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कोयला खनन परियोजनाएँ, हजारीबाग Coal Mining Projects, Hazaribag

Ref: 1040/PBCMP/EMG/2023/F-47/ 2_08

Date: 17.11.2023

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.

Dear Sir.

Sub: Six Monthly Progress Report on compliance of conditions stipulated in the Environmental Clearance by MoEF & CC and Monitoring report for the period April 2023 to September 2023 for NTPC Ltd - Pakri Barwadih Coal Mining Project (15MTPA): Reg.

Ref1: EC Ltr No. J-11015/692/2007-IA-II(M) Date 19th May 2009.

Ref2: EC Amendment Ltr No J-11015/692/2007-IA-II(M) Date 29.06.2016

Ref3: EC Amendment Ltr No J-11015/692/2007-IA-II(M) Date 07.12.2017

Ref4: EC Amendment Ltr No J-11015/692/2007-IA-II(M) Date 14.08.2018

Ref5: EC Amendment Ltr No J-11015/692/2007-IA-II(M) Date 10.11.2020

Ref6: EC Amendment Ltr No J-11015/692/2007-IA-II(M) Date 16.08.2023

Ref7: EC Amendment Ltr No J-11015/692/2007-IA-II(M) Date 09.11.2023

With reference to above subject please find enclosed herewith the six-monthly status report on compliance of various conditions in the Environmental Clearance accorded to NTPC Ltd -Pakri Barwadih Coal Mining Project (15MTPA) for the period April 2023 to September 2023. The monitoring reports on fugitive emission, effluent quality, ambient air quality, ground and surface water quality, noise measured data etc. are also enclosed with the report.

This is for your kind information please.

Thanking you.

Yours Faithfully,

or winder (with a sout) one (CNVT world) PROVING STREET NIPC Limited कोरता सन्त्र पश्चिमकर्ग COAL MINING PROJECTS

Encl.: A/a Copy to:

1. Sc. E & Regional Director, Kolkata, Central Pollution Control Board, Southern Conclude: Black 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

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

> कोयला खनन परियोजनाएँ, सिकरी साईट कार्यालय, बड़कागाँव, हजारीबान - 825311 Coal Mining Projects, Sikri Site Office, Barkagaon, Hazaribag - 825311

पंजीकृत कार्यालय : एनटीपीसी भवन, रुकोप कॉम्प्लेक्स, 7, इस्टिट्यूशनल, लोधी शेंड, नई दिल्ली - ११०००३, देसीपरेन नं,/६८:१११-३४३४७३३, फॅक्स नं,/६८:१११३४३४१११ Registered Office: hTPC Bhawen, Scope Complex, 7, Institutional Area, Lodi Road, New Delhi - 110003. E-mail: https://gnipc.co.in, Wabaita: www.ntpc.co.in



Report Period: April-2023 to Sept. -2023

Six Monthly EC Compliance Report



NTPC LTD.

Pakri Barwadih Coal Mining Project.

NTPC LimitedPakri Barwadih Coal Mining Project (15MTPA)

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS

Period: April-2023 to September-2023

EC Clearance Ltr. No.J-11015/692/2007-IA.II (M) Dated 19th May 2009

& Amendment Ltr. No J-11015/692/2007-IA-II (M) Dated 29.06.2016

Amendment Ltr. No J-11015/692/2007-IA-II (M) Dated 07.12.2017

Amendment Ltr. No J-11015/692/2007-IA-II (M) Dated 14.08.2018

Amendment Ltr. No J-11015/692/2007-IA-II (M) Dated 10.11.2020

Amendment Ltr. No J-11015/692/2007-IA-II (M) Dated 16.08.2023

Amendment Ltr. No J-11015/692/2007-IA-II (M) Dated 09.11.2023



NTPC Ltd – PAKRI BARWADIH COAL MINING PROJECT
Sikri Site Office
PO: Barkagaon, Dist: Hazaribagh
Jharkhand – 825 311

