	13	14	15	16	17	18	19	20	21	22	23	24	20

दराबाबू पी. / VARABABU P. प्रम महाशंकर (थी. एवड एस.) (DOM(PAS) हन्द्रोपीली जैनिनेटेड/ NTPC Limited यही वरिवानु कोवता सनन परिकेच्या CBCMP हजारीबाग । Hazaribag

Total	31 3	100	29 2	100
Total Water Consumption (Dec_2023)	31/12/23		29/12/23	18/12/23
nsump	4.5	4.5	4.3	4.1
tion (Dec	4.5 2840.24 2844.00	2836.53 2840.24	2832.12 2836.53	2828.37
2023)	2844.00	2840.24	2836.53	2832.12
125.31	3.76	3.71	4.41	3.75
125310.00	3760.00	3710.00	4410.00	3750.00
	2.5	2.4	2.5	2.8
	4491.83	4487.38	4483.54	4479.11
	4496.00	4491.83	4487.38	4483.54
135.00	4.17	4.45	3.84	4.43
135000.00	4170.00	4450.00	3840.00	4430.00
260.31	7.93	8.16	8.25	8.18
260310.00	7930.00	8160.00	8250.00	8180.00

		TPC Camp	Total Consumption in ltr/day (CBCMPL+NTPC Camp)	8310.00	8160.00	8100.00	8890.00	8310.00	8610.00	8220.00	8130.00	8330.00	8580.00	8700.00	8380.00	8660.00	8180.00	8530.00	8350.00	8370.00	8410.00	8400.00	8400.00	8270.00	8180.00	8970.00	8180.00
	_	CBCMPL+NTPC Camp	Total Consumption in m3/day (CBCMPL+NTPC Camp)	8.31	8.16	. 8.10	8.89	8.31	8.61	8.22	0.13	8.33	8.58	8.70	8.38	8.66	8.18	8.53	8.35	8.37	8.41	8.40	8.40	8.27	8.18	8.97	8 18
	Ground Water Consumption Details in Cubic Meter & Ltr (From 01.01.24 to 31.01.24)		Water Consumption (in Itr/day)	4210.00	4080.00	4090.00	4840.00	4260.00	4530.00	4180.00	4050.00	4290.00	4370.00	4630.00	4110.00	4180.00	4080.00	4440.00	4190.00	4290.00	4490.00	4220.00	4110.00	4180.00	4090.00	4620.00	4110 00
T, NTPC	From 01.01.2	NTPC Camp (B.W. No-02)	Water Consumption (in m3/day)	4.21	4.08	4.09	4.84	4.26	4.53	4.18	4.03	4.29	4.37	4.63	4.11	4.18	4.08	4.44	4.19	4.29	4.49	4.22	4.11	4.18	4.09	4.62	411
3 PROJEC	er & Ltr (PC Camp	Final Reading (in m3)	4500.21	4504.29	4508.38	4513.22	4517.48	4522.01	4526.19	4530.22	4539.00	4543.37	4548.00	4552.11	4556.29	4560.37	4564.81	4569.00	4573.29	4577.78	4582.00	4586.11	4590.29	4594.38	4599.00	4603 11
TU COAL MINING PROJECT, NTPC	ubic Met	N	Initial Reading (in m3)	4496.00	4500.21	4504.29	4508.38	4513.22	4517.48	4522.01	4530 22	4534.71	4539.00	4543.37	4548.00	4552.11	4556.29	4560.37	4564.81	4569.00	4573.29	4577.78	4582.00	4586.11	4590.29	4594.38	7599 DD
U COA	ils in C		Flow Rate m3/hr	5.6	2.8	2.9	2.5	2.8	2.8	2.7	2.8	2.6	2.8	5.6	2.8	5.9	2.8	2.8	2.6	2.8	5.6	2.8	2.9	2.8	2.2	2.5	36
CHATTI BARIAT	Imption Detai		Water Consumption (in Itr/day)	4100.00	4080.00	4010.00	4050.00	4050.00	4080.00	4040.00	4510.00	4040.00	4210.00	4070.00	4270.00	4480.00	4100.00	4090.00	4160.00	4080.00	3920.00	4180.00	4290.00	4090.00	4090.00	4350.00	4070 00
ō	Water Consu	CBCMPL Office (B.W. No-01)	Water Consumption (in m3/day)	4.10	4.08	4.01	4.05	4.05	4.08	4.04	4.51	4.04	4.21	4.07	4.27	4.48	4.10	4.09	4.16	4.08	3.92	4.18	4.29	4.09	4.09	4.35	4 07
	Ground	MPL Offic	Final Reading (in m3)	2848.10	2852.18	2856.19	2860.24	2864.29	2868.37	2872.41	2881.02	2885.06	2889.27	2893.34	2897.61	2902.09	2906.19	2910.28	2914.44	2918.52	2922.44	2926.62	2930.91	2935.00	2939.09	2943.44	2947 51
		CBC	Initial Reading (in m3)	2844.00	2848.10	2852.18	2856.19	2860.24	2864.29	2868.37	2876.51	2881.02	2885.06	2889.27	2893.34	2897.61	2902.09	2906.19	2910.28	2914.44	2918.52	2922.44	2926.62	2930.91	2935.00	2939.09	2943 44
			Flow Rate m3/hr	4.1	4.2	4.1	4.4	4.2	4.2	4.1	4.5	4.2	4.4	4.1	4.2	4.6	5.6	4.2	4.1	4.1	4.3	4.4	4.4	4.2	4.1	4.6	26
ak -		7	Date	01/01/24	02/01/24	03/01/24	04/01/24	05/01/24	06/01/24	07/01/24	09/01/24	10/01/24	11/01/24	12/01/24	13/01/24	14/01/24	15/01/24	16/01/24	17/01/24	18/01/24	19/01/24	20/01/24	21/01/24	22/01/24	23/01/24	24/01/24	25/01/24
PUS PUS PIN	(TRC	ABI DOM(PI Limite PET CB	ra) N N	1	2	m	4	2	9	_ α	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

वराबाबू पी. / VARABABU P.

प्राचनकार (पी. एवड एस.) / DOM(PAS)

व्यविद्या स्थितेश NTPC Limited

वही वरिवातु कोवला जनन परियोजना / CBCMP

हजारीवार । Hazaribag

262000.00	262.00	133000.00	133.00				129000.00	129.00	2024)	non (Jan_	nsump	lotal Water Consumption (Jan_2024)	1012
8970.00	8.97	4460.00	4.46	4629.00	4624.54	2.5	4510.00	4.51	29/3,00	2968.49 2973.00	4.5	C'th 47/TO/TE	1
0/10:00	0.71	10.000	1	-					2000	3000	4 6	21/01/24	-
871000	8 71	4540 00	4.54	4624.54	4620.00	2.4	4170.00	4.17	2968.49	2964.32 2968.49	4.5	30/U1/24	00
00,00,00	0.40	1400.00							-	200		-	-
00 03/28	27.8	4190 00	4 19	4620.00	4615.81 4620.00	2.5	4260.00	4.26	2904.32	2500.00 2504.32	4.5	47/TO/C7	-
0000000									200	300000			20
8300 00	8 30	4240.00	4.24	4615.81	4611.57	2.4	4060.00	4.00	00.0057	00.0057 00.0057	4.4	to Italas	200

		CBCMPL+NTPC Camp	Total Consumption in Itr/day (CBCMPL+NTPC Camp)	8460.00	8570.00	8200.00	9000.00	8700.00	8460.00	8770.00	8620.00	8290.00	9100.00	8740.00	8310.00	8930.00	9010.00	8390.00	9130.00	9210.00	8900.00	8560.00	8670.00	7730.00	8660.00	7970.00	8390.00	8770.00	00 0308					
		CBCMPL+N	Total Consumption in m3/day (CBCMPL+NTPC Camp)	8.46	8.57	8.20	9.00	8.70	8.46	8.77	8.62	8.29	9.10	8.74	8.31	8.93	9.01	8.39	9.13	9.21	8.90	8.56	8.67	7.73	8.66	7.97	8.39	8.77	1					
	Ground Water Consumption Details in Cubic Meter & Ltr (From 01.02.24 to 29.02.24)		Water Consumption (in ltr/day)	4370.00	4470.00	4160.00	4640.00	4610.00	4020.00	4100.00	4360.00	4270.00	4380.00	4010.00	4610.00	4470.00	4640.00	4180.00	4710.00	4720.00	4280.00	4670.00	4330.00	3340.00	4390.00	3860.00	4410.00	4520.00						
CT, NTPC	From 01.02.2	NTPC Camp (B.W. No-02)	Water Consumption (in m3/day)	4.37	4.47	4,16	4.64	4.61	4.02	4.10	4.36	4.27	4.38	4.01	4.61	4.47	4.64	4.18	4.71	4.72	4.28	4.67	4.33	3.34	4.39	3.86	4.41	4.52						
G PROJE	er & Ltr (PC Camp	Final Reading (in m3)	4624.37	4628.84	4633.00	4637.64	4642.25	4646.27	4650.37	4654.73	4659.00	4663.38	4667.39	4672.00	4676.47	4681.11	4685.29	4690.00	4694.72	4699.00	4703.67	4708.00	4711.34	4715.73	4719.59	4724.00	4728.52						
TU COAL MINING PROJECT, NTPC	ubic Met	2	Initial Reading (in m3)	4620.00	4624.37	4628.84	4633.00	4637.64	4642.25	4646.27	4650.37	4654.73	4659.00	4663.38	4667.39	4672.00	4676.47	4681.11	4685.29	4690.00	4694.72	4699.00	4703.67	4708.00	4711.34	4715.73	4719.59	4724.00						
700 n	lls in C		Flow Rate m3/hr	5.6	2.8	2.9	2.5	2.8	2.8	2.7	2.6	2.8	2.6	2.8	5.6	2.8	2.9	2.8	2.8	5.6	2.8	5.6	2.8	2.9	2.8	2.2	2.5	5.6						
CHATTI BARIAT	ımption Deta		Water Consumption (in ltr/day)	4090.00	4100.00	4040.00	4360.00	4090.00	4440.00	4670.00	4260.00	4020.00	4720.00	4730.00	3700.00	4460.00	4370.00	4210.00	4420.00	4490.00	4620.00	3890.00	4340.00	4390.00	4270.00	4110.00	3980.00	4250.00	00000					
0	Water Consi	ce (B.W. No-01	Water Consumption (in m3/day)	4.09	4.10	4.04	4.36	4.09	4.44	4.67	4.26	4.02	4.72	4.73	3.70	4.46	4.37	4.21	4.42	4.49	4.62	3.89	4.34	4.39	4.27	4.11	3.98	4.25	1					
	Ground	CBCMPL Office (B.W. No-01)	CBCMPL Office (B.W. No	CBCMPL Office (B.W.	Ground Water CBCMPL Office (B.W.	Ground Water CBCMPL Office (B.W.	Ground Water CBCMPL Office (B.W.	Final Reading (in m3)	2968.41	2972.51	2976.55	2980.91	2985.00	2989.44	2994.11	2998.37	3002.39	3007.11	3011.84	3015.54	3020.00	3024.37	3028.58	3033.00	3037.49	3042.11	3046.00	3050.34	3054.73	3059.00	3063.11	3067.09	3071.34	The second second
	Groun							CBCMPLC	Grou CBCMPL O	Initial Reading (in m3)	2964.32	2968.41	2972.51	2976.55	2980.91	2985.00	2989.44	2994.11	2998.37	3002.39	3007.11	3011.84	3015.54	3020.00	3024.37	3028.58	3033.00	3037.49	3042.11	3046.00	3050.34	3054.73	3059.00	3063.11
			Flow Rate m3/hr	4.1	4.2	4.1	4.4	4.2	4.2	4.1	4.9	4.5	4.2	4.4	4.1	4.2	4.6	5.6	4.2	4.1	4.1	4.3	4.4	4.4	4.2	4.1	4.6	5.6	7.7					
N.	m	7	Date	01/02/24	02/02/24	03/02/24	04/02/24	05/02/24	06/02/24	07/02/24	08/02/24	09/02/24	10/02/24	11/02/24	12/02/24	13/02/24	14/02/24	15/02/24	16/02/24	1//02/24	18/02/24	19/02/24	20/02/24	21/02/24	22/02/24	23/02/24	24/02/24	25/02/24	1 41 14 1					
VA Very	(H.)	ABI DOM(PI Limite PEI CB	ig IZ oN	1	2	33	4	2	9	7	00	6	9 ;	=	175	13	14	15	19	7	18	13	20	21	22	23	24	52	-					

वराबाबू पी. / VARABABU P.
जन पहालंका (पी. एवड एस.) / DOM(PAS)
व्यापालंका शिर्मिटेड / NTPC Limited
वही संरेवातु कोवला जनन परियोजना / CBCMP
हजारिया । Hazaribag

Tota	67	30	25
Total Water Consumption (Feb_2024)	+7/70/67	יכו כטו סכ	47/70/97
nsump	4.3	40	4.1
ition (Feb	3083.11	2002 44	4.1 30/9.34 3083.1
2024)	1 3087.00	2001	3083.11
122.68	3.89	,	3.77
122680.00	3890.00	9	3770.00
	2.5		2.8
	4741.09		2.8 4737.00 4741.09
	4745.00		4741.09
125.00	3.91		4.09
125000.00	3910.00	300000000000000000000000000000000000000	4090.00
247.68	7.80	1.114	7.86
247680.00	7800.00	. 000.00	7860.00

VA	NA.				J	CHATTI BARIA	TU CO	AL MININ	TU COAL MINING PROJECT, NTPC	CT, NTPC			
(AE	M			Ground	Water Consi	umption Deta	ails in C	ubic Me	ter & Ltr	Ground Water Consumption Details in Cubic Meter & Ltr (From 01.03.24 to 31.03.24)	24 to 31.03.2	4)	
ABI)		CBC	MPL Office	CBCMPL Office (B.W. No-01	(1		Z	TPC Camp	NTPC Camp (B.W. No-02)		CBCMPL+N	CBCMPL+NTPC Camp
ra) N	Date	Flow Rate m3/hr	Initial Reading (in m3)	Final Reading (in m3)	Water Consumption (in m3/day)	Water Consumption (in ltr/day)	Flow Rate m3/hr	Initial Reading (in m3)	Final Reading (in m3)	Water Consumption (in m3/day)	Water Consumption (in ltr/day)	Total Consumption in m3/day (CBCMPL+NTPC Camp)	Total Consumption in Itr/day (CBCMPL+NTPC Camp)
	01/03/24	4.1	3087.00	3091.21	4.21	4210.00	5.6	4745.00	4749.11	4.11	4110.00	8.32	8320.00
	02/03/24	4.2	3091.21	3095.37	4.16	4160.00	2.8	4749.11	4753.27	4.16	4160.00	8.32	8320.00
	03/03/24	4.1	3095.37	3100.00	4.63	4630.00	5.9	4753.27	4757.38	4.11	4110.00	8.74	8740.00
	04/03/24	4.4	3100.00	3104.45	4.45	4450.00	2.5	4757.38	4761.81	4.43	4430.00	8.88	8880.00
	05/03/24	4.2	3104.45	3108.21	3.76	3760.00	2.8	4761.81	4766.37	4.56	4560.00	8.32	8320.00
	06/03/24	4.2	3108.21	3112.71	4.50	4500.00	2.8	4766.37	4770.51	4.14	4140.00	8.64	8640.00
	07/03/24	4.1	3112.71	3116.97	4.26	4260.00	2.7	4770.51	4775.01	4.50	4500.00	8.76	8760.00
	08/03/24	4.9	3116.97	3120.82	3.85	3850.00	2.6	4775.01	4779.00	3.99	3990.00	7.84	7840.00
	09/03/24	4.5	3120.82	3124.51	3.69	3690.00	2.8	4779.00	4783.49	4.49	4490.00	8.18	8180.00
10	10/03/24	4.2	3124.51	3128.00	3.49	3490.00	2.6	4783.49	4788.00	4.51	4510.00	8.00	8000.00
11	11/03/24	4.4	3128.00	3132.09	4.09	4090.00	2.8	4788.00	4792.27	4.27	4270.00	8.36	8360.00
12	12/03/24	4.1	3132.09	-	4.39	4390.00	5.6	4792.27	4796.51	4.24	4240.00	8.63	8630.00
13	13/03/24	4.2	3136.48		3.81	3810.00	2.8	4796.51	4800.61	4.10	4100.00	7.91	7910.00
14	14/03/24	4.6	3140.29	_	4.52	4520.00	5.9	4800.61	4804.89	4.28	4280.00	8.80	8800.00
15	15/03/24	5.6	3144.81	3149.00	4.19	4190.00	2.8	4804.89	4809.00	4.11	4110.00	8.30	8300.00
16	16/03/24	4.2	3149.00	3153.12	4.12	4120.00	2.8	4809.00	4813.42	4.42	4420.00	8.54	8540.00
17	17/03/24	4.1	3153.12	3157.45	4.33	4330.00	5.6	4813.42	4818.04	4.62	4620.00	8.95	8950.00
18	18/03/24	4.1	3157.45	3161.37	3.92	3920.00	2.8	4818,04	4822.34	4.30	4300.00	8.22	8220.00
19	19/03/24	4.3	3161.37	3165.00	3.63	3630.00	5.6	4822.34	4826.51	4.17	4170.00	7.80	7800.00
20	20/03/24	4.4	3165.00	3165.00 3169.18	4.18	4180.00	2.8	4826.51	4831.00	4.49	4490.00	8.67	8670.00
21	21/03/24	4.4	3169.18	3173.48	4.30	4300.00	2.9	4831.00	4835.19	4.19	4190.00	8.49	8490.00
22	22/03/24	4.2	3173.48	-	4.52	4520.00	2.8	4835.19	4839.81	4.62	4620.00	9.14	9140.00
23	23/03/24	4.1	3178.00	3182.11	4.11	4110.00	2.2	4839.81	4844.00	4.19	4190.00	8.30	8300.00
24	24/03/24	4.6	3182.11	3186.43	4.32	4320.00	2.5	4844.00	4848.41	4.41	4410.00	8.73	8730.00
25	25/03/24	5,6	3186.43	-	4.11	4110.00	5.6	4848.41	4853.00	4.59	4590.00	8.70	8700.00
56	26/03/24	4.2	3190.54	3195.00	4.46	4460.00	2.4	4853.00	4857.11	4.11	4110.00	8.57	8570.00
27	27/03/24	4.1	3195.00	3199.08	4.08	4080.00	2.5	4857.11	4861.52	4.41	4410.00	8.49	8490.00

वराबाबू पी. / VARABABU
प्रमाणकाम (के एक एक.)। DOM(PAS)
प्रमाणकाम (के एक एक.)। DOM(PAS)
प्रमाणकाम (के प्रमाणकाम (BC)
प्रमाणकाम (Hazaribag)

यराबाबू पी. / VARABABU P. प्रा महाशंकर (थी. एवड एस.) / DOM(PAS) हन्द्रोपीली जिलिटेड/ NTPC Limited यही वरियानु कोयता खनन परियोजना CBCMP हजारीबाग / Hazaribag

245480.00	245.48	125000.00	125.00				120480.00	120.48	1_2024)	on (March	nmpti	lotal Water Consumption (March_2024)	otal
8410.00	8.41	4120.00	4.12	4878.49	4874.37	1.9	4290.00	4.29	3216.00	3211./1	4./	31/03/24	
8600.00	8.60	43/0.00	4.3/	46/4.3/	40/0.00	2.2	00.0024	4.63	2011	000000000000000000000000000000000000000	1	יייייייייייייייייייייייייייייייייייייי	2
				707/ 77	20 00 00	,	4730.00	173	17 1102	3207 48	45	30/03/24	30
8010.00	8.01	4000.00	4.00	4870.00	4866.00	2.5	4010.00	4.01	3207.48	3203.47	4.3	47/50/67	52
00,0,00	0.0								2000	2000		מכי בחו מר	
8870 00	8 87	4480.00	4.48	4866.00	4861.52 4866.00	2.8	4390.00	4.39	3203.47	SU'GETS	4.1	47/00/02	02

	Mine Wa	ater Cons	ter Consumption (Dewatering)_CBCMP	vatering)	CBCMP		
			Oct_2023				
Tanker_22 (KL (in trip)	Water Consumption (in Ltr)	Tanker_12 KL (in trip)	Water Consumption (in Ltr)	Fire Tender_6 KL (in trip)	Water Consumption (in Ltr)	Total Water Consumption (in Ltr)	Total Water Consumption (in cum)
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	9	36000	36000	36
	O	0	0	3	18000	18000	18
	00099	0	0	∞	48000	114000	114
	44000	2	24000	4	24000	92000	92
	88000	2	24000	11	00099	178000	178
	220000	3	36000	12	72000	328000	328
	352000	4	48000	15	00006	490000	490
	308000	4	48000	20	120000	476000	476
	264000	4	48000	. 15	00006	402000	402
	396000	4	48000	19	114000	558000	558
	330000	4	48000	18	108000	486000	486
	396000	4	48000	15	00006	534000	534
	264000	3	36000	12	72000	372000	372
	286000	4	48000	13	78000	412000	412
	330000	4	48000	9	36000	414000	414
	418000	4	48000	15	00006	256000	556
	396000	5	00009	11	00099	522000	522
	220000	4	48000	6	54000	322000	322

वराबाबू पी. / VARABABU P.

प्रा पहालकाश (थी. एवड एस.) (DOM(PAS)

हन्दीपीली जिलिटेड/ NTPC Limited

वही वरिवानु कोवला खनन परियोजना / CBCMP

हजारीबान् । Hazaribag

वराबाबू पी. / VARABABU P. जन महासंस्था (थी. एनड एस.)। DOMPAS) इन्डोपीसी शिविटेड/ NTPC Limited यही संरियानु कोवला खनन परिधोजना। CBCMP हजारीयान । Hazaribag

	31 310	30 30 0	29 29 0	28 28 0	27 27 0	26 26 C	25 25 C	24 24 0	23 23 0
	31 Oct 23	30 Oct 23	29 Oct 23	28 Oct 23	27 Oct 23	26 Oct 23	25 Oct 23	24 Oct 23	23 Oct 23
328	16	14	16	17	16	16	15	10	9
7216000	352000	308000	352000	374000	352000	352000	330000	220000	198000
92	4	4	4	5	4	5	4	3	4
1104000	48000	48000	48000	60000	48000	60000	48000	36000	48000
294	7	6	10	13	12	9	8	80	9
1764000	42000	36000	60000	78000	72000	54000	48000	48000	54000
10084000	442000	392000	460000	512000	472000	466000	426000	304000	300000
10084	442	392	460	512	472	466	426	304	300

The			Mine Wa		umption (De	er Consumption (Dewatering) CBCMP	BCMP		
la					Nov'23				
WAN TO THE PERSON NAMED IN COLUMN TO	Date	Tanker_22 KL (trip/day)	Water Consumption (in Ltr/day)	Tanker_12 KL (trip/day)	Water Consumption (in Ltr/day)	Fire Tender_6 KL (trip/day)	Water Consumption (in Ltr/day)	Total Water Consumption (in Ltr/day)	Total Water Consumption (in m3/day)
	1 Nov 23	16	352000	4	48000	9	36000	436000	436
2	2 Nov 23	15	330000	4	48000	ıs	30000	408000	408
3	3 Nov 23	17	374000	3	36000	0	0	410000	410
4	4 Nov 23	17	374000	4	48000	4	24000	446000	446
2	5 Nov 23	18	396000	2	24000	10	00009	480000	480
9	6 Nov 23	17	374000	ю	36000	10	00009	470000	470
7	7 Nov 23	13	286000	2	24000	2	30000	340000	340
00	8 Nov 23	16	352000	4	48000	9	36000	436000	436
6	9 Nov 23	10	220000	2	24000	S	30000	274000	274
10	10 Nov 23	11	242000	ĸ	36000	7	42000	320000	320
디	11 Nov 23	∞	176000	1	12000	9	36000	224000	224
12	12 Nov 23	14	308000	4	48000	7	42000	398000	398
13	13 Nov 23	13	286000	8	36000	1	0009	328000	328
14	14 Nov 23	14	308000	4	48000	2	12000	368000	368
15	15 Nov 23	10	220000	4	48000	1	0009	274000	274
16	16 Nov 23	11	242000	8	36000	2	12000	290000	290
17	17 Nov 23	13	286000	3	36000	n	18000	340000	340
18	18 Nov 23	12	264000	4	48000	1	0009	318000	318
19	19 Nov 23	14	308000	4	48000	1	0009	362000	362
20	20 Nov 23	12	264000	2	24000	0	0	288000	288
21	21 Nov 23	18	396000	3	36000	2	12000	444000	444
22	22 Nov 23	3 20	440000	5	00009	3	18000	518000	518

दराबाबू पी. / VARABABU P.
प्राच्याकार (पी. एवड एस.)। DOM(PAS)
व्याच्याकार (पी. एवड एस.)। DOM(PAS)

वराबाबू पी. / VARABABU P.
यराबाबू पी. / VARABABU P.
यर महासंस्था (थे. एवड एस.) / DOM(Pa.S)
हन्द्रीवीती विशिष्टेड / NTPC Limited
यही वरिवाबु कोवता खनन परियोजना CBCMP
हजारीबाग / Hazaribag

	30	29	28	27	26	25	24	23
	30 Nov 23	29 Nov 23	28 Nov 23	27 Nov 23	26 Nov 23	25 Nov 23	24 Nov 23	23 Nov 23
419	14	14	12	14	14	12	14	16
9218000	308000	308000	264000	308000	308000	264000	308000	352000
98	ω	2	3	w	ω	4	3	6
1176000	36000	24000	36000	36000	36000	48000	36000	72000
91	-	0	0	0	3	0	0	0
546000	6000	0	0	0	18000	0	0	0
10940000	350000	332000	300000	344000	362000	312000	344000	424000
10940	350	332	300	344	362	312	344	424

De			Mine Water C	er Consump	tion (Dewate	onsumption (Dewatering) CBCMP NTPC Ltd	P NTPC Ltd		
ka					Dec'23				
ing)	Date	Tanker_22 KL (trip/day)	Water Consumption (in Ltr/day)	Tanker_12 KL (trip/day)	Water Consumption (in Ltr/day)	Fire Tender_6 KL (trip/day)	Water Consumption (in Ltr/day)	Total Water Consumption (in Ltr/day)	Total Water Consumption (in m3/day)
1	1 Dec 23	10	220000	3	36000	0	0	256000	256
2	2 Dec 23	10	220000	2	24000	0	0	244000	244
3	3 Dec 23	12	264000	2	24000	0	0	288000	288
4	4 Dec 23	13	286000	8	36000	п	0009	328000	328
5	5 Dec 23	6	198000	2	24000	0	0	222000	222
9	6 Dec 23	0	0	0	0	0	0	0	0
7	7 Dec 23	0	0	0	0	0	0	0	0
00	8 Dec 23	0	0	0	0	0	0	0	0
6	9 Dec 23	2	44000	H	12000	-	0009	62000	62
10	10 Dec 23	10	220000	33	36000	2	12000	268000	268
11	11 Dec 23	10	220000	2	24000	0	0	244000	244
12	12 Dec 23	11	242000	2	24000	1	0009	272000	272
13	13 Dec 23	13	286000	m	36000	0	0	322000	322
14	14 Dec 23	111	242000	8	36000	0	0	278000	278
15	15 Dec 23	9	132000	2	24000	Ŧ	0009	162000	162
16	16 Dec 23	10	220000	2	24000	1	0009	250000	250
17	17 Dec 23	3 10	220000	4	48000	1	0009	274000	274
18	18 Dec 23	3 10	220000	4	48000	0	0	268000	268
19	19 Dec 23	9 8	132000	4	48000	0	0	180000	180
20	20 Dec 23	3 13	286000	2	24000	0	0	310000	310
21	21 Dec 23	3 10	220000	4	48000	0	0	268000	268
22	22 Dec 23	3 10	220000	2	24000	0	0	244000	244

वराबाबू पी. / VARABABU P.
पन महामांकाश (थी. एवड एस.)। DOM(PAS)
हनटीपीली जिलिटेड/ NTPC Limited
वही वरिवानु कोवला जनन परियोजना CBCMP
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वराबाबू पी. / VARABABU P.
जन पहार्थका (पी. एवड एस.) i DOM(PAS)
हम्होपीसी विविदेश NTPC Limited
वही वरिवादु कोवला जनन परियोजना / CBCMP
हजारीबान । Hazaribag

	31	30	29	87	27	26	25	24	23
	31 Dec 23	30 Dec 23	29 Dec 23	28 Dec 23	27 Dec 23	26 Dec 23	25 Dec 23	24 Dec 23	23 Dec 23
304	13	14	12	14	15	12	13	13	12
6688000	286000	308000	264000	308000	330000	264000	286000	286000	264000
74	1	2	ω	ω	w	4	2	2	4
888000	12000	24000	36000	36000	36000	48000	24000	24000	48000
9	0	0	0	0	1	0	0	0	0
54000	0	0	0	0	6000	0	0	0	0
7630000	298000	332000	300000	344000	372000	312000	310000	310000	312000
7630	298	332	300	344	372	312	310	310	312

De			Mine Water Co	er Consump	tion (Dewate	onsumption (Dewatering)_CBCMP NTPC Ltd	P NTPC Ltd		
ka					Jan'24				
LNO IS	Date	Tanker_22 KL (trip/day)	Water Consumption (in Ltr/day)	Tanker_12 KL (trip/day)	Water Consumption (in Ltr/day)	Fire Tender_6 KL (trip/day)	Water Consumption (in Ltr/day)	Total Water Consumption (in Ltr/day)	Total Water Consumption (in m3/day)
1	1 Jan 24	0	0	0	0	0	0	0	0
2	2 Jan 24	10	220000	2	24000	0	0	244000	244
n	3 Jan 24	8	176000	2	24000	1	0009	206000	506
4	4 Jan 24	11	242000	2	24000	0	0	266000	366
5	5 Jan 24	16	352000	4	48000	0	0	400000	400
9	6 Jan 24	00	176000	3	36000	0	0	212000	212
7	7 Jan 24	4	88000	2	24000	0	0	112000	112
00	8 Jan 24	00	176000	8	36000	0	0	212000	212
6	9 Jan 24	9	132000	2	24000	0	0	156000	156
10	10 Jan 24	6	198000	4	48000	0	0	246000	246
11	11 Jan 24	10	220000	3	36000	0	0	256000	256
12	12 Jan 24	8	176000	2	24000	0	0	200000	200
13	13 Jan 24	. 14	308000	2	00009	0	0	368000	368
14	14 Jan 24	14	308000	4	48000	0	0	356000	356
15	15 Jan 24	14	308000	4	48000	2	12000	368000	368
16	16 Jan 24	15	330000	4	48000	2	30000	408000	408
17	17 Jan 24	14	308000	4	48000	9	36000	392000	392
18	18 Jan 24	1 3	00099	2	24000	7	42000	132000	132
19	19 Jan 24	1 4	88000	2	24000	9	36000	148000	148
20	20 Jan 24	12	264000	8	00096	23	138000	498000	498
21	21 Jan 24	10	220000	9	72000	34	204000	496000	496
22	22 Jan 24	6 t	198000	7	84000	34	204000	486000	486

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प्राः पार्श्वाक (थी. एवड एस.)। DOM(PAS)

ल्यानी शिविदेड/ NTPC Limited
वही वरिवायु कोवता खन्म परियोजना। CBCMP
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वराबाबू पी. / VARABABU P.
चन पहासंबात (पी. एवड एस.) I BOM(PAS)
स्मारीयारी विविदेड / NTPC Limited
वही सरिवातु कोवला चनन परियोजना / CBCMP
हजारीबान । Hazaribag

	31	30	29	28	27	26	25	24	23
	31 Jan 24	30 Jan 24	29 Jan 24	28 Jan 24	27 Jan 24	26 Jan 24	25 Jan 24	24 Jan 24	23 Jan 24
294	14	12	9	00	7	9	9	10	9
6468000	308000	264000	198000	176000	154000	198000	198000	220000	198000
173	8	12	10	12	12	12	14	12	6
2076000	96000	144000	120000	144000	144000	144000	168000	144000	72000
286	16	20	16	14	18	15	17	23	29
1716000	96000	120000	96000	84000	108000	90000	102000	138000	174000
10260000	500000	528000	414000	404000	406000	432000	468000	502000	444000
10260	500	528	414	404	406	432	468	502	444

مراث			Mine Wate	er Consump	tion (Dewate	Mine Water Consumption (Dewatering)_CBCMP NTPC Ltd	P NTPC Ltd		
ka					Feb'24				
mg)	Date	Tanker_22 KL (trip/day)	Water Consumption (in Ltr/day)	Tanker_12 KL (trip/day)	Water Consumption (in Ltr/day)	Fire Tender_6 KL (trip/day)	Water Consumption (in Ltr/day)	Total Water Consumption (in Ltr/day)	Total Water Consumption (in m3/day)
	1 Feb 24	18	396000	4	48000	26	156000	000009	009
2	2 Feb 24	16	352000	7	84000	30	180000	616000	616
6	3 Feb 24	16	352000	12	144000	16	00096	592000	592
4	4 Feb 24	10	220000	14	168000	16	00096	484000	484
5	5 Feb 24	9	132000	5	00009	80	48000	240000	240
9	6 Feb 24	12	264000	9	72000	14	84000	420000	420
	7 Feb 24	11	242000	12	144000	14	84000	470000	470
-	8 Feb 24	6	198000	10	120000	4	24000	342000	342
6	9 Feb 24	80	176000	œ	00096	4	24000	296000	296
10	10 Feb 24	12	264000	10	120000	2	12000	396000	396
11	11 Feb 24	12	264000	00	00096	60	48000	408000	408
12	12 Feb 24	13	286000	×	00096	60	48000	430000	430
13	13 Feb 24	0	0	0	0	0	0	0	0
14	14 Feb 24	2	44000	0	0	4	24000	00089	89
15	15 Feb 24	0	0	0	0	0	0	0	0
16	16 Feb 24	3	00099	2	24000	4	24000	114000	114
17	17 Feb 24	2	44000	0	0	0	0	44000	44
18	18 Feb 24	7	154000	8	00096	0	0	250000	250
19	19 Feb 24	10	220000	6	108000	0	0	328000	328
20	20 Feb 24	10	220000	5	00009	80	48000	328000	328
21	21 Feb 24	12	264000	12	144000	ĸ	18000	426000	426
22	22 Feb 24	15	330000	10	120000	0	0	450000	450

दराबाबू पी. / VARABABU P. प्रत्य प्राप्तकार (थी. एवड एस.)। DOM(PAS) हन्द्रीपीट्सी शिमिटेड/ NTPC Limited पड़ी संरेपायु कोवला खनन परिधोजना। CBCMP हजारीयान । Hazaribag

वराबाबू पी. / VARABABU P.
ज्य प्रशासका (थी. एवड एस.) / DOMPAS)
इन्होंपीरी क्षिमिटेड / NTPC Limited
वही वरिवातु कोवता जनन परिकंजना / CBCMP
हजारीवान । Hazaribag

	29	28	27	26	25	24	23
	29 Feb 24	28 Feb 24	27 Feb 24	26 Feb 24	25 Feb 24	24 Feb 24	23 Feb 24
275	12	o	14	10	w	12	14
6050000	264000	132000	308000	220000	66000	264000	308000
207	8	5	10	8	7	10	9
2484000	96000	60000	120000	96000	84000	120000	108000
171	0	0	0	0	0	0	2
1026000	0	0	0	0	0	0	12000
9560000	360000	192000	428000	316000	150000	384000	428000
9560	360	192	428	316	150	384	428

lains)									
mg)					March'24				
	Date	Tanker_22 KL (trip/day)	Water Consumption (in Ltr/day)	Tanker_12 KL (trip/day)	Water Consumption (in Ltr/day)	Fire Tender_6 KL (trip/day)	Water Consumption (in Ltr/day)	Total Water Consumption (in Ltr/day)	Total Water Consumption (in m3/day)
	1 Mar 24	6	198000	4	48000	0	0	246000	246
2	2 Mar 24	10	220000	3	36000	0	0	256000	256
3	3 Mar 24	14	308000	9	72000	0	0	380000	380
4	4 Mar 24	13	286000	9	72000	0	0	358000	358
2	5 Mar 24	18	396000	9	72000	0	0	468000	468
9	6 Mar 24	4	88000	2	24000	0	0	112000	112
7	7 Mar 24	11	242000	2	24000	0	0	266000	266
00	8 Mar 24	15	330000	œ	00096	0	0	426000	426
6	9 Mar 24	16	352000	7	84000	0	0	436000	436
10	10 Mar 24	14	308000	9	72000	0	0	380000	380
11 1	11 Mar 24	18	396000	2	00009	1	0009	462000	462
12 1	12 Mar 24	20	440000	4	48000	0	0	488000	488
13 1	13 Mar 24	10	220000	2	24000	0	0	244000	244
14	14 Mar 24	12	264000	4	48000	3	18000	330000	330
15 1	15 Mar 24	14	308000	5	00009	Н	0009	374000	374
16	16 Mar 24	16	352000	9	72000	0	0	424000	424
17	17 Mar 24	15	330000	2	24000	0	0	354000	354
18	18 Mar 24	18	396000	00	00096	0	0	492000	492
19	19 Mar 24	19	418000	4	48000	0	0	466000	466
20	20 Mar 24	1 20	440000	10	120000	0	0	260000	999
21	21 Mar 24	11 11	242000	4	48000	0	0	290000	290
22	22 Mar 24	10 10	220000	2	24000	0	0	244000	244

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प्रा प्रसारकाश (थी. एवड एस.) (DOM(Pas)
हन्दीपीली जिलिहेड/ NTPC Limited
यही वरियानु कोयला जनन परियोजना CBCMP
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	31	30 3				26 2		24 2	23 2
	31 Mar 24	30 Mar 24	29 Mar 24	28 Mar 24	27 Mar 24	26 Mar 24	25 Mar 24	24 Mar 24	23 Mar 24
446	12	18	20	22	20	0	15	18	14
9812000	264000	396000	440000	484000	440000	0	330000	396000	308000
152	4	თ	თ	5	7	0	5	6	6
1824000	48000	72000	72000	72000	84000	0	60000	72000	72000
15	w	0	w	1	1	0	2	0	0
90000	18000	0	18000	6000	6000	0	12000	0	0
11726000	330000	468000	530000	562000	530000	0	402000	468000	380000
11726	330	468	530	562	530	0	402	468	380







Registered Office:

Plot No. 37 & 39, Navodaya Colony, Road No. 2, Banjara Hills, Hyderabad - 500 034. (T.S.) India. Phone : +91 - 40 - 4911 33 33/34 E-mail: rplhyd@rithwikprojects.com Website: www.rithwikprojects.com CIN: U45200TG1999PTC031431

	PURCHASE	ORDER				
_		ENQ NO:		BY MAIL		
To	M/s . KATOCH ENVIROTECH	Purchase C	Order No:	RPPL/PO/CBCMF	L/23-24/0129	
10		Purchase C	Order Date:	21.03.2024		
	Sihol, Boda, Palampur, Kangra, Himachal Pradesh,	Site:		CHATTI BARIATU	COAL MINING SITE	
	176083	Indent No:				
	Contact person: - Mr. Lovely Katoch -9857174476	Indent Dat	e:			
	mail id: katochenvirotech55@gmail.com, vishalrana.ud@gmail.com	Quote No:		Quote on 20.03.2	2024	
	GST NO: 02HJOP55863M1ZB	QUOT DT:	THE RESERVE AND ADDRESS OF THE PARTY OF THE			
	With reference to the above and further to our discussions, We are TREATMENT SYSTEM ETP of Capacity 50 m³ per day based on MBB	e pleased to R Technology	place our Ord subject to fo	der for Supply of EF ollowing terms & co	onditions:	
S.No	ITEM DESCRIPTION	UOM	QTY	RATE (Rs)	AMOUNT (Rs)	
1	Supply and installation of EFFLUENT WATER TREATMENT SYSTEM ETP(50 KLD ETP) of Capacity 50 m ³ per day based on MBBR Technology, Technical specifications as per Annexures.	Set	1	5,70,000	5,70,000	
	Tota	1			5,70,000.00	
_	Add: GST @ 189				1,02,600.00	
_	Sub Tota	-			6,72,600.00	
_			GRAND	TOTAL (R/O)	6,72,600	
	But and the second seco	nees Six Lakh		Thousand Six Hun		
-	Particoliti in transcription	Works				
2	TAXES GS	T @ 18% as	shown abov	e		
3	TONE OF THE PERSON OF THE PERS	ra to M/s. R				
4	Sur	Supply will be within 2-3 weeks from the receipt of PO, with Adva and 2 weeks for installation.				
5	PAYMENT TERMS: GST	50% Advance on basic value along with purchase order, 25% wit GST against delivery of materials at our site, balance 25% after installation and commissioning.				
6	Contact person: 630	Mr. Bhaskar-9704902815/Mr.Shyam -9939660507/Mr. Siva Kumar- 63000158360				
7	FOC	emicals will be	e supplied by	you for 12 Months	on free of cost.	
8		Varranty terms as per Annexure				
	RIT	HWIK PROJEC	TS PVT.LTD.,			
9	BILLING ADDRESS: Cer	netery Road rkhand - 825.	Ranchi-pat 301, GST : 20	AABCR5748L1ZA	aribag, Hazaribagh,	
10	MATERIAL REJECTION/ REPLACEMENT: SPE	RAMETER/SPI	SAME WILL B	ONSIBLE FOR MATE 5. IF MATERIAL IS 6E REJECTED AND T 1R OWN COST.	RIAL NOT AS PER HE ENTIRE MATERIAL	

The duplicate copy of this Purchase order should be signed by you with seal in token of your acceptance. Mere acknowledgement of goods received shall not be construed as accepted. The same is subject to inspection and approval by us, any rejection due to not meeting of the requisite quality, shortage in quantity, damage etc., should be replaced by you at your cost.

Prepared by: Sai Kumar Gotivada

Date: 21.03.2024

we do hereby agree to the terms and condition on this Purchase Order

Copy to: Site Accounts/HO

Yours faithfully, For RITHWIK PROJECTS PVT. LTD.

Authorized Signator

Accepted By M/s . KATOCH ENVIROTECH

वराबाबू पी. / VARABABU P.
ज्ञ प्राप्तकाम (पी. एवड एस.) / DOM(Pa.8)
इन्होपीली क्रिकेट / NTPC Limited
वर्ष्ट्री वरिवानु कोवला जनन परियोजना / CBCMP
क्रमारिकान् । Hazaribag

	ANNEXURE - I
	RPPL/PO/23-24/0129, Dtd: 21.03.2024
	TERMS & CONDITIONS:
1	Respective types of taxes i.e., CGST & SGST / IGST shall be mentioned in your invoice.
2	You should not charge compostion rate of GST. In case of such issue, you should inform us before accepting this PO.
3	You are cautioned to charge correct tax depends upon the place of supply. We should not be held responsible for any such wrong charging of tax and in turn our availment of ITC, if affected, you shall be held responsible to make good loss to us in all aspects.
4	Any discounts offerred by you should be mentioned in your invoice and GST shall be charged on the net value.
5	In case if we or the Standing Committee suto moto found later that input tax credit benefit has not been passed to us by way of reduction in price, we reserve every right to approach the Standing Committee as an interested party under rule 128 of CGST Rules, 2017 as per the provisions applicable to Anti-profiteering.
6	If any advance amounts are paid against the PO, same shall be shown in your invoice by duly deducting from the total bill amount.
7	Credit to the Government as per statutory time is mandatory. If there is any delay in credit to the department and disallowance of input credit due to delay, the relevant cost by way interest and penalty to your account.

वराबाबू पी. / VARABABU P. पर महास्थान (थे. एवड एस.) (DOM(PAS) इन्टोपीली जिलिटेड/ NTPC Limited वही वरिवादु कोवला खनन परिशेजना (CBCMP इजारिवाद । Hazaribag

ANNEXURE -II

DESIGN BASIS:

Technology Applied: MBBR

Designed Flow Rate: 50 m3/day

Operation hours: 24 hr./d

Average Flow rate: 2.083 KL PER HOUR

The system will be based on ETP water characteristics as under:

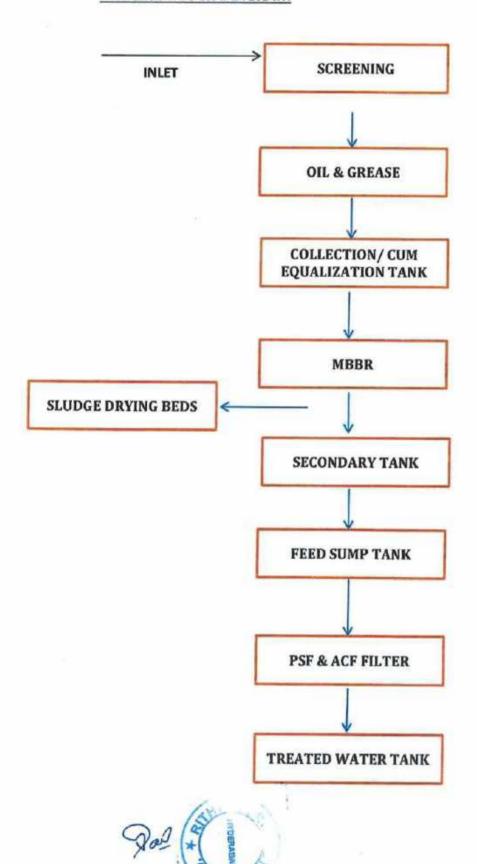
Parameters	Inlet	Outlet After ACF
Flow Rate	50 KLD	*
рН	6.5-8.5	6.5 - 8.0
BOD	350 - 400 ppm	< 20 ppm
COD	600 - 700 ppm	< 50 ppm
Suspended solids	250 ppm	< 50 ppm
Oil & grease	50 ppm	Nil

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PROCESS BLOCK DIAGRAM



Calsin

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OPERATION PRINCIPLE:

Primary screening:

The plant is designed for receiving raw sewage and settling / screening of the heavy floating particles. There will be a primary bar screen chamber to screen the foreign particles followed by oil trap to trap the oil contents therein.

Treatment

Collection & Transfer:

Primarily sewage will be collected in a collection tank which will be equalized. Our scope starts with transfer of sewage mbbr unit. Equalization tank will be fitted with aeration grid to homogenizing the sewage and also to keep it equalized during storage. This sewage is then transferred to the MBBR tank by sewage transfer pump. The sewage transfer pump will be mud type with suitable particle handling capacity.

MBBR REACTORS: The sewage from sump will then constantly pumped into ETP by an employing lift pumps at a constant _low rate. STP is of modular construction

Comprises of bar screen, collection tank, Primary Tube Settler, Aeration section, Sedimentation Section (Tube Settler), Treated Effluent Holding/Transfer Chamber and Chlorination. The treatment occurs in various aerobic chambers provided in the system. The system will have the flexibility of varying the sequence of aerobic chambers depending upon flow rates. In aerobic chambers, thousands of MBBR media is fed, upon which the bio mass grow. The attached growth ensures that water is treated to the highest possible biological standards that are generally not possible with alternative systems.

SETTLING SECTION: The sedimentation tank/tube settler, which is designed on low over flow rate is provided after the aeration tank to enable separation of solids. A steep slope is provided in the settling tank to eliminate the need of scrapper mechanism. The settled sludge being collected in the bottom of tube setter is partially re-circulated backto Aeration Tank to give a constant feed to the bacteria & balance is taken to the sludge drying beds to dry & disposed of.

Sodium Hypochlorite Dosing System model CDS 1:

Dosing of Sodium hypochlorite helps in disinfecting the water and making it suitable and safe for gardeni. The chemical is dosed by means of an electronic dosing pump wherein a facility is available for manual cont stroke length and stroke frequency.

Pressure Sand Filter (PSF):

The clarified water will then be pumped from surge tank to Pressure _liter to reduce suspended load and turbidity.

200

A CHAIR MADE WARE CO.

वराबाबू पी. / VARABABU P. ज्य पहार्थका (थे. एवड एस.)। bom(P&S) इन्होपीसी किमिटेड/ NTPC Limited बडी वरिवाद कोवता खनन परियोजना / CBCMP

हवादियाग । Hazaribag

Activated Carbon Filter (ACF):

The pre filtered water is then passed through activated carbon column of specific grade to reduce BOD, colours, odour and fine particles. It finally polishes the treated water and also reduces the residual chlorine. The wastewater so treated can be utilized for gardening or for flushing and recycling. The backwash from the PSF and ACF units will be fed back into the collection tank.

Electrical:

The system will have an automated PLC and reliable control of various stages of the process. It is the programmable logic controller (PLC) technology, connected with MCC/ Electrical panel installed in for central control of all electrical rotary. All the cabling will be complete with cable tray. The MCC will have Auto manual option for easy operation. It contains all the electrical controls and is to IP 55 standards.

EQUIPMENT DETAILS-EWALT SCOPE:

Raw effluent lifting pump

Pump Type

: Raw Lifting pump

Make

: Lubi/Kirlosker/Equiv.

Drive

: 1 HP

No. of Feed Pump

: 2 No

Bar Screen for Effluent Line

Type

: Bar Screen-Manual

Make

: Katoch Envirotech

Size

: As per drawing

MOC

: MSEP

Quantity

:1(W)

Air Blower

Blower Make

: Shanti/Akash/Yash

Gear Oil & Grease

: Pre Filled

Motor HP

:2

MOC

: CI

Accessories

: Complete with standard accessories

Quantity

: 2 No's (1W+1S)

Sludge Transfer Pump

Make

: Lubi/Kirlosker /Equiv.

Drive

: 1 HP

MOC

: CI

No. of Feed Pump

: 1 Nos

DOD STHWIK AROLE CO.

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gedinexell । Pipting

Air Diffusers Purging Grid

Type : Fine Bubble Make : Prince/Astra. MOC : Tube Type UPVC

Quantity : 1 Lot

Chemical Dozer for Disinfection

Dosing Rate : Varied
Dosing pump Capacity : 6-10 lph
Make : E-Dose/Equiv.

No. of D. Pump :3 No

Filter Feed Pump

Type : Centrifugal, monoblock Pump

Make : Lubi/ Kirlosker /Equiv.

Drive : 2 HP MOC : CI

No. of Feed Pump : 2 Nos (1W+1S)

Pressure Sand Filter (PSF)

Type : Vertical pressurized vessel

Size : 18X72 Filter Vessel MOC : FRP Multiport valve : Inbuilt

Make : Pentair/Equiv.

Filter Media : Fine Sand, pebbles and gravels

Quantity : 1 Nos.

Activated Carbon Filter (ACF)

Type : Vertical pressurized vessel

Size : 18X72
Filter Vessel MOC : FRP
Multiport valve : Inbuilt

Make : Pentair/Equiv.

Filter Media : Pebbles, Gravels & Carbon

Quantity : 1 Nos.

Internal Piping & valves for ETP unit

MOC : Jindal class B
Make : Jindal

Fitting : Ball valve, Tees, Unions, MTA, FTA, etc.

Fitting MOC : MS Standard
Quantity : Complete Job

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कः पहासंध्यः (पी. एवड एस.)) DGM(PAS) इन्द्रिपीती क्रिक्टिंड/ NTPC Limited वड्डी वरिवादु कोवला जनन परियोजना / CBCMP इजारियान् । Hazaribag

Electrical Control Panel with PLC

Type

: IP-55

Panel Make

: Katoch Envirotech

MCB/Relay/connectors

: Eton/Schneider/Equiv

Quantity of panel

: 1 No

Mode

: Manual

Electrical Cabling

Type

: Flexible, copper

Size

: Suitable

Make

: Havells /Finolex/Polycab /Equiv

Limit

: Panel to drive within battery limit

Quantity

: 1 Lot Complete

Water Flow Meter

Type

: Direct Dial analog

Class

:В

Make

: Kranti/prince/Equiv.

Quantity

: 1 No.

The Fresh water line is required for backwash of filtration unit to be provided by RPPL in ETP area.

Details of Civil Work - RPPL Scope:

Sr. No.	Name of the Unit	Quantity	Material of Construction	Size M x M x M (LWD) Effective
1.	Collection Tank	1 no.	RCC	As per Drawing
2.	Screen / O>Chamber	1no.	RCC	As per drawing
3.	Treated Water Tank	1 No.	RCC	As per drawing
4.	Foundation for plant	Various	RCC	As per drawing
5.	3 phase electricity line with neutral up to our control panel & earthing, earthing pits.	As per Requirement		

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6.	Fresh water Line connect to variouspoints of STP & FilterPump	As per Requirement		
7.	Overhead shed for STP unit or individual covering of all components and side covering.	If ETP is in open: Shed should be provided in the area, where the supplied unit has to be stored. This shed shall protect the unit against direct sunlight, harsh wind conditions and direct rainfall [which may damage the electrical / electronic subsoft the supplied unit]		
8.	Sludge Drying Bed & Media		Brick	As per drawing

Scope of Supplier (Kotach Envirotech)

- 1. Designing of Sewage treatment plant.
- 2. G.A, P & ID, plan and section drawings for construction purpose.
- Training of STP operator during installation & commissioning.
- 4. Operation manual for sewage Treatment Plant.
- 5. Installation & commissioning certificate.
- 6. Chemical MSDS (Material safety data sheet).
- 7. One Year free required chemicals will be provided.

RPPL SCOPE:

 Electric backup with DG for STP to ensure permanent electricity for trouble-free operation.

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पः प्राप्तकाम (पी. एवड एस.) I DOM(Pa.S)

इन्द्रीपीली क्रिक्टिंड / NTPC Limited

वड्डी वरिवातु कोवला जनन परियोजना / CBCMP

हजारीवान । Hazaribag

- 2. All kind of civil work, foundations, puddle flanges, man hole covers etc.
- 3. Transportation, unloading, lowering & placement of equipment in ETP area.
- 4. All kinds of chemicals, consumables after commissioning as required.
- 5. Water analysis from PCB authorized lab as required.
- 6. Provision for men power & material at site.
- 7. 2 no permanent ETP operator for un-interrupted operations.
- 8. Provision of sanitation facility for service engineers.
- 9. Provision of sludge yard and disposal of sludge.
- 10. Disposal of treated water.
- 11. Site Security, illumination/firefighting system if any.
- 12. Any plumbing is in our scope during dismantling or erection.

WARRANTY

Warrants its product to be free from defect in material and workmanship upon leaving its factory. The obligation shall be limited to repair or replacement and in no event shall the liability exceed said parts repair or replacement for the period here of:

Non-Consumable Parts:

For a period not to exceed 12 months from the date of dispatch of machine. The warranty does not cover the damage caused by:

- Improper Electrical supply.
- Non-qualified personnel loading or unloading, moving or installing the equipment.
- Fire, explosion food or similar perils.
- Unauthorized modifications or alterations of the equipment.
- Improper or inadequate maintenance.

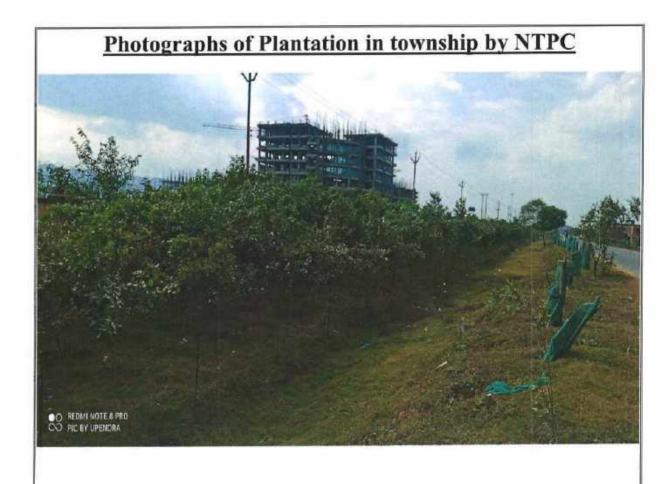
For RITHWIK PROJECTS PVT. LTD.

atory

वराबाबू पी. / VARABABU P.

का पहारक्षक (पी. एवड एस.)। DGM(PAS) इन्द्रीपीली क्रिक्टेड! NTPC Limited वही वरिवाद कोवला खनन परिवोधना। CBCMP

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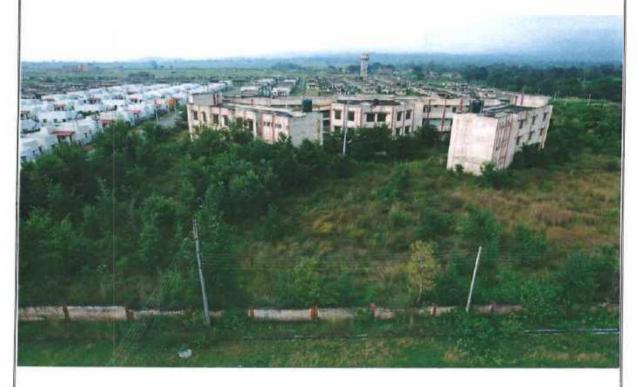


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दाराबाबू पी. / VARABABU P. पर महासंसम् (पी. एवड एस.) / DOM(Pa.S) रुग्टोपीली जिलिटेड/ NTPC Limited यही सरिवानु कोवला खनन परियोजना CBCMP हजारीबाग / Hazaribag

Photographs of Plantation in R&R colony by NTPC



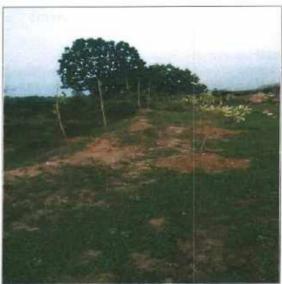


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यराबाबू पी. / VARABABU P. ज्ञ चलावंका (थी. एवड एस.) (DOM(PAS) इन्टोपीली जिलिटेड/ NTPC Limited वही वरिवादु कोवला खनन परिकेचना CBCMP इजारिवाद । Hazaribag

Photographs of Plantation in Safety Zone of CBCMP









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Annual Mine Closure Activity Report of Chatti Bariatu Coal Mining Project, NTPC Ltd. for FY 2022-23.

EMG_CBCMP <emg_cbcmp@ntpc.co.in>

Mon 8/28/2023 8:24 AM

To:coalcont-wb@nic.in <coalcont-wb@nic.in>
Cc:ccoranchi@gmail.com <ccoranchi@gmail.com>;ANIMESH JAIN <AJAIN@NTPC.CO.IN>;Pavan Vasantrao
<PAVANKHANDWE@NTPC.CO.IN>;Birendra Kumar <BIRENDRAKUMAR01@NTPC.CO.IN>;AK SONI <AKSONI01@NTPC.CO.IN>;
Ravi Kumar <RKUMAR10@NTPC.CO.IN>

1 attachments (5 MB)

D. No. 384 Dated 28.08.2023 (ANNUAL MINE CLOSURE ACTIVITY REPORT).PDF;

Dear Sir,

Please find herewith the attachment of Annual Mine Closure Activity Report of Chatti Bariatu Coal Mining Project, NTPC Ltd. for FY 2022-23.

This is for kind information please. Thanking you

With regard Pavan V. Khandwe AGM/Mine Agent CBCMP, NTPC Ltd. Mob: 9650991918

Sent from Outlook for Android

वराबाबू पी. / VARABABU P. एव पहार्थका (शे. एवड एस.) / DOM(PAS)

प्या पहार्थका (पी. एवड एस.) Dominos इन्होंगोली जिनिकेड / NTPC Limited यही वरिवाद कोवला खनन परिधोजना / CBCMP इजावियान / Hazaribag



Office of the Principal Chief Conservator of Forests, Wildlife & Chief Wildlife Warden, Jharkhand. Van Bhawan, Doranda, Ranchi-834002 Email: pccf-wildlife@gov.in.Phone No. 0651-2481744



Office Order No. 34

Date.3.18.2023

Sanction Order of the Site-Specific Wildlife Management Plan with reference to diversion of 128.92 ha of forest land Chattibariatu Coal Mining Project in favour of M/s. NTPC Ltd U. Jin Hazaribagh district of Jharkhand.

The instant Site-Specific Wildlife Management Plan (referred to as "the Plan" here in after) has been prepared by Ecos Offset Private Ltd on behalf of M/s. NTPC Ltd in Hazaribagh. (referred to as "the User Agency or M/s NTPC Ltd") in pursuance of the following conditions/ Terms of Reference laid by MoEF&CC under item no 13 of Stage-II vide latter no F.No. 8-42/2010-FC dated 25.11.2011 for diversion of 128.92 Ha of forest land under Chattibariaru Coal Mining Project in Hazaribag district of Jharkhand;

95/2

The aforesaid Term of Reference laid by the Central Government reads as follows:

Condition no 13- "The User Agency will assist the State Government in conservation and preservation of flora and fauna of the area in accordance with the plan prepared by the Chief Wildlife Warden of the State."

The SSWMP is prepared in line with IWMP, NKCB at present rate according to the item no 8, the stern no 8-56/2009-FC (Vol.) dated 26.05.2023 of MoEF&CC, Gov of India, New Delhi.

Condition no 8-"The cost estimate of Integrated Wildlife Management Plan (IWMP) submitted is based on the rate of 2010; while approval is being considered in 2023, hence rate revision has to be done based on the present rate."

In the above stated background, the Regional Chief Conservator of Forests, Hazaribag CCF, Hazaribag) vide his letter no. 1742 dated 14.07.2023 has submitted the Plan to the office of the undersigned for its due sanction.

In order to examine the plan prescriptions a communication was issued to the Regional Chief Conservator of Forests, Hazaribag, vide this office letter no. 903 dated 21.07.2023, to arrange a Power-Point Presentation on 25-07-2023 in the Office chamber of the undersigned. The presentation was made by the PP in the presence of RCCF, Hazaribag, DFO, Hazaribag West, Sri H.S Gupta (Ex PCCF, Wildlife, Jharkhand), Sri Pavan Khandwe, AGM (Mining), Chatti Bariyatu Coal Mining Project, NTPC Ltd and Sri Kislay Kumar (Consultant) Ecos Offset Private Ltd.

The cost of the Plan with respect to the activities to be carried out by DFO, Hazaribag West has been estimated to be Rs. 4625.21 lakh. The summary of the proposed interventions (component wise) under the Plan with the objective of conservation of forest and wildlife resources as also to mitigate the impacts of mining on forests and wildlife is as follows:

O lear to Actording system Cost Mining MIPC

Page 1 of 4

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प्राचनका (थे. एवड एस.) / DOM(P&S)

प्राचीती जिलिटेड / NTPC Limited

वर्ष्ट्री वरिवादु कोवला खनन परियोजना / CBCMP

हजारीका / Hazaribag

S.N.	Work Component	Cost estimates (Rs. In Lakh) To be implemented by the DFO Hazaribag West
1	Biodiversity Enhancement .	2069.74
2	Measures for forest protection, anti-depredation and wildlife	256.46
3	Capacity building and procurement of anti-depredation items	98.45
4	Fire prevention and protection of habitat	284.21
5	Livelihood improvement and canacity building to local people	301.00
6	Capacity building of forest department for implementing, monitoring and supervision of plan	373.37
-	GIS and remote sensing for implementation and monitoring	139.00
8	Awareness promotion about Medecinal Plants and protection of	262.11
-	endangered species.	10.00
9	Corpus Fund	60.00
10	Contingency amount Total:-	3854.34
		770.87
-	Cost Escalation @20% Grand Total:-	4625,21

The Plan with a total financial outlay of Rs. 4625,21 Lakh extends over a period of 10 years (Year 2023-24 to 2032-33; tentatively) shall be utilized by the Forest Department through the DFO, Hazaribag West in accordance with the Plan prescriptions. Amount Rs 2446.62678 Lakhs of SSWMP has been submitted in CAMPA Account vide ref no. NC03R/2020247588/23.03.2021 dated 24.03.2021. Remaining amount Rs 2178.58322 shall be deposited by the User Agency.

Considering the proposals under the plan, sanction is hereby accorded to the instant Plan

subject to the following conditions:

That the User Agency shall ensure that its officials/contractors and the work force engaged into mining and allied operations under the Project shall not commit or abet any forest/wildlife offence in their area of operation. They will also promptly report any forest/wildlife offence in the area to the nearest forest office/official. Further, they will extend their full cooperation to the forest officials in control/mitigation of any incident, natural or man -made, detrimental to forest and wildlife in their area of operation.

(ii) That the total amount of Rs. 4625.21 lakh shall be deposited by the User Agency into CAMPA account under the relevant head/sub-head and shall be utilized by the State Forest Department through the DFO, Hazaribag West, as delineated under the Plan, strictly in accordance with the prevailing norms under the Jharkhand Forest Department.

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Page 2 of 4

वराबाबू पी. / VARABABU P. पर पहालंबन (थी. एवड एस.)/ DOM(PAS) इन्होपीली क्रिकेट / NTPC Limited

ही बरियानु कोयला सनन परियोजना। CBCI

That the User Agency shall implement the activities mentioned under Chapter 4 (iii) of the Plan. The implementation shall be under the direction and strict

supervision of DFO, Hazaribag West Divition.

That as regards the funds earmarked against activities to be undertaken by the (iv) State Forest Department, DFO, Hazaribag West Division shall prepare a detailed Annual Plan of Operations (APO) in the beginning of every financial year in respect of the instant Plan following all the rules, regulations, Schedule of Rates etc. issued from time to time by the State Government/ Forest Department. Regional Chief Conservator of Forests, Hazaribag shall accord sanction to the said APO following due process and he/she will closely monitor the progress of the activities undertaken by Divisional Forest Officer, Hazaribag West.

- That the Conservator of Forests, Hazaribag shall supervise all the activities as per (v) directions issued by the Forest Department from time to time.
- That the DFO, Hazaribag West shall carry out the activities under the Plan strictly (vi) as per the duly sanctioned APO.
- That the DFO, Hazaribag West shall ensure that no violation of duly sanctioned (vii) Working Plan of Hazaribag West Forest Division takes place during implementation of any of the activities involved in this plan over notified and demarcated forest land.
- That at least one year before the expiry of the instant Plan the User Agency shall (vili) formulate and submit to the Forest Department another plan in continuation of the instant plan for next 10 years. The impact of implementation of this Plan shall be evaluated by the competent authority.
- That the instant Plan is dynamic and may be revisited after every 2 years and a (ix) revised plan may be formulated as per need of the project impacted area and convenience of the implementing agencies. The revised plan, if any, shall be put up before the Principal Chief Conservator of Forests, Wildlife & Chief Wildlife Warden, Jharkhand for its due approval.
- That though adequate provisions have been made towards cost escalation in the (x) plan viz. increase in wage rate/ material cost etc., yet the User Agency shall submit an undertaking to the Divisional Forest Officer, Hazaribag West to the effect that they will deposit extra cost of the plan beyond the cost escalation provision owing to increase in wage rate etc. in due course of time as well as consequent upon revision in the plan, if any, as and when given effect to by the competent authority.

Principal Chief Conservator of Forests Wildlife and Chief Wildlife Warden, Jharkhand

वराबाबू पी. / VARABABU P. प्रम महास्थाक (थी. एवड एस.)। DOM(PAS) एउटोपीसी सिर्वादेश NTPC Limited वरियातु कोयला खनन परियोजना। CBCMP

देवाग । Hazaribag

O Apand syyChattibarryatu Coal Mining http:

Page 3 of 4

Memo No.

Dated:

Copy forwarded to Deputy Director General of Forests (Central), Ministry of Environment, Forests and Climate Change, Integrated Regional Office, Harmu Housing Colony, Ranchi [E-mail: ro,ranchi-mef@gov.in] for information and necessary action.

Principal Chief Conservator of Forests Wildlife and Chief Wildlife Warden, Jharkhand

Memo No.

Dated:

Copy forwarded to Additional Chief Secretary, Department of Forests, Environment and Climate Change, Govt. of Jharkhand Ranchi/ Principal Chief Conservator of Forests, Jharkhand, Ranchi/ Principal Chief Conservator of Forests-cum-Executive Director, Wasteland Development Board, Jharkhand, Ranchi for Information.

Principal Chief Conservator of Forests Wildlife and Chief Wildlife Warden, Jharkhand

Memo No.

Copy forwarded to Additional Principal Chief Conservator of Forests, CAMPA, Jharkhand, Ranchi with a copy of plan for Information and necessary action.

Principal Chief Conservator of Forests Wildlife and Chief Wildlife Warden, Jharkhand

Memo No. 1007

Dated: 3 08 2023

Copy forwarded to Regional Chief Conservator of Forests, Hazaribag/Conservator of Forests, Hazaribag/ Divisional Forest Officer, Hazaribag West Forest Division for information and necessary action.

> Principal Chief Conservator of Forests Wildlife and Chief Wildlife Warden, Jharkhand

कार्यालय , वन प्रमंडल पदाधिकारी, हजारीकार

जापांक:

दिनांक:

प्रतिलिपि General Manager (Mining), Chattibariatu Coal Mining Project, NTPC Limited, Sikri Site Office, Barkagaon, Hazaribag को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित

वन प्रमुद्धल पदाधिकारी:

हजारीबाग पश्चिमी प्रमंडल

दिनांक लेखा अशाला 10/8/23

प्रतिलिपि वन क्षेत्र पदाधिकारी, बड़कागांव प्रक्षेत्र/को सूचनार्थ एवं आवश्यक कारेवाई

प्रेषित।

वन प्रमडल

हजारीबाग पश्चिमी प्रमंडल

(4), YUS VH.) | DOM(PAS)

लटोपीसी सिर्फिटेड/ NTPC Limited

oll



Name of the Company NTPC Limited

Registered Office

NTPC Ohavren, BCOPE Complex, 7, Institutional Are

Led Raws, New Date: 119003. L40101DL1975GOI007966

Date / दिलाक: 24.03.2021

CIN

AAACN0255D

FAT NO

- 144

nellar neven ritpa:

NTPC Limited

Chatti-Bariatu Coal Mining Project Sikri Site Office, P.O. Barkagaon Hazaribag - JHARKHAND 825311

Ref No. / सन्दर्भ संख्या: NC03R/2020247588/23.03.2021

To / Bat 1,
Ad-hoc CAMPA Account No CA 1587
CORPORATION BANK
DG FOREST & SPECIAL SECRETARY,
GOI, MOEF, PARYAVARAN BHAVAN
CGO COMPLEX LODHI ROAD
NEW DELHI 110003
Email:

Dear Sir / Madam, बादरशीय महोदय/महोदया,

We are pleased to Inform you that the company has arranged to remit the amount as per the following details, directly to your bank CORPORATION BANK, LODHI COMPLEX BRANCH account number 150725890400696 with Payment Ref No : CMS1871699464.

हुमें अप्रको यह सूचित करने में इसलता हो रही है कि कंपनी ने निस्तिबित विवरण के अनुसार राशि को सीधे आपके येंक CORPORATION BANK, LODHI COMPLEX BRANCH पाता संख्या 150725890400696 परवेशित करने की व्यवस्था की है।

S.N.	PO Ref. No.	Bill Ref. No.	Details	Amount (Rs.)
1	8200317480	5890400696	Invoiced Value	244,662,578.00
				7/
			Total Amount Paid	244,662,678.00

Amount (in words) / crist :

Rupees Twenty-Four Crore Forty-Six Lakh Sixty-Two Thousand

The amount has been credited to your bank account as indicated above though Electronic Clearing Service (ECS) and therefore, no service charge is deductible by your bank.

उपरोक्त वर्णित राशि हतेषद्रिनिया विनायरिंग सेवा (ईसीएस) के माध्यम से आपके वैंक खाने में जमा की गई है और इसलिए, आपके वैंक द्वारा इसके लिए कोई सेवा शुरूक नहीं लगाया जा सकता है

If the amount is not received in your account kindly contact the EIC (Engineer in Charge) / Store Department, giving the above reference number

यदि राशि आपके खातें में प्राप्त नहीं होती है तो कृषया ईआईसी (इंजीनियर प्रभारी) / स्टोर विभाग से उपरोक्त संदर्भ संख्या के साथ संपर्क करें

This is a computer generated communication and does not require any signature

वराबाबू पी. / VARABABU P.

प्रत पहालबंधक (थी. एवड एस.)। DOM(PAS) इन्होंगोरी क्रिक्टेड NTPC Limited यही वरियातु कोयला खनन परियोजना CBCMP इजारीबान I Hazaribag



NTPC Limited

Chatti-Bariatu Coal Mining Project

Sikri Site Office, P.O. Barkagaon Hazaribag - JHARKHAND 825311

Name of the Company NTPC Limited

Registered Office

NTPC Bhawan, SCOPE Complex, 7, Institutional Area

Loci Road, New Delhi - 110003

CIN

L40101DL1975GOI007966

Date / दिनाक: 25.11.2023

AAACN0255D

PAN Telephone No.

e-Mail

Website

www.ninc.co.ip

Ref No. / सन्दर्भ संख्या: IN37R/2023263752/23.11.2023

To / सेवा में ,

Ad-hoc CAMPA Account No CA 1587 CORPORATION BANK DG FOREST & SPECIAL SECRETARY, GOI, MOEF, PARYAVARAN BHAVAN CGO COMPLEX LODHI ROAD NEW DELHI 110003 Email:

Dear Sir / Madam, बादरणीय महोदय/महोदया,

We are pleased to inform you that the company has arranged to remit the amount as per the following details, directly to your bank Union Bank of India, FCS Centre, Bangalore account number 150725890400524 with Payment Ref No: SBINR12023112485846978.

हमें आपको यह सूचित करने में प्रसन्नता हो रही है कि कंपनी ने निम्नलिखित विवरण के अनुसार राशि को सीधे आपके बैंक Union Bank of India, FCS Centre,Bangalore खाता संख्या 150725890400524 पर प्रेषित करने की व्यवस्था की है।

S.N.	PO Ref. No.	Bill Ref. No.	Details	Amount (Rs.)
1.	8200394424	DFO LETTER 4700	Invoiced Value	217,858,322.00
	Walley I Even		Total Amount Paid	217,858,322.00

Amount (in words) / राशि :

Rupees Twenty-One Crore Seventy-Eight Lakh Fifty-Eight

The amount has been credited to your bank account as indicated above though Electronic Clearing Service (ECS) and therefore, no service charge is deductible by your bank.

उपरोक्त वर्णित राशि इलेक्ट्रॉनिक क्लियरिंग सेवा (ईसीएस) के माझ्यम से आपके बैंक खाते में जमा की गई है और इसलिए, आपके बैंक द्वारा इसके लिए कोई सेवा शुल्क नहीं लगाया जा सकता है

If the amount is not received in your account kindly contact the EIC (Engineer In Charge) / Store Department, giving the above reference number.

यदि राशि आपके खाते में प्राप्त नहीं होती है तो कृपया ईआईसी (इंजीनियर प्रभारी) / स्टोर विभाग से उपरोक्त संदर्भ संख्या के साथ संपर्क करें

This is a computer generated communication and does not require any signature.