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS

SL No	Conditions	Compliance/ Status report for the period April-2023 to Sept2023
SPECI	FIC CONDITIONS	
I	The environmental clearance is restricted to Phase-1 of 39 years of opencast operations involving 3319.42 ha of ML area only for which exploration has been completed.	,
II	No mining operations shall be undertaken in the forestland within the ML until clearance has been obtained under the provisions of FC Act, 1980.	provisions of FC Act, 1980 has been obtained for the 1026.438 Ha of forest land involved vide: i. <i>Stage I Clearance</i> obtained vide letter no. "F. No 8-56/2009, dated 11 th May 2010", ii. <i>Stage II Clearance</i> obtained vide letter no. "F. No 8-56/2009, dated 17 th Sept 2010", iii. <i>Final land release letter received from the State Govt.</i> vide letter no. 3/Vanbhoomi-75/2009-1240 dated 31.03.2011. iv. <i>Amendment in Forest Clearance</i> accorded vide letter ref. no. 8-56/2009 Fcpt dated 25.05.2023. The Mining operations is restricted to the area only for which forest clearance has
		been accorded by MoEF under the provisions of FC Act, 1980.
Kimon	The monolith found within the core zone shall not be disturbed by the mining operations and a minimum 500m distance along with thick green belt would be maintained between the eastern quarry and the monolith. A road would be created upto the monolith a park created around it so that the monolith could be visited.	To maintain thick green belt between Eastern quarry and Monolith, the existing green belt of 500m having large canopy trees, mainly of Mahua (Madhuca longifolia), Sisham (dalbergia sisoo) and other species between eastern quarry and Monolith has not been disturbed. Further, 13707 nos. of tree saplings have been planted around the east quarry to make the area green and fast-growing seedlings have been spread over the overburdens.
Krim	Amendment vide letter number-	NTPC is committed for development of the
NAVIN KUM NTPC Limited	AK GMT)	2

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Pakri Barwadih Coal Mining Project (15MTPA)

	J-11015/692/2007-IA-II(M) Date- 07.12.2017	area in and around its projects, according NTPC had requested state govt for submission of the estimate for
	The user agency would provide necessary fund to the state Government for construction of road up to the monolith and a park around it so as that the Monolith could be visited as for tourism purpose.	development of the Megalith. After various correspondence made with the District authority, an estimate of Rs. 3,03,92,449/-for development of Megalith Park with direction to submit Rs. 50 Lakhs as an advance was received from District Authority on 16.10.2023. Copy of the letter attached as Annexure-1 .
		Based on demand raised by the District Authority payment of Rs. 50,00,000.00 (Rupees Fifty Lac) has been made for development of Megalith Park vide letter no. NTPC/PBCMP/R&R-CD/2023 Dated 28.10.2023. Copy of the letter attached as Annexure-2 .
IV	Mining shall be carried out as per statuette from the streams/nallahs flowing within the lease. Embankment to be constructed shall be based on peak flow data and shall be at least 3m above the HFL. The slope of the embankment shall at least 2:1 towards the ML and shall be stabilized with plantation. The CWPRS would be engaged for the design and study of realignment of the drains / nalas flowing across the ML and creation of embankment, and also obtain approval of the State Government for diversion of the nalas.	As suggested the CWPRS was involved in study and designing of the Nala diversion. Also, necessary permission/NOC has been obtained from State Water Resource Dept, GoJh vide their ltr. Ref. no. 2/PMC/ND-171/2012/224 dated 19.03.2013. Based on the above study report of CWPRS and NOC/permission from water resource Dept, GoJH, realignment of Dumuhani nala has been done.
V	Topsoil should be stacked properly with proper slope at earmarked site(s) and should not be kept active and shall be used for reclamation and development of green belt.	Top soil is being stacked in available suitable land. Same is being used for spreading over the completed portion of OB Dump for development of the green belt.
3	Macin Kurano वीन कुमार / NAVIN KUMAR बहामधार (वर्षांत्रल प्रावेग) IDGM (ENVI MGMT) स्मारणेसी सामस्डा NTPC Limited	All the protective measures for soil erosion from top soil dumps are being taken. To prevent erosion from top soil dumps, coir mats have been laid on the slopes. Catch drain and siltation pond has been constructed along the top soil dump and the filled-in drains and toe wall areas are repaired. The repairing of the toe wall and cleaning of drains are the regular process
•	बना सन्तर्भारतनारं/ COAL MINING PROJECTS हजारीबान / Hazaribog	3