दराबाबू पी. / VARABABU P.
प्राच मामकाम (पी. एवड एम.) I DOM(PAS)
व्यव्यापी जिलिटेड / NTPC Limited
वर्षी भरिवादु कोवला चलन परियोजना / CBCMP
हजारीबान / Hazaribag

यह संचार कंप्यूटर द्वारा निष्पादित है ,तथा इसमें किसी भी हस्ताक्षर की आवश्यकता नहीं है

दराबाबू पी. / VARABABU P.
प्रा प्रसारक्षक (पी. एवड एस.) (DOM(PAS)
हन्दीपीली जिलेन्द्रेश NTPC Limited
यही वरियानु कोयता सनन परिशेषना। CBCMP
हजारीबाग । Hazaribag

Date	Oct_2023	Nov_2023	Dec_2023	Jan_2024	Feb_2024	March_2024
1	17.65	19.55	21.63			24.71
2	17.37	19.62	21.74	1		24.57
3	17.30	19.73	21.77	1		24.18
4	17.66	19.90	21.81	1		24.73
5	17.19	20.16	21.85	1		24.49
6	16.75	20.22	21.43	1		23.5
7	16.36	20.32	20.95			23.64
8	16.12	20.30	20.66			23.29
9	16.51	20.44	20.68			22.94
10	16.83	20.29	20.7			22.59
11	17.14	20.15	20.67			22.39
12	17.37	20.48	20.33			22.19
13	17.54	20.50	20.31			22.09
14	17.78	20.53	20.29		DWLR under	22.01
15	17.74	20.44	20.45		servicing	21.92
16	17.68	20.69	20.49	DWLR under servicing		21.93
17	17.97	20.81	20.51	servicing		21.9
18	17.75	20.86	20.73		l l	21.84
19	18.07	20.88	20.91			21.8
20	18.28	20.79				21.73
21	18.79	20.95			1	21.73
22	18.53	20.92				21.79
23	18.28	21.02	Network Issue		1	21.76
24	17.96	20.93)		21.8
25	18.01				24.79	21.79
26	18.43	Network Issue				21.71
27	18.78	21.36	21.05			21,65
28	19.07		21.11			21.63
29	19.03	Network Issue	21.29			21.6
30	19.33		21.39			21.6
31	19.42		21.41			21.6

दराबाबू पी. / VARABABU P. प्रम महाशंकक (थे. एवड एस.) (DOM(Pas) इन्टोपीली जिमिन्टेड/ NTPC Limited वही वरिवादु कोवता खनन परियोजना CBCMP हजारीबाग / Hazaribag







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Unique Lab Report No	o. (ULR No.) TEST R	EPORT94823000001648F			
Name of Customer	Chatti Bariatu Coal Mining Project,	Discipline	Chemical		
	NTPC Ltd.	Group	Water & Residues in Water		
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines		
	P.SKeredari, District-Hazaribagh State-Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 (Date 02.05.2023)		
Date of Sampling	14.10.2023	Sample Collected by	Ranjeet Yadav & Team		
Date of Sample Receiving	14.10.2023	Sampling Plan	SCECPL/SOP/WA/01		
Type of Sample	Water	Sample Condition	Sealed & Preserved		
rype or Sample		Sampling Method	IS 17614 (Part 1): 2021		
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab		
Sample ID	SCECPL/TR/23/321/WT-190/01-05	Location With Coordinate- GW1: Kishunpur Village: -23°54'58.78"N to 85°01'0.19"E GW2: Keredari Village: -23°51'34.99"N to 85°05'14.39"E GW3: Chatti Barintu Village: -23°53'18.32"N to 85°04'16.76 GW4: Kabed Village: -23°53'27.75"N to 85°05'20.06"E GW5: NTPC Camp: -23°53'28.16"N to 85°04'57.53"E			
Period of Analysis	14.10.2023 to 18.10.2023	Report Release Date	19.10.2023		
Meteorological Information	Average Ambient Temperature : 30.0% Weather Condition - Clear	C, Barometric Pressure :1016 n	nBar, Relative Humidity : 61%,		

TEST REPORT

S.N.	Parameter	Unit	Test Method	Minimum Detection Limit			Result		*)	Requirements (Acceptable Limit) as per IS 10500: 2012	Permissible Limit in the absence of Alternate Source as per IS 10500: 2012
		1 4			GW1	GW2	GW3	GW4	GW5		
1.	pH @ 25°C	-	IS:3025 P-11	4.0	7.60	7.05	7.07	6.77	7.67	6.5 to 8.5	6.5 to 8.5
2.	Conductivity	µS/cm	18:3025 P- 14	1.0	1812	1132	1284	604	728	Not specified	Not specified
3.	Turbidity	NTU	IS:3025 P- 10	0.1	0.7	0.2	0.9	1.3	4.8	1	5
4.	Odour		IS:3025 P- 5	Qualitative	Agreeable	Agreeable	Agrecable	Agreeable		Agreeable	Agreeable
5.	Total Dissolved Solids	mg/L	18:3025 P- 16	2.0	1014.0	645.0	744.0	370.0	422.0	500	2000
6.	Total Alkalinity	mg/L	IS:3025 P- 23	0.5	369.34	180.54	87.32	50.74	146.32	200	600
7.	Total Hardness	mg/L	IS:3025 P- 21	1.0	186.3	178.3	188.2	196.3	198.8	200	600

Authorized Signatory

Quality Manager (Piyush Ranjan)

वराबाबू पी. / VARABABU P. पर पहार्थक (थी. एवड एस.)। DOM(P&S)

क्ष व्यवस्था (च. एक एस.)। इन्द्रोपीसी स्थिपेटेड NTPC Limited वडी वरिवानु कोवला खनन परिवोजना CBCMP इचाडीबाग । Hazaribag Page I of 2

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

















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S.N.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	STREP		Result			Requirements (Acceptable Limit) as per IS 10500: 2012	Permissible Limit in the absence of Alternate Source as per IS 10500: 2012
					GW1	GW2	GW3	GW4	GW5		
8.	Calcium	mg/L	IS:3025 P- 40	1.0	46.6	39.2	49.8	42.5	45.8	75	200
9.	Magnesium	mg/L	IS:3025 P- 46	1.0	19.6	23.0	18.9	20.9	22.6	30	100
10.	Chloride	mg/L	IS:3025 P- 32	1.0	37.1	39.3	44.8	37.1	41.3	250	1000
11.	Fluoride	mg/L	IS:3025 P- 60	0.05	0.19	0.18	0.21	0.17	0.24	1.0	1.5
12.	Sulphate	mg/L	IS:3025 P- 24	1.6	31.1	27.6	32,9	26.3	23.5	200	200
13.	Nitrate	mg/L	IS:3025 P-34	0.1	9.1	9.6	8.4	11.1	13.3	45	45
14.	Phosphate	mg/L	IS:3025 P- 31	0.1	BDL	BDL	BDL	BDL	BDL.	Not specified	Not specified
15.	Arsenic	mg/L	IS:3025 P- 37	0.05	BDL	BDL	BDL	BDL	BDL	0.01	0.01
16.	Total Chromium	mg/L	18:3025 P- 52 i	0.03	BDL	BDL	0.036	0.033	0.038	0.05	0.05
17.	Copper	mg/L	IS:3025 P- 42 a	0.03	BDL	BDL	BDL	BDL	BDL	0.05	1.5
18.	Iron	mg/L	IS:3025 P-53 a	0.075	0.084	0.092	0.093	0.084	0.10	1.0	1.0
19.	Manganese	mg/L	IS:3025 P- 59 b	0.01	0.029	0.034	0.031	0.028	0.035	0.1	0.3
20.	Nickel	mg/L	IS:3025 P- 54 a	0.03	BDL	BDL	BDL	BDL	BDL	0.02	0.02
21.	Lead	mg/L	IS:3025 P- 47 iv	0.03	BDL	BDL	BDL	BDL	BDL	0.01	10.0
22.	Zinc	mg/L	18:3025 P- 49 i	0.02	BDL	BDL	BDL	BDL	BDL	5	15

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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)

वराबाबू पी. / VARABABU P.

पर पहारबंधक (पी. एवड एस.)। DOM(PAS) हन्द्रीपीली क्रिक्टेड I NTPC Limited यही वरियातु कोयला खनन परियोजना CBCMP हजारीबाग I Hazaribag

Page 2 of 2

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













Care Environmental Cosultancy

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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project,	Discipline	Chemical			
	NTPC Ltd.	Group	Water & Residues in Water			
Address	At- Chatti Bariatu, Jordag & Pagar	Type of Plant	Coal Mines			
	P.SKeredari, District-Hazaribagh State-Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 (Date 02.05.2023)			
Date of Sampling	14.10.2023	Sample Collected by	Ranjeet Yadav & Team			
Date of Sample Receiving	14.10.2023	Sampling Plan	SCECPL/SOP/WA/01			
Type of Sample	Water	Sample Condition	Sealed & Preserved			
04 # # P 25 0 P 27 00 # 92"	10000000011	Sampling Method	IS 17614 (Part 1): 2021			
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab			
Sample ID	SCECPL/TR/23/321/WT-190/01-05	Comple Diames				
Period of Analysis	14.10.2023 to 18.10.2023	Report Release Date	19.10.2023			
Meteorological Information	Average Ambient Temperature : 30.0°C Weather Condition - Clear	, Barometric Pressure :1016	nBar, Relative Humidity : 61%,			

TEST REPORT

S.N.	Parameter	Unit	Test Method	Minimum Detection			Result			Requirements (Acceptable
				Limit	GWI	GW2	GW3	GW4	GW5	Limit) as per 1S 10500: 2012
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL	BDL	BDL	BDL	BDL	0.7
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	BDL	BDL	BDL	0.003
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	BDL	BDL	BDL	0.001

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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)

वराबाबू पी. I VARABABU P. प्पा महात्रवंशक (थी. एवड एस.)। DGM(P&S) encluted forest NTPC Limited यडी बरियातु कोयला खनन परियोजना। CBCMP हवारीयाग । Hazaribag

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

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











bz Care





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Unique Lab Report !	No. (ULR No.) TEST REPO	RfC994823000001649F			
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC	Discipline	Chemical		
	Ltd.	Group	Water & Residues in Water		
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh	Particular of the Plant	Coal Mines		
	State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)		
Date of Sampling	14.10.2023	Sample Collected By	Ranjeet Yadav & Team		
Date of Sample Receiving	14.10.2023	Sampling Plan	SCECPL/SOP/WA/01		
Type of Sample	Water	Sample Condition	Sealed & Preserved		
3.53		Sampling Method	IS 17614 (Part 1): 2021		
Sample Details	Surface Water (Baledeori Nala)	Sample Drawn By	Sabz Care Lab		
Sample ID	SCECPL/TR/23/321/WT-191/01-02	Location: SW1: Upstream of Baledeori Nala (Coordinate: 23°53'31.83"N to 85°4'27.34 SW2: Downstream of Baledeori Nala (Coordinate: 23°53'40.41"N to 85°4'46.41			
Period of Analysis	14.10.2023 to 18.10.2023	Report Release Date	19.10.2023		
Meteorological Information	Average Ambient Temperature : 30.0°C, Ba Weather Condition - Clear	rometric Pressure :1016 m	Bar, Relative Humidity : 61%		

TEST REPORT

SL No.	Parameter	Unit	Test Method	Minimum Detection Limit	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
1	pH@25°C		IS:3025 P-11	4.0	7.97	7.91	6.0 to 9.0
2	Conductivity	μS/cm	IS:3025 P- 14	1.0	449.3	461.4	Not specified
3	Total Suspended Solids	mg/L	APHA 2540 D	2.0	34.7	42.1	Not specified
4	Chemical Oxygen Demand (COD)	mg/L	APHA 5220 B	5.0	25.7	29.1	Not specified
5	Biological Oxygen Demand (BOD) for 3 days @ 27°C	mg/L	IS:3025 P- 44	2.0	3.0	3.0	3
6	Oil & Grease	mg/L	APHA 5520 B	3.0	3.9	4.3	Not specified
7	Total Alkalinity	mg/L	IS:3025 P- 23	0.5	72.3	69.6	Not specified
8	Calcium	mg/L	IS:3025 P- 40	1.0	31.8	29.4	Not specified
9	Magnesium	mg/L	IS:3025 P- 46	1.0	23.0	13.8	Not specified
10	Chloride	mg/L	IS:3025 P- 32	1.0	54.9	49.1	600

Authorized Signatory

Quality Manager

(Piyush Ranjan)

वराबाबू पी. I VARABABU P.

एन पहारांच्या (थी. एवड एस.)। DOM(PAS) इन्द्रीपीली जिलिटेड/ NTPC Limited यही बरियातु कोयला खनन परियोजना। CBCMP हजारीयाग । Hazaribag

Page 1 of 2

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













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TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
11	Fluoride	mg/L	IS:3025 P- 60	0.05	0.89	0.98	1.5
12	Sulphate	mg/L	IS:3025 P- 24	1.0	46.2	41.9	400
13	Nitrate	mg/L	IS:3025 P- 34	0.1	6.9	7.1	50
14	Phosphate	mg/L	IS:3025 P- 31	0.1	0.47	0,51	Not specified
15	Arsenic	mg/L	IS:3025 P- 37	0.05	BDL	BDL	0.2
16	Chromium	mg/L	IS:3025 P- 52 i	0.03	BDL	BDL	0.05
17	Copper	mg/L	IS:3025 P- 42 a	0.03	0.19	0.24	1.5
18	Iron	mg/L	IS:3025 P-53 a	0.075	0.092	0.098	50
19	Manganese	mg/L	IS:3025 P- 59 b	0.01	0.076	0.072	Not specified
20	Nickel	mg/L	IS:3025 P- 54 a	0.03	0.039	0.041	Not specified
21	Lead	mg/L	IS:3025 P- 47 iv	0.03	BDL	BDL	0.1
22	Zinc	mg/L	IS:3025 P- 49 i	0.02	BDL	BDL	15

*** END OF REPORT ***

Note-

- BDL= Below Detection Limit
- 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.

वराबाबू पी. / VARABABU P.

पन महासंस्था (ची. एवड एस.) i DOM(PAS) इन्द्रीपीट्सी मिनिन्देड / NTPC Limited वडी वरिवानु कोवला खनन परिवोजना i CBCMP हजारीबान i Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)

Page 2 of 2













CIC

Sabz Care Environmental Cosultancy Pvt Ltd.

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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC	Discipline	Chemical		
	Ltd.	Group	Water & Residues in Water		
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines		
	P.SKeredari, District-Hazaribagh State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)		
Date of Sampling	14.10.2023	Sample Collected By	Ranjeet Yadav & Team		
Date of Sample Receiving	14.10.2023	Sampling Plan	SCECPL/SOP/WA/01		
Type of Sample	Water	Sample Condition	Sealed & Preserved		
The most of the contract of th	1 STANSOLIVE	Sampling Method	IS 17614 (Part 1): 2021		
Sample Details	Surface Water (Baledeori Nain)	Sample Drawn By	Sabz Care Lab		
Sample ID	SCECPL/TR/23/321/WT-191/01-02	SW2 : Downstream of B	53'31.83"N to 85°4'27.34"E)		
Period of Analysis	14.010.2023 to 18.10.2023	Report Release Date	19.10.2023		
Meteorological Information	Average Ambient Temperature : 30.0°C, Ba Weather Condition - Clear	rometric Pressure :1016 m	Bar, Relative Humidity: 61%		

TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1992) Class 'C' Prescribed Level
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL	BDL	Not specified
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	0.01
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL.	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	Not specified

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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.

वराबाबू पी. / VARABABU P.

पण महासंस्था (ची. एवड एस.)। DOM(PAS) हन्द्रीपीशी जिलिटेड! NTPC Limited वही वरिवातु कोवला खनन परिवोधना। CBCMP हजारीबान । Hazaribag Authorized Signatory

Quality Manager (Piyush Ranjan)

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















Environmental Consultancy/Pvt-Ltd.

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Unique Lab Report	No. (ULR No.) TEST REPORT	TC994823000001650F		
Name of Customer	Chatti Bariata Coal Mining Project, NTPC Ltd.	Discipline	Chemical	
		Group	Pollution & Environment	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines	
Date of Sampling	14.10.2023	Sample Collected by	Ranjeet Yadav	
Date of Sample Receiving	14.10.2023	Sampling Plan	SCECPL/SOP/WA/01	
Type of Sample	Effluent Water	Sample Condition	Sealed & Preserved	
Sample Details	Mine Discharge Water	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/321/WT-192/01-02	Location: EW1: Effluent 1 (23°53 EW2: Effluent 2 (23°53	'46.72"N to 85°3'57.30"E)	
Period of Analysis	14.10.2023 to 18.10.2023	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)	
Sampling Method	IS 17614 (Part 1): 2021	Report Release Date	19.10.2023	
Metrological Information	Average Ambient Temperature : 30.0°C, Barometric l Condition - Clear	Pressure :1016 mBar, Relat	ive Humidity : 61%, Weather	

TEST REPORT

SI. No.	Parameter	Parameter Unit Test Method		Minimum Detection Limit in mg/L	Effluent 1 (EW1)	Effluent 2 (EW2)	Requirement/Specifica tions as per CPCB Guideline for Inland Surface Discharge (EPR 1986, Schedule VI)
1	pH@25°C		APHA-4500-H+ B: 23rd Ed	4.0	7.18	7.24	5.5 to 9.0
2	Total Suspended Solids	mg/L	APHA 2540 D: 23 rd Ed	1.0	22.1	23.3	100
3	Total Dissolved Solids	mg/L	APHA 2540-C: 23 rd Ed	1.0	317.0	324.0	2100
4	Chemical Oxygen Demand (COD)			5.0	20.1	21.7	250
5	The state of the s		1S 3025 Part-44:2019	2.0	5.0	5.0	30
6	Oil & Grease	mg/L	APHA 5520-B; 23rd Ed	2.0	BDL	BDL	10
7	Iron as Fe	mg/L	IS 3025: Part 53a	0.075	BDL	BDL	3
8	Manganese as Mn	mg/L	IS 3025 Part-59b	0.01	0.10	0.10	2
9	Chloride as Cl	mg/L	APHA 4500 CI- B	1.0	36.9	37.5	Not specified

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

· 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.

वराबाबू पी. / VARABABU P.

पर महासंस्था (पी. एवड एस.) i DOM(PAS) इन्हरीयोजी जिलिटेड/ NTPC Limited वही वरिवानु कोवता.व्यत्य परियोजना i CBCMP Quality Manager

Authorized Signatory

(Piyush Ranjan)

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















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Environmental Consultancy Pvt. Ltd.

Unique Lab Report N	o. (ULR No.) TEST R	EPOR 594823000001786F			
Name of Customer	Chatti Bariatu Coal Mining Project,	Discipline	Chemical		
	NTPC Ltd.	Group	Water & Residues in Water		
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines		
	P.SKeredari, District-Hazaribagh State-Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 (Date 02.05.2023)		
Date of Sampling	11.11.2023	Sample Collected by	Ranjeet Yadav & Team		
Date of Sample Receiving	11.11.2023	Sampling Plan	SCECPL/SOP/WA/01		
Type of Sample	Water	Sample Condition	Sealed & Preserved		
	NAMES OF THE PARTY	Sampling Method	IS 17614 (Part 1): 2021		
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab		
Sample ID	SCECPL/TR/23/346/WT-225/01-05	Location With Coordinate- GW1: Kishunpur Village: -23°54'58.78"N to 85°01'0.19"E GW2: Keredari Village: -23°51'34.99"N to 85°05'14.39"E GW3: Chatti Bariatu Village: -23°53'18.32"N to 85°04'16.70 GW4: Kabed Village: -23°53'27.75"N to 85°05'20.06"E GW5: NTPC Camp: -23°53'28.16"N to 85°04'57.53"E			
Period of Analysis	11.11.2023 to 15.11.2023	Report Release Date	16.11.2023		
Meteorological Information	Ambient Temperature : 23.0°C, Barom Condition - Clear	etric Pressure :1018 mBar, Rela	ative Humidity : 59%, Weather		

TEST REPORT

S.N.	Parameter	Unit	Test Method	PATRICLE CONTROL OF THE PATRICLE OF THE PATRIC		Detection		Requirements (Acceptable Limit) as per IS 10500: 2012	Permissible Limit in the absence of Alternate Source as per IS 10500: 2012		
					GW1	GW2	GW3	GW4	GW5		
1.	pH @ 25°C	-	IS:3025 P-11	4.0	7.05	8.16	7.20	6.86	8.12	6.5 to 8.5	6.5 to 8.5
2.	Conductivity	µS/cm	IS:3025 P-14	1.0	1029	1604	1131	445	627.5	Not specified	Not specified
3.	Turbidity	NTU	IS:3025 P- 10	0.1	0.6	4.7	1.1	1.6	1.5	1	5
4.	Odour	-	IS:3025 P-5	Qualitative	Agrecable	Agreeable	Agreeable	Agrecable	Agrecable	Agreeable	Agreeable
5.	Total Dissolved Solids	mg/L	IS:3025 P- 16	2.0	627.6	962.0	667.0	275.0	370,0	500	2000
6.	Total Alkalinity	mg/L	IS:3025 P- 23	0.5	134.52	350.46	84.96	49.56	125.08	200	600
7.	Total Hardness	mg/L	IS:3025 P- 21	1.0	169.7	174.2	195.3	207.6	195.9	200	600

Authorized Signatory

Quality Manager (Piyush Ranjan)

वराबाबू पी. / VARABABU P.

प्य महाशंकक (पी. एवड एस.) / DOM(PAS) हन्द्रीपीशी शिक्टेड / NTPC Limited वही वरिवानु कोयला खनन परिवोजना / CBCMP हजारिवान् । Hazaribag Page 1 of 2

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















Environmental Consultancy Pvt Ltd.

				TE	ST REPO	DRT				<u> </u>	
S.N.	Parameter	Unit	T'est Method	Minimum Detection Limit in mg/L			Result			Requirements (Acceptable Limit) as per IS 10500: 2012	Permissible Limit in the absence of Alternate Source as per IS 10500: 2012
			v		GW1	GW2	GW3	GW4	GW5		
8.	Calcium	mg/L	IS:3025 P- 40	1.0	48.9	42.8	46.9	44.8	51.0	75	200
9.	Magoesium	mg/L	IS:3025 P-46	1.0	21.8	23.2	20.7	21.4	24.3	30	100
10.	Chloride	mg/L	IS:3025 P- 32	1.0	41.3	45.3	49.3	40.3	44.7	250	1000
11.	Fluoride	mg/L	IS:3025 P- 60	0.05	0.20	0.19	0.22	0.18	0.23	1.0	1.5
12.	Sulphate	mg/L	IS:3025 P- 24	1.0	33.9	29.1	37.6	27.9	26.9	200	200
13.	Nitrate	mg/L	IS:3025 P- 34	0.1	9.4	9.9	8.6	10.7	12.8	45	45
14.	Phosphate	mg/L	IS:3025 P- 31	0.1	BDL	BDL	BDL	BDL	BDL	Not specified	Not specified
15.	Arsenie	mg/L	IS:3025 P- 37	0.05	BDL	BDL	BDL	BDL	BDL	10.0	0.01
16.	Total Chromium	mg/L	IS:3025 P- 52 i	0.03	BDL	BDL	0.039	0.032	0.042	0.05	0.05
17.	Copper	mg/L	IS:3025 P- 42 a	0.03	BDL	BDL	BDL	BDL	BDL	0.05	1.5
18.	Iron	mg/L	IS:3025 P-53 a	0.075	0.089	0.097	0.090	0.082	0.097	1.0	1.0
19.	Manganese	mg/L	IS:3025 P- 59 b	0.01	0.032	0.036	0.033	0.029	0.034	0,1	0.3
20.	Nickel	mg/L	IS:3025 P- 54 a	0.03	BDL	BDL	BDL	BDL	BDL	0.02	0.02
21.	Lead	mg/L	IS:3025 P- 47 iv	0.03	BDL	BDL	BDL	BDI.	BDL	0.01	0.01
22.	Zinc	mg/L	IS:3025 P- 49 i	0.02	BDL	BDL	BDL	BDL	BDL	5	15

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

• 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)

वराबाबू पी. / VARABABU P.

जन महात्रकाम (पी. एवळ एस.)। DOM(PAS) रूपटीपीटी जिनिन्देड / NTPC Limited मही वरिवाद कोवला खनन परियोजना / CBCMP प्रजाधिकान । Hazaribag

Page 2 of 2

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













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	TEST R	EPORT	
Name of Customer	Chatti Bariatu Coal Mining Project,	Discipline	Chemical
	NTPC Ltd.	Group	Water & Residues in Water
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State-Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 (Date 02.05,2023)
Date of Sampling	11.11.2023	Sample Collected by	Ranjeet Vadav & Team
Date of Sample Receiving	11.11.2023	Sampling Plan	SCECPL/SOP/WA/01
Type of Sample	Water	Sample Condition	Sealed & Preserved
		Sampling Method	IS 17614 (Part 1): 2021
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/346/WT-225/01-05	GW2: Keredari Village: - 2: GW3: Chatti Bariatu Villag	23°54'58.78"N to 85°01'0.19"E 3°51'34.99"N to 85°05'14.39"E e: -23°53'18.32"N to 85°04'16.70"E 3'27.75"N to 85°05'20.06"E 3'28.16"N to 85°04'57.53"E
Period of Analysis	11.11.2023 to 15.11.2023	Report Release Date	16.11.2023
Meteorological Information	Ambient Temperature : 23.0°C, Barom Condition - Clear	etric Pressure : 1018 mBar, Rela	tive Humidity : 59%, Weather

TEST REPORT

S.N.	Parameter	Unit	Test Method	Minimum Detection			Result			Requirements (Acceptable
				Limit	GW1	GW2	GW3	GW4	GW5	Limit) as per IS 10500: 2012
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	BDL.	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL	BDL	BDL	BDL	BDL	0.7
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	BDL	BDL	BDL	0.003
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	BDL	BDL	BDL	0.001

*** END OF REPORT ***

Note-

- BDL= Below Detection Limit
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Quality Manager (Piyush Ranjan)

Authorized Signatory

वराबाबू पी. / VARABABU P.

प्ल महास्थान (थी. एवड एस.)। DGM(P&S) हमरोपीशी शिर्मिटेड/ NTPC Limited वडी बरियानु कोयला खनन परियोजना। CBCMP हजारियाग । Hazaribag

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













TEST REPORT

Unique Lab Report N	o. (ULR No.)	TC994823000001787F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC	Discipline	Chemical
	Ltd.	Group	Water & Residues in Water
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh	Particular of the Plant	Coal Mines
	State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)
Date of Sampling	11.11.2023	Sample Collected By	Ranjeet Yadav & Team
Date of Sample Receiving	11.11.2023	Sampling Plan	SCECPL/SOP/WA/01
Type of Sample	Water	Sample Condition	Sealed & Preserved
150		Sampling Method	IS 17614 (Part 1): 2021
Sample Details	Surface Water (Barki River)	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/346/WT-226/01-02	(Coordinate : 23°5 SW2 : Downstream of B	ti River near Kishunpur 55'8,20"N to 85°1'51.15"E) arki River near Pachanra 53'52.38"N to 85°1'17.38"E)
Period of Analysis	11.11.2023 to 15.11.2023	Report Release Date	16.11.2023
Meteorological Information	Ambient Temperature : 23.0°C, Barometric Condition - Clear	Pressure :1018 mBar, Rela	ative Humidity : 59%, Weather

TEST REPORT

pH@25°C Conductivity		IS:3025 P- 11				Prescribed Level
Conductivity		10100001-11	4.0	7.42	7.46	6.0 to 9.0
	μS/cm	IS:3025 P- 14	1.0	386.2	303.0	Not specified
Fotal Suspended Solids	mg/L	APHA 2540 D	2.0	19.1	18.8	Not specified
Chemical Oxygen Demand (COD)	mg/L	APHA 5220 B	5.0	27.3	28.4	Not specified
Biological Oxygen Demand (BOD) for 3 days @ 27°C	mg/L	IS:3025 P- 44	2.0	3.0	3.0	3
Oil & Grease	mg/L	APHA 5520 B	3.0	4.1	4.9	Not specified
Total Alkalinity	mg/L	IS:3025 P- 23	0.5	56.64	79.06	Not specified
Calcium	mg/L	IS:3025 P- 40	1.0	34.6	36.7	Not specified
Magnesium	mg/L	IS:3025 P- 46	1.0	17.0	18.1	Not specified
Chloride	mg/L	IS:3025 P- 32	1.0	27.3	24.5	600
B O I C I	iological Oxygen emand (BOD) for 3 sys @ 27°C il & Grease otal Alkalinity alcium	iological Oxygen emand (BOD) for 3 ays @ 27°C il & Grease mg/L otal Alkalinity mg/L alcium mg/L agnesium mg/L	iological Oxygen mg/L IS:3025 P- 44 emand (BOD) for 3 ays @ 27°C il & Grease mg/L APHA 5520 B otal Alkalinity mg/L IS:3025 P- 23 alcium mg/L IS:3025 P- 40 lagnesium mg/L IS:3025 P- 46	iological Oxygen emand (BOD) for 3 ays @ 27°C il & Grease mg/L APHA 5520 B 3.0 otal Alkalinity mg/L IS:3025 P- 23 0.5 alcium mg/L IS:3025 P- 40 1.0 agnesium mg/L IS:3025 P- 46 1.0	iological Oxygen mg/L IS:3025 P- 44 2.0 3.0 emand (BOD) for 3 sys @ 27°C il & Grease mg/L APHA 5520 B 3.0 4.1 otal Alkalinity mg/L IS:3025 P- 23 0.5 56.64 alcium mg/L IS:3025 P- 40 1.0 34.6 agnesium mg/L IS:3025 P- 46 1.0 17.0	iological Oxygen emand (BOD) for 3 ays @ 27°C il & Grease mg/L IS:3025 P- 44 2.0 3.0 3.0 ays @ 27°C iil & Grease mg/L IS:3025 P- 23 0.5 56.64 79.06 alcium mg/L IS:3025 P- 40 1.0 34.6 36.7 agnesium mg/L IS:3025 P- 46 1.0 17.0 18.1

वराबाबू पी. / VARABABU P.

का महासंस्था (पी. एवड एस.) r DOM(PAS) इन्द्रीपीटी जिलिटेड/ NTPC Limited सही वरियानु कोयला खनन परियोजना / CBCMP

Page 1 of 2

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Quality Manager

(Piyush Ranjan)





TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
11	Fluoride	mg/L	IS:3025 P- 60	0.05	0.69	0.74	1.5
12	Sulphate	mg/L	IS:3025 P- 24	1.0	34.3	386	400
13	Nitrate	mg/L	18:3025 P- 34	0.1	6.7	6.9	50
14	Phosphate	mg/L	IS:3025 P- 31	0.1	0.57	0.62	Not specified
15	Arsenie	mg/L	IS:3025 P- 37	0.05	BDL	BDL	0.2
16	Chromium	mg/L	IS:3025 P- 52 i	0.03	BDL	BDL	0.05
17	Copper	mg/L	IS:3025 P- 42 a	0.03	0.19	0.22	1.5
18	Iron	mg/L	IS:3025 P- 53 a	0.075	BDL	BDL	50
19	Manganese	mg/L	IS:3025 P- 59 b	0.01	0.074	0.080	Not specified
20	Nickel	mg/L	IS:3025 P- 54 a	0.03	0.034	0.037	Not specified
21	Lead	mg/L	IS:3025 P- 47 iv	0.03	BDL	BDL	0.1
22	Zinc	mg/L	IS:3025 P- 49 i	0.02	BDL	BDL	15

*** END OF REPORT ***

Note-

- BDL= Below Detection Limit
- 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)

वराबाबू पी. / VARABABU P. का पहालंकम (शे. एवड एस.)। DOM(PAS) इन्द्रीपीटी शिविदेड/ NTPC Limited यही वरियातु कोयला खनन परियोजना। CBCMP

हजारियाग । Hazaribag

Page 2 of 2

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













Care Environmental Cosultancy

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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC	Discipline	Chemical
	Ltd.	Group	Water & Residues in Water
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)
Date of Sampling	11.11.2023	Sample Collected By	Ranjeet Yadav & Team
Date of Sample Receiving	11.11.2023	Sampling Plan	SCECPL/SOP/WA/01
Type of Sample	Water	Sample Condition	Sealed & Preserved
od/#www.helideuts/.	ACCESSED BY	Sampling Method	IS 17614 (Part 1): 2021
Sample Details	Surface Water (Barki River)	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/346/WT-226/01-02	(Coordinate : 23°: SW2 : Downstream of B	ki River near Kishunpur 55'8.20"N to 85°1'51.15"E) arki River near Pachanra 53'52.38"N to 85°1'17.38"E)
Period of Analysis	11.11.2023 to 15.11.2023	Report Release Date	16.11.2023
Meteorological Information	Ambient Temperature : 23.0°C, Barometric Condition - Clear	Pressure :1018 mBar, Rela	ntive Humidity : 59%, Weathe

TEST REPORT

Sl. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL	BDL	Not specified
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	0.01
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	Not specified

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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)

वराबाबू पी. I VARABABU P. प्रश्न प्रशासका (थी. एवड एस.)। DOM(PAS)

eschilat fides/ NTPC Limited वडी बरिवानु कोवता खनन परियोजना। CBCMP हजादेवान / Hazaribag

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















Environmental Consultancy Pvt. Ltd.

TEST REPORT TC994823000001910F Unique Lab Report No. (ULR No.) Chemical Discipline Name of Customer Chatti Bariatu Coal Mining Project, NTPC Ltd. Water & Residues in Water Group Coal Mines Particular of the Plant Address At- Chatti Bariatu, Jordag & Pagar P.S.-Keredari, District-Hazaribagh CBCMPL/WO/23-24/018 Work Order No. State-Jharkhand (Date 02.05.2023) 16.12.2023 Sample Collected by Md. Razaur Rahman **Date of Sampling** 16.12.2023 SCECPL/SOP/WA/01 Sampling Plan Date of Sample Receiving Sealed & Preserved Sample Condition Type of Sample Water IS 17614 (Part 1): 2021 Sampling Method Sample Details Ground Water Sample Drawn By Sabz Care Lab SCECPL/TR/23/362/WT-244/01-05 Location With Coordinate-Sample ID GW1: Kishunpur Village: -23°54'58.78"N to 85°01'0.19"E GW2: Keredari Village: - 23°51'34.99"N to 85°05'14.39"E GW3: Chatti Bariatu Village: -23°53'18.32"N to 85°04'16.70"E GW4: Kabed Village: - 23°53'27.75"N to 85°05'20.06"E GW5: NTPC Camp: - 23°53'28.16"N to 85°04'57.53"E 19.12.2023 Period of Analysis 16.12.2023 to 19.12.2023 Report Release Date Ambient Temperature: 18.0°C, Barometric Pressure: 1022 mBar, Relative Humidity: 58%, Weather Meteorological Information Condition - Clear

TEST REPORT

S.N.	Parameter	Unit	Test Method	Minimum Detection Limit			Result			Requirements (Acceptable Limit) as per IS 10500: 2012	Permissible Limit in the absence of Alternate Source as per 1S 10500: 2012
		_			GW1	GW2	GW3	GW4	GW5		
1.	pH @ 25°C		18:3025 P-11	4.0	6.67	7.91	7.31	7.08	7.90	6.5 to 8.5	6.5 to 8.5
2.	Electrical Conductivity	µS/cm	IS:3025 P- 14	5.0	255.3	1444.8	998.9	432.5	619.2	Not specified	Not specified
3.	Turbidity	NTU	18:3025 P- 10	0.1	1.9	4.8	1.9	L4	2.1	1	5
4.	Odour	-	IS:3025 P-5	Qualitative	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agrecable
5.	Total Dissolved Solids	mg/L	IS:3025 P- 16	2,0	175.0	840.0	678.0	281.0	416.0	500	2000
6.	Total Alkalinity	mg/L	IS:3025 P- 23	0.5	341.02	69.62	57.82	129.8	95.58	200	600
7.	Total Harduess as CaCO ₃	mg/L	IS:3025 P- 21	1.0	209.02	187.4	182.6	198.3	190.9	200	600

(Galary)

यराबाबू पी. / VARABABU P.

हन्द्रांचीती क्रिकेटेड/ NTPC Limited वडी वरिवानु कोवला खनन परिवोजना/ CBCMP हजारीबान / Hazaribag

Page 1 of 2

OMIGI

Authorized Signatory

Quality Manager (Piyush Ranjan)

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















TEST REPORT

S.N.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L			Result			Requirements (Acceptable Limit) as per IS 10500: 2012	Permissible Limit in the absence of Alternate Source as per IS 10500: 2012
				1	GWI	GW2	GW3	GW4	GW5		
8.	Calcium as Ca	mg/L	IS:3025 P- 40	1.0	51.0	40.80	44.80	46.92	55.08	75	200
9.	Magnesium as Mg	mg/L	IS:3025 P- 46	1.0	22.84	22.54	21.37	21.72	23.08	30	100
10.	Chloride as Cl	mg/L	IS:3025 P- 32	1.0	44.7	47.9	48.7	39.2	45.3	250	1000
11.	Fluoride as F	mg/L	IS:3025 P- 60	0.05	0.22	0.19	0.24	0.19	0.22	1.0	1.5
12.	Sulphate	mg/L	IS:3025 P- 24	1.0	35.7	31.3	39,1	28.4	27.3	200	200
13.	Nitrate	mg/L	IS:3025 P-34	0.1	9.6	10.4	8.9	10.3	12.5	45	45
14.	Phosphate	mg/L	IS:3025 P- 31	0.1	BDL	BDL	BDL	BDL	BDL	Not specified	Not specified
15.	Arsenic	mg/L	IS:3025 P- 37	0.05	BDL	BDL.	BDL.	BDL	BDL	0.01	0.01
16.	Total Chromium as Cr	mg/L	18:3025 P- 52 i	0.03	BDL	BDL	0.036	0.033	0.040	0.05	0.05
17.	Copper as Cu	mg/L	IS:3025 P- 42 a	0.03	BDL	BDL	BDL	BDL	BDL	0.05	1.5
18.	Iron as Fe	mg/L	IS:3025 P- 53 a	0.075	0.091	0.096	0.092	0.085	0.098	1.0	1.0
19.	Manganese as Mn	mg/L	IS:3025 P- 59 b	0.01	0.033	0.038	0.034	0.031	0,036	0.1	0.3
20.	Nickel	mg/L	IS:3025 P- 54 a	0.03	BDL	BDL	BDL	BDL	BDL	0.02	0.02
21.	Lead	mg/L	IS:3025 P- 47 iv	0.03	BDL	BDL	BDL	BDL	BDL	10.0	0.01
22.	Zine	mg/L	IS:3025 P- 49 i	0.02	BDL	BDL	BDL	BDL	BDL	5	15

*** END OF REPORT ***

Note-

• BDL= Below Detection Limit

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.

वराबाबू पी. / VARABABU P.

कः पहानंत्रका (पी. एवड एस.)। DOM(P&S) हनटीपीली शिर्मिटेड / NTPC Limited वडी वरिवाद कोवला खनन परिवोजना / CBCMP हजारीबाग | Hazaribag

Page 2 of 2

Quality Manager (Piyush Ranjan)

Authorized Signatory

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













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An ISO:9001:2015 & OHSAS:18001:2007

Name of Customer	Chatti Bariatu Coal Mining Project,	Discipline	Chemical
	NTPC Ltd.	Group	Water & Residues in Water
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State- Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 (Date 02.05.2023)
Date of Sampling	16.12.2023	Sample Collected by	Md. Razaur Rahman
Date of Sample Receiving	16.12.2023	Sampling Plan	SCECPL/SOP/WA/01
Type of Sample	Water	Sample Condition	Sealed & Preserved
- 25 5 7 19 5 19 19 19 19 19 19 19 19 19 19 19 19 19	INC. ASSESSMENT OF THE PROPERTY OF THE PROPERT	Sampling Method	IS 17614 (Part 1): 2021
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/362/WT-244/01-05	GW2: Keredari Village: - 2. GW3: Chatti Bariatu Villag	23°54'58.78"N to 85°01'0.19"E 3°51'34.99"N to 85°05'14.39"E ;e: -23°53'18.32"N to 85°04'16.70"E 3'27.75"N to 85°05'20.06"E 3'28.16"N to 85°04'57.53"E
Period of Analysis	16.12.2023 to 19.12.2023	Report Release Date	19.12.2023
Meteorological Information	Ambient Temperature : 18.0°C, Baro Weather Condition - Clear	metric Pressure :1022 mBar,	Relative Humidity : 58%,

TEST REPORT

S.N.	Parameter	Unit	Test Method	Minimum Detection			Result			Requirements (Acceptable
				Limit	GW1	GW2	GW3	GW4	GW5	Limit) as per 1S 10500: 2012
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL	BDL	BDL	BDL	BDL	0.7
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	BDL	BDL	BDL	0.003
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	BDL	BDL	BDL	0.001

*** END OF REPORT ***

Note-

- BDL= Below Detection Limit
- 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)

वराबाबू पी. / VARABABU P.

पण महासंबंध (पी. एवड एस.)। DOM(PAS) हनटोपीली जिलिटेड / NTPC Limited यही वरिवाद कोवला खनन परियोजना / CBCMP हजारियान | Hazaribag





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001911F			
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Discipline	Chemical		
		Group	Water & Residues in Water		
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines		
	P.SKeredari, District-Hazaribagh State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)		
Date of Sampling	16.12.2023	Sample Collected By	Md. Razaur Rahman		
Date of Sample Receiving	16.12.2023	Sampling Plan	SCECPL/SOP/WA/01		
Type of Sample	Water	Sample Condition	Sealed & Preserved		
		Sampling Method	IS 17614 (Part 1): 2021		
Sample Details	Surface Water (Barki River)	Sample Drawn By	Sabz Care Lab		
Sample ID	SCECPL/TR/23/362/WT-245/01-02	Location: SW1: Upstream of Barki River near Kishunpur (Coordinate: 23°55'8.20"N to 85°1'51.15"E) SW2: Downstream of Barki River near Pachanra (Coordinate: 23°53'52.38"N to 85°1'17.38"E			
Period of Analysis	16.12.2023 to 19.12.2023	Report Release Date	19.12.2023		
Meteorological Information	Ambient Temperature : 18.0°C, Barometric Pres Condition - Clear	sure :1622 mBar, Relative	Humidity : 58%, Weather		

TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
1	pH@25°C		IS:3025 P- 11	4.0	8.34	7.82	6.0 to 9.0
2	Electrical Conductivity	μS/cm	1S:3025 P- 14	5.0	418.6	334.4	Not specified
3	Total Suspended Solids	mg/L	APHA 2540 D 23 rd Ed.	2.0	0.4	6.7	Not specified
4	Chemical Oxygen Demand (COD)	mg/L	APHA 5220 B 23 rd Ed	5.0	29.7	32.5	Not specified
5	Biological Oxygen Demand (BOD) for 3 days @ 27°C	mg/L	IS:3025 P- 44	2.0	3.0	3.0	3
6	Oil & Grease	mg/L	APHA 5520 B 2311 Ed	3.0	9.50	4.48	Not specified
7	Total Alkalinity as CaCO ₂	mg/L	IS:3025 P- 23	0.5	48.58	130.98	Not specified
8	Calcium as Ca	mg/L	IS:3025 P- 40	1.0	38.76	42.84	Not specified
9	Magnesium as Mg	mg/L	IS:3025 P- 46	1.0	21.96	22.30	Not specified
10	Chloride	mg/L	IS:3025 P- 32	1.0	29.7	26.9	600

वराबाबू पी. / VARABABU P.

एन पहारांच्या (थी. एवड एस.)। DOM(PAS) इन्द्रीपीली जिलिटेड/ NTPC Limited बड़ी बरिवानु कोवला खनन परिवोजना / CBCMP

Page 1 of 2

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











Quality Manager

(Piyush Ranjan)





TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
11	Fluoride	mg/L	IS:3025 P- 60	0.05	0.63	0.71	1.5
12	Sulphate	mg/L	IS:3025 P- 24	1.0	36.9	40.7	400
13	Nitrate	mg/L	IS:3025 P- 34	0.1	6.4	6.7	50
14	Phosphate	mg/L	IS:3025 P- 31	0.1	0.61	0.58	Not specified
15	Arsenic	mg/L	IS:3025 P- 37	0.05	BDL	BDL	0.2
16	Total Chromium as Cr	mg/L	IS:3025 P- 52 i	0.03	BDL	BDL	0.05
17	Copper as Cu	mg/L	IS:3025 P- 42 a	0.03	0.20	0.24	1.5
18	Iron as Fe	mg/L	IS:3025 P- 53 a	0.075	BDL	BDL	50
19	Manganese as Mn	mg/L	IS:3025 P- 59 b	0.01	0.071	0.077	Not specified
20	Nickel as Ni	mg/L	IS:3025 P- 54 a	0.03	0.032	0.035	Not specified
21	Lead as Pb	mg/L	IS:3025 P- 47 iv	0.03	BDL	BDL	0.1
22	Zinc	mg/L	IS:3025 P- 49 i	0.02	BDL	BDL	15

*** END OF REPORT ***

Note-

- BDL= Below Detection Limit
- Test values are reported based on the samples received.
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 Samples will be preserved as per the standard method.

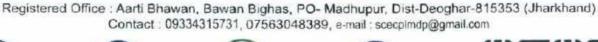
Authorized Signatory

Quality Manager (Piyush Ranjan)

वराबाबू पी. / VARABABU P.

पर पहाराबाक (थी. एवड एस.)। DOM(PAS) हनटीपीटी निर्मिटेड/ NTPC Limited वही वरिवातु कोवला खनन परिपोजना। CBCMP इजारिकान । Hazaribag

Page 2 of 2















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An ISO:9001:2015 & OHSAS:18001:2007

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Discipline	Chemical		
		Group	Water & Residues in Water		
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines		
	P.SKeredari, District-Hazaribagh State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)		
Date of Sampling	16.12.2023	Sample Collected By	Md. Razaur Rahman		
Date of Sample Receiving	16.12.2023	Sampling Plan	SCECPL/SOP/WA/01		
Type of Sample	Water	Sample Condition	Sealed & Preserved		
		Sampling Method	IS 17614 (Part 1): 2021		
Sample Details	Surface Water (Barki River)	Sample Drawn By	Sabz Care Lab		
Sample ID	SCECPL/TR/23/362/WT-245/01-02	Location: SW1: Upstream of Barki River near Kishunpur (Coordinate: 23°55'8.20"N to 85°1'51.15"E) SW2: Downstream of Barki River near Pachanra (Coordinate: 23°53'52.38"N to 85°1'17.38"E			
Period of Analysis	16.12.2023 to 19.12.2023	Report Release Date	19.12.2023		
Meteorological Information	Ambient Temperature : 18.0°C, Barometric Pres Condition - Clear	sure :1022 mBar, Relative	Humidity: 58%, Weather		

TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL.	BDL	Not specified
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	0.01
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	Not specified

*** END OF REPORT ***

Note-

- BDL= Below Detection Limit
- 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 Signators

Quality Manager (Piyush Ranjan)

वराबाबू पी. I VARABABU P.

पर पहारक्षक (थी. एवड एस.) / DOM(PAS) इन्द्रोपीसी शिक्टेड / NTPC Limited वही वरिवानु कोवला खनन परियोजना / CBCMP प्रवासिका / Hazaribag

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





TEST REPORT Unique Lab Report No. (ULR No.) TC994824000000175F Name of Customer Chatti Bariatu Coal Mining Project, Chemical Discipline NTPC Ltd. Water & Residues in Water Group Address At- Chatti Bariatu, Jordag & Pagar Coal Mines Particular of the Plant P.S.-Keredari, District-Hazaribagh Work Order No. CBCMPL/WO/23-24/018 State- Jharkhand. (Date 02.05.2023) Date of Sampling 10.01.2024 Sample Collected by Vivek Kumar Malakar Date of Sample 11.01.2024 SCECPL/SOP/WA/01 Sampling Plan Receiving Type of Sample Water Sample Condition Sealed & Preserved Sampling Method IS 17614 (Part 1): 2021 Sample Details Ground Water Sample Drawn By Sabz Care Lab SCECPL/TR/24/15/WT-12/01-05 Sample ID Location With Coordinate-GW1: Kishunpur Village: -23°54'58.78"N to 85°01 0.19"E GW2: Keredari Village: - 23°51'34.99"N to 85°05'14.39"E GW3: Chatti Bariatu Village: -23°53'18.32"N to 85°04'16.70"E GW4: Kabed Village: - 23°53'27.75"N to 85°05'20.06"E GW5: NTPC Camp: - 23°53'28.16"N to 85°04'57.53"E Period of Analysis 12.01.2024 to 15.01.2024 16.01.2024 Report Release Date

TEST REPORT

Average Ambient Temperature: 18.5°C, Barometric Pressure: 1017 mBar

Relative Humidity: 58%, Weather Condition - Clear

S.N.	Parameter	Unit	Test Method	Minimum Detection Limit		Result				Requirements (Acceptable Limit) as per IS 10500: 2012	Permissible Limit in the absence of Alternate Source as per IS 10500: 2012
					GW1	GW2	GW3	GW4	GW5		
1.	ρH @ 25°C		IS:3025 P-11	4.0	7.43	7.85	7.03	6.82	7.69	6.5 to 8.5	6.5 to 8.5
2.	Electrical Conductivity	µS/cm	IS:3025 P- 14	5.0	1415.0	1131.0	873.7	309.6	565.0	Not specified	Not specified
3.	Turbidity	NTU	IS:3025 P- 10	0.1	1.5	0.8	0.9	1.1	0.9	1	5
4.	Odour		IS:3025 P- 5	Qualitative	Agreeable	Agreeable	Agreeable	Agreeable	Agrecable	Agreeable	Agreeable
5.	Total Dissolved Solids	mg/L	IS:3025 P- 16	2.0	187.0	817.0	694.0	289.0	394.0	500	2000
6.	Total Alkalinity	mg/L	IS:3025 P- 23	0.5	335.12	74.62	64.38	134.7	95.38	200	600
7.	Total Hardness as CaCO ₃	mg/L	IS:3025 P- 21	1.0	215.8	194.4	176.3	194.5	187.8	200	600

वराबाबू पी. / VARABABU P. प्ता महात्रवंशक (थी. एवड एस.)। DOM(P&S) लारोपीशी शिलीदेश NTPC Limited षड्डी बरियानु कोयला खनन परियोजना / CBCMP हवादेवान । Hazaribag

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Meteorological

Information









Authorized Signatory

Quality Manager

(Piyush Ranjan)







Environmental Consultancy Pvt. Ltd.

TEST REPORT

ULR No.: TC994824000000175F

S.N.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L			Result			Requirements (Acceptable Limit) as per IS 10500: 2012	Permissible Limit in the absence of Alternate Source as per IS 10500: 2012
					GW1	GW2	GW3	GW4	GW5	T-1	
8.	Calcium as Ca	mg/L	IS:3025 P- 40	1.0	49.0	42,30	43.70	46.14	55.02	75	200
9.	Magnesium as Mg	mg/L	15:3025 P- 46	1.0	20.80	23.92	22.32	22.62	24,50	30	100
10.	Chloride as Cl	mg/L	IS:3025 P- 32	1.0	43.6	47.4	49.9	42.3	46.3	250	1000
11.	Fluoride as F	mg/L	IS:3025 P- 60	0.05	0.21	0.19	0.23	0.20	0.22	1.0	1.5
12.	Sulphate	mg/L	IS:3025 P- 24	1.0	38.3	32.7	38.8	29.43	27.9	200	200
13.	Nitrate	mg/L	IS:3025 P- 34	0.1	9.9	11.1	9.2	9.9	12.1	45	45
14.	Phosphate	mg/L	IS:3025 P- 31	0.1	BD1.	BDL	BDL	BDL	BDL	Not specified	Net specified
15.	Arsenic	mg/L	IS:3025 P- 37	0.05	BDL	BDL	BDL	BDL	BDL	0.01	0.01
16.	Total Chromium as Cr	mg/L	1S:3025 P- 52 i	6.03	BDL	BDL	0.038	0.034	0.039	0.05	0.05
17.	Copper as Cu	mg/L	IS:3025 P- 42 a	0.03	BDL	BDL	BDL	BDL	BDL	0.05	1.5
18.	Iron as Fe	mg/L	IS:3025 P- 53 a	0.075	0.094	0.098	0.094	0.083	0.093	1.0	1.0
19.	Manganese as Ma	mg/L	IS:3025 P- 59 b	0.01	0.035	0.041	0.037	0.029	0.038	0.1	0.3
20.	Nickel	mg/L	18:3025 P- 54 a	0.03	BDL	BDL	BDL	BDL	BDL	0.02	0.02
21.	Lend	mg/L	IS:3025 P- 47 iv	0.03	BDL	BDL	BDL	BDL	BDL	10.0	10.0
22.	Zinc	mg/L	IS:3025 P- 49 i	0.02	BDL	BDL	BDL	BDL	BDL	5	15

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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.

वराबाबू पी. / VARABABU P.

का जासकार (पी. एवड एस.)। DOM(PAS) इन्द्रोपीसी सिर्विटेड / NTPC Limited वड्डी वरिवादु कोवला जनन परिवेदना / CBCMP हजारीकार । Hazaribag

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















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project,	Discipline	Chemical		
	NTPC Ltd.	Group	Water & Residues in Water		
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines		
	P.SKeredari, District-Hazaribagh State- Jharkhand.	Work Frder No			
Date of Sampling	10.01.2024	Sample Collected by	Vivek Kumar Malakar		
Date of Sample Receiving	11.01.2024	Sampling Plan	SCECPL/SOP/WA/01		
Type of Sample	Water	Sample Condition	Sealed & Preserved		
		Sampling Method	IS 17614 (Part 1): 2021		
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab		
Sample ID	SCECPL/TR/24/15/WT-12/01-05	Location With Coordinate- GW1: Kishunpur Village: -23°54'58.78"N to 85°01'0.19"E GW2: Keredari Village: -23°51'34.99"N to 85°05'14.39"E GW3: Chatti Bariatu Village: -23°53'18.32"N to 85°04'16.70" GW4: Kabed Village: -23°53'27.75"N to 85°05'20.06"E GW5: NTPC Camp: -23°53'28.16"N to 85°04'57.53"E			
Period of Analysis	12.01.2024 to 15.01.2024	Report Release Date	16.01.2024		
Meteorological Information	Average Ambient Temperature : 18.5 Relative Humidity : 58%, Weather C		17 mBar		

TEST REPORT

S.N.	Parameter	Unit	Test Method	Minimum Detection				Requirements (Acceptable Limit) as per IS 10500: 2012		
			Limit	GW1	GW2	GW3	GW4		GW5	
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL	BDL	BDL	BDL	BDL	0.7
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	BDL	BDL	BDL	0.003
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	BDL	BDL	BDL	0.001
	Contract Con		CALL STREET, SHOW THE PARTY OF		The second second	the state of the s	200000000000000000000000000000000000000			

*** END OF REPORT ***

Note-

- BDL= Below Detection Limit
- 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.

वराबाबू पी. / VARABABU P.

प्या पहाराधाम (पी. एवड एस.)। Dow(PAS) हन्द्रीपीली जिनिन्देड NTPC Limited यही वरियानु कोयला खनन परियोजना CBCMP हजारीबान । Hazaribag Authorized Signatory

Quality Manager (Piyush Ranjan)

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















TEST REPORT

	IEST KEPUR	11	OF THE PARTY OF TH
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Discipline	Chemical
tune or Consumer		Group	Water & Residues in Water
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)
Date of Sampling	10.01.2024	Sample Collected By	Vivek Kumar Malakar
Date of Sample Receiving	11.01.2024	Sampling Plan	SCECPL/SOP/WA/01
Type of Sample	Water	Sample Condition	Sealed & Preserved
t) he of our pri		Sampling Method	IS 17614 (Part 1): 2021
Sample Details	Surface Water (Barki River)	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/15/WT-13/01-02	(Coordinate : 23° SW2 : Downstream of I	ki River near Kishunpur ?55'8.20"N to 85°1'51.15"E) Barki River near Pachanra ?53'52.38"N to 85°1'17.38"E)
Period of Analysis	12.01.2024 to 15.01.2024	Report Release Date	16.01.2024
Meteorological Information	Average Ambient Temperature : 18.5°C, Barone Relative Humidity : 58%, Weather Condition - C	etric Pressure :1017 mBar Clear	

TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL.	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL.	BDL	Not specified
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	0.01
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	Not specified

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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.

वराबाबू पी. / VARABABU P.

प्रम महाप्रवेद्यक (ची. एवड एस.)। DGM(P&S) हमरोपीशी शिविदेश NTPC Limited वडी बरियानु कोयला खनन परियोजना / CBCMP हलादेवाग । Hazaribag

Authorized Signatory

(Piyusli Ranjan)

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















TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994824000000176F			
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Discipline	Chemical		
		Group	Water & Residues in Water		
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines		
	P.SKeredari, District-Hazaribagh State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)		
Date of Sampling	10.01.2024	Sample Collected By	Vivek Kumar Malakar		
Date of Sample Receiving	11.01.2024	Sampling Plan	SCECPL/SOP/WA/01		
Type of Sample	Water	Sample Condition	Sealed & Preserved		
30		Sampling Method	IS 17614 (Part 1): 2021		
Sample Details	Surface Water (Barki River)	Sample Drawn By	Sabz Care Lab		
Sample ID	SCECPL/TR/24/15/WT-13/01-02	Location: SW1: Upstream of Barki River near Kishunpur (Coordinate: 23°55'8.20"N to 85°1'51.15"E) SW2: Downstream of Barki River near Pachanra (Coordinate: 23°53'52.38"N to 85°1'17.38"E			
Period of Analysis	12.01.2024 to 15.01.2024	Report Release Date	16.01.2024		
Meteorological Information	Average Ambient Temperature : 18.5°C, Barome Relative Humidity : 58%, Weather Condition - C				

TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit	Result Upstream (SWI)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
1	pH@25°C	-	IS:3025 P- 11	4.0	8.01	7.36	6.0 to 9.0
2	2 Electrical μS/cm Conductivity		IS:3025 P- 14	5.0	385.0	280.2	Not specified
3	Total Suspended Solids	mg/L	APHA 2540 D 23 rd Ed.	2.0	3.66	2.16	Not specified
4	Chemical Oxygen Demand (COD)	mg/L	APHA 5220 B 23 rd Ed	5.0	35.9	36.8	Not specified
5	Biological Oxygen Demand (BOD) for 3 days @ 27°C	mg/L	IS:3025 P- 44	2.0	3.0	3.0	3
6	Oil & Grease	mg/L	APHA 5520 B 23 rd Ed	3.0	11.70	14.90	Not specified
7	Total Alkalinity as CaCO ₃	mg/L	IS:3025 P- 23	0.5	44.22	119.74	Not specified
8	Calcium as Ca	mg/L	IS:3025 P- 40	1.0	36.72	40.80	Not specified
9	Magnesium as Mg	mg/L	IS:3025 P- 46	1.0	23.03	21.96	Not specified
10	Chloride	mg/L	IS:3025 P- 32	1.0	31.9	27.8	600

वराबाबू पी. I VARABABU P.

का पहालंबक (ची. एवड एस.) i DOM(PAS) हन्त्रीपीटी जिलेटेड/ NTPC Limited बडी वरिवादु कोवला खनन परियोजना i CBCMP

Page 1 of 2

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











Authorized Signatory

Quality Manager (Piyush Ranjan)





TEST REPORT

ULR No. TC994824000000176F

SL No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
11	Fluoride	mg/L	IS:3025 P- 60	0.05	0.58	0.68	1.5
12	Sulphate	mg/L	IS:3025 P- 24	1.0	39.8	37.6	400
13	Nitrate	mg/L	IS:3025 P- 34	0.1	7.7	7.2	50
14	Phosphate	mg/L	IS:3025 P- 31	0.1	0.72	0.60	Not specified
15	Arsenic	mg/L	IS:3025 P- 37	0.05	BDL	BDL	0.2
16	Total Chromium as Cr	mg/L	IS:3025 P- 52 i	0.03	BDL	BDL	0.05
17	Copper as Cu	mg/L	IS:3025 P- 42 a	0.03	0.22	0.24	1.5
18	Iron as Fe	mg/L	IS:3025 P-53 a	0.075	BDL	BDL	50
19	Manganese as Mn	mg/L	IS:3025 P- 59 b	0.01	0.069	0.085	Not specified
20	Nickel as Ni	mg/L	IS:3025 P- 54 a	0.03	0.035	0.039	Not specified
21	Lead as Pb	mg/L	IS:3025 P- 47 iv	0.03	BDL	BDL	- 0.1
22	Zinc	mg/L	IS:3025 P- 49 i	0.02	BDL	BDL	15

*** END OF REPORT ***

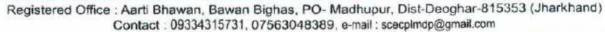
Note-

- BDL= Below Detection Limit
- Test values are reported based on the samples received.
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 Samples will be preserved as per the standard method.

वराबाबू पी. / VARABABU P.

पर पहारक्षक (ची. एवड एस.) / DOM(PAS) हन्द्रोपीसी शिक्टेड / NTPC Limited वही वरिवानु कोवला खनन परियोजना / CBCMP हजारिवान् । Hazaribag **Authorized Signatory**

Page 2 of 2



















CONTRACTOR OF THE PARTY OF THE	16-8016
Environmental	Consultancy Pvt. Ltd.

Unique Lab Report	No. (ULR No.) TEST DEDOI	TC994824000000177F	
Name of Customer	No. (ULR No.) TEST REPOI	Discipline	Chemical
	Carried Control of Con	Group	Pollution & Environment
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Date of Sampling	10.01.2024	Sample Collected by	Vivek Kumar Malakar
Date of Sample Receiving	11.01.2024	Sampling Plan	SCECPL/SOP/WA/01
Type of Sample	Effluent Water	Sample Condition	Sealed & Preserved
Sample Details	Mine Discharge Water	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/15/WT-14/01-02		'46.72"N to 85°3'57.30"E) '45.78"N to 85°3'57.21"E)
Period of Analysis	12.01.2024 to 15.01.2024	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)
Sampling Method	IS 17614 (Part 1): 2021	Report Release Date	16.01.2024
Metrological Information	Average Ambient Temperature : 18.5°C, Barometric Relative Humidity : 58%, Weather Condition - Clear		

TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Effluent 1 (EW1)	Effluent 2 (EW2)	Requirement/Specifications as per CPCB Guideline for Inland Surface Discharge (EPR 1986, Schedule VI)
1	рН@25°C		APHA-4500-H+ B: 23 rd Ed	4.0	7.12	7.17	5.5 to 9.0
2	Total Suspended Solids	mg/L	APHA 2540 D: 23rd Ed	1.0	19.3	20.4	100
3	Total Dissolved Solids	mg/L	APHA 2540-C: 23 rd Ed	1.0	283.0	294.0	2100
4	Chemical Oxygen Demand (COD)	mg/L	APHA 5220 B: 23rd Ed	5.0	24.3	25.9	250
5	Biological Oxygen Demand (BOD) for 3 days @ 27°C	mg/L	IS 3025 Part-44:2019	2.0	5.0	5.0	30
6	Oil & Grease	mg/L	APHA 5520-B: 23 rd Ed	2.0	BDL	BDL	10
7	Iron as Fe	mg/L	IS 3025: Part 53a	0.075	BDL	BDL	3
8	Manganese as Mn	mg/L	IS 3025 Part-59b	0.01	0.12	0.13	2
9	Chloride as Cl	mg/L	APHA 4500 CI- B	1.0	39.7	37.8	Not specified

*** END OF REPORT ***

Note-

· BDL= Below Detection Limit

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.

वराबाबू पी. / VARABABU P.

का पहाराधक (पी. एवड एस.)। DOM(PAS) इन्द्रीपीली क्रिकेटेड/ NTPC Limited बड़ी वरिवातु कोवला खनन परियोजना/ CBCMP

Quality Wanager

(Piyush Ranjan)

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















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project,	Discipline	Chemical	
	NTPC Ltd.	Group	Water & Residues in Water	
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines	
	P.SKeredari, District-Hazaribagh State- Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date 02.05.2023)	
Date of Sampling	17.02.2024	Sample Collected by	Md. Razaur Rahman	
Date of Sample Receiving	17.02.2024	Sampling Plan	SCECPL/SOP/WA/01	
Type of Sample	Water	Sample Condition	Sealed & Preserved	
	2015700.0	Sampling Method	IS 17614 (Part 1): 2021	
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/24/50/WT-28/01-05	GW2: Keredari Village: - 2 GW3: Chatti Bariatu Villag GW4: Kabed Village: - 23°:	23°54'58.78"N to 85°01'0.19"E 3°51'34.99"N to 85°05'14.39"E ge: - 23°53'18.32"N to 85°04'16.70"E 53'27.75"N to 85°05'20.06"E 3'28.16"N to 85°04'57.53"E	
Period of Analysis	17.02.2024 to 20.02.2024	Report Release Date	21.02.2024	
Meteorological Information	Average Ambient Temperature : 24.0 Weather Condition - Sunny	°C, Barometric Pressure : 101	4 mBar, Relative Humidity : 22%,	

TEST REPORT

S.N.	Parameter	Unit	Test Method	Minimum Detection			Result			Requirements (Acceptable
				Limit	GWI	GW2	GW3	GW4	GW5	Limit) as per IS 10500: 2012
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL	BDL	BDL	BDL	BDL	0.7
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	BDL	BDL	BDL	0.003
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	BDL	BDL	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	BDL	BDL	BDL	0.001

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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.

वराबाबू पी. / VARABABU P.

ज्य पहारांध्यक (ची. एवड एस.)। DOM(PAS) इन्ह्रोपीली क्रिकेटेड! NTPC Limited यही वरियानु कोयला जनन परियोजना। CBCMP हजारीयान्। Hazaribag Authorized Signatory

lity Manager (sh/Ranjan)

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

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

















Environmental Consultancy/Pv

TEST REPORT

Unique Lab Report N	No. (ULR No.)	TC994824000000258F		
Name of Customer	Chatti Bariatu Coal Mining Project,	Discipline	Chemical	
	NTPC Ltd.	Group	Water & Residues in Water	
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines	
	P.SKeredari, District-Hazaribagh State- Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date 02.05,2023)	
Date of Sampling	17.02.2024	Sample Collected by	Md. Razaur Rahman	
Date of Sample Receiving	17.02.2024	Sampling Plan	SCECPL/SOP/WA/01	
Type of Sample	Water	Sample Condition	Sealed & Preserved	
Comple Details		Sampling Method	IS 17614 (Part 1): 2021	
Sample Details Sample ID	Ground Water	Sample Drawn By	Sabz Care Lab	
	SCECPL/TR/24/50/WT-28/01-05	GW2: Keredari Village: - 2 GW3: Chatti Bariatu Villag GW4: Kabed Village: - 23°	- 23°54'58.78"N to 85°01'0.19"E 13°51'34.99"N to 85°05'14.39"E ge: - 23°53'18.32"N to 85°04'16.70"E 53'27.75"N to 85°05'20.06"E	
eriod of Analysis	17.02.2024 to 20.02.2024	Report Release Date	3'28.16"N to 85°04'57.53"E	
Meteorological Information	Ambient Temperature : 24.0°C, Baron Weather Condition - Sunny			

TEST REPORT

S.N.	Parameter	Unit	Test Method	Minimum Detection Limit			Result			Requirements (Acceptable Limit) as per IS 10500: 2012	Permissible Limit in the absence of Alternate Source as per IS 10500: 2012
1.	pH @ 25°C	-			GWL	GW2	GW3	GW4	GW5		100001 2012
		-	IS:3025 P-11	4.0	7.39	7.51	6.54	7.12	8.29	6.5 to 8.5	6.5 to 8.5
2.	Electrical Conductivity	μS/cm	IS:3025 P- 14	5.0	1380.9	1336.0	819.5	225.1	501.1	Not specified	Not
3.	Turbidity	NTU	IS:3025 P- 10	0.1	1.3	0.5	1.8	0.4	0.6	1	specified 5
4.	Odour		IS:3025 P- 5	Qualitative	Agreeable	Agrecable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5.	Total Dissolved Solids	mg/L	IS:3025 P- 16	2.0	826.0	815.0	532,0	135.0	321.0	500	2000
6.	Total Alkalinity	mg/L	IS:3025 P- 23	0.5	177.0	153.4	224.2	82.6	141.6	200	600
7.	Total Hardness as CaCO ₃	mg/L	IS:3025 P- 21	1.0	207.3	162.2	184.5	189.7	182,5	200	600

यराबाबू पी. / VARABABU P.
पः महामान (भी. एवड एस.) / DOM(PAS)
हम्होतीसी अविदेड / NTPC Limited

Page 1 of 2

बहु वरिवार कोवत खन्न परिकेचना CBCMP

हमारिवार निवार किया किया किया परिकेचना CBCMP

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











Anthorized Signatory

ush

Manager ash Ranjan)





TEST REPORT

ULR No.: TC994824000000258F

S.N.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L			Result			Requirements (Acceptable Limit) as per IS 10500: 2012	Permissible Limit in the absence of Alternate Source as per IS 10500: 2012
					GW1	GW2	GW3	GW4	GW5		
8.	Calcium as Ca	mg/L	IS:3025 P- 40	1.0	46.92	40.80	44.88	48,96	51.0	75	200
9.	Magnesium as Mg	mg/L	IS:3025 P- 46	1.0	18.40	20.21	23.03	24.30	24.69	30	100
10.	Chloride as Cl	mg/L	IS:3025 P- 32	1.0	41.9	49.9	51.6	44.7	45.9	250	1000
11.	Fluoride as F	mg/L	IS:3025 P- 60	0.05	0.20	0.19	0.22	0.21	0.22	1.0	1.5
12.	Sulphate	mg/L	IS:3025 P- 24	1.0	37.4	30.9	38.2	31.2	32.7	200	200
13.	Nitrate	mg/L	IS:3025 P- 34	0.1	10.9	11.7	9.6	10.3	12.5	45	45
14.	Phosphate	mg/L	IS:3025 P- 31	1.0	BDL	BDL	BDL	BDL	BDL	Not specified	Not specified
15.	Arsenic	mg/L	IS:3025 P- 37	0.05	BDL	BDL	BDL	BDL	BDL	0.01	0.01
16.	Total Chromium as Cr	mg/L	IS:3025 P- 52 i	0.03	BDL	BDL	0.037	0.032	0.036	0.05	0.05
17.	Copper as Cu	mg/L	IS:3025 P- 42 n	0.03	BDL	BDL	BDL	BDL	BDL	0.05	1.5
18.	Iron as Fe	mg/L	IS:3025 P- 53 a	0.075	0.093	0.096	0.090	0.0837	0.092	1.0	1.0
19.	Manganese as Mn	mg/L	IS:3025 P- 59 b	0.01	0.037	0.040	0.035	0.031	0.034	0.1	0.3
20.	Nickel	mg/L	IS:3025 P- 54 a	0.03	BDL	BDL	BDL	BDL	BDL	6.02	0.02
21.	Lead	mg/L	18:3025 P- 47 iv	0.03	BDL	BDL	BDL	BDL	BDL	0.01	0.01
22.	Zine	mg/L	18:3025 P- 49 i	0.02	BDL	BDL.	BDL	BDL	BDL	5	15

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

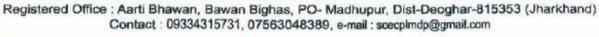
Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation.
 Samples will be preserved as per the standard method.

वराबाबू पी. / VARABABU P.

ज्य महाज्ञावक (पी. एवड एस.) / DOM(PAS) हनटोपीटी जिनिटेड / NTPC Limited वही वरिवात कोवला खनन परियोजना / CBCMP हजादियान / Hazaribag

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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Discipline	Chemical	
		Group	Water & Residues in Water	
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines	
P.S Keredari, District- Hazaribagh State-Jharkhand.		Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)	
Date of Sampling	17.02.2024	Sample Collected By	Md. Razaur Rahman	
Date of Sample Receiving	17.02.2024	Sampling Plan	SCECPL/SOP/WA/01	
Type of Sample	Water	Sample Condition	Sealed & Preserved	
21.67.75.5 = 0.0165.02	19-1-0566-	Sampling Method	IS 17614 (Part 1): 2021	
Sample Details	Surface Water (Barki River)	Sample Drawn By	Sabz Care Lab	
a_mple ID	SCECPL/TR/24/50/WT-29/01-02	(Coordinate : 23° SW2 : Downstream of F	ki River near Kishunpur 55'8.20"N to 85°1'51.15"E) Barki River near Pachanra 53'52.38"N to 85°1'17.38"E)	
Period of Analysis	17.02.2024 to 20.02.2024	Report Release Date	21.02.2024	
Meteorological Information	Ambient Temperature : 24.0°C, Barometric Press Weather Condition - Sunny	sure : 1014 mBar, Relative	Humidity : 22%,	

TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL	BDL	Not specified
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	0.01
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	Not specified

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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.

वराबाबू पी. / VARABABU P.

पन पहारक्षक (ची. एवड एस.)। DOMPAS) इन्द्रोपीसी सिर्विटेड / NTPC Limited वही वरिवातु कोयला खनन परिवोधना / CBCMP हजारीवान । Hazaribag

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











2102 2024

Authorized Signatory





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994824000000259F			
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Discipline	Chemical		
		Group	Water & Residues in Water		
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines		
	P.S Keredari, District- Hazaribagh State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)		
Date of Sampling	17.02.2024	Sample Collected By	Md. Razaur Rahman		
Date of Sample Receiving	17.02.2024	Sampling Plan	SCECPL/SOP/WA/01		
Type of Sample	Water	Sample Condition	Sealed & Preserved		
		Sampling Method	IS 17614 (Part 1): 2021		
Sample Details	Surface Water (Barki River)	Sample Drawn By	Sabz Care Lab		
Sample ID	SCECPL/TR/24/50/WT-29/01-02	Location: SW1: Upstream of Barki River near Kishunpur (Coordinate: 23°55'8.20"N to 85°1'51.15"E SW2: Downstream of Barki River near Pachanra (Coordinate: 23°53'52.38"N to 85°1'17.38"			
Period of Analysis	17.02.2024 to 20.02.2024	Report Release Date 21.02,2024			
Meteorological Information	Ambient Temperature : 24.0°C, Barometric Press Weather Condition - Sunny	are : 1014 mBar, Relativ	e Humidity : 22%,		

TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
1	pH@25°C	-	IS:3025 P- 11	4.0	6.77	6.98	6.0 to 9.0
2	Electrical Conductivity	μS/cm	IS:3025 P- 14	5.0	182.3	117.1	Not specified
3	Total Suspended Solids	mg/L	APHA 2540 D 23 rd Ed.	2.0	3.44	2.07	Not specified
4	Chemical Oxygen Demand (COD)	mg/L	APHA 5220 B 23 rd Ed	5.0	41.3	44.7	Not specified
5	Biological Oxygen Demand (BOD) for 3 days @ 27°C	mg/L	IS:3025 P- 44	2.0	3.0	3.0	3
6	Oil & Grease	mg/L	APHA 5520 B 23 rd Ed	3.0	9.30	10.40	Not specified
7	Total Alkalinity as CaCO ₃	mg/L	IS:3025 P- 23	0.5	64.3	88.2	Not specified
8	Calcium as Ca	mg/L	IS:3025 P- 40	1.0	34.68	38.76	Not specified
9	Magnesium as Mg	mg/L	IS:3025 P- 46	1.0	23.13	20.60	Not specified
10	Chloride	mg/L	IS:3025 P- 32	1.0	29.3	26.9	600

वराबाबू पी. I VARABABU P.

प्रा प्राथमिक (थी. एवड एस.)। DGM(P&S) Preferent Soller | NTPC Limited

वर्ष वरिवाद कोवता वन् स्टिप्टिंग (CBCMP) (CBC Contact: 09334315731, 07563048389, e-mail: scecplmdp@gmail.com











Quanty Vianager

(Pivush Ranjan)





TEST REPORT

ULR No. TC994824000000259F

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
11	Fluoride	mg/L	IS:3025 P- 60	0.05	0.55	0.62	1.5
12	Sulphate	mg/L	IS:3025 P- 24	1.0	43.4	39.9	400
13	Nitrate	mg/L	IS:3025 P- 34	0.1	8.3	7.9	50
14	Phosphate	mg/L	IS:3025 P- 31	0.1	0.79	0.68	Not specified
15	Arsenic	mg/L	IS:3025 P- 37	0.05	BDL	BDL	0.2
16	Total Chromium as Cr	mg/L	IS:3025 P- 52 i	0.03	BDL	BDL	0.05
17	Copper as Cu	mg/L	1S:3025 P- 42 a	0.03	0.20	0.23	1.5
18	Iron as Fe	mg/L	IS:3025 P- 53 a	0.075	BDL	BDL	50
19	Manganese as Mn	mg/L	IS:3025 P- 59 b	0.01	0.074	0.081	Not specified
20	Nickel as Ni	mg/L	IS:3025 P- 54 a	0.03	0.039	0.044	Not specified
21	Lead as Pb	mg/L	1S:3025 P- 47 iv	0.03	BDL	BDL	0.1
22	Zinc	mg/L	IS:3025 P- 49 i	0.02	BDL	BDL	15

*** END OF REPORT ***

Note-

- BDL= Below Detection Limit
- 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.

यराबाबू पी. / VARABABU P. इस महासंबंध (शे. एवड एस.) / DOM(PAS)

कर महाज्यक (पा. एक एस.)। bum(न्का) इन्द्रीपीटी जिनिदेड/ NTPC Limited चड्डी वरिवाद कोवला खनन परियोजना/ CBCMP इज्लिचन। Hazaribag Quality (Vanager (Pigns) Ranjan)

athorized Signatory

Page 2 of 2

















TEST REPORT

Unique Lab Report N	o. (ULR No.)	TC994824000000347F		
Name of Customer	Chatti Bariatu Coal Mining Project,	Discipline	Chemical	
	NTPC Ltd.	Group	Water & Residues in Water	
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines	
	P.SKeredari, District-Hazaribagh State- Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date 02.05.2023)	
Date of Sampling	13.03.2024	Sample Collected by	Md. Razaur Rahman	
Date of Sample Receiving	13.03.2024	Sampling Plan	SCECPL/SOP/WA/01	
Type of Sample	Water	Sample Condition	Sealed & Preserved	
		Sampling Method	IS 17614 (Part 1): 2021	
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/24/80/WT-36/01-05	GW2: Keredari Village: - 2 GW3: Chatti Bariatu Villag GW4: Kabed Village: - 23°	23°54'58.78"N to 85°01'0.19"E 3°51'34.99"N to 85°05'14.39"E ge: - 23°53'18.32"N to 85°04'16.70"E 53'27.75"N to 85°05'20.06"E 3'28.16"N to 85°04'57.53"E	
Period of Analysis	13.03.2024 to 16.03.2024	Report Release Date	16.03.2024	
Meteorological Information	Average Ambient Temperature : 25.5 Relative Humidity : 61%, Weather C		4 mBar	

TEST REPORT

S.N.	Parameter	Unit	Juit Test Minimum Result Method Detection Limit				(Accept Limit) a IS 10500				Permissible Limit in the absence of Alternate Source as per IS 10500: 2012
					GW1	GW2	GW3	GW4	GW5		
1.	pH @ 25°C	-	IS:3025 P- 11	4.0	7.45	7.85	6.82	7.22	7.98	6.5 to 8.5	6.5 to 8.5
2.	Electrical Conductivity	μS/cm	IS:3025 P- 14	5.0	498.5	1531.0	890.2	276.7	590.1	Not specified	Not specified
3.	Turbidity	NTU	IS:3025 P- 10	0.1	1.7	0.5	2.5	0.2	0.3	1	5
4.	Odour		IS:3025 P- 5	Qualitative	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5.	Total Dissolved Solids	mg/L	IS:3025 P- 16	2.0	328.0	872.0	543.0	166.0	385.0	500	2000
6.	Total Alkalinity	mg/L	18:3025 P- 23	0.5	241.82	223.74	193.23	100.57	85.88	200	600
7.	Total Hardness as CaCO ₂	mg/L	IS:3025 P- 21	1.0	287.64	208.08	165.24	106.08	359.04	200	600

वराबाबू पी. / VARABABU P. का पहारबंधक (थी. एवड एस.)। DOM(PAS) इन्द्रीपीली जिलिटेड। NTPC Limited

Page 1 of 2

वही वरिवाद कोवता-वनन-परिवोजना / CBCMP वही वरिवाद कोवता-वनन-परिवोजना / CBCMP इस्रादेशाय / मिळ्जुनीडेस्टेन्टर Office : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand) Contact: 09334315731, 07563048389, e-mail: scecplmdp@gmail.com











Authorized Signatory

Quality Manager

(Piyush Ranjan)

03/2024





TEST REPORT

ULR No.: TC994824000000347F

S.N.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L			Result			Requirements (Acceptable Limit) as per 4S 10500: 2012	Permissible Limit in the absence of Alternate Source as per IS 10500: 2012
					GWI	GW2	GW3	GW4	GW5		
8.	Calcium as Ca	mg/L	IS:3025 P- 40	1.0	57.12	46.92	48.96	22.44	65.28	75	200
9.	Magnesium as Mg	mg/L	IS:3025 P- 46	1.0	22.64	23.57	21.42	19.18	26.05	30	100
10.	Chloride as Cl	mg/L	IS:3025 P- 32	1.0	26.8	164.3	144.27	22.78	35.73	250	1000
11.	Fluoride as F	mg/L	1S:3025 P-60	0.05	0.21	0.18	0.23	0.20	0.24	1.0	1.5
12.	Sulphate	mg/L	IS:3025 P- 24	1.0	40.3	34.1	37.3	33.1	35.2	200	200
13.	Nitrate	mg/L	IS:3025 P- 34	0.1	11.3	12.2	9.9	10.6	11.9	45	45
14.	Phosphate	mg/L	IS:3025 P- 31	0.1	BDL	BDL	BDL	BDL	BDL	Not specified	Not specified
15.	Arsenic	mg/L	IS:3025 P- 37	0.05	BDL	BDL	BDL	BDL	BDI.	0.01	0.01
16.	Total Chromium as Cr	mg/L	IS:3025 P- 52 i	0.03	BDL	BDL	0.039	0.033	0.034	0.05	0.05
17.	Copper as Cu	mg/L	IS:3025 P- 42 a	0.03	BDL	BDL	BDL	BDL	BDL	0.05	1.5
18.	Iron as Fe	mg/L	IS:3025 P- 53 a	0.075	0.092	BDL	BDL	BDL	BDL	1.0	1.0
19.	Manganese as Mn	mg/L	IS:3025 P- 59 b	0.01	BDL	BDL	BDL	BDL	BDL	0.1	0.3
20.	Nickel	mg/L	1S:3025 P- 54 u	0.03	BDL	BDL	BDI.	BDL	BDL	0.02	0.02
21.	Lead	mg/L	15:3025 P- 47 iv	0.03	BDL.	BDL	BDL	BDL	BDL	0.01	0.01
22.	Zine	mg/L	1S:3025 P- 49 i	0.02	BDL	BDL	BDL	BDL	BDL	5	15

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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.