Pakri Barwadih Coal Mining Project (15MTPA)

		and completed before onset of the monsoon every year. Photographs are enclosed as Annexure-3 .
		Further, to avoid soil erosion plantation has been carried out on external dump and its slopes with Mixed grass variety seeds and root shoots of Vertiver grass.
VI	OB should be stacked at earmarked three external OB dump site within ML area of a maximum height of 90m.	As per approved revised Mine Plan, OB is being stacked at earmarked area. Presently height of the dump is 89.62 m with three terraces. It will be restricted to the maximum height of 90 meter.
	Amendment vide letter number- J-11015/692/2007-IA-II(M) Date- 07.12.2017 A minimum of 500m shall be maintained and thick green belt	At present the working of mine is more than 4 km from Barkagaon village. Workings of the mine shall be restricted 500 m away from the village Barkagaon.
	developed between the habitation of Barkagaon and OB dumps.	To maintain the thick green belt between habitation of Barkagaon and OB dumps, existing greeneries between mine and habitation of the Barkagaon have not been disturbed. Further, about 2500 trees have been planted along road side between East quarry and Barkagaon village. Apart from above 5500 nos. of trees have been planted in Langatu and Arahara village falling between Mining and Barkagaon village.
	The option of raising the level of grazing land created after backfilling the quarry by 10m or so shall be examined so to reduce the overall OB dump height.	As per approved Mining Plan Grazing land of 223 Ha will be developed on back filled quarry of western & eastern part at the time of mine closure.
	Slope stability tests may be undertaken and the feasibility of backfilling depending on the type of cost-effective technology available at that stage shall be re-examined.	Slope stability tests have been conducted through the Central Institute of Mining and Fuel Research (CIMFR) Dhanbad & BIT, Sindri – Dhanbad for Dump–A and Dump–C & also for Western Mine Pit slopes. Slope stability Study of Eastern Quarry & its dump has been done by IIT-BHU.
	The ultimate slope of the dump shall not exceed 28°.	The ultimate slope of the dump shall be restricted to 28 degree.
	Monitoring and management of reclaimed dumpsite should continue until the vegetation becomes self-sustaining.	Monitoring & management of reclaimed dump site shall be carried out till the vegetation becomes self-sustaining.
V	Compliance status should be submitted to the Ministry of Environment &	The half yearly compliance report of EC is being submitted regularly to the MoEF &

Forests and its Regional office located CC Regional office Ranchi. Last report at Bhubaneswar on yearly basis. submitted online on Parivesh Portal and also submitted to regional office vide letter 1040/PBCMP/EMG/2023/F-47/111 dated- 31/05/2023 through mail dated 31.05.2023. Copy of the mail enclosed as Annexure – 4. VII Catch drains and siltation ponds of All the possible actions are being taken to appropriate size should be constructed arrest the silts from all the possible to arrest silt and sediment flows from sources. The catch drains and the silt soil, OB and mineral dumps. The water ponds are designed to contain the max so collected should be utilized for rainfall and silt generation during the rain. The siltation ponds are being regularly dewatering the mine area, roads, green belt development, etc. The drains silted and maintained properly and directly connected to garland drains and apart should be regularly desilted and maintained properly. Garland drains from this 03 more nos. of the silt ponds (size, gradient and length) and sump have been constructed along the OB capacity should be designed keeping Dump-C and Top Soil Dump. 50% safety margin over and above the Photographs are enclosed as **Annexure**peak sudden rainfall and maximum 5. discharge in the area adjoining the The damaged toe wall has been repaired mine site. Sump capacity should also provide adequate retention period to and constructed. Toe walls have been allow proper settling of silt material. constructed to arrest the silts but to allow the water to pass through it, accordingly these are prepared with the appropriately sized boulders so as to arrest the silt only. Photographs are enclosed as **Annexure-**6. The sump has been constructed keeping the safety margin more than 50% over and above the maximum rainfall in the area. Water so collected is being utilized for dust suppression in mining area, transport roads and also for green belt development etc. The catch drains are regularly being de-silted and maintained properly. The main sump is in the de-coaled area at dip most side so as to provide adequate retention period to allow proper settling of silt material. Dimension of the retaining wall at the VIII OB dump-C is in active condition, i.e. toe of the dumps and OB benches presently excavated OBs are dumped over the OB dump and hence, all within the mine to check run-off and siltation should be based on the the protection measures for soil erosion rainfall data. from OB dump are being taken.