वराबाबू पी. I VARABABU P.

प्टा महात्रकाम (थी. एवड एस.)। DOM(PAS) हमरोपीशी शिर्मिटेड/ NTPC Limited वडी बरियानु कोयला खनन परियोजना। CBCMP हवारियान । Hazaribag

Page 2 of 2

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

















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project,	Discipline	Chemical			
	NTPC Ltd.	Group	Water & Residues in Water			
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines			
	P.SKeredari, District-Hazaribagh State- Jharkhand. Work Order No.		CBCMPL/WO/23-24/018 (Date 02.05.2023)			
Date of Sampling	13.03.2024	Sample Collected by	Md. Razaur Rahman			
Date of Sample Receiving	13.03,2024	Sampling Plan	SCECPL/SOP/WA/01			
Type of Sample	Water	Sample Condition	Sealed & Preserved			
2000		Sampling Method	IS 17614 (Part 1): 2021			
Sample Details	Ground Water	Sample Drawn By	Sabz Care Lab			
Sample ID	SCECPL/TR/24/80/WT-36/01-05	Location With Coordinate- GW1: Kishunpur Village: - 23°54′58.78″N to 85°01′0.19″E GW2: Keredari Village: - 23°51′34.99″N to 85°05′14.39″E GW3: Chatti Bariatu Village: - 23°53′18.32″N to 85°04′16.70″I GW4: Kabed Village: - 23°53′27.75″N to 85°05′20.06″E GW5: NTPC Camp: - 23°53′28.16″N to 85°04′57.53″E				
Period of Analysis	13.03.2024 to 16.03.2024	Report Release Date	16.03.2024			
Meteorological Information	Average Ambient Temperature : 25.5 Relative Humidity : 61%, Weather C		4 mBar			

TEST REPORT

S.N.	Parameter	Parameter	Unit	Test Method	Minimum Detection			Result			Requirements (Acceptable
				Limit	GWI	GW2	GW3	GW4	GW5	Limit) as per 1S 10500: 2012	
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified	
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	BDL	BDL	BDL	Not specified	
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL	BDL	BDL	BDL	BDL	0.7	
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	BDL	BDL	BDL	0.003	
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	BDL	BDL	BDL	Not specified	
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	BDL	BDL	BDL	0.001	

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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.

वराबाबू पी. / VARABABU P.

प्रः पहार्थक्य (पी. एव्ट एस.)। DGM(PAS) हन्द्रीपीली क्रिक्टेड I NTPC Limited वही वरिवाद कोवला खनन परियोजना CBCMP हजारीबान I Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)

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















TEST REPORT

Unique Lab Report	No. (ULR No.)	TC99482400000348F				
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Discipline	Chemical			
	F (6) (1)	Group	Water & Residues in Water			
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines			
	P.S Keredari, District- Hazaribagh State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)			
Date of Sampling	13.03.2024	Sample Collected By	Md. Razaur Rahman			
Date of Sample Receiving	,				SCECPL/SOP/WA/01	
Type of Sample	Water	Sample Condition	Sealed & Preserved			
		Sampling Method	IS 17614 (Part 1): 2021			
Sample Details	Surface Water (Barki River)	Sample Drawn By	Sabz Care Lab			
Sample ID	SCECPL/TR/24/80/WT-37/01-02	Location: SW1: Upstream of Barki River near Kishunpur (Coordinate: 23°55'18.44"N to 85°1'56.84"I SW2: Downstream of Barki River near Pachanra (Coordinate: 23°53'52.38"N to 85°1'17.38"I				
Period of Analysis	13.03.2024 to 16.03.2024	Report Release Date	16.03.2024			
Meteorological Information	Average Ambient Temperature : 25.5°C, Barome Relative Humidity : 61%, Weather Condition - C					

TEST REPORT

			JEST RE	LOKI			
SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Leve
1	pH@25°C		IS:3025 P- 11	4.0	8.05	8.08	6.0 to 9.0
2	Electrical Conductivity	μS/cm	IS:3025 P- 14	5.0	419.8	331.1	Not specified
3	Total Suspended Solids	mg/L	APHA 2540 D 23 rd Ed.	2.0	5.4	3.9	Not specified
4	Chemical Oxygen Demand (COD)	mg/L	APHA 5220 B 23 rd Ed	5,0	47.9	51.3	Not specified
5	Biological Oxygen Demand (BOD) for 3 days @ 27°C	mg/L	IS:3025 P- 44	2.0	3.0	4.0	3
6	Oil & Grease	mg/L	APHA 5520 B 23 rd Ed	3.0	10.9	12.4	Not specified
7	Total Alkalinity as CaCO ₁	mg/L	IS:3025 P- 23	0.5	179.67	136.73	Not specified
8	Calcium as Ca	mg/L	IS:3025 P- 40	1.0	87.72	61.20	Not specified
9	Magnesium as Mg	mg/L	IS:3025 P-46	1.0	26.0	24.20	Not specified
10	Chloride	mg/L	IS:3025 P- 32	1.0	16.52	22.7	600

16/03/2024

yysh

Authorized Signatory

Registered Diller : Name (10. / VARABABU P. (Piyush Ranjan)

Registered Diller : Name (10. / Varababu P. (Piyush Ranjan)

Registered Diller : Name (10. / Varababu P. (Piyush Ranjan)

Registered Diller : Name (10. / Varababu P. (Piyush Ranjan)

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















TEST REPORT

ULR No. TC994824000000348F

SL No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
11	Fluoride	mg/L	IS:3025 P- 60	0.05	0.59	0.66	1.5
12	Sulphate	mg/L	IS:3025 P- 24	1.0	38.3	34.3	400
13	Nitrate	mg/L	IS:3025 P- 34	0.1	9.2	8.7	50
14	Phosphate	mg/L	IS:3025 P- 31	0.1	0.72	0.69	Not specified
15	Arsenic	mg/L	IS:3025 P- 37	0.05	BDL	BDL	0.2
16	Total Chromium as Cr	mg/L	IS:3025 P- 52 i	0.03	BDL	BDL	0.05
17	Copper as Cu	mg/L	18:3025 P- 42 a	0.03	0.17	0.19	1.5
18	Iron as Fe	mg/L	IS:3025 P- 53 a	0.075	BDL	BDL	50
19	Manganese as Mn	mg/L	IS:3025 P- 59 b	0.01	BDL	0.01	Not specified
20	Nickel as Ni	mg/L	IS:3025 P- 54 a	0.03	0.033	0.041	Not specified
21	Lead as Pb	mg/L	IS:3025 P- 47 iv	0.03	BDL	BDL	0.1
22	Zinc	mg/L	IS:3025 P- 49 i	0.02	BDL	BDL	15

*** END OF REPORT ***

Note-

- BDL= Below Detection Limit
- 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.

वराबाबू पी. / VARABABU P.

पण महाशंकात (पी. एवड एस.)। DOM(PAS) हन्द्रीपीशी शितिकेड / NTPC Limited वडी वरिवातु कोवला खनन परिवोधना / CBCMP हजारीवान । Hazaribag Authorized Signatory

Quality Manager (Piyush Ranjan)

Page 2 of 2

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

















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Discipline	Chemical	
	TO SCHOOL SERVICE VIOLENCE CONTROL CON	Group	Water & Residues in Water	
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines	
	P.S Keredari, District- Hazaribagh State-Jharkhand.	Work Order No.	CBCMPL/WO/23-24/018 (Date- 02.05.2023)	
Date of Sampling	13.03.2024	Sample Collected By	Md. Razaur Rahman	
Date of Sample Receiving	13.03.2024 Sampling Plan		SCECPL/SOP/WA/01	
Type of Sample	Water	Sample Condition	Sealed & Preserved	
		Sampling Method	IS 17614 (Part 1): 2021	
Sample Details	Surface Water (Barki River)	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/24/80/WT-37/01-02	(Coordinate : 23° SW2 : Downstream of E	ki River near Kishunpur 55'18.44"N to 85°1'56.84"E) Barki River near Pachanra 53'41.36"N to 85°1'51.65"E)	
Period of Analysis	13.03.2024 to 16.03.2024	Report Release Date	16.03.2024	
Meteorological Information	Average Ambient Temperature : 25.5°C, Baromo Relative Humidity : 61%, Weather Condition - C			

TEST REPORT

SI. No.	Parameter	Unit	Test Method	Minimum Detection Limit in mg/L	Result Upstream (SW1)	Result Downstream (SW2)	IS:2296 Inland Surface Water (1982) Class 'C' Prescribed Level
1	Sodium	mg/L	APHA 3500 Na B	1.0	BDL	BDL	Not specified
2	Potassium	mg/L	APHA 3500 K B	1.0	BDL	BDL	Not specified
3	Barium	mg/L	APHA 3500 Ba	1.0	BDL	BDL	Not specified
4	Cadmium	mg/L	APHA 3500Cd D	0.0005	BDL	BDL	0.01
5	Cobalt	mg/L	APHA 3500 Co	1.0	BDL	BDL	Not specified
6	Mercury	mg/L	APHA 3500 Hg	0.0003	BDL	BDL	Not specified

*** END OF REPORT ***

Note-

BDL= Below Detection Limit

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.

वराबाबू पी. / VARABABU P.

प्त प्रकारकार (थी. एवड एस.)। DGM(P&S) हमरोपीशी शिर्मिटेश/ NTPC Limited वडी वरियातु कोवला खनन परियोजना। CBCMP हवादेवाग । Hazaribag

Authorized Signatory

Quality Manager

(Piyush Ranjan)

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



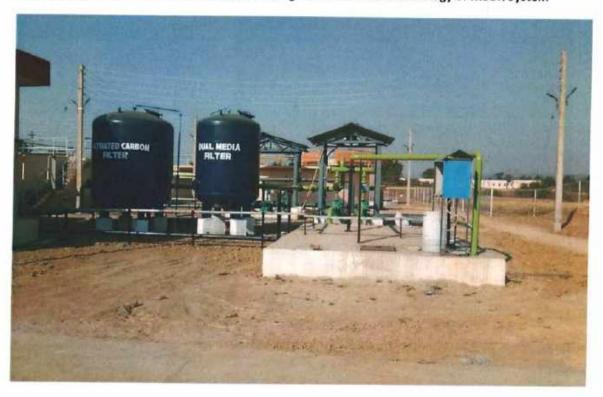








Photograph# 1.5 MLD STP for treatment of Sewage with the latest technology of MBBR System





वराबाबू पी. / VARABABU P.
पन पहार्थका (थे. एवड एस.) / DOM(Pas)
हन्दीपीली क्रिक्टेड / NTPC Limited
क्षी वरिवानु कोवला जनन परिकेच्य / CBCMP





दराबाबू पी. / VARABABU P. प्रम महाशंकक (थी. एवड एस.) (DOM(Pas) हन्द्रोपीली जिमिटेड/ NTPC Limited यही वरिवादु कोवता खनन परियोजना CBCMP हजारीबान । Hazaribag





वराबाबू पी. / VARABABU P. जा महाश्रकात (थी. एवड एस.) (DOM(PAS) इन्होंपीली जिलिहेड/ NTPC Limited वही वरिवाद कोवला खनन परियोजना / CBCMP हजारीबाग / Hazaribag





दराबाबू पी. / VARABABU P. प्रम प्रसारक्षक (पी. एवड एस.) DOM(Pas) इन्टोपीली जिलिटेड/ NTPC Limited वही वरिवादु कोवता सन्त परियोज्य। CBCMP इजारिवाप / Hazaribag

	Environmental Expenditure for the FY (April-2023 to Mar	ch-2024)	
SI NO	Purpose of Expense	Amount (in Rs.)	
(A) For	Dump Slope Stabilization		
1	Retaining Wall, Garland Drain, Settling Pit and its Maintenance		
2	Dozer Operator Salary, HSD Cost and its Maintenance	15607500.00	
(B) For	Dust Suppression		
1	Water tanker and its maintenance	3780300.00	
(C) Env	rironmental Monitoring		
1	Annual Maintenance Contract of Instruments		
2	Environmental Monitoring (AAQ, Water, Noise etc.)	1862700.00	
(D) Plai	ntation and its maintenance charge	2510700.00	
(E) Env	ironment Staff Salary	360000.00	
(F) Scie	2360000.00		
	26481200.00		

Catal U. Singh

वराबावू पी. / VARABABU P. क्व च्हार्थक (थे. एक एव.) / DOMPAS) हन्दीपीली क्षिक्टेंड / NTPC Limited च्ही वरिवातु कोयता सनन परियोजना / CBCMP हजारीबार / Hazaribag







TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001642F		
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar Work Order No. P.SKeredari, District-Hazaribagh, Jharkhand		CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	12.10.2023 to 13.10.2023	Sample Collected by	Ranjeet Yadav &Team	
Sample Receiving Date	14.10.2023	Sample Condition Sampling Plan	Sealed and Preserved SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC			
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/321/AA-304/01, 02 & 03	Type of Sample	Suspended Dust and Gases	
Period of Analysis	14.10.2023 to 16.10.2023	Report Release Date	19.10.2023	
Meteorological Information	Average Ambient Temperature : 30.0°C, Barome Relative Humidity : 61%, Weather Condition - C		Bar	

A. GENERAL INFORMATION

Location of Sampling:

Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Specifications as per CPCB
1.	Particulate Matter as PM _{1.5}	μg/m³	IS 5182 (Part 24)	59.76	57.35	44.83	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m ³	IS 5182 (Part 23)	95.24	93.68	87.41	100 (μg/m³)
3.	Sulphur Dioxide as SO2	μg/m³	IS 5182(Part 2)	38.54	34.17	31,55	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	41.43	39.68	35.37	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.

वराबाबू पी. / VARABABU P. क्षा महात्रकंतम (थी. एवड एस.)। DOM(P&S)

लाटोपीशी शिवीदेश/ NTPC Limited वडी बरिवानु कोयला खनन परिवोजना/ CBCMP हवारीयाग । Hazaribag

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









Authorized Signatory

Quality Manager

(Piyush Ranjan)









TEST REPORT

Unique Lab Report	No. (ULR No.)	TC9948230000016431	7
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	13.10.2023 to 14.10.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	14.10.2023	Sample Condition	Sealed and Preserved
Date	12.112.112.11	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/321/AA-305/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	14.10.2023 to 16.10.2023	Report Release Date	19.10.2023
Meteorological Information	Average Ambient Temperature: 30.0°C, Barom Relative Humidity: 61%, Weather Condition - 0	etric Pressure :1016 ml Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	RESULTS (Location-6)	Requirements/ Specifications as per CPCB
1	Particulate Matter as PM _{2.5}	µg/m³	IS 5182 (Part 24)	50.71	40.15	39.53	60 (μg/m³)
2	Particulate Matter as PM ₁₀	μg/m ³	IS 5182 (Part 23)	91.45	76.82	83.25	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	35.42	28.38	30.47	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m ³	IS 5182(Part 6)	37.52	31.47	33.61	80 (μg/m³)

*** 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.

वराबाबू पी. / VARABABU P.

पन महाशंका (थी. एवड एस.)। DOM(PAS) एनटीपीटरी मिनिप्टेड! NTPC Limited यही वरिवानु कोवला खनन परियोजना I CBCMP प्रवाधियान । Hazaribag

Quality Manager (Piyush Ranjan)

Authorized Signatory













TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001644F		
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	13.10.2023 to 14.10.2023	Sample Collected by	Ranjeet Yadav &Team	
Sample Receiving	14.10,2023	Sample Condition	Sealed and Preserved	
Date		Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/321/AA-306-01 & 02	Type of Sample	Suspended Dust and Gases	
Period of Analysis	14.10.2023 to 16.10.2023	Report Release Date	19.10.2023	
Meteorological Information	Average Ambient Temperature : 30.0°C, Baroma Relative Humidity : 61%, Weather Condition - C		Sar	

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates-23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Spe cifications as per CPCB
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	33.89	32.18	60 (μg/m³)
2.	Particulate Matter as PM10	μg/m³	IS 5182 (Part 23)	75.67	73.29	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	25.52	27.34	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	27.36	30.68	80 (μg/m³)

*** 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.

वराबाबू पी. I VARABABU P. प्रशासकात (श्री. तंतर दंस')। DOM(PAS) हन्द्रीवीशी शिवीदेश NTPC Limited

वडी बरिवानु कोयला खनन परिवोजना। CBCMP हजादेवान / Hazaribag

Authorized Signatory

Quality Manager

(Piyush Ranjan)













Sabz Care Environmental Cosultancy Pvt Ltd.

TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical		
Date of Sampling	12.10.2023 to 13.10.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	14.10.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/321/AA-304/04, 05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	14.10.2023	Report Release Date	19.10.2023
Meteorological Information	Average Ambient Temperature : 30.0°C, Baromo Relative Humidity : 61%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E)

Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. 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/m³	IS 5182(Part 10)	0.52	0.50	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.

वराबाबू पी. / VARABABU P.

प्य महाज्याक (पी. एवड एस.) I DOM(PAS) इन्द्रीपीली जिपमेटेड / NTPC Limited वडी वरिवातु कोवला खन्न परियोजना I CBCMP हजारीबाग I Hazaribag **Authorized Signatory**

Quality Manager

(Piyush Ranjan)













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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	13.10.2023 to 14.10.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	14.10.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/321/AA-305/04,05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	14.10.2023	Report Release Date	19.10.2023
Meteorological Information	Average Ambient Temperature: 30.0°C, Baromo Relative Humidity: 61%, Weather Condition - C	etric Pressure :1016 ml	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. 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)	0.43	0.34	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.

Authorized Signatory

Quality Manager (Piyush Ranjan)

वराबाबू पी. / VARABABU P.

च्य पहारबंधक (पी. एण्ड एस.)। DOM(PAS) इन्द्रीपीली क्रिकेटेड/ NTPC Limited वडी वरिवाद कोवला खनन परिवोजना/ CBCMP हजारीबाग / Hazaribag













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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhaud	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	13.10.2023 to 14.10.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	14.10.2023	Sample Condition	Sealed and Preserved
Date	14.10.2023	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC)M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/321/AA-306-03 & 04	Type of Sample	Suspended Dust and Gases
Period of Analysis	14.10.2023	Report Release Date	
Meteorological Information	Average Ambient Temperature : 30.0°C, Barom Relative Humidity : 61%, Weather Condition - 6	etric Pressure :1016 m Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)		Requirements/Special cations as per CPCF
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.29	0.31	2 (mg/m³)

*** END OF REPORT ***

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

वराबाबू पी. I VARABABU P.

क्षा महाप्रकंतक (थी. एवड एस.)। DGM(P&S) लारोपीशी शिवीदेश NTPC Limited चड्डी बरियानु कोयला खनन परियोजना / CBCMP हजारीयाग । Hazaribag

Authorized Signatory

Quality Manager (Piyush Ranjan)













Z Care Environmental Cosultancy Pvt. Ltd. Lets start thinking about nature for tomorrow

TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical		
Date of Sampling	12.10.2023 to 13.10.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	14.10.2023	Sample Condition	Sealed and Preserved
Date	##100 ##100 ##100	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ)	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/321/AA-304/07	Type of Sample	Suspended Dust and Gases
Period of Analysis	14.10.2023	Report Release Date	19.10.2023
Meteorological Information	Average Ambient Temperature: 30.0°C, Barome Relative Humidity: 61%, Weather Condition - C		

A. GENERAL INFORMATION

Location of Sampling: Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS	Requirements/ Specifications
1	Arsenic as As	ng/m³	EPA IO 3.2 1999/APHA 23 rd Edition 3114 C	BDL (MDL=0.30)	06 (NAAQS)
2	Mercury as Hg ng/m³		EPA IO 3.2 1999/APHA 23 rd Edition 3114 C	BDL (MDL=20)	100000 (NIOSH)
3	3 Nickel as Ni ng/m³		EPA IO 3.2 1999/APHA 23 rd Edition 3114 C	BDL (MDL=0.02)	20 (NAAQS)
4	4 Cadmium as Cd ng/m³		EPA IO 3.2 1999/APHA 23 rd Edition 3114 C	(BDL=0.02)	5000 (OHSAS)
5	Chromium as Cr	ng/m³	EPA IO 3.2 1999/APHA 23 rd Edition 3114 C	BDL (MDL=0.01)	50000 (NIOSH 7300)

BDL= Below Detection Limit & MDL= Minimum Detection Limit

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

प्टा पहारबंधक (थी. एवड एस.)। DGM(P&S) eschilell fidics/ NTPC Limited

Authorized Signatory

Quality Manager (Piyush Ranjan)

Registered Office : Aarti Bhawan, Bawan क्रिक्ट क्रिक क्रिक्ट क्रिक क्रिक्ट क्रिक क्रिक्ट क्रिक्ट क्रिक्ट क्रिक्ट क्रिक्ट क्रिक क Contact: 09334315731, 07563048389, e-mail: scecpimdp@gmail.com













TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001743F		
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	27.10.2023 to 28.10.2023	Sample Collected by	Anup Dutta & Team	
Sample Receiving	30.10.2023	Sample Condition	Sealed and Preserved	
Date	D. I. U.M. G. W.	Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/336/AA-317/01, 02 & 03	Type of Sample	Suspended Dust and Gases	
Period of Analysis	30.10.2023 to 31.10.2023	Report Release Date	01.11.2023	
Meteorological Information	Average Ambient Temperature : 25.5°C, Barom Relative Humidity : 60%, Weather Condition - 6	etric Pressure :1018 ml Clear	Bar	

A. GENERAL INFORMATION

Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E) **Location of Sampling:**

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E)

Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. 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/m³	IS 5182 (Part 24)	58.41	56.87	46.10	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m ³	IS 5182 (Part 23)	94.29	91.53	89.76	100 (μg/m³)
2.		μg/m ³	IS 5182(Part 2)	39.58	36.72	35.16	80 (μg/m³)
3.	Sulphur Dioxide as SO ₂ Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	42.41	40.65	37.52	80 (μg/m³)

*** 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.

वराबाबू पी. / VARABABU P.

का महाप्रवेदक (थी, एवड एस.)। DGM(P&S) लारोपीशी शिवीदेश NTPC Limited षड्डी बरिवातु कोवला खनन परियोजना*।* CBCMP हजारीबाग । Hazaribag

Authorized Signatory

Quality Manager (Pivush Ranjan)













TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001744	P.
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.10.2023 to 29.10.2023	Sample Collected by	Anup Dutta &Team
Sample Receiving	30.10.2023	Sample Condition	Sealed and Preserved
Date	Marine Longh II M. 1971 LONGH	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	- Committee of the Comm	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/336/AA-318/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	30.10.2023 to 31.10.2023	Report Release Date	01.11.2023
Meteorological Information	Average Ambient Temperature : 25.5°C, Baromo Relative Humidity : 60%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	RESULTS (Location-6)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	51.10	42.54	40.16	60 (μg/m³)
2.	Particulate Matter as PM10	μg/m³	IS 5182 (Part 23)	90.58	79.81	86.31	100 (µg/m³)
3.	Sulphur Dioxide as SO ₂	µg/m³	IS 5182(Part 2)	36.46	30.47	32.57	80 (µg/m³)
4.	Nitrogen Dioxide as NO2	μg/m³	IS 5182(Part 6)	39.48	32.44	34.59	80 (μg/m³)

*** 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)

वराबाबू पी. / VARABABU P. प्त महात्रवंशक (थी. एवड एस.)। DOM(P&S) लारोपीशी शिवीदेश NTPC Limited वडी बरिवानु कोवला खनन परिवोजना/ CBCMP

समारियाग । Hazaribag













TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001745F		
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	28.10.2023 to 29.10.2023	Sample Collected by	Anup Dutta & Team	
Sample Receiving	30.10.2023	Sample Condition	Sealed and Preserved	
Date	30.10.2020	Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/336/AA-319-01 & 02	Type of Sample	Suspended Dust and Gases	
Period of Analysis	30.10.2023 to 31.10.2023	Report Release Date	01.11.2023	
Meteorological Information	Average Ambient Temperature : 25.5°C, Barom Relative Humidity : 60%, Weather Condition - 6	etric Pressure :1018 ml Clear	Bar	

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Spe cifications as per CPCB
1	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	34.64	33.14	60 (μg/m³)
2	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	77.66	74.41	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	27.34	29.43	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	µg/m³	IS 5182(Part 6)	29.71	31.66	80 (μg/m³)

*** 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**

वराबाबू पी. / VARABABU P.

पूर प्रशासका (थी. एवड एस.)। DGM(PAS) हमरोपीशी शिर्मिटेश NTPC Limited वडी बरियानु कोयता खनन परियोजना / CBCMP हजारीयाग । Hazaribag

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









Quality Manager

(Piyush Ranjan)





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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	27.10.2023 to 28.10.2023	Sample Collected by	Anup Dutta &Team
Sample Receiving	30.10.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/336/AA-317/04, 05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	30.10.2023	Report Release Date	01.11.2023
Meteorological Information	Average Ambient Temperature : 25.5°C, Barome Relative Humidity : 60%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	College State Stat	RESULTS (Location-2)	RESULTS (Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.51	0.48	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.

Authorized Signatory

Quality Manager (Piyush Ranjan)

> एवं मध्यम उद्यम MEL-UMENTERPRISE :

वराबाबू पी. / VARABABU P.

एन पहास्थ्रक (ची, एवड एस.)। DOM(P&S) एनटोपीसी स्थिनेटेड! NTPC Limited यही परिवाद कोवला जनन परिवोधना। CBCMP हजारीबाग । Hazaribag







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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.10.2023 to 29.10.2023	Sample Collected by	Anup Dutta & Team
Sample Receiving	30.10.2023	Sample Condition	Sealed and Preserved
Date	50.10.2020	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/336/AA-318/04,05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	30.10.2023	Report Release Date	
Meteorological Information	Average Ambient Temperature : 25.5°C, Barom Relative Humidity : 60%, Weather Condition - 6	etric Pressure :1018 ml Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	(Location-1)	RESULTS (Location-2)	BARRIO D. M. A.	Requirements Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.44	0.33	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.

वराबाबू पी. / VARABABU P.

पर पहारक्षक (पी. एवड एस.)। DOM(PAS) इन्द्रीपीटी जिनिन्देड / NTPC Limited कड़ी वरिवाद कोवला खनन परियोजना / CBCMP हजारियान । Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)













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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.10.2023 to 29.10.2023	Sample Collected by	Anup Dutta & Team
Sample Receiving	30.10.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/336/AA-319-03 & 04	Type of Sample	Suspended Dust and Gases
Period of Analysis	30.10.2023	Report Release Date	01.11.2023
Meteorological Information	Average Ambient Temperature : 25.5°C, Barome Relative Humidity : 60%, Weather Condition - C	tric Pressure :1018 mI	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.30	0.33	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.

वराबाबू पी. / VARABABU P.

ज्य महासंबंधक (पी. एवड एस.)। DGM(PAS) इन्द्रोपीशी जिनिदेडं। NTPC Limited बड़ी बरिवातुं कोवला खनन परियोजना। CBCMP हजारीबान । Hazaribag Authorized Signatory

Quality Manager (Piyush Ranjan)













TEST REPORT

Unique Lab Report	No. (ULR No.)	TC9948230000017801	F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	09.11.2023 to 10.11.2023	Sample Collected by	Anup Dutta & Team	
Sample Receiving	11.11.2023	Sample Condition	Sealed and Preserved	
Date		Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/346/AA-327/01, 02 & 03	Type of Sample	Suspended Dust and Gases	
Period of Analysis	11.11.2023 to 13.11.2023	Report Release Date	16.11.2023	
Meteorological Information	Average Ambient Temperature : 25.0°C, Barom Relative Humidity : 59%, Weather Condition - 0	etric Pressure :1018 ml Clear	Bar	

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	(Location-3)	Requirements/ Specifications as per CPCB
1	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	57.69	58.36	48.78	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	92.46	94.65	90.25	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m ³	IS 5182(Part 2)	40.62	37.50	36.46	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	43.39	41.43	38.50	80 (μg/m³)

*** 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.

वराबाबू पी. / VARABABU P.

प्ता प्रशासकाक (थी. एवड एस.)। DOM(PAS) हमरोपीशी शिर्मिटेश/ NTPC Limited वडी वरिवातु कोवला खनन परिवोजना। CBCMP ह्याचिमाग । Hazaribag

Authorized Signatory

Quality Manager (Piyush Ranjan)













TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC9948230000017811	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	10.11.2023 to 11.11.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving Date	11.11.2023	Sample Condition Sampling Plan	Sealed and Preserved SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/346/AA-328/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	11.11.2023 to 13.11.2023	Report Release Date	16.11.2023
Meteorological Information	Average Ambient Temperature: 25.0°C, Barome Relative Humidity: 59%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	RESULTS (Location-6)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	50.39	44.46	42.16	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	91.27	83.51	81.73	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	35.68	32,55	34.38	80 (μg/m³)
4.	Nitrogen Dioxide as NO2	μg/m³	IS 5182(Part 6)	36.73	35.76	36.35	80 (μg/m³)

*** 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.

वराबाबू पी. / VARABABU P.

प्रत्य प्रमाणकारण (थी. एण्ड एस.)। DOM(PAS) इन्न्टोपीली क्रिकिटेड/ NTPC Limited पड़ी वरियातु कोयला खनन परियोजना/ CBCMP इजारीबान / Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)













TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001782F			
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the	Coal Mines		
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023		
Discipline	Chemical	Group	Atmospheric Pollution		
Date of Sampling	10.11.2023 to 11.11.2023	Sample Collected by	Ranjeet Yadav &Team		
Sample Receiving	11.11.2023	Sample Condition	Sealed and Preserved		
Date	11.11.2020	Sampling Plan	SCECPL/SOP/AA/01		
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)			
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab		
Sample ID	SCECPL/TR/23/346/AA-329-01 & 02	Type of Sample	Suspended Dust and Gases		
Period of Analysis	11.11.2023 to 13.11.2023	Report Release Date	16.11.2023		
Meteorological Information	Average Ambient Temperature : 25.0°C, Barom Relative Humidity : 59%, Weather Condition - 6	etric Pressure :1018 ml Clear	Bar		

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Spe cifications as per CPCB
1	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	36.49	35.74	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	79.63	76.23	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	28.38	30.47	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	31.47	32.64	80 (μg/m³)

*** 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)

वराबाबू पी. / VARABABU P.

प्त महाप्रवेशक (थी. एवड एस.)। DGM(PAS) कृतिपीशी किमिटेड/ NTPC Limited वडी बरियातु कोवला खनन परियोजना / CBCMP हजारीयाग । Hazaribag













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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	09.11.2023 to 10.11.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	11.11.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ		The state of the s
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/346/AA-327/04, 05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	11.11.2023	Report Release Date	16.11.2023
Meteorological Information	Average Ambient Temperature : 25.0°C, Barome Relative Humidity : 59%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		RESULTS (Location-2)	The state of the state of the state of	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.53	0.51	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.

वराबाबू पी. / VARABABU P.

कः महाज्ञंधक (पी. एवड एस.)। DOM(P&S) हन्द्रीपीटी जिनिन्देड / NTPC Limited वही वरिवातु कोयला खनन परियोजना / CBCMP हजारीबान | Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)













Care Environmental Cosultancy Pvt. Ltd. lets start thinking about nature for tomorrow

TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	10.11.2023 to 11.11.2023	Sample Collected by	Ranjeet Yaday & Team
Sample Receiving	11.11.2023	Sample Condition	Sealed and Preserved
Date	***************************************	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC)M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/346/AA-328/04,05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	11.11.2023	Report Release Date	
Meteorological Information	Average Ambient Temperature : 25.0°C, Barom Relative Humidity : 59%, Weather Condition - 6	etric Pressure :1018 m) Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		(Location-2)	(Location-3)	Requirements Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.49	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.

Authorized Signatory

Quality Manage (Pivush Ranjan)

वराबाबू पी. I VARABABU P.

क्ष्य महत्त्ववंक्षक (थी. एवड एस.)। DGM(P&S) कृतिपीशी क्रिकेट NTPC Limited वडी वरिवादु कोवला खनन परिवोजना। CBCMP हवादेवाग । Hazaribag













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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	10.11.2023 to 11.11.2023	Sample Collected by	Ranjeet Yaday & Team
Sample Receiving	11.11.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/346/AA-329-03 & 04	Type of Sample	Suspended Dust and Gases
Period of Analysis	11.11.2023	Report Release Date	16.11.2023
Meteorological Information	Average Ambient Temperature : 25.0°C, Barome Relative Humidity : 59%, Weather Condition - C	etric Pressure :1018 ml	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)		Requirements/Specifi cations as per CPCB
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.35	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.

वराबाबू पी. / VARABABU P.

का पहालंका (ची. एवड एस.)। DOMPAS) एनटीपीली किर्पिटेड! NTPC Limited वही वरिवासु कोवला जनन परियोजना। CBCMP हजारीकान । Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)













TEST REPORT

Unique Lab Report	t No. (ULR No.)	TC9948230000018811	7
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	27.11.2023 to 28.11.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	29.11.2023	Sample Condition	Sealed and Preserved
Date	27.11.2020	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume I' (NAAC	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/354/AA-332/01, 02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	29.11.2023 to 30.11.2023	Report Release Date	
Meteorological Information	Average Ambient Temperature : 24.5°C, Barom Relative Humidity : 61%, Weather Condition - 6	etric Pressure :1019 ml Clear	Bar

A. GENERAL INFORMATION

Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E) Location of Sampling:

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E)

Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. 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)	55.62	57.13	45.07	60 (μg/m³)
2	Particulate Matter as PM ₁₀	μg/m ³	IS 5182 (Part 23)	90.84	92.25	85.28	100 (μg/m³)
2.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	39.58	36.46	34.64	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	41.43	38.30	36.35	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)

वराबाबू पी. I VARABABU P.

प्त महात्रवंशक (थी. एवड एस.)। DOM(P&S) eschilet fluides/ NTPC Limited वडी सरिवातु कोवला खनन परिवोजना / CBCMP हजादेवान । Hazaribag

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









11/2023





TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001882	1
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.11.2023 to 29.11.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving Date	29.11.2023	Sample Condition Sampling Plan	Sealed and Preserved SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	A CONTRACTOR OF THE PROPERTY O	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/354/AA-333/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	29.11.2023 to 30.11.2023	Report Release Date	30.11.2023
Meteorological Information	Average Ambient Temperature : 24.5°C, Barom- Relative Humidity : 61%, Weather Condition -		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	RESULTS (Location-6)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	48.43	42.77	40.37	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m ³	1S 5182 (Part 23)	89.69	81.36	78.18	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m ³	IS 5182(Part 2)	32.55	30.47	31.59	80 (µg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	34.59	33,61	32.64	80 (μg/m³)

*** 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.

वराबाबू पी. / VARABABU P.

का पहारबंधक (पी. एवड एस.) I DOM(PAS) इन्द्रोपीली जिलेन्टेड/ NTPC Limited वडी वरिवाद कोवला खनन परिवोधना I CBCMP हजारीबाग I Hazaribag Authorized Signatory

Quality Manager (Piyush Ranjan)















TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001883F		
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	28.11.2023 to 29.11.2023	Sample Collected by	Ranjeet Yadav & Team	
Sample Receiving	29,11.2023	Sample Condition	Sealed and Preserved	
Date		Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/354/AA-334/1 & 02	Type of Sample	Suspended Dust and Gases	
Period of Analysis	29.11.2023 to 30.11.2023	Report Release Date	30.11.2023	
Meteorological Information	Average Ambient Temperature : 24.5°C, Barom Relative Humidity : 61%, Weather Condition - 6	etric Pressure : 1019 ml Clear	Bar	

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Spe cifications as per CPCB
1	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	35.57	36.80	60 (μg/m³)
2	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	77.48	74.22	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m ³	IS 5182(Part 2)	27.60	29.69	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m ³	IS 5182(Part 6)	30.68	33.61	80 (μg/m³)

*** 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.

वराबाबू पी. / VARABABU P.

क्षा महाप्रकार (थी. एवड एस.)। DGM(P&S) हमरोपीशी शिर्मिटेश/ NTPC Limited षड्डी बरियातु कोयला खनन परियोजना। CBCMP स्वादियाग । Hazaribag

Authorized Signatory

Quality Manager (Piyush Ranjan)















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	27.11.2023 to 28.11.2023	Sample Collected by	Ranjeet Yadav &Team	
Sample Receiving	29.11.2023	Sample Condition	Sealed and Preserved	
Date		Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume I (NAAC	(M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/354/AA-332/04, 05 & 06	Type of Sample	Suspended Dust and Gases	
Period of Analysis	29.11.2023	Report Release Date	30.11.2023	
Meteorological Information	Average Ambient Temperature : 24.5°C, Barom Relative Humidity : 61%, Weather Condition - 0		Bar	

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	THE PROPERTY OF THE PROPERTY OF THE	RESULTS (Location-2)	(Location-3)	Requirements/ Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.51	0.47	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.

Authorized Signatory

Quality Manager (Piyush Ranjan)

वराबाबू पी. I VARABABU P. कृ महास्थाक (थी. एवड एस.)। DOM(PAS)

रूरतेपीशी क्रिकेट NTPC Limited वडी बरियातु कोयला खनन परियोजना। CBCMP हजारीबाग । Hazaribag

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









11/2023





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TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.11.2023 to 29.11.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	29.11.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/354/AA-333/04,05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	29.11.2023	Report Release Date	30.11.2023
Meteorological Information	Average Ambient Temperature: 24.5°C, Barome Relative Humidity: 61%, Weather Condition - C	etric Pressure :1019 ml Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23,0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		RESULTS (Location-2)	RESULTS (Location-3)	Requirements Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.45	0.35	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.

Authorized Signatory

Quality Manager (Piyush Ranjan)

यराबाबू पी. / VARABABU P. पर प्रात्मेशक (शे. एवड एस.)। DOM(PAS)

हन्द्रीपीली जिलिहेड/ NTPC Limited वही बरियातु कोयला खनन परियोजना/ CBCMP ज्ञातिकान / Hazaribag













TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	28.11.2023 to 29.11.2023	Sample Collected by	Ranjeet Yadav & Team	
Sample Receiving	29.11.2023	Sample Condition	Sealed and Preserved	
Date		Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/354/AA-334/03 & 04	Type of Sámple	Suspended Dust and Gases	
Period of Analysis	29.11.2023	Report Release Date	30.11.2023	
Meteorological Information	Average Ambient Temperature : 24.5°C, Barom Relative Humidity : 61%, Weather Condition - 6	etric Pressure :1019 ml Clear	Bar	

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.33	0.34	2 (mg/m³)

*** 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.

वराबाबू पी. I VARABABU P.

प्टर महाप्रवेदक (थी. एवड एस.)। DGM(PAS) रुखेपीसी सिमिटेड/ NTPC Limited वडी वरिवातु कोवला खनन परिवोजना। CBCMP हजारीयाग । Hazaribag

Authorized Signatory

Quality Manager

(Piyush Ranjan)













TEST REPORT

Unique Lab Report	: No. (ULR No.)	TC9948230000019041	ř.
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	14.12.2023 to 15.12.2023	Sample Collected by	Md. R. Rahman & Team
Sample Receiving	16.12.2023	Sample Condition	Sealed and Preserved
Date	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/362/AA-339/01, 02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	16.12.2023 to 18.12.2023	Report Release Date	19.12.2023
Meteorological Information	Average Ambient Temperature : 18.0°C, Barom Relative Humidity : 58%, Weather Condition - 6	etric Pressure :1022 ml Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E)

Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. 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/m³	IS 5182 (Part 24)	54.70	58.13	46.90	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	91.77	93.36	86.54	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	38.54	39.58	34.38	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	µg/m³	IS 5182(Part 6)	40.44	41.71	36.63	80 (μg/m³)

*** END OF REPORT ***

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.

वराबाबू पी. / VARABABU P.

पर महास्थान (पी. एवड एस.)। DOM(PAS) हनटोपीली जिलिटेड! NTPC Limited वही संरेवात कोवला सनन परियोजना CBCMP हजारियान | Hazaribag Authorized Signatory

Quality Manager (Piyush Ranjan)















TEST REPORT

Unique Lab Report	t No. (ULR No.)	TC994823000001905	P
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	15.12.2023 to 16.12.2023	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	16.12.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/362/AA-340/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	16.12.2023 to 18.12.2023	Report Release Date	19.12.2023
Meteorological Information	Average Ambient Temperature : 18°C, Baromet Relative Humidity : 58%, Weather Condition - C		r

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	(Location-5)	RESULTS (Location-6)	Requirements/ Specifications as per CPCB
1.	Particulate Matter as PM2.5	μg/m³	IS 5182 (Part 24)	47.32	41.58	42.54	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	88.90	80.21	76.27	100 (μg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m³	IS 5182(Part 2)	32.55	29.43	30.54	80 (µg/m³)
4.	Nitrogen Dioxide as NO2	μg/m³	IS 5182(Part 6)	34.30	33.33	32.60	80 (μg/m³)

*** END OF REPORT ***

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.

वराबाबू पी. / VARABABU P.

क्षा महात्रकंतम (थी. एवड एस.)। DOM(P&S) eschilat thinks NTPC Limited वडी बरियानु कोयला खनन परियोजना*।* CBCMP स्वादियाग / Hazaribag

Authorized Signatory

Quality Manager (Piyush Ranjan)















TEST REPORT

Unique Lab Report	No. (ULR No.)	TC9948230000019061	P.	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	15.12.2023 to 16.12.2023	Sample Collected by	Md. R. Rahman & Team	
Sample Receiving	16.12.2023	Sample Condition	Sealed and Preserved	
Date		Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/362/AA-341/1 & 02	Type of Sample	Suspended Dust and Gases	
Period of Analysis	16.12.2023 to 18.12.2023	Report Release Date	19.12.2023	
Meteorological Information	Average Ambient Temperature : 18°C, Baromet Relative Humidity : 58%, Weather Condition - C	ric Pressure : 1022 mBa Clear	ır	

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Spe cifications as per CPCB
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	34.61	35.20	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	73.55	75.33	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	31.51	33.59	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	33.45	34.51	80 (μg/m³)

*** END OF REPORT ***

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.

वराबाबू पी. / VARABABU P.

जन महाज्ञंजन (ची. एवड एस.)। DOM(PAS) हनटोपीली जिनिन्देड / NTPC Limited वही वरिवाद कोवला खनन परियोजना / CBCMP हजारीबान / Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)













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An ISO:9001:2015 & OHSAS:18001:2007

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	14.12.2023 to 15.12.2023	Sample Collected by	Md. R. Rahman & Team
Sample Receiving	16.12.2023	Sample Condition	Sealed and Preserved
Date	6-78-54-74-79-7-7-14-7-7-5-	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	4
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/362/AA-339/04, 05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	16.12.2023	Report Release Date	19.12.2023
Meteorological Information	Average Ambient Temperature: 18°C, Baromete Relative Humidity: 58%, Weather Condition - C		r

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	The state of the s	RESULTS (Location-2)	The second secon	Requirements. Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.52	0.45	0.40	2 (mg/m ³)

*** END OF REPORT ***

· 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)

वराबाबू पी. / VARABABU P.

जन महात्रकाम (पी. एवड एस.)। DGM(PAS) हनटोपीली जिनिन्देड / NTPC Limited यही वरिवाद कोवला खनन परियोजना / CBCMP हजारियान | Hazaribag



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An ISO:9001:2015 & OHSAS:18001:2007

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	15.12.2023 to 16.12.2023	Sample Collected by	Md. R. Rahman & Team
Sample Receiving	16.12.2023	Sample Condition	Sealed and Preserved
Date	10.12.2023	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/362/AA-340/04,05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	16.12.2023	Report Release Date	19.12.2023
Meteorological Information	Average Ambient Temperature : 18°C, Baromet Relative Humidity : 58%, Weather Condition - C	ric Pressure :1022 mBa Clear	ır

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		RESULTS (Location-2)	(Location-3)	Requirements Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.47	0.38	0.41	2 (mg/m³)

*** END OF REPORT ***

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)

वराबाबू पी. I VARABABU P.

पर पहार्थक्षक (पी. एवड एस.)। DOM(PAS) हनटीपीली जिलिन्डेड / NTPC Limited वडी वरिवातु कोवला खनन परियोजना / CBCMP हजारीकान / Hazaribag



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An ISO:9001:2015 & OHSAS:18001:2007

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	15.12.2023 to 16.12.2023	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	16.12.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/362/AA-341/03 & 04	Type of Sample	Suspended Dust and Gases
Period of Analysis	29.11.2023	Report Release Date	19.12.2023
Meteorological Information	Average Ambient Temperature : 18°C, Baromet Relative Humidity : 58%, Weather Condition - C		r

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Specifications as per CPCB
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.38	0.36	2 (mg/m ³)

*** END OF REPORT ***

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)

वराबाबू पी. / VARABABU P. एव महास्थान (थी. एवड एस.)। DOM(PAS)

ल्ल्टोपीली जिलेप्टेड/ NTPC Limited वडी वरिवानु कोवला खनन परिवेजना/ CBCMP हजारीबान / Hazaribag





TEST REPORT

Unique Lab Report	t No. (ULR No.)	TC994823000001919F		
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	tti Bariatu Coal Mining Project, NTPC Ltd. Particular of the		
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	21.12.2023 to 22.12.2023	Sample Collected by	Ranjeet Yadav & Team	
Sample Receiving	23.12.2023	Sample Condition	Sealed and Preserved	
Date		Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/371/AA-347/01, 02 & 03	Type of Sample	Suspended Dust and Gases	
Period of Analysis	23.12.2023 to 25.12.2023	Report Release Date	26.12.2023	
Meteorological Information	Average Ambient Temperature : 19°C, Baromet Relative Humidity : 64%, Weather Condition - 6	ric Pressure :1018 mBa Clear	r	

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E)

Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	(Location-3)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	56.89	54.22	49.41	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	93.71	90.22	87.52	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m ³	IS 5182(Part 2)	37.50	40.62	38.54	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	40.44	43.62	40.65	80 (µg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. I VARABABU P.

ज्य पहाराबंधक (ची. एवड एस.)। DOM(PAS) हनटीपीली क्रिकेटेड / NTPC Limited वही वरिवातु कोवला खनन परियोजना / CBCMP हजारीबान | Hazaribag

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











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TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001920	P
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	22.12.2023 to 23.12.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	23.12.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/371/AA-348/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	23.12.2023 to 25.12.2023	Report Release Date	26.12.2023
Meteorological Information	Average Ambient Temperature : 19°C, Baromet Relative Humidity : 64%, Weather Condition - C		r

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	RESULTS (Location-6)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	40.08	41.88	38.15	60 (μg/m³)
2.	Particulate Matter as PM10	μg/m³	IS 5182 (Part 23)	82.23	78.60	79.34	100 (μg/m³)
3.	Sulphur Dioxide as SO2	µg/m³	IS 5182(Part 2)	36.46	33.59	34.64	80 (µg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	38.23	36.63	37.47	80 (μg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

पान पहाराज्याक (थी. एवड एस.)। DOM(PAS) हन्द्रीपीली जिमिन्टेड/ MTPC Limited वडी वरिवात कोयला खनन परियोजना। CBCMP अवस्थित । Hazaribag

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











zed Signatory

h Ranjan)





TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001921F		
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05,2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	22,12,2023 to 23,12,2023	Sample Collected by	Ranjeet Yadav &Team	
Sample Receiving	23.12.2023	Sample Condition	Sealed and Preserved	
Date		Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/23/371/AA-349/1 & 02	Type of Sample	Suspended Dust and Gases	
Period of Analysis	23.12.2023 to 25.12.2023	Report Release Date	26.12.2023	
Meteorological Information	Average Ambient Temperature: 19°C, Baromet Relative Humidity: 64%, Weather Condition - 0	ric Pressure :1018 mBa Clear	r	

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54′58.78″N to 85°01′0.19″E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	(Location-8)	Requirements/Spe cifications as per CPCB
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	35.60	33.11	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	71.74	74.35	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	33.59	32.55	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	35.57	36.42	80 (μg/m³)

*** 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.

वराबाबू पी. / VARABABU P.

पन महाप्रकार (पी. एवड एस.) (DOM(P&S) हन्द्रीपीटरी मिनिन्देड / NTPC Limited पट्टी वरिवानु कोयला खनन परियोजना / CBCMP हजादियान् । Hazaribag

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











athorized Signatory

h Ranjan)





TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	21.12.2023 to 22.12.2023	Sample Collected by	Ranjeet Yadav &Team
Sample Receiving	23.12.2023	Sample Condition	Sealed and Preserved
Date	20.12.2000	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/371/AA-347/04, 05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	23.12.2023	Report Release Date	26.12.2023
Meteorological Information	Average Ambient Temperature : 19°C, Baromet Relative Humidity : 64%, Weather Condition - 6	ric Pressure :1018 mBa Clear	ur .

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		RESULTS (Location-2)	(Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.54	0.47	0.38	2 (mg/m ³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

प्रत महाप्रवेशक (थी. एवड एस.)। DGM(PAS) हन्द्रोपीशी शिमिटेड/ NTPC Limited वड्डी वरियातु कोवला खनन परियोजना / CBCMP हवारियान । Hazaribag

Authorized Signatory

Kanjan)

26112/2023







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









TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	22.12.2023 to 23.12.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	23.12.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	E
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/371/AA-348/04,05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	23.12.2023	Report Release Date	26.12.2023
Meteorological Information	Average Ambient Temperature : 19°C, Baromete Relative Humidity : 64%, Weather Condition - C		r

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		(Location-2)	(Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.43	0.39	0.42	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.

Authorized Signatory

वराबाबू पी. / VARABABU P.
प्रा प्रााधावा (थी. एवड एस.)। DOM(PAS)

हनटोपीसी शिविटेड/ NTPC Limited वडी वरिवानु कोवला खनन परिवोजना/ CBCMP हजारीबान / Hazaribag

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











(anjan)





TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05,2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	22.12.2023 to 23.12.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving	23.12.2023	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/23/371/AA-349/03 & 04	Type of Sample	Suspended Dust and Gases
Period of Analysis	23.12.2023	Report Release Date	26.12.2023
Meteorological Information	Average Ambient Temperature: 19°C, Baromete Relative Humidity: 64%, Weather Condition - C		

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.40	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.

वराबाबू पी. / VARABABU P.

पर पहालंकम (पी. एवड एस.)। DGM(PAS) इन्द्रोपीली जिनिन्देश NTPC Limited वही वरिवाद कोवल खनन परिवादमा CBCMP इन्द्रोपीमा । Mazaribag **Authorized Signatory**

Piyus (Ranjan)















TEST REPORT

Unique Lab Report	t No. (ULR No.)	TC9948240000001691	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	08.01.2024 to 09.01.2024	Sample Collected by	Vivek Kr. Malakar & Team
Sample Receiving	10.01.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC)M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/15/AA-14/01, 02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis		Report Release Date	16.01.2024
Meteorological Information	Average Ambient Temperature : 18.5°C, Barom Relative Humidity : 58%, Weather Condition - 0	etric Pressure :1017 ml Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E)

Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	54.79	53.27	51.30	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	92.46	90.28	88.73	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	39.84	41.41	37.50	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	µg/m³	IS 5182(Part 6)	42.56	44.46	40.65	80 (µg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

का पहारक्षक (पी. एवड एस.)। DOM(PAS) इन्द्रीपीसी सिर्विदेड / NTPC Limited वड्डी बरियानु कोयता जनन परियोजना / CBCMP हजारीयान् । Hazaribag **Authorized Signatory**

Quality Manager (Cival) Partial















TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000170	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	09.01.2024 to 10.01.2024	Sample Collected by	Vivek Kr Malakar & Team
Sample Receiving	10.01.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/15/AA-15/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	10.01.2024 to 11.01.2024	Report Release Date	16.01.2024
Meteorological Information	Average Ambient Temperature: 18.5°C, Baromo Relative Humidity: 58%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	RESULTS (Location-6)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM ₂₅	μg/m³	IS 5182 (Part 24)	43.58	39.11	37.64	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	86.94	79.62	80.17	100 (μg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m³	IS 5182(Part 2)	35.16	34.38	33.59	80 (μg/m³)
4.	Nitrogen Dioxide as NO2	μg/m³	IS 5182(Part 6)	37.48	36.84	35.57	80 (µg/m³)

*** END OF REPORT ***

Remarks:

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

Onality Manage

(Piyush Ranjan)

वराबाबू पी. / VARABABU P. प्त महाप्रवेशक (थी. एवड एस.)। DGM(PAS) लारोपीशी शिलीटेड/ NTPC Limited

वडी बरियातु कोवला खनन परियोजना / CBCMP वारीयाग । Hazaribag

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











01/2024





TEST REPORT

Unique Lab Report	t No. (ULR No.)	TC9948240000001711	7	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02,05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	09.01.2024 to 10.01.2024	Sample Collected by	Vivek Kr Malakar & Team	
Sample Receiving	10.01.2024	Sample Condition	Sealed and Preserved	
Date		Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)	W)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/24/15/AA-16/1 & 02	Type of Sample	Suspended Dust and Gases	
Period of Analysis		Report Release Date	16.01.2024	
Meteorological Information	Average Ambient Temperature : 18.5°C, Barom Relative Humidity : 58%, Weather Condition - 6	etric Pressure :1017 ml Clear	Bar	

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates-23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Spe cifications as per CPCB
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	34.13	32.62	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	74.61	70.43	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	34.38	33.59	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	37.48	36.20	80 (μg/m³)

*** END OF REPORT ***

Remarks:

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)

वराबाबू पी. / VARABABU P. ज्य प्रशासका (थे. एवड एस.) / DOM(PAS) इन्द्रीपीटी जिलिटेड / NTPC Limited वडी वरिवातु कोवता खनन परिवोजना / CBCMP

हजारियान । Hazaribag















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand		
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	08.01.2024 to 09.01.2024	Sample Collected by	Vivek Kr. Malakar &Team
Sample Receiving	10.01.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	20.
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/15/AA-14/04, 05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	10.01.2024	Report Release Date	16.01.2024
Meteorological Information	Average Ambient Temperature: 18.5°C, Barome Relative Humidity: 58%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates-23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.52	0.49	0.39	2 (mg/m ³)

*** END OF REPORT ***

Remarks:

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 Manage (Pryush Ranjan

वराबाबू पी. / VARABABU P.

प्रश्नामंत्रका (पी. एवड एस.) / DOM(Pas)

प्रश्नामंत्रका शिर्मेटेड / NTPC Limited

वर्ड वरिकातु कोवला जनन परियोजना / CBCMP

हजारीकान / Hazaribag















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines	
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023	
Discipline	Chemical	Group	Atmospheric Pollution	
Date of Sampling	09.01.2024 to 10.01.2024	Sample Collected by	Vivek Kr Malakar & Team	
Sample Receiving	10.01.2024	Sample Condition	Sealed and Preserved	
Date	10.01.2024	Sampling Plan	SCECPL/SOP/AA/01	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC)M/36/2012-13)		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab	
Sample ID	SCECPL/TR/24/15/AA-15/04,05 & 06	Type of Sample	Suspended Dust and Gases	
Period of Analysis	10.01.2024	Report Release Date	16.01.2024	
Meteorological Information	Average Ambient Temperature : 18.5°C, Barom Relative Humidity : 58%, Weather Condition - 0	etric Pressure :1017 ml Clear	Bar	

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		RESULTS (Location-2)	(Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.45	0.37	0.43	2 (mg/m ³)

*** END OF REPORT ***

Remarks:

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

(Pivosh Ranjan)

यराबाबू पी. / VARABABU P. ज्य महासंबंध (थी. एवड एस.)। DOM(Pas)

का महाज्याम (पी. एवड एस.) book ह हनटोपीली जिल्हेंड / NTPC Limited यही वरियातु कोयला खनन परियोजना / CBCMP हजारियान / Hazaribag















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	09.01.2024 to 10.01.2024	Sample Collected by	Vivek Kr Malakar & Team
Sample Receiving	10.01.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/15/AA-16/03 & 04	Type of Sample	Suspended Dust and Gases
Period of Analysis	10.01.2024	Report Release Date	16.01.2024
Meteorological Information	Average Ambient Temperature : 18.5°C, Barome Relative Humidity : 58%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.41	0.38	2 (mg/m³)

*** END OF REPORT ***

Remarks:.

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)

दराबाबू पी. / VARABABU P.
प्रश्न पात्रकाण (पी. एप्ट एस.) / DOM(PAS)
स्मार्थकाण (पी. एप्ट एस.) / DOM(PAS)
स्मार्थकाण शिक्षिटेड / NTPC Limited
पट्टी वरिवातु कोवला सानग परियोजना / CBCMP
स्मार्थकाण / Hazaribag















TEST REPORT

Unique Lab Report	t No. (ULR No.)	TC9948240000002081	7
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	29.01.2024 to 30.01.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	31.01.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/34/AA-34/01, 02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	31.01,2024 to 01.02.2024	Report Release Date	02.02.2024
Meteorological Information	Average Ambient Temperature : 20.5°C, Barom Relative Humidity : 56%, Weather Condition - 6	etric Pressure :1017 ml Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM _{2.5}	µg/m³	IS 5182 (Part 24)	56.70	54.11	50.44	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m ³	IS 5182 (Part 23)	94.25	91.82	89.54	100 (μg/m ³)
3.	Sulphur Dioxide as SO2	μg/m³	IS 5182(Part 2)	38.54	39.32	36.46	80 (µg/m³)
4.	Nitrogen Dioxide as NO ₂	µg/m³	IS 5182(Part 6)	41.29	42.35	39.17	80 (μg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

च्य पहार्थक्य (पी. एवड एस.)। DOM(PAS) हनटीपीली जिलिटेड / NTPC Limited वही वरिवाद कोवला खनन परियोजना CBCMP हजारीबान | Hazaribag ARE Signatory

ty Manager (A Ranjan)















TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000209	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	30.01.2024 to 31.01.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving Date	31.01.2024	Sample Condition Sampling Plan	Sealed and Preserved SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/34/AA-35/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	31.01.2024 to 01.02.2024	Report Release Date	02.02.2024
Meteorological Information	Average Ambient Temperature : 20.5°C, Baromo Relative Humidity : 56%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	RESULTS (Location-6)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	42.14	38.60	36.55	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	84.37	81.47	78.71	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	34.11	30.99	32.55	80 (μg/m³)
4.	Nitrogen Dioxide as NO2	μg/m³	IS 5182(Part 6)	37.26	34.09	34.51	80 (μg/m ³)

*** END OF REPORT ***

Remarks:

 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.

वराबाबू पी. I VARABABU P.

प्यः पहारकंत्रक (पी. एवड एस.) (DOM(P&S) हन्द्रीपीट्सी मिनिस्टेड/ NTPC Limited यही वरिवानु कोवला खनन परियोजना / CBCMP हजारीयान् । Hazaribag Authorized Signatory

Outling Manager (Pryush Ranjan)















TEST REPORT

Unique Lab Report	No. (ULR No.)	TC9948240000002101	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	30.01.2024 to 31.01.2024	Sample Collected by	Md. R. Rahman & Team
Sample Receiving Date	31.01.2024	Sample Condition Sampling Plan	Sealed and Preserved SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	The state of the s	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/34/AA-36/1 & 02	Type of Sample	Suspended Dust and Gases
Period of Analysis	31.01.2024 to 01.02.2024	Report Release Date	02.02.2024
Meteorological Information	Average Ambient Temperature : 20.5°C, Barom Relative Humidity : 56%, Weather Condition - 6	etric Pressure :1017 ml Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	(Location-8)	Requirements/Spe cifications as per CPCB
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	35.11	30.56	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	75.63	69.34	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	30.21	29.69	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	32.55	31.51	80 (μg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

पर पहारबंधक (पी. एवड एस.)। DOM(P&S) हनटीपीली जिलिटेड / NTPC Limited यही वरिवाद कोवला खनन परियोजना / CBCMP हजारियान । Hazaribag

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











Authorized Signatory

dality Manager Yeush Ranjan)

02/02/2024





TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	29.01.2024 to 30.01.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	31.01.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/34/AA-34/04, 05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	31.01.2024	Report Release Date	02.02.2024
Meteorological Information	Average Ambient Temperature : 20.5°C, Barome Relative Humidity : 56%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	CONTRACTOR OF THE PARTY OF THE	RESULTS (Location-2)		Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.50	0.48	0.41	2 (mg/m ³)

*** END OF REPORT ***

Remarks: .

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.

वराबाबू पी. / VARABABU P.

क्ष प्राथमंत्रक (थी. एवड एस.)। DOM(PAS) इन्द्रीवीली जिनिहेड | NTPC Limited वडी बरिवानु कोयला खनन परिवोजना। CBCMP

हरारियाग । Hazaribag

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











Authorized Signatory

(Pivnen Ranjan)





TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05,2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	30.01.2024 to 31.01.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	31.01.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume I (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/34/AA-35/04,05 & 06	Type of Sample	Suspended Dust and Gases
Period of Analysis	The state of the s	Report Release Date	02.02.2024
Meteorological Information	Average Ambient Temperature : 20.5°C, Barom Relative Humidity : 56%, Weather Condition - 0		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.46	0.34	0.44	2 (mg/m ³)

*** END OF REPORT ***

Remarks:

 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.

वराबाबू पी. / VARABABU P.

पण महासंबंधक (ची. एवड एस.)। Dow(PAS) हनटोपीटी जिनिटेड/ NTPC Limited यही वरियातुं कोयला खनन परियोजना। CBCMP हजादियान | Hazaribag

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











Authorized Signatory

Quality Manager (Bivosh Ranjan)

02/02/2024





TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	30.01.2024 to 31.01.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	31.01.2024	Sample Condition	Sealed and Preserved
Date	Control of the control of the letter of the	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/34/AA-36/03 & 04	Type of Sample	Suspended Dust and Gases
Period of Analysis	31.01.2024	Report Release Date	02.02.2024
Meteorological Information	Average Ambient Temperature : 20.5°C, Barom Relative Humidity : 56%, Weather Condition - C		3ar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	(Location-8)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.38	0.37	2 (mg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

पण महाज्ञेवक (पी. एवड एस.)। Dok(PAS) हनटोपीटी जिनिटेड/ NTPC Limited यही वरिवाद कोवला खनन परियोजना / CBCMP हजादियान | Hazaribag

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











Authorized Signatory

Quality Manager (Piyush Ranjan)





TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000252	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	15.02.2024 to 16.02.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving Date	17.02.2024	Sample Condition Sampling Plan	Sealed and Preserved SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ		SCECTE/SOF/AA/01
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/50/AA-55/01, 02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	17.02.2024 to 19.02.2024	Report Release Date	21.02.2024
Meteorological Information	Average Ambient Temperature : 23.5°C, Barome Relative Humidity : 55%, Weather Condition - C	tric Pressure :1016 ml	

A. GENERAL INFORMATION

Location of Sampling:

Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	55.10	53.67	48.50	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	93.28	90.37	88.62	100 (µg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	39.32	37.50	34.64	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	41.50	39.37	36.42	80 (µg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

पर पहार्वधार (पी. एवड एस.)। DGM(PAS) हन्द्रीपीटी शिविदेडं/ NTPC Limited चड्डी वरियातु कोयला खनन परिधोजना। CBCMP स्वारिकान । Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)















TEST REPORT

Unique Lab Report	t No. (ULR No.)	TC9948240000002531	7
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	16.02.2024 to 17.02.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	17.02.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/50/AA-56/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	17.02.2024 to 19.02.2024	Report Release Date	21.02.2024
Meteorological Information	Average Ambient Temperature: 23.5°C, Baromo Relative Humidity: 55%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	RESULTS (Location-6)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM _{2,5}	μg/m³	IS 5182 (Part 24)	43.87	39.68	34.51	60 (μg/m ³)
2.	Particulate Matter as PM10	μg/m³	IS 5182 (Part 23)	85.15	80.43	76.92	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	33.33	28.38	26.04	80 (µg/m ³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	35.57	30.54	29.43	80 (μg/m ³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

पर महास्थान (पी. एवड एस.)। DOM(PAS) हन्द्रीपीडी जिनिदेडं NTPC Limited वही संरेवात कोवला सनन परियोजना CBCMP हजारियान । Hazaribag

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











authorized Signatory

(Piyush Ranjan)





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC9948240000002541	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	16.02.2024 to 17.02.2024	Sample Collected by	Md. R. Rahman & Team
Sample Receiving	17.02.2024	Sample Condition	Sealed and Preserved
Date	(Substance of the control of the co	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	4/
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
ample ID	SCECPL/TR/24/50/AA-57/1 & 02	Type of Sample	Suspended Dust and Gases
Period of Analysis	17.02.2024 to 19.02.2024	Report Release Date	21.02.2024
Meteorological Information	Average Ambient Temperature : 23.5°C, Barom Relative Humidity : 55%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Spe cifications as per CPCB
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	32.79	31.63	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	74.92	68.14	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	24.48	23.44	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	27.60	26.30	80 (μg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

पर महाशंकक (थी. एवड एस.) / DOM(PAS) हन्द्रीपीसी शिक्टेड / NTPC Limited वही वरिवातु कोयला खनन परियोजना / CBCMP प्रवासिका / Hazaribag

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











Authorized Signatory

(Pivush Ranjan)





TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	15.02.2024 to 16.02.2024	Sample Collected by	Md. R. Rahamn &Team
Sample Receiving	17.02.2024	Sample Condition	Sealed and Preserved
Date	2.742775-0.0427.54.74049.0424	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)	The state of the s
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/50/AA-55/04, 05 & 06	Type of Sample	Gases
Period of Analysis	17.02.2024	Report Release Date	21.02.2024
Meteorological Information	Average Ambient Temperature: 23.5°C, Barome Relative Humidity: 55%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	The state of the s	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.48	0.46	0.39	2 (mg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

हन्द्रीपीशी शिविदेश NTPC Limited वही वरिवानु कोवला खनन परिवोजना CBCMP हजारीबान I Hazaribag

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











Authorized Signatory

nsh Ranjan)





TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	16.02.2024 to 17.02.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	17.02.2024	Sample Condition	Sealed and Preserved
Date	The Control of the Co	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/50/AA-56/04,05 & 06	Type of Sample	Gases
Period of Analysis	17.02.2024	Report Release Date	21.02.2024
Meteorological Information	Average Ambient Temperature: 23.5°C, Baromo Relative Humidity: 55%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	2,444,000,000	RESULTS (Location-2)	(Location-3)	Requirements as per NAAQS 2009
1	Carbon Menoxide as CO	mg/m³	IS 5182(Part 10)	0.44	0.32	0.41	2 (mg/m ³)

*** END OF REPORT ***

Remarks:

 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.

वराबाबू पी. / VARABABU P.

जः पहानंत्रक (पी. एवड एस.)। DOM(PAS) इन्द्रीपीटी जिनिन्देडं MTPC Limited वही वरिवाद कोवला खनन परियोजना CBCMP इजाविवान | Hazaribag

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











Authorized Signatory

ush Ranjan)





TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	16.02.2024 to 17.02.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	17.02.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/50/AA-57/03 & 04	Type of Sample	Gases
Period of Analysis	17.02.2024	Report Release Date	21.02.2024
Meteorological Information	Average Ambient Temperature: 23.5°C, Barom- Relative Humidity: 55%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.31	0.30	2 (mg/m ³)

*** END OF REPORT ***

Remarks:

 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.

वराबाबू पी. / VARABABU P.

ज्य पहारबंधक (पी. एवड एस.)। DOM(PAS) हनदीपीली जिलेक्टेड/ NTPC Limited वडी वरियातुं कोयला खनन परियोजना CBCMP हजारीबाग । Hazaribag

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











Authorized Signatory

yush Ranjan)





CK

lets start thinking about nature for tomorrow

TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000300	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	26.02.2024 to 27.02.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving Date	29.02.2024	Sample Condition	Sealed and Preserved
Sampling Method	BC 5192 and CDCD Allows 137-1 A COLLEGE	Sampling Plan	SCECPL/SOP/AA/01
The second secon	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	The state of the s	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/59/AA-70/01, 02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	29.02.2024 to 01.03.2024	Report Release Date	02,03.2024
Meteorological Information	Average Ambient Temperature : 24.5°C, Barome Relative Humidity : 61%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling:

Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
t.	Particulate Matter as PM _{2.5}	µg/m³	IS 5182 (Part 24)	56.16	57.99	46.43	60 (µg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	94.34	91.87	85.55	100 (μg/m³)
3.	Sutphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	38.54	39.32	32.55	80 (μg/m³)
4.	Nitrogen Dioxide as NO2	μg/m³	IS 5182(Part 6)	41.41	42.71	45.57	80 (μg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

एन पहालक्षण (पी. एवड एस.)। DGM(PAS) इन्द्रोपीसी सिनिदेड | NTPC Limited वडी वरिवातु कोवला खनन परियोजना / CBCMP इजाविवान । Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)















TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC9948240000003011	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	27.02.2024 to 28.02.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	29.02.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/59/AA-71/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	29.02.2024 to 01.03.2024	Report Release Date	02.03.2024
Meteorological Information	Average Ambient Temperature : 24.5°C, Barome Relative Humidity : 61%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	(Location-6)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	44.70	38.57	32.35	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	87.16	76.83	78.53	100 (μg/m ³)
3.	Sulphur Dioxide as SO ₂	µg/m³	IS 5182(Part 2)	35.42	28.65	30.47	80 (µg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	37,47	30.49	31.76	80 (μg/m³)

*** END OF REPORT ***

Remarks

 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.

वराबाबू पी. / VARABABU P.

का पहारबंधक (पी. एण्ड एस.)। DOM(PAS) इन्होंगीली क्रिकेटेड! NTPC Limited वडी वरिवात कोवला करन परियोजना CBCMP हजारीकान I Hazaribag

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











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Authorized Signatory

uality Manager Piyush Ranjan)





TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000302	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	27.02.2024 to 28.02.2024	Sample Collected by	Md. R. Rahman & Team
Sample Receiving Date	29.02.2024	Sample Condition Sampling Plan	Sealed and Preserved SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC		
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/59/AA-72/1 & 02	Type of Sample	Suspended Dust and Gases
Period of Analysis	29.02.2024 to 01.03.2024	Report Release Date	02.03.2024
Meteorological Information	Average Ambient Temperature : 24.5°C, Baromo Relative Humidity : 61%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Spe cifications as per CPCB
t,	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	31.64	30.54	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	73.60	70.37	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	26.30	25.52	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	27.95	27.31	80 (μg/m³)

*** END OF REPORT ***

Remarks:

 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.

वराबाबू पी. / VARABABU P.

प्रश्न पहार्थका (थी. एवड एस.) / DOM(PAS) इन्द्रीपीशी जिलिटेड / NTPC Limited वही वरिवाद कोवला खन्न परियोजना / CBCMP सर्वाधिका / Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)

















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	26.02.2024 to 27.02.2024	Sample Collected by	Md. R. Rahamn &Team
Sample Receiving	29.02.2024	Sample Condition	Sealed and Preserved
Date	and the Control of th	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	The second secon
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/59/AA-70/04, 05 & 06	Type of Sample	Gases
Period of Analysis	29.02.2024	Report Release Date	02.03.2024
Meteorological Information	Average Ambient Temperature : 24.5°C, Baromo Relative Humidity : 61%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	THE PARTY OF STREET	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.51	0.44	0.38	2 (mg/m³)

*** END OF REPORT ***

Remarks: .

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.

02

Quality Manager (Riyush Ranjan)

Authorized Signatory

दराबाबू पी. / VARABABU P.
च्या प्राप्तकार (पी. एवड एस.) / DGM(Pas)
इन्होंपीली क्रिकेट / NTPC Limited
चड्डी बरिवातु कोवला खनन परियोजना / CBCMP
इजारिवान । Hazaribag

















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	27.02.2024 to 28.02.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	29.02.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume I (NAAQ	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/59/AA-71/04,05 & 06	Type of Sample	Gases
Period of Analysis	29.02.2024	Report Release Date	02.03.2024
Meteorological Information	Average Ambient Temperature : 24.5°C, Baromo Relative Humidity : 61%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	The American Control of the Control	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.48	0.30	0.40	2 (mg/m ³)

*** END OF REPORT ***

Remarks:

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)

यराबाबू पी. / VARABABU P. प्रा प्रशासका (थी. एवड एस.) / DOM(PAS) इन्द्रोपीली शितिहेड/ NTPC Limited वही वरिवादु कोवता खनन परिवोधना / CBCMP

हवारियान । Hazaribag















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	27.02.2024 to 28.02.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	29.02.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/59/AA-72/03 & 04	Type of Sample	Gases
Period of Analysis	29.02.2024	Report Release Date	02.03.2024
Meteorological Information	Average Ambient Temperature : 24.5°C, Baromo Relative Humidity : 61%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.28	0.31	2 (mg/m³)

*** END OF REPORT ***

Remarks:.

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

(Piyush Ranjan)

वराबाबू पी. / VARABABU P.

पर महाज्ञान (पी. एवड एस.)। DOM(PAS) हन्द्रीपीटी जिनिदेड / NTPC Limited यही वरियातु कोयला खनन परियोजना / CBCMP हजाडियान । Hazaribag















TEST REPORT

Unique Lab Report	No. (ULR No.)	TC9948240000003411	V .
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	11.03.2024 to 12.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	13.03.2024	Sample Condition	Sealed and Preserved
Date	101000001	Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume I (NAAC	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/80/AA-95/01, 02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis		Report Release Date	16.03.2024
Meteorological Information	Average Ambient Temperature : 26.5°C, Barom Relative Humidity : 57%, Weather Condition - G	etric Pressure :1014 ml Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates-23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates-23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	57.29	58.40	44.53	60 (μg/m³)
2	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	92.87	95.63	84.39	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m ³	IS 5182(Part 2)	39.84	38.28	31.25	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	41.92	40.65	33.30	80 (µg/m³)

*** END OF REPORT ***

Remarks.

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.

वराबाबू पी. / VARABABU P.

प्राप्त पहारबंधक (पी. एवड एस.)। DOM(PAS) हन्द्रीपीटी जिन्दिंड! NTPC Limited षड्डी वरिवातु कोवला खनन परियोजना! CBCMP हजारियान । Hazaribag buyyoh

Authorized Signatory

Quality Manager (Piyush Ranjan)















TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC9948240000003421	P.
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	12.03.2024 to 13.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	13.03.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/80/AA-96/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	14.03.2024 to 15.03.2024	Report Release Date	16.03.2024
Meteorological Information	Average Ambient Temperature : 26.5°C, Barom Relative Humidity : 57%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	(Location-6)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	46.11	40.53	34.66	60 (μg/m³)
2.	Particulate Matter as PM10	μg/m³	IS 5182 (Part 23)	86.85	81.62	79.43	100 (μg/m³)
3.	Sulphur Dioxide as SO2	µg/m³	IS 5182(Part 2)	36.20	30.49	28.58	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	38.74	32.39	30.49	80 (μg/m³)

*** END OF REPORT ***

Remarks

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.

वराबाबू पी. / VARABABU P.

पण महासंबाक (पी. एवड एस.)। DOM(P&S) हन्द्रीपीटी जिमिटेड! NTPC Limited वही वरिवाद कोवला सनन परियोजना! CBCMP हजारियान । Hazaribag

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











03/2024

Authorized Signatory

Quality Manager

(Piyush Ranjan)







TEST REPORT

Unique Lab Report	t No. (ULR No.)	TC9948240000003431	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	12.03.2024 to 13.03.2024	Sample Collected by	Md. R. Rahman & Team
Sample Receiving	13.03.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/80/AA-97/1 & 02	Type of Sample	Suspended Dust and Gases
Period of Analysis	13.03.2024 to 14.03.2024	Report Release Date	16.03.2024
Meteorological Information	Average Ambient Temperature : 26.5°C, Barome Relative Humidity : 57%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	(Location-8)	Requirements/Spe cifications as per CPCB
1.	Particulate Matter as PM _{2.5}	μg/m ³	IS 5182 (Part 24)	30.65	32.26	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	75.26	78.46	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	24.22	23.44	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	26.04	25.41	80 (μg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

पर महाज्यका (पी. एवड एस.)। DOM(PAS) हनटोपीली जिनिन्देड / NTPC Limited यही वरियातु कोयला खनन परियोजना / CBCMP हजारीबान । Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	11.03.2024 to 12.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	13.03.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/80/AA-95/04, 05 & 06	Type of Sample	Gases
Period of Analysis	13.03.2024	Report Release Date	16.03.2024
Meteorological Information	Average Ambient Temperature : 26.5°C, Barome Relative Humidity : 57%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		RESULTS (Location-2)	(Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.50	0.46	0.34	2 (mg/m ³)

*** END OF REPORT ***

Remarks: .