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To prevent erosion from dumps, 2400meter toe wall followed by garland drain along the embankment, 130-meter toe wall on the toe of the Dump 'C', 530-meter toe wall along the Dump 'A' have been constructed, and the garland drains constructed all around the dumps are ultimately connected to the settling pit to allow the water to pass through it. And, more than 1.5 Lakhs tree saplings of native species are planted on the Slope of "C", Dump Dump "A" and the embankment.

Apart from the above Catch drains also provided at workshop, offices etc. to direct the rain water to siltation pond at sump area to arrest silts and further to direct water to main sump.

NTPC has already commissioned 13 Km of the Conveyor Belt Stream-A on 28.02.2022 and Stream-B on 30.11.2022. Part of the Coal is being transported through the same. The connecting 1.2 Km Silo with Rapid Loading System over a short distance of 1.2 Km between TP-10 and Banadag Railway Station could not be completed due to Land Acquisition and Law and Order Issues. Presently, the Land Acquisition issues have been resolved with the help of District Administration on 28.04.2023, the work for implementation of "Silo Rapid Loading System" and Rail Infra are in full swing and it is likely to be completed by Dec 2024.

Part of the coal transportation is being done by trucks which is covered with the tarpaulin. Also, to prevent the dust generation due to plying of the trucks regular water sprinkling is being done along the transportation road.

Apart from the above the coal has been transported in wet condition from mine end to Banadag Railway Siding. For wetting the coal there are fog canon installed in the crusher area as well as coal stock yard of CHP.

IX Amendment : letter number- J-11015/ 692/ 2007-IA-II(M) Date 29.06.2016

> The coal shall be transported through closed belt conveyor system of a length of 13 km to Banadag railway station. The project proponent is permitted for (2) years to use State Highway/public transportation of roads for (approx. 35 km) to Banadag Railway Siding by adopting all mitigative measures to control dust pollution. The project proponent shall put all the efforts to expedite completion of service road for belt conveyor so that the same can be utilized for coal transportation.

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Photographs of the CHP are Enclosed as **Annexure-7.**

Further, the coal which is transported through conveyor is done in closed belt passes through 10 nos. of TPs all the TP have water injection system regularly inject the water in the coal. There are two nos, of mist fog canon have been installed at the TP-10 to wet the coal or minimize the dust generation. Also, to control the pollution, areen wind screen/net shed has been erected all around and at the top of the coal stock yard and coal is being transported in fully covered vehicle.

Amendment: letter number- J-11015/692/2007-IA-II(M) Date 07.12.2017:

The approach road of 6 km along northern boundary of mining lease shall be metaled. For development of 3-tier avenue plantation, northern sides of main approach road to be preferred in place of haul roads.

The approach road of 6 km along northern boundary of mining lease is already metaled.

The existing greenbelt along the Norther side of the main approach road has not been disturbed. Photographs attached as **Annexure –8**.

Apart from the above till date total **5265 nos**. of plants have been planted along the northern boundary of the mining lease also existing green belt have not been disturbed. 3-tier avenue plantation will be developed in the phase manner. Photographs enclosed as **Annexure-9**.

Condition IX, Amendment vide letter number-J-11015/692/2007-IA-II(M) Date 29.06.2016, letter number-J-11015/692/2007-IA-II(M) Date 14.08.2018, letter number- J-11015/692/2007-IA-II(M) Date 10.11.2020

Thereby extension in amendments in EC dated 19th July 2018 for a period of two years (i.e upto 28th June, 2022) by road as an interim arrangement by adopting mitigation measures to control dust pollution, which would include regular maintenance of roads, water sprinklina, covering trucks with tarpaulin sheet etc.