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)

पराबाबू पी. / VARABABU P. कः प्रशासकार (थे. एवड एस.) / DOM(PAS) रूटोपीली जिलिटेड/ NTPC Limited वड़ी वरिवातु कोवला खनन परिवोधना / CBCMP

हजारियान । Hazaribag

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

















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	12.03.2024 to 13.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	13.03.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	(M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/80/AA-97/04,05 & 06	Type of Sample	Gases
Period of Analysis	13.03.2024	Report Release Date	16.03.2024
Meteorological Information	Average Ambient Temperature : 26.5°C, Barom Relative Humidity : 57%, Weather Condition - 6	etric Pressure :1014 ml Clear	Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (Coordinates- 23°53'28.16"N to 85°04'57.53"E)

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

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		RESULTS (Location-2)	(Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.45	0.28	0.38	2 (mg/m ³)

*** END OF REPORT ***

Remarks:

 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)

63/2024

वराबाबू पी. / VARABABU P. इस महासंबंध (शी. एवड एस.) / DOM(Pas)

हन्त्रीयासी स्थितिहेड/ NTPC Limited षड्डी बरियानु कोयला खनन परियोजना/ CBCMP प्रवासियान्। Hazaribag















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	12.03.2024 to 13.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	13.03.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/80/AA-97/03 & 04	Type of Sample	Gases
Period of Analysis	13.03.2024	Report Release Date	16.03.2024
Meteorological Information	Average Ambient Temperature : 26.5°C, Baromo Relative Humidity : 57%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.27	0.25	2 (mg/m ³)

*** END OF REPORT ***

Remarks:.

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)

वराबाबू पी. / VARABABU P.
जः प्रशासकार (पी. एवड एस.) / DOM(Pas)
इन्द्रियोजी जिलिटेड / NTPC Limited
वही वरिवातु कोवला सानग परियोजना / CBCMP
हजारीवार / Hazaribag















TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000391	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	27.03.2024 to 28.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	30.03.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	1
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/95/AA-114/01, 02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	30.03.2024 to 01.04.2024	Report Release Date	01.04.2024
Meteorological Information	Average Ambient Temperature : 30.5°C, Barome Relative Humidity : 60%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates- 23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)

Duration of Sampling: 24 hours Each Location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-1)	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM25	μg/m³	IS 5182 (Part 24)	58.77	57.83	42.40	60 (µg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	94.26	92.66	80.29	100 (μg/m³)
3.	Sulphur Dioxide as SO2	μg/m³	IS 5182(Part 2)	38.54	36.46	32.55	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	41.50	38.53	35.57	80 (µg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

च्य पहाराबंधक (ची. एवड एस.)। DOM(P&S) इन्द्रीपीली क्रिकिटेड! NTPC Limited वड्डी वरिवातु कोवला खनन परियोजना CBCMP हजारीबान | Hazaribag Authorized Signatory

Quality Manager (Piyush Ranjan)















TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000392	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.03.2024 to 29.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving Date	30.03.2024	Sample Condition Sampling Plan	Sealed and Preserved SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	The second secon	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/95/AA-115/01,02 & 03	Type of Sample	Suspended Dust and Gases
Period of Analysis	30.03.2024 to 01.04.2024	Report Release Date	01.04.2024
Meteorological Information	Average Ambient Temperature : 30.5°C, Barome Relative Humidity : 60%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-4)	RESULTS (Location-5)	RESULTS (Location-6)	Requirements as per NAAQS 2009
1.	Particulate Matter as PM _{2.5}	μg/m³	IS 5182 (Part 24)	48.65	39.21	38.57	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	89.73	78.55	79.16	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	34.38	28.38	30.47	80 (μg/m³)
4.	Nitrogen Dioxide as NO2	μg/m³	IS 5182(Part 6)	36.42	30.70	32.60	80 (μg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

प्रत महाप्रवेशक (थी. एवड एस.)। DGM(PAS) eschilet fidics/ NTPC Limited वडी बरियानु कोयता खनन परियोजना / CBCMP स्वादियाग । Hazaribag

Authorized Signatory

01/04/2024 **Quality Manager**

(Piyush Ranjan)

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











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TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000393	•
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.03.2024 to 29.03.2024	Sample Collected by	Md. R. Rahman &Team
Sample Receiving Date	30.03.2024	Sample Condition Sampling Plan	Scaled and Preserved SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	And the second s	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/95/AA-116/1 & 02	Type of Sample	Suspended Dust and Gases
Period of Analysis	30.03.2024 to 01.04.2024	Report Release Date	01.04.2024
Meteorological Information	Average Ambient Temperature: 30.5°C, Barome Relative Humidity: 60%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

Duration of Sampling: 24 hours each location

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements/Spe cifications as per CPCB
1.	Particulate Matter as PM2.5	μg/m³	IS 5182 (Part 24)	32.85	31.73	60 (μg/m³)
2.	Particulate Matter as PM ₁₀	μg/m³	IS 5182 (Part 23)	72.57	70.35	100 (μg/m³)
3.	Sulphur Dioxide as SO ₂	μg/m³	IS 5182(Part 2)	23.44	21.62	80 (μg/m³)
4.	Nitrogen Dioxide as NO ₂	μg/m³	IS 5182(Part 6)	25.62	23.50	80 (μg/m³)

*** END OF REPORT ***

Remarks:

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.

वराबाबू पी. / VARABABU P.

ज्य पहारांबाक (पी. एवड एस.)। DGM(PAS) हनटीपीटी जिनिन्देड / NTPC Limited वही वरिवाद कोवला खनन परियोजना CBCMP हजाविवान । Hazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)

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











104/2024





TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	27.03.2024 to 28.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	30.03.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAC	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/95/AA-114/04, 05 & 06	Type of Sample	Gases
Period of Analysis	30.03.2024	Report Release Date	01.04.2024
Meteorological Information	Average Ambient Temperature : 30.5°C, Baromo Relative Humidity : 60%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-1: Mine Area near Sub-Station (Coordinates- 23°53'28.77"N to 85°04'46.85"E)

Location-2: Mine Area near East Pit (Coordinates-23°53'49"N to 85°03'44"E) Location-3: Keredari Village (Coordinates-23°51'49.49"N to 85°05'19.06"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	2000	RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.48	0.43	0.39	2 (mg/m ³)

*** END OF REPORT ***

Remarks: .

 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

01/04/2024

Quality Manager (Piyush Ranjan)

यराबाबू पी. / VARABABU P. इन प्राप्तकार (शे. एवड एस.)। DOM(PAS) इन्होंग्रेसी शिर्मिटेड/ NTPC Limited वडी वरिवादु कोवता खनन परिवोजना / CBCMP

हजारियाग । Hazaribag















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.03.2024 to 29.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	30.03.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/95/AA-115/04,05 & 06	Type of Sample	Gases
Period of Analysis	30.03.2024	Report Release Date	01.04.2024
Meteorological Information	Average Ambient Temperature: 30.5°C, Barome Relative Humidity: 60%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-4: Site Office CBCMP (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)

Location-6: Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD		RESULTS (Location-2)	RESULTS (Location-3)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m ³	IS 5182(Part 10)	0.44	0.26	0.36	2 (mg/m ³)

*** END OF REPORT ***

Remarks:

 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)

यराबाबू पी. / VARABABU P. पर महाजंबक (थी. एवड एस.)। DOM(PAS)

का पहानवका (पा. एवंट एस.) o service हार्टीपीली शितिक्टेड / NTPC Limited वर्डी वरिवातु कोवला खनन परियोजना / CBCMP हजारीबान / Hexaribag

















TEST REPORT

Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Particular of the Plant	Coal Mines
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh, Jharkhand	Work Order No.	CBCMPL/WO/23-24/018 Date- 02.05.2023
Discipline	Chemical	Group	Atmospheric Pollution
Date of Sampling	28.03.2024 to 29.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving	30.03.2024	Sample Condition	Sealed and Preserved
Date		Sampling Plan	SCECPL/SOP/AA/01
Sampling Method	IS 5182 and CPCB Air Manual Volume 1 (NAAQ	M/36/2012-13)	
Sample Details	Ambient Air	Sample Drawn By	Sabz Care Lab
Sample ID	SCECPL/TR/24/95/AA-116/03 & 04	Type of Sample	Gases
Period of Analysis	30.03.2024	Report Release Date	01.04.2024
Meteorological Information	Average Ambient Temperature : 30.5°C, Baromo Relative Humidity : 60%, Weather Condition - C		Bar

A. GENERAL INFORMATION

Location of Sampling: Location-7: Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)

Location-8: Bukru Village (Coordinates- 23°51'52.35"N to 85°02'31.82"E)

B. TEST RESULTS

S.N.	PARAMETERS	UNIT	TEST METHOD	RESULTS (Location-7)	RESULTS (Location-8)	Requirements as per NAAQS 2009
1	Carbon Monoxide as CO	mg/m³	IS 5182(Part 10)	0.24	0.22	2 (mg/m³)

*** END OF REPORT ***

Remarks:.

 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)

दराबाबू पी. / VARABABU P. ज्य पहार्थका (पी. एवड एस.) / DOM(Pas) इन्द्रिपीली जिलिटेड / NTPC Limited वही वरिवातु कोवला सानग परियोजना / CBCMP हजारीका / Hazaribag













CHATTIBARIATU COAL MINING PROJECT, NTPC LIMITED

Report Type: Average Report- Static Details and Interval: day | Time Range : 2023-10-01 06:00:00 to 2024-03-31 05:59:56

200 01	NTPC CAMP PM10	NTPC_CAMP PM2.5	NTPC_CAMP SO2	NTPC_CAMP NO
Date (YYYY-MM-DD)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
Avg	57.6	49.95	2.14	12.7
Min	5.95	8.8	0.02	5.71
Max	99.97	60	11.12	25.78
Geom.Mean	57.6	49.95	2.14	12.7
Median	51.82	49.83	1.78	12.51
Mode	87.04	78.34	2.29	8.91
Std.Deviation	35.15	23.82	1.67	2.91
Prescribed Standard	None	None	None	None
First Max occurred at	2023-10-09	2024-03-29	2024-03-10	2024-02-09
First Min occurred at	2024-01-07	2024-03-08	2023-11-26	2023-12-19
Valid Data Points	148	157	161	161
Total Data Points	183	183	183	183
Data Availability %	80.87	85.79	87.98	87.98
Uncertainty	0	0	0	0
2023-10-01	17.78	13.36	0.62	8.91
2023-10-02	NA	NA NA	NA	NA
2023-10-03	20.72	15.54	2.69	9.01
2023-10-04	19.49	14.64	0.86	11.12
2023-10-05	33.70	25.31	2.48	9.54
2023-10-06	NA NA	NA NA	0.28	10.55
2023-10-07	42.41	31.73	2.42	12.05
2023-10-08	75.45	56.60	0.06	11.20
2023-10-09	98.91	56,40	1.74	11.88
2023-10-10	97.55	53.20	3.36	13.25
2023-10-11	87.90	55.94	2.08	12.96
2023-10-12	84.54	53.39	2.52	13.33
2023-10-13	71.78	53.84	5.20	13.39
2023-10-14	78.30	58.72	8.25	14.19
2023-10-15	74.57	55.93	3.34	13.77
2023-10-16	90.39	57.78	3.29	15.25
2023-10-17	NA	NA	2.94	11.83
2023-10-18	NA NA	NA	0.77	10.02
2023-10-19	77.64	58.31	5.40	8.84
2023-10-20	60.58	45.40	3.18	13.19
2023-10-21	53.84	40.36	1.71	12.32
2023-10-22	94.17	50.66	1.07	14.67
2023-10-23	NA	NA	NA	NA
2023-10-24	NA NA	NA NA	NA	NA
2023-10-25	62.37	46.84	2.93	8.31
2023-10-26	72.28	54.23	3.75	13.06
2023-10-27	74.15	55.66	1.41	14.39
2023-10-28	56.89	42.66	0.77	13.01
2023-10-29	49.59	37.21	Chellann?	13.83
2023-10-30	54.73	41.05	3.47	11.93

दराबाबू पी. / VARABABU P. प्रम महासंक्षक (थे. एवड एस.) / DOM(PAS) हन्द्रोपीली जिमेरेड / NTPC Limited वही वरिवादु कोवला खनन परिवेजना / CBCMP हजारीबाग / Hazaribag

2023-10-31	61.90	46.42	0.81	13.81
2023-11-01	NA	NA	NA	NA
2023-11-02	57.53	43.20	1.45	11.29
2023-11-03	87.52	55.63	5.59	14.70
2023-11-04	72.62	54.49	2.19	14.53
2023-11-05	78.37	58.82	2.60	14.85
2023-11-06	85.06	53.86	2.41	14.55
2023-11-07	99.97	54.98	2.41	15.70
2023-11-08	94.16	51.87	3.27	16.68
2023-11-09	94.86	60.00	4.03	13.73
2023-11-10	93.76	59.06	3.47	14.69
2023-11-11	95.76	41.82	7.86	14.03
2023-11-12	95.35	54.06	1.64	13.76
2023-11-13	90.68	47.97	0.92	13.87
2023-11-14	85.25	53.90	1.13	15.84
2023-11-15	98.22	53.65	0.79	13.93
2023-11-16	87.04	35.26	1.86	12.98
2023-11-17	50.60	38.00	1.80	11.41
2023-11-18	57.38	43.01	0.40	12.77
2023-11-19	46.26	34.69	1.06	16.93
2023-11-20	49.09	36.81	0.46	14.29
2023-11-21	93.99	38.02	2.40	15.36
2023-11-22	81.83	43.92	0.77	12.18
2023-11-23	84.01	55.56	0.75	16.32
2023-11-24	99.00	54.29	1.49	15.88
2023-11-25	98.21	53.62	0.89	14.19
2023-11-26	75.56	49.14	0.02	16.31
2023-11-27	81.97	56.54	2.29	10.22
2023-11-28	84.26	45.73	1.12	18.32
2023-11-29	97.64	53.27	2.17	18.27
2023-11-30	96.82	42.61	1.97	15.15
2023-12-01	96.46	37.36	1.37	11.25
2023-12-02	81.01	59.71	1.84	13.74
2023-12-03	56.54	42.42	1.60	14.64
2023-12-04	85.71	54.26	3.17	14.25
2023-12-05	68.19	51.13	1.64	13.50
2023-12-06	35.19	26.38	0.96	9.83
2023-12-07	52.68	39.51	1.77	10.91
2023-12-08	39.56	29.63	2.00	11.48
2023-12-09	65.94	49.51	1.33	13.73
2023-12-10	62.86	47.22	0.72	14.17
2023-12-11	49.26	36.93	0.63	21.77
2023-12-12	NA	NA	NA	NA
2023-12-13	52.55	39.41	0.72	10.78
2023-12-14	81.70	41.30	0.60	13.13
2023-12-15	87.04	55.27	0.61	12.45
2023-12-16	84.03	52.98	0.95	11.32
2023-12-17	73.76	55.35	0.64	10.72
2023/12-18	94.01	57.97	0.73	8.94
2023 2-19	68.62	51.47	0.83	5.71

दराबाबू पी. / VARABABU P. प्रम महाशंकर (थी. एवड एस.) (DOM(PAS) हन्द्रोपीली जिमिन्देड/ NTPC Limited यही वरियानु कोवता खनन परियोजना CBCMP हजारीबाग / Hazaribag

2023-12-20	92.48	59.35	0.85	9.23
2023-12-21	94.19	40.64	1.20	10.84
2023-12-22	90.26	47.65	1.49	10.64
2023-12-23	99.01	54.22	1.53	11.89
2023-12-24	95.52	41.70	2.29	17.08
2023-12-25	NA	NA	NA	NA
2023-12-26	84.42	38.34	1.32	8.57
2023-12-27	81.22	58.43	2.14	13.43
2023-12-28	71.64	51.24	2.22	13.72
2023-12-29	95.36	54.05	0.96	13.31
2023-12-30	53.74	50.28	1.33	11.52
2023-12-31	98.47	43.86	3.14	10.24
2024-01-01	80.68	50.41	0.70	9.36
2024-01-02	90.51	57.88	2.29	7.85
2024-01-03	84.61	78.34	1.25	11.36
2024-01-04	13.92	11.04	1.48	12.41
2024-01-05	26.10	NA	1.48	16.94
2024-01-06	73.44	42.54	2.57	11.55
2024-01-07	55.95	20,50	0.92	12.02
2024-01-08	75.54	37.31	1.85	18.94
2024-01-09	83.63	36.87	1.02	12.08
2024-01-10	90.82	54.70	0.22	12.41
2024-01-11	NA	NA	NA	NA
2024-01-12	NA	NA	NA	NA
2024-01-13	87.62	52.71	0.51	9.73
2024-01-14	82.28	54.82	0.23	11.00
2024-01-15	97.15	48.76	1.08	12.89
2024-01-16	74.49	32.57	3.24	10.39
2024-01-17	85.61	40.46	4.62	9.13
2024-01-18	71.28	52.39	2.55	9.05
2024-01-19	84.97	36.12	2.58	9.14
2024-01-20	62.48	52.05	2.07	10.03
2024-01-21	82.93	51.34	0.91	8.88
2024-01-22	89.48	42.43	2.20	13.90
2024-01-23	67.56	37.39	2.01	11.78
2024-01-24	62.41	52.43	0.98	14.61
2024-01-25	90.73	41.23	0.79	11.36
2024-01-26	NA	NA	NA	NA
2024-01-27	NA	NA	NA	NA
2024-01-28	NA	NA	NA	NA
2024-01-29	74.47	25.73	1.79	9.40
2024-01-30	62.43	49.83	1.67	14.74
2024-01-31	75.48	54.62	1.83	11.61
2024-02-01	83.54	52.44	2.31	11.92
2024-02-02	83.28	47.79	0.31	13.53
2024-02-03	NA	NA	NA	NA
2024-02-04	NA	NA	NA	NA
2024-02-05	NA	NA	NA	NA
207/4-02-06	NA	NA	NA	NA
20 4-02-07	NA	NA	NA	NA

यराबाबू पी. / VARABABU P. ज्ञ चलावंकक (थी. एवड एस.) (DOM(PAS) इन्टोपीली जिलेटेड/ NTPC Limited वही वरिवादु कोवला जनन परियोजना CBCMP हजारीबाग / Hazaribag

2024-02-08	31.14	22.05	7.31	10.29
2024-02-09	70.74	38.23	6.20	25.78
2024-02-10	NA	NA	NA	NA
2024-02-11	NA	NA	NA	NA
2024-02-12	89.78	33.47	5.61	7.31
2024-02-13	83.73	50.71	3.00	12.51
2024-02-14	81.43	51.30	2.07	13.12
2024-02-15	97.53	33.60	2.94	11.69
2024-02-16	94.08	25.79	4.16	11.95
2024-02-17	91.56	32.13	5.03	13.88
2024-02-18	62.69	35.27	2.96	15.49
2024-02-19	63.09	34.06	4.46	13.26
2024-02-20	73.04	42.02	5.79	17.28
2024-02-21	77.91	21.34	3.42	15.47
2024-02-22	66.97	23.39	1.45	14.04
2024-02-23	87.10	17.37	1.00	13.20
2024-02-24	NA	24.79	2.61	12.34
2024-02-25	NA	22.59	0.95	9.13
2024-02-26	NA	27,58	2.37	11.53
2024-02-27	NA	17.36	2.06	15.08
2024-02-28	NA	26.63	3.15	8.11
2024-02-29	NA	41.01	2.35	13.79
2024-03-01	NA	25.27	2.06	15.99
2024-03-02	NA 3	27.06	2.56	13.67
2024-03-03	NA	32.43	0.90	11.72
2024-03-04	NA	25.92	1.34	11.05
2024-03-05	96.93	22.24	0.97	15.39
2024-03-06	82.19	15.19	1.78	16.81
2024-03-07	NA	NA	NA	NA
2024-03-08	16.89	8.80	1.22	8.91
2024-03-09	31.40	23.76	1.74	11.76
2024-03-10	46.04	23.19	11.12	10.10
2024-03-11	43.27	25.88	1.62	10.04
2024-03-12	43.51	25.32	2.07	14.75
2024-03-13	51.09	31.66	1.61	24.45
2024-03-14	NA	NA	NA	NA
2024-03-15	26.53	12.32	2.96	6.92
2024-03-16	30.00	22,49	0.08	11.80
2024-03-17	27.27	24.24	2.26	10.39
2024-03-18	59.44	18.00	0.94	8.33
2024-03-19	44.83	15.94	1.22	13.39
2024-03-20	32.62	16.87	0.46	12.82
2024-03-21	12.87	11.79	1.43	12.51
2024-03-22	20.67	19.25	3.36	12.56
2024-03-23	44.57	27.39	4.30	13.49
2024-03-24	50.00	30.50	1.42	14.71
2024-03-25	26.01	31.67	5.89	11.72
2024-03-26	36.62	26.48	3.92	11.03
2024-03-27	34.76	22.38	2.38	9.52
2024-03-28	33.23	19.75	1.10	11.95

यराबाबू पी. / VARABABU P. ज्ञ चलावंकक (थी. एवड एस.) (DOM(PAS) इन्टोपीली जिलेटेड/ NTPC Limited वही वरिवादु कोवला जनन परियोजना CBCMP हजारीबाग / Hazaribag

2024-03-29	41.23	56.54	1.11	9.94
2024-03-30	NA	NA	NA	NA
2024-03-31	NA	NA	NA	NA

दराबाबू पी. / VARABABU P.
प्राच्याका (शे. एवड एस.) (DOM(PAS)
हन्द्रोगीसी शिर्मिटेड/ NTPC Limited
वही वरिवानु कोवला खनन परिकेजना / CBCMP
हजारीबाग । Hazaribag





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001645F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State-Jharkhand	Group	Atmospheric Pollution
Discipline	Chemical	Sample Coffected by	Ranjeet Yadav & Team
Date of Study	12.10.2023 to 13.10,2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	14.10.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/321/NR-213/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	19.10.2023
Meteorological Information	Average Ambient Temperature: 30.0°C, Baron Relative Humidity: 61%, Weather Condition - C		r

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

The same than 1855	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
1. Site Office CBCMP (Coordinates- 23°53'28.16"N to 85°04'57.53"E)	57.5	74.1	59.0	72.9	79.8
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	53.6	74.1	61.3	73.5	79.4
3. Keredari Village (Coordinates- 23°51'49,49"N to 85°05'19.06"E)	55.4	72.0	56.9	70.8	77.7

*** END OF REPORT ***

Remarks-

dB(A) Ld & Ln denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and Lea denotes average of 24 hours which is relatable to human hearing.

Authorized Signatory

Quality Manager

(Piyush Ranjan)

वराबाबू पी. I VARABABU P. प्टा महाप्रवेशक (थी. एवड एस.)। DGM(P&S) हमदोपीशी शिवीदेश NTPC Limited वडी बरियानु कोयता खनन परियोजना / CBCMP

Honfran LHazaribag















TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001646F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05,2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
	District-mazarioaga, State-Juarkaand	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Ranjeet Yadav & Team
Date of Study	13.10.2023 to 14.10.2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	14.10.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/321/NR-214/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	19.10.2023
Meteorological Information	Average Ambient Temperature : 30.0°C, Barometric Relative Humidity : 61%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Lu-Mean (Night)	L _{eq} Mean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	57.2	73.8	58.7	72.6	79.5
5. Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)	49.4	67.8	55.2	67.1	72.8

*** END OF REPORT ***

Remarks-

 $dB(A) L_d \& L_a$ denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

प्य प्रशासक (पी. एवड एस.)। DOM(PAS) इन्द्रोपीसी स्थितेड! NTPC Limited वडी वरिवाद कोवला खनन परिशेजना! CBCMP हजाडियान । Hazaribag Authorized Signatory

Quality Manager (Piyush Ranjan)









^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001647F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05,2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	13.10.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving Date	14.10.2023	Sample Condition	Scaled and Preserved
Sample ID	SCECPL/TR/23/321/NR-215/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	19.10.2023
Meteorological Information	Average Ambient Temperature: 30.0°C, Barometric Relative Humidity: 61%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

Compiler Landler	NOISE LEVEL IN dB(A)			
Sampling Location	Minimum	LegMean	Maximum	
I. Near Excavator Volvo Ex 480 (10 meter Distance from Source)	58.9	78.8	84.7	
2. Dozer CAT - D8 480 (10 meter Distance from Source)	63.9	79.3	86.2	
3.Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	63.3	89.1	83.2	
4. Near Secondary Crusher 480 (10 meter Distance from Source)	54.2	74.1	80.0	

*** END OF REPORT ***

Remarks-

dB(A) $L_d \& L_p$ denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

Authorized Signatory

वराबाबू पी. / VARABABU P.

पन महासंबंधक (ची. एवड एस.)। DOM(PAS) हन्द्रीचीरसी स्थिपिटेड/ NTPC Limited वही वरिचानु कोयता खनन परियोजना। CBCMP

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









Quality Manager

(Piyush Ranjan)

110/23





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001746F	A
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address		Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State-Jharkhand	Graup	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Anup Dutta & Team
Date of Study	27.10.2023 to 28.10.2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	30.10.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/336/NR-221/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	01.11.2023
Meteorological Information	Average Ambient Temperature : 25.5°C , Baron Relative Humidity : 60%, Weather Condition - C		r

Limit in Leg dB(A) (CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT

OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
Y 4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	LeqMean	Maximum
1. Site Office CBCMP (Coordinates- 23°53'28,16"N to 85°04'57.53"E)	52.2	72.1	58.1	71.1	76.9
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	57.6	74.2	59.1	73.0	79.9
3. Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)	52.6	72.5	58.5	71.5	77.3

*** END OF REPORT ***

Remarks-

dB(A) Ld & La denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_m denotes average of 24 hours which is relatable to human hearing. **Authorized Signatory**

वराबाबू पी. / VARABABU P.

bei attention (4)' dan dar') i Dowibys) लारोपीसी क्रिकेश NTPC Limited षडी बरिवातु कोयला खनन परिवोजना / CBCMP gondann LHazaribag

Quality Manager

(Piyush Ranjan)









^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001747F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date = 02.05,2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
District-Hazaribagh, State-Jharkhand	District-mazaribagu, State-Juarknaud	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Anup Dutta & Team
Date of Study	28.10.2023 to 29.10.2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	30.10.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/336/NR-222/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	-01-11.2023
Meteorological Information	Average Ambient Temperature : 25.5°C, Barometric Relative Humidity : 01%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8.	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	57.8	74.4	59.3	73.2	80.1
5. Kishunpur Village (Coordinates- 23°54'58,78"N to 85°01'0.19"E)	50.8	69.2	56.6	68.5	74.2

*** END OF REPORT ***

Remarks-

dB(A) L_{it} & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night
 respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

पन जागानंकक (पी. एवड एस.)। DOM(PAS) इन्द्रोपीसी सिर्विटेड! NTPC Limited वडी वरिवानु कोवला जनन परियोजना! CBCMP स्थानिकान्। Hazaribag

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









Authorized Signatory

Quality Manager

(Piyush Ranjan)









TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001748F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05,2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	28.10.2023	Sample Collected by	Anup Dutta & Team
Sample Receiving Date	30.10.2023	Sample Condition	Sealed and Preserved
Sample ID	SCECPL/TR/23/336/NR-223/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	01.11.2023
Meteorological Information	Average Ambient Temperature: 25.5°C, Barometric		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

Complian I continu	NOISE LEVEL IN dB(A)			
Sampling Location	Minimum	L _{eq} Mean	Maximum	
1. Near Excavator Volvo Ex 480 (10 meter Distance from Source)	59.1	77.9	83.4	
2. Dozer CAT - D8 480 (10 meter Distance from Source)	58.4	78.3	84.2	
3. Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	68.1	83.5	90.4	
4. Near Secondary Crusher 480 (10 meter Distance from Source)	55.4	73.1	78.8	

*** END OF REPORT ***

Remarks-

dB(A) L_{tt} & L_{tt} denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

Authorized Signatory

वराबाबू पी. / VARABABU P.

का पहाराबंधक (ची. एवड एस.)। DGM(P&S) इन्ह्रीपीली क्रिकिटेड/ NTPC Limited वड्डी वरिवाद कोवला खनन परियोजना/ CBCMP

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









Quality Manager

(Piyush Runjan)

^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001783F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines	
	P.SKeredari, District-Hazaribagh State-Jharkhand	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Ranjeet Yadav & Team
Date of Study	09.11.2023 to 10.11.2023	Sample Condition	Scaled and Preserved
Sample Receiving Date	11.11.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/346/NR-230/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	16.11.2023
Meteorological Information	Average Ambient Temperature : 25.0°C , Baron Relative Humidity : 59%, Weather Condition - C		r

Limit in Leg dB(A) (CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

AMBIENT NOISE QUALITY REPORT

PERMISSIBLE NOISE EXPOSURE	FOR
INDUSTRIAL WORKERS	

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
V2	102
Y4	105
1/8	108
1/16	111
1/32	114

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximun
1. Site Office CBCMP (Coordinates- 23°53'28.16"N to 85°04'57.53"E)	54.4	72.8	60.2	72.1	77.8
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	54.4	74.3	60.3	73.3	79.1
3. Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)	57.2	74.0	58.7	72.8	79.1

*** END OF REPORT ***

Remarks-

dB(A) Ld & La denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and Loa denotes average of 24 hours which is relatable to human hearing. **Authorized Signatory**

Quality Manage (Piyush Ranjan)

वराबाबू पी. I VARABABU P. प्टा प्राप्तकाम (थी. एवड एस.)। DGM(P&S) eschilet fidics/ NTPC Limited वडी बरिवानु कोयला खनन परिवोजना। CBCMP guntum | Hazaribag









^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001784F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address At- Chatti Bariatu, Jordag & Pagar, P.SKeredari,	Particular of the Plant	Coal Mines	
	District-Hazaribagh, State-Jharkhand	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Ranjeet Yadav & Team
Date of Study	10.11.2023 to 11.11.2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	11.11.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/346/NR-231/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	16.11.2023
Meteorological Information	Average Ambient Temperature : 25.0°C, Barometric Relative Humidity : 59%, Weather Condition - Clea		4,

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Meau (Night)	L _{eq} Mean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	58.3	74.9	59.8	73.7	80.6
5. Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)	38.7	59.3	46.4	58.6	64.5

*** END OF REPORT ***

Remarks-

 $dB(A) L_d \& L_n$ denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

प्य प्रशासक (पी. एवड एस.)। DOM(PAS) इन्द्रोपीसी सिर्विटेड / NTPC Limited वडी वरिवातु कोवला खनन परियोजना / CBCMP हजारिवान् । Hazaribag Authorized Signatory

Quality Manager (Piyush Ranjan)









^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001785F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	10.11.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving Date	11.11.2023	Sample Condition	Sealed and Preserved
Sample ID	SCECPL/TR/23/346/NR-232/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	16.11.2023
Meteorological Information	Average Ambient Temperature : 25.0°C, Barometric Relative Humidity : 59%, Weather Condition - Clea		

Limit in Leq dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A	
8	90	
4	93	
2	96	
1	99	
1/2	102	
1/4	105	
1/8	108	
1/16	111	
1/32	114	

SOURCE NOISE QUALITY REPORT

0 · · ·	NOISE LEVEL IN dB(A)		
Sampling Location	Minimum	L _{eq} Mean	Maximum
1. Near Excavator Volvo Ex 480 (10 meter Distance from Source)	56,9	76.8	82.7
2. Dozer CAT - D8 480 (10 meter Distance from Source)	60.3	79.1	84.6
3. Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	62.7	82.6	88.5
4. Near Secondary Crusher 480 (10 meter Distance from Source)	58.9	74.3	81.2

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

Authorized Signatory

Quality Manager (Piyush Ranjan)

वराबाबू पी. / VARABABU P. या प्रशासक (थी. एवड एस.) / DOM(PAS) रूटोपीली जिलिटेड / NTPC Limited वही वरिवातु कोवला वानन परिवोधना / CBCMP













TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001884F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines	
	Group	Atmospheric Pollution	
Discipline	Chemical	Sample Collected by	Ranjeet Yadav & Team
Date of Study	27.11.2023 to 28.11.2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	29.11.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/354/NR-234/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	30.11.2023
Meteorological Information	Average Ambient Temperature : 24.5°C , Baron Relative Humidity : 61%, Weather Condition - C		r

Limit in Leq dB(A)
(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF
ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT
OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

- *Day time is reckoned in between 6:00 A.M. & 10:00 P.M.
- * Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

AMBIENT NOISE QUALITY REPORT

PERMISSIBLE	NOISE	EXPOSURE	FOR
INDUSTRIA	L WOI	RKERS	

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

NOISE LEVEL IN dB(A)				
Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
57.6	74.2	59.1	73.0	79.9
54.0	73.7	59.9	72.8	78.3
54.8	73.2	60.6	72.5	78.2
	57.6 54.0	Minimum Ld-Mean (Day) 57.6 74.2 54.0 73.7	Minimum Ld-Mean (Day) Ln-Mean (Night) 57.6 74.2 59.1 54.0 73.7 59.9	Minimum Ld-Mean (Day) Ln-Mean (Night) L _{eq} Mean 57.6 74.2 59.1 73.0 54.0 73.7 59.9 72.8

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{∞} denotes average of 24 hours which is relatable to human hearing.

- Aı

Authorized Signatory

Quality Manager (Piyush Ranjan)

वराबाबू पी. / VARABABU P.
जः प्राप्तकाम (पी. एवड एस.) / DOM(Pas)
ज्ञानीवीली क्रिकिटेड / NTPC Limited
वर्षी वरिवाद कोवला जनन परियोजना / CBCMP
हजारीवान / Hazaribag















TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001885F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari,	Particular of the Plant	Coal Mines
District-Hazaribagh, State-Jharkhand	Group	Atmospheric Pollution	
Discipline	Chemical	Sample Collected by	Ranjeet Yadav & Team
Date of Study	28.11.2023 to 29.11.2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	29.11.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/354/NR-235/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	30.11.2023
Meteorological Information	Average Ambient Temperature : 24.5°C, Barometric Relative Humidity : 61%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2,	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	52.6	72,3	58.5	71.4	76.9
5. Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)	44.4	61.0	45.9	59.8	66.7

Remarks-

 dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

*** END OF REPORT ***

वराबाबू पी. / VARABABU P.

पन महासंस्था (ची. एवड एस.)। DOM(PAS) इन्द्रोपीसी जितनेटेड! NTPC Limited वही वरिवाद कोवला खनन परिवोजना! CBCMP अजारीबाद, LHazaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)











^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001886F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	28.11.2023	Sample Collected by	Ranjeet Yadav & Team
Sample Receiving Date	29.11.2023	Sample Condition	Sealed and Preserved
Sample ID	SCECPL/TR/23/354/NR-236/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	30.11.2023
Meteorological Information	Average Ambient Temperature : 24.5°C, Barometric Relative Humidity : 61%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

SOURCE NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL IN dB(A)			
Samping Location	Minimum	L _{ea} Mean	Maximun	
1. Near Excavator Volvo Ex 480 (10 meter Distance from Source)	58.4	76.1	81.8	
2. Dozer CAT - D8 480 (10 meter Distance from Source)	63.1	78.5	85.4	
3. Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	61.5	81.4	87.3	
4. Near Secondary Crusher (10 meter Distance from Source)	58.6	74.0	80.9	

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_a denotes the time weighted average of the level of sound in decibels on scale(A) in day and night
 respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

Authorized Signatory

Quality Manager (Piyush Ranjan)

वराबाबू पी. I VARABABU P.

प्या पहालंबाक (पी. एवड एस.) / DOM(PAS) इन्द्रविपीती जिलिटेड / NTPC Limited वही वरिवानु कोवता.वात्तर परिवोजना / CBCMP

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











2023





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001907F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines
		Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Md. R. Rahman & Team
Date of Study	14.12.2023 to 15.12.2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	16.12.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/362/NR-240/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	19.12.2023
Meteorological Information	Average Ambient Temperature: 18°C, Barome Relative Humidity: 58%, Weather Condition - C		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT

OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
V4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
1. Site Office CBCMP (Coordinates- 23°53'28.16"N to 85°04'57.53"E)	54.0	73.7	59.9	72.8	78.3
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	54.6	73.0	60.4	72.3	78.0
3. Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)	53.9	72.3	59.7	71.6	77.3

*** END OF REPORT ***

Remarks-

 dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_n denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

का महाराज्य (थी. एवड एस.)। DOM(PAS) एनटोपीटरी जिमिटेड/ NTPC Limited Quality Manager (Piyush Ranjan)

Authorized Signatory

Registered Office ; Aarti Bhawan, Bawan Bighan and Charles (Jharkhand)

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











^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

> Exposure time (in hours per day) R 4

> > 2

1

1/2 1/4

1/8

1/16

1/32

Limit in dB(A)

93 96

99

102

105

108

111

114

TEST REPORT

Unique Lab Report	t No. (ULR No.)	TC994823000001908F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address		Particular of the Plaut	Coal Mines
	District-Hazaribagh, State-Jharkhand	Jharkhand Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Md. R. Rahman & Team
Date of Study	15.12.2023 to 16.12.2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	16.12.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/362/NR-241/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	19.12.2023
Meteorological Information	Average Ambient Temperature : 18°C, Barometric I Relative Humidity : 58%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

- *Day time is reckoned in between 6:00 A.M. & 10:00 P.M.
- * Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	52.2	72,8	59.9	72.1	78.0
5. Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)	41.7	61.3	46.9	60.2	65.1

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and Lag denotes average of 24 hours which is relatable to human hearing.

*** END OF REPORT ***

वराबाबू पी. / VARABABU P.