The EC has been amended vide MoEF & CC letter no. J-11015/692/2007-IA-II(M) dated 09.11.2023 which allow the coal transportation through road till 31st Jan 2024. Copy of the EC attached as **Annexure-10**.

Closed Belt Conveyor system is partly completed and operational upto TP-10. From TP-10 to siding, a rapid loading system (RLS) for transporting and loading of coal to railway wagons is under construction, which has been delayed due to land acquisition and Law and Order issues. Land has been made available only on 28.04.2023 through deployment of

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Pakri Barwadih Coal Mining Project (15MTPA)

 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. forces by district administration and now all efforts are being made to complete the SILO system before 31.12.2024.

Road which is used for transportation of coal is wider than 7mtr. For granting of necessary permission from state PWD a letter vide letter no.1040/PBCMP/ENV/2021/F-47/44 Dt 28.06.2021 has been submitted. Copy of letter already submitted in previous compliance reporting.

 The State Pollution Control Board, while considering consent to operate for the project, shall ensure that with the proposed coal transportation by road, air quality would remain within the national ambient air quality standards. Agree to abide the conditions.

 The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been distributed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc." The mining activity are being carried out as per the approved mine plan and due care are being taken to minimize the adverse impact of the mining activity to surrounding areas.

All the mitigation measures are being taken as per the approved EMP and Mine Closure Plan.

Condition IX, Amendment vide letter number-J-11015/692/2007-IA-II(M) Dated-16.08.2023.

1.1 The PP needs to complete the of closed construction belt conveyor system of a length of 13 km to Banadag railway station. The project proponent is permitted till October, 2023 to use Service road/State **Highways** for transportation of coal to Banadag railway siding by adopting all mitigative measure to control dust pollution".

NTPC has already commissioned 13 Km of the Conveyor Belt Stream-A on 28.02.2022 and Stream-B on 30.11.2022. Part of the Coal is being transported through the same. The connecting 1.2 Km Silo with Rapid Loading System over a short distance of 1.2 Km between TP-10 and Banadag Railway Sstation could not be completed due to Land Acquisition and Law and Order Issues. Presently, the Land Acquisition issues have been resolved with the help of District Administration on 28.04.2023, the work for implementation of "Silo Rapid Loading System" and Rail Infra are in full swing and it is likely to be

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Pakri Barwadih Coal Mining Project (15MTPA)

1.2 Transportation of coal from service road instead of conveyor belt and silo loading system is subject to the outcome of Order of Hon'ble Supreme Court i.e. Civil Appeal No. 6249 of 2021 (in matter of National Thermal Power Corporation (NTPC) vs Tripurari Singh & Ors.)

- 1.3 The PP shall submit the status of Dumhani nallah to IRO, MoEF&CC before October 2023 with photographs and drone video for diverted portion of Dumhani nallah. The project proponent shall make all possible effort towards protecting catchment area of the streams flowing within the lease boundary as well as along the boundary of lease area.
- 1.4 The PP shall deploy the covered truck with tarpaulin having size upto 50 tonnes for transportation of coal through Service road only. SPCB to ensure the strict compliance of condition.
- 1.5 The PP shall submit the status report of diverted Dumhani stream to IRO, MoEF&CC before October, 2023 ensuring that proper water management in catchment area has been made along with

completed by Dec 2024.

All environmental mitigative measures associated with transportation of coal by road are being followed.

Agreed to comply.

NTPC has submitted Miscellaneous Application vide MA-001824/2023 dated 18.08.2023 in Hon'ble SC for seeking extension in timeline for completion of construction of Belt Conveyor (remaining 400 m length) up to 31.12.2024. Copy of same is attached as **Annexure-11**.

Hon'ble Supreme Court extended the timeline for construction of Belt Conveyor till 31.01.2024 through its order dated 20.10.2023. Copy of the order attached as **Annexure-12**.

The Status Report of Dumuhani Nallah has been submitted to RO, MoEF&CC vide letter no- Ref: 1040/PBCMP/EMG/2023/F-47/199 Dated: 19.10.2023. The copy of the same is attached as **Annexure-13**. Work has been awarded to IIT-ISM for preparation of Catchment Area Treatment Plan vide work order dated 18.07.2023. Accordingly, action towards protecting catchment area of the streams flowing within the lease boundary as well as along the boundary of lease area shall be taken.