प्रशासकात (श्री. तंतर रंगः)। DOM(PAS) लादीवीशी शिवीदेश NTPC Limited षड्डी बरियात् कोयला खनन परियोजना / CBCMP **Authorized Signatory**

Quality Manage (Piyush Ranjan)















TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001909F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05,2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	15.12.2023	Sample Collected by	Md. R. Rahman & Team
Sample Receiving Date	16.12.2023	Sample Condition	Sealed and Preserved
Sample ID	SCECPL/TR/23/362/NR-242/01,02,03 & 04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	19.12.2023
Meteorological Information	Average Ambient Temperature: 18°C, Barometric I Relative Humidity: 58%, Weather Condition - Clea		

Limit in Leg dB(A) (CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF

ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
I.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckened in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Limit in dB(A)	
90	
93	
96	
99	
102	
105	
108	
111	
114	

SOURCE NOISE QUALITY REPORT

S	NOISE LEVEL IN dB(A)			
Sampling Location	Minimum	L _{eq} Mean	Maximum	
1, Near Excavator Volvo Ex 410 (10 meter Distance from Source)	58.1	75.8	81.5	
2. Dozer CAT - D8 480 (10 meter Distance from Source)	57.6	77.2	82.8	
3.Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	60.7	80.6	86.5	
4. Near Secondary Crusher (10 meter Distance from Source)	56.1	73.8	79.5	

*** END OF REPORT ***

Remarks-

 dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

प्य प्राथमक (थी. एवड एस.)। Dompas) |कारोपीरी स्थितिक NTPC Limited Authorized Signatory

Quality Manager (Piyush Ranjan)

Registered Office: Aarti Bhawai, Barvai, Brinas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact: 09334315731, 07563048389, e-mill: scecplmdp@gmail.com

ISO













TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001922F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State-Jharkhand		Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Ranjeet Yadav & Team
Date of Study	21.12.2023 to 22.12.2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	23.12.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/371/NR-246/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	26.12.2023
Meteorological Information	Average Ambient Temperature: 19°C, Barome Relative Humidity: 64%, Weather Condition - C		

CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT

OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1,	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

The same is recovered in north cent 10.00

Exposure time (in hours per day)	Limit in dB(A)	
8	90	
4	93	
2	96	
1	99	
1/2	102	
Y 4	105	
1/8	108	

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

ANNUAL PROPERTY OF THE PROPERT	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	·Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
1. Site Office CBCMP (Coordinates- 23°53'28.16"N to 85°04'57.53"E)	53.7	72.1	59.5	71.4	77.1
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	52.2	72.5	58.9	71.6	76.8
3. Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)	52.5	72.2	58.4	71.3	76.8

Remarks-

 dB(A) L_d & L₀ denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{ee} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

कः महास्थान (पी. एवड एस.)। DOM(PAS) इन्द्रीपीटी जिलेटेड/ NTPC Limited

Registered Office : Aarti Bhawan, Bawan किंगु । Machan Madhupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563048389, e-mail : scecplmdp@gmail.com











athanized Signatory

^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994823000001923F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari,	Particular of the Plant	Coal Mines
	District-Hazaribagh, State-Jharkhand	Group.	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Ranjeet Yadav & Team
Date of Study	22.12.2023 to 23.12.2023	Sample Condition	Sealed and Preserved
Sample Receiving Date	23.12.2023	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/371/NR-247/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	26.12.2023
Meteorological Information	Average Ambient Temperature : 19°C, Barometric I Relative Humidity : 64%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

s.n.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
V4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

NOISE LEVEL IN dB(A)				
Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
48.7	69.3	56.4	68.6	74.5
44.7	65.3	52.4	64.6	70.5
	48.7	48.7 (Day)	Minimum (Day) (Night) 48.7 69.3 56.4	Minimum (Day) (Night) L _{eq} Mean 48.7 69.3 56.4 68.6

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{pq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

प्राच पहारांक्य (ची. एवड एस.) / DOM(PAS) हन्द्रीपीट्सी शिक्टेड / NTPC Limited वही वरिवानु कोवता खनन परियोजना / CBCMP अध्यक्षिण / Maxaribag Carterized Signatory

anulity manager Tryuth Ranjan)















TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994823000001924F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date = 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	22.12.2023	Sample Collected by	Ranjeet Vaday & Team
Sample Receiving Date	23.12.2023	Sample Condition	Sealed and Preserved
Sample ID	SCECPL/TR/23/371/NR-248/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	26.12.2023
Meteorological Information	Average Ambient Temperature : 19°C, Barometric I Relative Humidity : 64%, Weather Condition - Clea	Pressure : 1018 mBar	L management

Limit in Leq dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

SOURCE NOISE QUALITY REPORT

Sampling Location	NOISE I	NOISE LEVEL IN dB(A)		
Sampling Location	Minimum	LeaMean	Maximum	
1. Near Excavator Volvo Ex 410 (10 meter Distance from Source)	54.7	74.6	80.5	
2. Dozer CAT - D8 480 (10 meter Distance from Source)	61.4	76.8	83.7	
3.Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	63.5	81.2	86.9	
4. Near Secondary Crusher (10 meter Distance from Source)	58.8	74.2	81.1	

*** END OF REPORT ***

Remarks-

dB(A) La & Lu denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and I and denotes average of 24 hours which is relatable to human hearing

वराबाबू पी. / VARABABU P.

का पहारबंधक (थी. एवड एस.)। DOM(PAS) कारोपीशी शिर्वपेड NTPC Limited

Registered Office: /as. 19334315731, 07563048389, e-mail: scecplmdp@gmail.com











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(Piyasa Ranjan)

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^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC9948240000001721	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address At- Chatti Bariatu, Jordag & Pagar P.SKeredari, District-Hazaribagh State-Jharkhand	Particular of the Plant	Coal Mines	
	Group	Atmospheric Pollution	
Discipline	Chemical	Sample Collected by	Vivek Kr. Malakar & Team
Date of Study	08.01.2024 to 09.01.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	10.01.2024	Sampling Method	1S:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/24/15/NR-12/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambieut Noise	Report Release Date	16.01.2024
Meteorological Information	Average Ambient Temperature : 18.5°C , Baron Relative Humidity : 58%, Weather Condition - C		ir

Limit in Leq dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

AMBIENT NOISE OUALITY DEBODT

PERMISSIBLE	NOISE	EXPOSURE	FOR
INDUSTRIA	L WO	RKERS	

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	LeqMenn	Maximum
1. Site Office CBCMP (Coordinates- 23°53'28.16"N to 85°04'57.53"E)	53.1	71,5	58.9	70.8	76.5
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	53.5	73.1	58.7	72.0	76.9
3. Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)	53.0	72.7	58.9	71.8	77.3

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and Lea denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

प्ल पालकंडक (थी. एवड एस.)। DOM(PAS) predicted Softer NTPC Limited

Registered Office : Aarti Bhawan, Bawan @gister + J. Wachupur, Dist-Deoghar-815353 (Jharkhand)
Contact : 09334315731, 07563046369, e-mail : scecplmdd@gmail.com











Quality Manager (Piyush Ranjan)

^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000173F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
District-Hazaribaga,	District Trasar loago, State Onal anality	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Vîvek Kr. Malakar & Team
Date of Study	09.01.2024 to 10.01.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	10.01.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/15/NR-13/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	16.01.2024
Meteorological Information	Average Ambient Temperature : 18.5°C, Barometric Relative Humidity : 58%, Weather Condition - Clea	Pressure :1017 mBar	

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/4	102
V4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	48.7	68.4	54.6	67.5	73.0
5. Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)	48.4	66.8	54.2	66.1	71.8

*** END OF REPORT ***

Remarks-

 dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{nq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

प्त्य पहाराबंधक (पी. एवड एस.)। DOM(PAS) इन्द्रीयोजी क्रिकिटेड/ NTPC Limited वही बरिवातु कोवला खनन परियोजना। CBCMP Authorized Signatory

Quality Manager (Piyush Ranjan)











^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	Unique Lab Report No. (ULR No.)		
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	09.01.2024	Sample Collected by	Vivek Kr. Malakar & Team
Sample Receiving Date	10.01.2024	Sample Condition	Sealed and Preserved
Sample ID	SCECPL/TR/24/15/NR-14/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	16.01.2024
Meteorological Information	Average Ambient Temperature: 18.5°C, Barometric Relative Humidity: 58%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

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MACK Phrush Ranjan)

Manager Manager

SOURCE NOISE QUALITY REPORT

	NOISE I	NOISE LEVEL IN dB(A)			
Sampling Location	Minimum	LeqMean	Maximum		
1. Near Excavator Volvo Ex 410 (10 meter Distance from Source)	55.0	73.8	79.3		
2. Dozer CAT - D8 480 (10 meter Distance from Source)	60.5	75.9	82.8		
3. Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	60.9	79.4	84.3		
4. Near Secondary Crusher (10 meter Distance from Source)	54.0	73.9	79.8		

*** END OF REPORT ***

Remarks-

dB(A) Lu & Ln denotes the time weighted average of the level of sound in deetbels on scale(A) in day and night

respectively and La denotes average of 24 hours which is relatable to human hearing

वराबाबू पी. I VARABABU P.

का प्रशासका (थी. एवड एस.)। DOM(PAS) इन्द्रीपीट्सी जिलिटेड। NTPC Limited वडी बरियानु कोयला-खनन-परियोजना / CBCMP

with the state of the second o Contact: 09334315731, 07563048389, e-mail: scecplmdp@gmail.com











^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.







TEST REPORT

Unique Lab Report	AND AND ADDRESS OF THE PARTY OF	TC994824000000211	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State-Jharkhand	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Md. R. Rahamn & Team
Date of Study	29.01.2024 to 30.01.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	31.01.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/24/34/NR-27/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	02.02.2024
Meteorological Information	Average Ambient Temperature : 20.5°C, Barome Relative Humidity : 56%, Weather Condition - C	tric Pressure :1017 mBar	

Limit in Leg dB(A)
(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF
ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT
OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
t.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

Maritic of Maritime Annual Store St.	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
1. Site Office CBCMP (Coordinates- 23°53'28.16"N to 85°04'57.53"E)	50.6	71.0	57.8	70.2	75.8
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	56.5	73.1	58.0	71.9	78.8
3. Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)	52.2	72.8	59.9	72.1	78.0

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_a denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

प्रा प्रशासक (पी. एवड एस.) (DOMPAS) हन्द्रीपीट्सी शिविदेड / NTPC Limited पड़ी चरियानु कोयला खनन परियोजना / CBCMP हजारीयान् । Hazaribag

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











Authorized Signatory

Ountity Manager

(Rivash Ranjan)

145h 02/02/2024

^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.







TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000212F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari,	Particular of the Plant	Coal Mines
	District-Hazaribagh, State-Jharkhand	Group Sample Collected by	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Md. R. Rahman & Team
Date of Study	30.01.2024 to 31.01.2024	Sample Condition	Sealed and Preserved
Sample Receiving	31.01.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/34/NR-28/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	02.02.2024
Meteorological Information	Average Ambient Temperature : 20.5°C, Barometric Relative Humidity : 56%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
V4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	LeqMean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	53.2	71.6	59.0	70.9	76.6
5. Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)	48.3	68.9	56.0	68.2	74.1

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night
 respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

का पहारबंधक (पी. एण्ड एस.)। DOM(PAS) इन्द्रीपीली क्रिकेटेड/ NTPC Limited वडी वरिवायु कोवला खनन परियोजना। CBCMP इज्राधियान । Hazaribag Ouallty Manager

(Riyush Ranjan)

















Environmental Consultancy Pvt. Ltd.

TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994824000000213F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05,2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	30.01,2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving Date	31.01.2024	Sample Condition	Scaled and Preserved
Sample ID	SCECPL/TR/24/34/NR-29/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	02.02.2024
Meteorological Information	Average Ambient Temperature : 20.5°C, Barometric Relative Humidity : 56%, Weather Condition - Clean	Pressure :1017 mBar	

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

s.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Limit in dB(A)
90
93
96
99
102
105
108
111
114

SOURCE NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL IN dB(A)		
Samping Location	Minimum	L _{eq} Mean	Maximum
1. Near Excavator Volvo Ex 410 (10 meter Distance from Source)	54.2	74.1	80.0
2. Dozer CAT - D8 480 (10 meter Distance from Source)	59.4	74.8	81.7
3.Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	58.8	78.7	84.6
4. Near Secondary Crusher (10 meter Distance from Source)	55.2	72.9	78.6

Remarks-

*** END OF REPORT ***

 $dB(A) L_d \& L_n$ denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

जन पहाराबंधक (ची. एवड एस.)। DOM(PAS) इन्होंगीजी जिलेन्द्रेश NTPC Limited वड़ी वरियातु डोसला खनन परियोजना। CBCMP

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











Quality Manager

MA (Piyush Ranjan)

02/02/2024

^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC9948240000002551	F
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State-Jharkhand	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Md. R. Rahamn & Team
Date of Study	15.02.2024 to 16.02.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	17.02.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/24/50/NR-42/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	21.02.2024
Meteorological Information	Average Ambient Temperature : 23.5°C, Barome Relative Humidity : 55%, Weather Condition - C		

Limit in Leq dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
1. Site Office CBCMP (Coordinates- 23°53'28.16"N to 85°04'57.53"E)	49.2	69.8	56,9	69.1	75.0
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	52.1	71.7	57.3	70.6	75.5
3. Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)	56.1	72.7	57.6	71.5	78.4

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night
 respectively and L_m denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

का महासंकात (ची. एवड एस.)। DOM(PAS) हन्द्रीपीटरी मिनिप्टेड! NTPC Limited वही वरिवानु कोवला खनन परिवोजना। CBCMP हजारीबाग । Hazaribag Authorized Signatory

Quality Manager (Prysis Ranjan)











^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000256F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address			Coal Mines
	District-Hazaribagh, State-Jharkhand	tate-Jharkhand Group	
Discipline	Chemical	Sample Collected by	Md. R. Rahman & Team
Date of Study	16.02.2024 to 17.02.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	17.02.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/24/50/NR-43/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	21.02.2024
Meteorological Information	Average Ambient Temperature : 23.5°C, Barometric Relative Humidity : 55%, Weather Condition - Clea		

Limit in Lea dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in bours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	51.3	71.9	59.0	71.2	77.1
5. Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)	49.8	68.2	55.6	67.5	73.2

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_u denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

पन पहारतंत्रक (पी. एवड एस.) i DOM(PAS) इन्द्रोपीसी सिर्वपेटेड i NTPC Limited वडी वरिवानु कोवला खनन परिवोजना i CBCMP हजारीवान i Hazaribag Authorized Signatory
145h
21042024
Waality Manager
(Private Ranjan)











^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994824000000257F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	16.02.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving Date	17.02.2024	Sample Condition	Sealed and Preserved
Sample ID	SCECPL/TR/24/50/NR-44/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	21.02.2024
Meteorological Information	Average Ambient Temperature : 23.5°C, Barometric Relative Humidity : 55%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

SOURCE NOISE OUALITY REPORT

Sampling Varieties	NOISE LEVEL IN dB(A)			
Sampling Location	Minimum	LegMean	Maximum	
1. Near Excavator Volvo Ex 410 (10 meter Distance from Source)	55.3	74.9	78.7	
2. Dozer CAT - D8 480 (10 meter Distance from Source)	58.8	75.4	81.1	
3. Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	57.9	78.5	83.7	
4. Near Secondary Crusher (10 meter Distance from Source)	53.2	73.8	79.0	

*** END OF REPORT ***

Remarks-

 dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing (ARE).

वराबाबू पी. / VARABABU P.

का महालंबन (थी. एवड एस.)। DOMPAS) हम्द्रीपीटी स्थितिक LMTPC Limited

वर्ध वरिवाद कोवता वरह पुरिश्व वर्ग (CBCMP) : Aarti Bhawan, Bawan Bighas, PO- Madhupur, Dist-Deoghar-815353 (Jharkhand) हजारिवार । Hazaribag Contact : 09334315731, 07563048389, e-mail : scecplmdp@gmail.com











USh 2024

uality Manager

ush Ranjan)





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC9948240000003031	7
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State-Jharkhand	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Md. R. Rahamn & Team
Date of Study	26.02.2024 to 29.02.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	29.02.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/24/59/NR-48/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	02.03.2024
Meteorological Information	Average Ambient Temperature : 24.5°C, Barome Relative Humidity : 61%, Weather Condition - C		

Limit in Leg dB(A)
(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF
ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT
OF INDIA)

CATEGORY OF S.N. DAY TIME NIGHT TIME AREA Industrial Area 1. 75 70 2. Commercial Area 65 55 3. Residential Area 55 45 50 4. Silence Zone 40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
. 2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
1. Site Office CBCMP' (Coordinates- 23°53'28.16"N to 85°04'57.53"E)	50.2	70.8	57.9	70.1	76.0
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	52.7	73.1	59.9	72.3	77.9
3. Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)	53.1	71.5	58.9	70.8	76.5

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

Authorized Signatory

वराबाबू पी. I VARABABU P.

पर महासंबंधक (ची. एवड एस.)। DOM(PAS) हन्द्रोपीशी शिक्टेड / NTPC Limited वही वरिवानु कोयला खनन परिवोजना I CBCMP प्रवासिका । Hazaribag

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











145h 02 03 2024

Quality Manager (Piyash/Ranjan)









TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000304F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari,	Particular of the Plant	Coal Mines
	District-Hazaribagh, State-Jharkhand	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Md. R. Rahman & Team
Date of Study	27.02.2024 to 28.02.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	29.02.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/23/59/NR-49/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	02.03.2024
Meteorological Information	Average Ambient Temperature : 24.5°C, Barometric Relative Humidity : 61%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	55.6	72.2	57.1	71.0	77.9
5. Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)	49,2	67.6	55.0	66.9	72.6

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night
respectively and L_∞ denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

पन महाशंका (ची. एवड एस.)। DOM(PAS) हन्द्रोपीसी सिर्विटेड! NTPC Limited यही बरिवानु कोवला खनन परियोजना CBCMP हवादियान्। Maxaribag Authorized Signatory

Quality Manager (Piyush Ranjan)















TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994824000000305F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	27.02.2024	Sample Collected by	Md. R. Rahama & Team
Sample Receiving Date	29.02.2024	Sample Condition	Sealed and Preserved
Sample ID	SCECPL/TR/24/59/NR-50/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	02.03.2024
Meteorological Information	Average Ambient Temperature : 24.5°C, Barometric Relative Humidity : 61%, Weather Condition - Clean	Pressure :1017 mBar	1

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
Y ₂	102
1/4	105
1/8	108
1/16	111
1/32	114

SOURCE NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL IN dB(A)		
Samping Lucation	Minimum	L _{ee} Mean	Maximum
i. Near Excavator Volvo Ex 410 (10 meter Distance from Source)	57.4	72.8	79.7
2. Dozer CAT - D8 480 (10 meter Distance from Source)	53.0	72.9	78.8
3. Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	57.6	76.4	81.9
4. Near Secondary Crusher (10 meter Distance from Source)	53.3	73.2	79.1

*** END OF REPORT ***

Remarks-

dB(A) Ld & Ln denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and Loa denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

प्ता महात्रवंशक (थी. एवड एस.)। DOM(PAS) लारोपीसी क्रिकेश NTPC Limited यही बरियातु कोयला-खनन-परियोजना (CBCMP

Madhupur, Dist-Deoghar-815353 (Jharkhand) Contact: 09334315731, 07563048389, e-mail: scecpimdp@gmail.com











ysh

Quality Manager

(Piyudi Ranjan)

02/03/2024

^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC9948240000003441	P.
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
	P.SKeredari, District-Hazaribagh State-Jharkhand	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Md. R. Rahamn & Team
Date of Study	11.03.2024 to 12.03.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	13.03.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/24/80/NR-63/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	16.03.2024
Meteorological Information	Average Ambient Temperature : 26.5°C, Baromo Relative Humidity : 57%, Weather Condition - C		

Limit in Leq dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

CATEGORY OF S.N. DAY TIME NIGHT TIME AREA Industrial Area 75 70 1. 65 2. Commercial Area 55 Residential Area 55 45 3. 4. Silence Zone 50 40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
V4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	LegMean	Maximum
1. Site Office CBCMP (Coordinates- 23°53'28.16"N to 85°04'57.53"E)	50.4	71.0	58.1	70.3	76.2
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	56.1	72.7	57.6	71.5	78.4
3. Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)	51.2	71.8	58.9	71.1	77.0

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively
 And L_{eq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

क्ष्म च्यावंडक (ची. एवड एस.) I DOM(PAS) इन्डोपीटी जिलेटेड/ NTPC Limited वही वरियानु कोवला खनन परियोजना I CBCMP इजारीबान I Hazaribag Authorized Signatory

2024

Quality Manager (Piyush Ranjan)















TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000345F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date = 02.05.2023
Address At-Chatti Bariatu, Jordag & Pagar, P.SKeredari,	Particular of the Plant	Coal Mines	
	District-Hazaribagh, State-Jharkhand	Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Md. R. Rahman & Team
Date of Study	12.03.2024 to 13.03.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	13.03.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/24/80/NR-64/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	16.03.2024
Meteorological Information	Average Ambient Temperature : 26.5°C, Barometric Relative Humidity : 57%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
V4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	L _{eq} Mean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	55.3	72.1	56.8	70.9	77.2
5. Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)	49.4	67.8	55.2	67.1	72.8

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and L_n denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

पण महासंस्था (ची. एवड एस.)। DOM(PAS) हन्द्रीपीशी शितिदेश NTPC Limited वही वरिवातु कोवला खनन परिवोधना। CBCMP हजारीवान । Hazaribag Authorized Signatory

Quality Manager (Piyush Ranjan)















TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994824000000346F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	12.03.2024	Sample Collected by	Md. R. Rahamn & Team
Sample Receiving Date	13.03.2024	Sample Condition	Sealed and Preserved
Sample ID	SCECPL/TR/24/80/NR-65/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	16.03.2024
Meteorological Information	Average Ambient Temperature : 26.5°C, Barometric Relative Humidity : 57%, Weather Condition - Clea		1

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
ı.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

SOURCE NOISE QUALITY REPORT

P	NOISE LEVEL IN dB(A)			
Sampling Location	Minimum	LeaMean	Maximun	
1. Near Excavator Volvo Ex 410 (10 meter Distance from Source)	53.2	73.1	79.0	
2. Dozer CAT - D8 480 (10 meter Distance from Source)	58.9	74.3	81.2	
3.Tata Hitachi Drill (EX 2102C) 480 (10 meter Distance from Source)	55.6	75.2	80.8	
4. Near Secondary Crusher (10 meter Distance from Source)	52.7	72.6	78.5	

*** END OF REPORT ***

Remarks-

Authorized Signatory
DUUS 1002U

Quality Manager (Piyush Ranjan)

वराबाबू पी. / VARABABU P.

प्रम पहाराबंधक (ची. एवड एस.)। DOM(PAS) इन्होंगीजी जिलेन्टेड/ NTPC Limited वही वरिवाद कोवला. जन्म परिवादना/ CBCMP











^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994824000000394	P
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar	Particular of the Plant	Coal Mines
P.SKeredari, District-Hazaribagh State-Jharkhand		Group	Atmospheric Pollution
Discipline	Chemical	Sample Collected by	Md. R. Rahamn & Team
Date of Study	27.03.2024 to 28.03.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	30.03.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/24/95/NR-76/01,02 & 03	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	01.04.2024
Meteorological Information	Average Ambient Temperature : 30.5°C, Barome Relative Humidity : 60%, Weather Condition - C	tric Pressure :1013 mBar Tear	

Limit in Leg dB(A) (CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

* Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
V ₂	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

Contraction of the Contract	NOISE LEVEL IN dB(A)				
Sampling Location	Minimum	Ld-Mean (Day)	Ln-Mean (Night)	LegMean	Maximum
1. Site Office CBCMP (Coordinates- 23°53'28.16"N to 85°04'57.53"E)	53.7	72.1	59.5	71.4	77.1
2. Kabed Village (Coordinates- 23°53'23.0"N to 85°05'23.8"E)	50.9	71.5	58.6	70.8	76.7
3. Keredari Village (Coordinates- 23°51'49.49"N to 85°05'19.06"E)	56.2	72,8	57.7	71.6	78.5

*** END OF REPORT ***

Remarks-

dB(A) Ld & Ln denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and Lea denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. I VARABABU P.

प्रा पालकंडक (थी. एवड एस.)। DGM(P&S) हम्बोपीशी शिविदेश NTPC Limited वडी वरियानु कोयला खनन परियोजना। CBCMP हजाडीबाग । Hazaribag Quality Manager

(Piyush Ranjan)

Authorized Signatory

















TEST REPORT

Unique Lab Repor	t No. (ULR No.)	TC994824000000395F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines	
	Group	Atmospheric Pollution	
Discipline	Chemical	Sample Collected by	Md. R. Rahman & Team
Date of Study	28.03.2024 to 29.03.2024	Sample Condition	Sealed and Preserved
Sample Receiving Date	30.03.2024	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample ID	SCECPL/TR/24/95/NR-77/04 & 05	Sample Drawn by	Sabz Care Lab
Sample details	Ambient Noise	Report Release Date	01.04.2024
Meteorological Information	Average Ambient Temperature : 30.5°C, Barometric Relative Humidity : 60%, Weather Condition - Clea		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2,	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

AMBIENT NOISE QUALITY REPORT

		NOIS	SE LEVEL IN	dB(A)	
Sampling Location	Minimum	Ld-Mean (Day)	La-Mean (Night)	LeqMean	Maximum
4. Chatti Bariatu Village (Coordinates- 23°53'18.32"N to 85°04'16.70"E)	52.1	70.5	57.9	69.8	75.5
5. Kishunpur Village (Coordinates- 23°54'58.78"N to 85°01'0.19"E)	48.3	68.7	55.5	67.9	73.5

*** END OF REPORT ***

Remarks-

dB(A) L_d & L_n denotes the time weighted average of the level of sound in decibels on scale(A) in day and night
 respectively and L_{eq} denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. I VARABABU P.

पर महास्थाम (पी. एवड एस.)। DOM(PAS) हनटोपीली जिनिटेड / NTPC Limited यही वरियातु कोयला खनन परियोजना / CBCMP हजारीबान | Hazzaribag **Authorized Signatory**

Quality Manager (Piyush Ranjan)

104/2024











^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.





TEST REPORT

Unique Lab Report	No. (ULR No.)	TC994824000000396F	
Name of Customer	Chatti Bariatu Coal Mining Project, NTPC Ltd.	Work Order No.	CBCMPL/WO/23-24/018 Date - 02.05.2023
Address	At- Chatti Bariatu, Jordag & Pagar, P.SKeredari, District-Hazaribagh, State-Jharkhand	Particular of the Plant	Coal Mines
Discipline	Chemical	Group	Atmospheric Pollution
Date of Study	28.03.2024	Sample Collected by	Md. R. Rahama & Team
Sample Receiving Date	30.03.2024	Sample Condition	Sealed and Preserved
Sample ID	SCECPL/TR/24/95/NR-78/01,02,03,04	Sampling Method	IS:9989-1981 (Reaffirmed-2020)
Sample Drawn by	Sabz Care Lab	Sample Drawn by	Sabz Care Lab
Sample Details	Source Noise	Report Release Date	01.04.2024
Meteorological Information	Average Ambient Temperature : 30.5°C, Barometric Relative Humidity : 60%, Weather Condition - Clean		

Limit in Leg dB(A)

(CENTRAL POLLUTION CONTROL BOARD, MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE, GOVERNMENT OF INDIA)

S.N.	CATEGORY OF AREA	DAY TIME	NIGHT TIME
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

*Day time is reckoned in between 6:00 A.M. & 10:00 P.M.

PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS

Exposure time (in hours per day)	Limit in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/4	105
1/8	108
1/16	111
1/32	114

Authorized Signator

Quality Manager

(Piyush Ranjan)

SOURCE NOISE QUALITY REPORT

Sampling Location	NOISE I	EVEL IN de	(A)
Sampling Location	Minimum	LegMeau	Maximum
1. Near Excavator Volvo Ex 410 (10 meter Distance from Source)	53.5	73.4	79.3
2. Dozer CAT - D8 480 (10 meter Distance from Source)	54.2	73.8	79.4
3.Tata Hitachi Driff (EX 2102C) 480 (10 meter Distance from Source)	56.3	76.2	82.1
4. Near Secondary Crusher (10 meter Distance from Source)	54.4	72.1	77.8

*** END OF REPORT ***

dB(A) L_d & L_a denotes the time weighted average of the level of sound in decibels on scale(A) in day and night respectively and Leg denotes average of 24 hours which is relatable to human hearing.

वराबाबू पी. / VARABABU P.

क्षा प्रशासक (थी. एवड एस.)। DOM(PAS)





Remarks-









104/2024

^{*} Night time is reckoned in between 10:00 P.M. & 6:00 A.M.

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By:

Government of Jharkhand

Date

08/11/2023

Time

14:04:04 PM

Validity upto

07/11/2024



Certificate SL. No.

Registration No.

Date of Registration

Month & Year of Manufacturing

Valid Mobile Number

Emission Norms

Fuel

GSTIN

Fees

PUC Code

MIL observation

JH00200130012856

JH02BK2985

09/Dec/2022

December-2021

----7695

BHARAT STAGE VI

;

:

DIESEL

JH0020013

Rs.300.00

(GST to be paid extra as-applicable)

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
3	Hydrocarbon, (THC/HC)	ppm		
Utalia tana	СО	percentage (%)		1
High idling emissions	RPM	RPM	2500 ± 200	V
	Lambda		1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	0.7	0.18

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://puc.parivahan.gov.in

Authorised Signature with stamp of PUC operator 60mm x 20 mm

वराबाबू पी. / VARABABU P. प्रम महात्रवंद्यक (भी. एवड एस.)। DOM(PAS) हमरोपीशी किमिटेड/ NTPC Limited वडी बरिवानु कोवला खनन परिधोजना / CBCMP हवारीयाग । Hazaribag

GENERAL INFORMATION

A. Demographics:

Name	Vidya lagar Sigh
Workman ID:	
Age:	22
Sex:	M
Contact No:	9123107647

B. Occupational Details:

Project Code:	
Contractor ID:	
Work ID:	
Department:	Admin
NTPC EIC No:	0
Designation:	MTK
Work Skill Level:	Semi-Skilled
Location of Employment	Chatli Baniatu Coal mine Put-Lid
Address:	CONTPC PULLT Degar Keredani Haz
Personal ID Name/Number	3185 E265 581E

वराबाबू पी. / VARABABU P. पर पहालाका (थी. एवड एस.)/ DOM(PAS) इन्ह्रोपीली जिलिहेड/ NTPC Limited चड्डी बरियानु कोयला खनन परिधोजना / CBCMP

Medical Examination Fermat

(FORM-O)

(See rule 29F (2) and 29L)

Report of medical examination under rule 29B in accordance with Form P1 of the Mines Rules 1955.

Certificate No. 3000 RPL 66741 23-24

Certified that Shri Ashrimati* Aladyologor to be employed as trade apprentice in trade in mines of NTPC, Form B No/Apprenticeship registration number has been examined for an initial medical examination in accordance with Form P1 of the Mines Rules 1955. He/she appears to be years of age. The findings of the examining authority are given in the attached sheet. It is considered that Shri /Shrimati* Add you wanted to be a sheet at the sheet sheet.

- (a) *Is medically fit for any employment/trade apprentice training in mines.
- (b)* is suffering fromand is medically unfit for
- (1) Any employment in mine; or
- (ii) Any employment below ground; or
- (iii)Any employment or work......

(c)*is suffering from he should get this disability* cured/controlled and should be again examined within a period of months. He/She will appear for re-examination with the result of test of and the opinion of Specialist from He/She may be permitted/ not*permitted to carry on his duties during this period.

Signature of the Examining Authority with seal

Name and designation in Block letters

Place: Hazaribagh

Date: 24/02/24

MBBS, MD (Path)

*Delete whatever is not applicable.

* *Original — To be kept with examining authority

Copy One - To be handed over to person Concerned.

Copy Two - To be sent to the concerned manager of the mine.

वराबाबू पी. / VARABABU P.
ज्य पहार्थका (पी. एवड एस.)। DOM(Pas)
इन्होंपीली क्रिक्टिंड/ NTPC Limited
वडी वरिवानु कोवता जनन परिवोजना। CBCMP



Report of the Examining Authority

(Form-O)

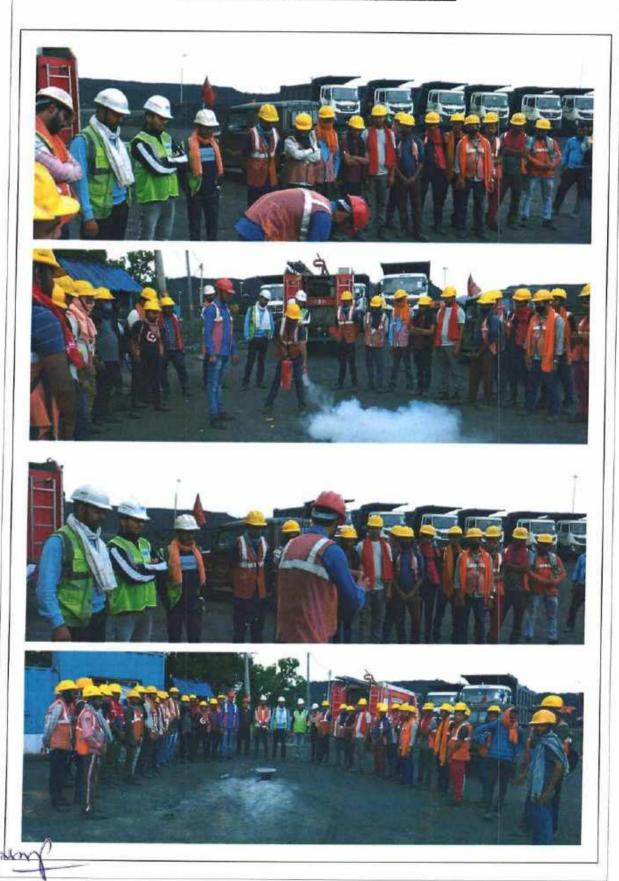
Report of medical examination under rule 29B in accordance with Form PI of the
Mines Rules 1955

Identification Markwood	gona/RPL/669	of medical exam	impression of the candidat
! General development-		ood/Fair/Peor	
2. Height 170			Videologon on
3. Weight6.2	Kg.	× 2.	Vidyalagas stoy
4. General & Physical Exami	ination		
5. Eyes:			767
(i) Visual acuity-Distant vision	Cwith or without also		
	Left Eye		
(ii) Any organic disease of eyes	No		***************************************
(iii) Color blindness	NA.	**	
(iv) Squint	No		
(to be tested in special cases)		*****************	
6. Ears:			
(i) Hearing : Right Ear.	nounal Labor	- Nos.	.0
(ii) Any other organic diseases	No	ar	• · · · · · · · · · · · · · · · · · · ·
(iii) Audiometry finding:		*****************	······································
	F-2-1-		
Conduction Type	Laft Was	The state of the s	
Conduction Type Ear Conduction	Left Ear		ght Ear
Ear Conduction	Normal/Abnormal	No	rmal/Abnormal
Ear Conduction Bone Conduction	The state of the s	No	
Ear Conduction Bone Conduction 7. Respiratory System: i) Chost Measurement: After full in Spirometry: Parameters	Normal/Abnormal Normal/Abnormal	No No	rmal/Abnormal- rmal/Abnormal- tion85.cms
Ear Conduction Bone Conduction Respiratory System: i) Chest Measurement: After full in Spirometry: Parameters Forced Vital Capacity(FEV)	Normal/Abnormal Normal/Abnormal nspiration, &	After full expira	rmal/Abnormal- rmal/Abnormal- tion 8.5.cms
Ear Conduction Bone Conduction 7. Respiratory System: i) Chest Measurement: After full in in Spirometry: Parameters Forced Vital Capacity (FEV) Forced Vital Capacity 1 (FEVI)	Normal/Abnormal Normal/Abnormal Inspiration, &, cms.	After full expira	rmal/Abnormal- rmal/Abnormal- tion \$3.cms ne % of Predicted 64.57
Ear Conduction Bone Conduction Respiratory System: i) Chest Measurement: After full in Spirometry: Parameters Forced Vital Capacity(FEV)	Normal/Abnormal Normal/Abnormal Inspiration, 81cms, Predicted Value 3.904 3.346	After full expira Performed Value 2.52	rmal/Abnormal- rmal/Abnormal- tion 8.5.cms ne % of Predicted 64.57
Ear Conduction Bone Conduction 7. Respiratory System: i) Chest Measurement: After full in in Spirometry: Parameters Forced Vital Capacity (FEV) Forced Vital Capacity 1 (FEVI)	Normal/Abnormal Normal/Abnormal Inspiration, &, cms.	After full expiral Performed Value 2.52 2.38 94.38	rmal/Abnormal- rmal/Abnormal- tion \$3.cms ne % of Predicted 64.57
Ear Conduction Bone Conduction 7. Respiratory System: i) Chest Measurement: After full in in Spirometry: Parameters Forced Vital Capacity (FEV) Forced Vital Capacity 1 (FEVI) FEVI/FVC Peak Expiration Flow	Normal/Abnormal Normal/Abnormal Inspiration, 81cms, Predicted Value 3.904 3.346	After full expira Performed Value 2.52	rmal/Abnormal- rmal/Abnormal- tion 85.cms ne % of Predicted 64.57
Ear Conduction Bone Conduction Respiratory System: i) Chest Measurement: After full in it) Spirometry: Parameters Forced Vital Capacity (FEV) Forced Vital Capacity I (FEVI) FEVI/FVC Peak Expiration Flow nelosed Spirometry Report.	Normal/Abnormal Normal/Abnormal Inspiration, 81cms, Predicted Value 3.904 3.346	After full expiral Performed Value 2.52 2.38 94.38	rmal/Abnormal- rmal/Abnormal- tion 8.5.cms ne % of Predicted 64.57
Ear Conduction Bone Conduction 7. Respiratory System: i) Chest Measurement: After full in in Spirometry: Parameters Forced Vital Capacity (FEV) Forced Vital Capacity I (FEVI) FEVI/FVC Peak Expiration Flow inclosed Spirometry Report. Circulatory System:	Normal/Absormal Normal/Absormal Inspiration, 81cms, Predicted Value 3.904 3.346 83.25	After full expiral Performed Value 2.52 2.38 94.38	rmal/Abnormal- rmal/Abnormal- tion 8.5.cms ne % of Predicted 64.57
Ear Conduction Bone Conduction 7. Respiratory System: i) Chest Measurement: After full in the spiratory: Parameters Forced Vital Capacity (FEV) Forced Vital Capacity (FEVI) FEVI/FVC Peak Expiration Flow aclosed Spirometry Report. Circulatory System: and Pressure. 100, 20. Pulse.	Normal/Absormal Normal/Absormal Inspiration, 81cms, Predicted Value 3.904 3.346 83.25	After full expiral Performed Value 2.52 2.38 94.38	rmal/Abnormal- rmal/Abnormal- tion 8.5.cms ne % of Predicted 64.57
Ear Conduction Bone Conduction 7. Respiratory System: i) Chest Measurement: After full in the spiratory: Parameters Forced Vital Capacity (FEV) Forced Vital Capacity I (FEVI) FEVI/FVC Peak Expiration Flow aclosed Spirometry Report. Circulatory System: and Pressure. 100, 20. Pulse diological Assessment:	Normal/Absormal Normal/Absormal Inspiration, 81cms, Predicted Value 3.904 3.346 83.25	After full expiral Performed Value 2.52 2.38 94.38	rmal/Abnormal- rmal/Abnormal- tion 8.5.cms ne % of Predicted 64.57
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Ear Conduction Bone Conduction 7. Respiratory System: i) Chest Measurement: After full in the spiratory: Parameters Forced Vital Capacity (FEV) Forced Vital Capacity I (FEVI) FEVI/FVC Peak Expiration Flow aclosed Spirometry Report. Circulatory System: and Pressure. 100, 20. Pulse diological Assessment:	Normal/Absormal Normal/Absormal Inspiration, 81cms, Predicted Value 3.904 3.346 83.25	After full expiral Performed Value 2.52 2.38 94.38	rmal/Abnormal- rmal/Abnormal- tion 8.3.cms ne % of Predicted 64.57 71.12 113.3

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14. H	ydrocele	A.				1
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7. Ski 8. ILC	ing: Albugi ingram of chest	n(- ph: acities)	Pinc WN WNI WNI	Types lings L/Abnormal L/Abnormal L/Abnormal	

दराबाबू पी. / VARABABU P.
पा महाम्बाका (थे. एवड रस.)। DOM(PAS)
हनटोपीली जिलिटेड/ NTPC Limited
यही वरियानु कोयला जनन परियोजना CBCMP;
हजारीबान् । Hazaribag

Training Session on Safety & Health



वराबाबू पी. I VARABABU P.

जन महास्थाक (चे. एवड एस.)। DOM(PAS) इन्द्रीपीली जिलिटेडा NTPC Limited वही वरिवातु कोयला जनन परियोजना। CBCMP इजारीबाग। Hazaribag