Presently, part of the coal produced from PBCMP is being transported through road in tarpaulin covered truck of size of up to 50 tonnes and part of the coal is transported through conveyor belt. Photographs are enclosed as **Annexure-14**.

As submitted at point no. 1.3.

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स्थान परिकारनारी COAL MINING PROJECTS

photographs and drone video for diverted portion. The project proponent shall also make all possible effort for protecting catchment area of other streams flowing within the lease boundary as well as along the boundary of lease area without their diversion.

- 1.6 The PP shall submit the complete compliance report of EC letter dated 19.05.2009 and subsequent amendment of ECs vide letter dated 29.06.2016, 07.12.2017, 14.08.2018 & 10.11.2020 respectively.
- 1.7 All the railway siding involved in loading and unloading of the materials which are prone to generate fugitive dust emissions, should install fixed type water sprinklers effective for dust suppression, should install settling pond of suitable capacity with chemical dosina system for treatment of the runoff water, should construct the wind breaking wall of 20 feet high to prevent the dusts to spread and should do tree plantation along the boundary wall.

The half yearly compliance report of EC is being submitted regularly to the MoEF & CC Regional office Ranchi. Last report submitted online on Parivesh Portal and also submitted to regional office vide letter no.- 1040/PBCMP/EMG/2023/F-47/111 dated- 31/05/2023 through mail dated 31.05.2023. Copy of the mail enclosed as **Annexure-4**.

The coal is being transported to Banadag Railway Siding from where the coal is transported to different power plants of NTPC Ltd.

At Banadag Railway Siding to minimize the dust generation, Permanent/fixed typehigh capacity rain-guns have been installed on both side of railway siding. i.e., on the Northern as well as Southern Side. Apart from the above Fugitive emissions are being controlled by water sprinkling through 4 no. of 10 KL capacity water tankers. Photographs attached as **Annexure-15**.

No run-off water is being discharged outside the railway siding. However, Garland drains have been constructed on both side of the Railway siding which ultimately connected with the de-silting pit. Photographs attached as **Annexure-16**.

Further, boundary wall erected on both side of Banadag Railway Siding along with permanent wind screen of height 20 ft. i.e., North & South Side. Photographs attached as **Annexure-17**.

Till date 1200 nos. of tree sapling have

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व्यादीनी हरानेदेश NTPC Limited
कोवल व्याप परिचारवारी (DGAL MINING PROJECTS
हजाविवान / Hazaribag

- 1.8 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 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.
- 1.9 PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms.
- 1.10 PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non-compliance or infringement should be reported to the concerned authority.

been planted along the periphery of the railway siding and available vacant land. Photographs attached as **Annexure-18**.

Public Grievance Redressal and Monitoring System has been established at Pakri Barwadih Coal Mining Project for resolving any issues related to the pollution of mines. The same has been reported to RO, MoEF&CC vide letter Ref: 1040/PBCMP/EMG/2023/F-47/199 Dated:19.10.2023. The copy of the same is attached as **Annexure-13.**

A logbook is being maintained by PBCMP, NTPC Ltd on "Public Grievance Redressal and Monitoring System". Further an online system has also been established on 02.10.2023. Address of the same is https://www.ntpc.co.in/grievance/.

Agreed to comply.

Presently, Monitoring and analysis is being done through MoEF&CC and NABL accredited lab in consultation with the State Pollution Control Board.

However, Environmental laboratory has already been setup with the following equipment's:

- 5 nos. RDS machines,
- 5 nos. of fine particulate sampler,
- 1 no of High-volume sampler,
- 1 set of continuous ambient Air Quality monitoring station (AAQMS),
- 1 set of meteorological station,
- 1 set of noise level meter,
- 5 set of Piezometers with Automatic data recorder.
- 1 no. of manual water level meter,
- 1 no. of handy sampler for indoor air quality.

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		• 1 no. Personal Dust Sampler
		Photographs of the CAAQMS and other equipment's are enclosed as Annexure-19 .
	1.11 PP to install solar lights along the road used for transportation of minerals to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year.	To avoid the accidents at night 858 nos. of power Lights have been installed along the transportation road till date. Apart from the at the rural areas 550 nos. of solar lights have been installed.
	1.12 PP to provide bio toilets to the villages located within the study areas within 1 year from the grant of this EC.	The NTPC have already constructed 645 nos. Of toilets in surrounding villages under Swachh Bharat Abhiyan. The possibilities for installation of the Biotoilets are being explored.
	1.13 PP shall conduct feasibility studies for assessment of voids for backfilling of ash and mixing of ash with overburden, taking up backfilling ash and OB mixing activities during operations as well as post closure of mines in line with the Fly Ash Utilization Notification, 2021.	Feasibility studies for assessment of voids for backfilling of ash and mixing of ash with overburden, taking up backfilling ash and OB mixing activities during operations as well as post closure of mines shall be conducted in line with the Fly Ash Utilization Notification, 2021.
X	Drills should be wet operated only.	Drilling machine with inbuilt water injecting system is being utilized for drilling purpose. Also, regular water spraying is being carried out in the drilling area for minimization of the fugitive dust emission.
XI	Controlled blasting should be practiced with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.	Blasting patterns have been designed based on the study conducted by CIMFR Dhanbad. As suggested by CIMFR, Dhanbad, controlled blasting technique with "nonel" is being practiced to minimize ground vibration and to avoid fly rocks & boulders.
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		The latest test report of the same is enclosed as Annexure – 20.
XII	No additional groundwater (bore well) shall be used for mining operations. Additional water if any required for the project shall be used from recycled water or mine discharge water or rainwater collected in rainwater harvesting pits within the CML.	As stipulated, the requirement of water for other activity viz.: dust suppression, gardening and vehicle washing etc are being fulfilled through recycled water, mine seepage water, storm water. Ground water is being used mainly for domestic use.
XIII	Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity should be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring. Rainwater structures shall be erected in the core and buffer zone, in case monitoring indicates a decline in water table.	Monitoring of groundwater levels are being carried out by manual monitoring at 20 locations around the mining lease area. Apart from manual monitoring, automatic water level recorders (Piezometers) have been installed at two locations viz.: Langatu site office, Sikri site office. The data so generated is being submitted to Ministry of Environment & Forests and Climate Change & Central Pollution Control Board. Last six months water level data are enclosed as Annexure — 21 . Water quality report of month May & August-2023 is attached as Annexure — 22 . Various conservation measures are being taken in Pakri Barwadih Coal Mining Project for rainwater harvesting. The Roof top rainwater structure has been constructed and also rejuvenated the existing ponds in nearby villages for improving the ground water of the area. Approximately 1.49 lakh m3/year of ground water is being recharged at Pakri Barwadih Coal Mining Project. Details of the same and Photographs attached as
	Main Kenner विवीन कुमार / NAVIN KUMAR क व्यानक्ष्म (वर्षस्य प्रकार) IDCM (ENVT. MGMT.)	Annexure-23. Apart from the above Approx. 23 lakh m3 of rainwater have been stored in the East quarry for use in dust suppression, plantation activity and the same water is used for other miscellaneous use also. In addition to that, 12 Nos. of Check dams have been constructed in Pakwa and Khora Nala to meet water requirements and to augment the groundwater of the area around PBCMP. The estimated cumulative storage capacity of the Check
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		dams is 16.18 lakh cum . And estimated groundwater recharge potential of approx. 340.52 lakh m³/year through the Check Dams. Details and photographs of the check dams are attached as Annexure-24 .
XIV	The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	As mentioned Regular monitoring of the ground water table in the surrounding villages are being done to determine the any adverse impact on to the ground water regime. Till date no decline in water table are observed due to dewatering from the mine.
		However, NTPC Ltd – PBCMP, under its social obligation, have installed 6 Nos. of hand pumps 8 nos. of Tube wells in nearby villages in FY 2023-24. Also, to meet the further water requirement of the nearby villagers 16 tankers water has been supplied through mobile water tankers during this summer season.
XV	Sewage treatment plant of adequate capacity shall be installed in the colony.	Sewage Treatment Plant (STP) of 1.5 MLD capacities has already been provided in R&R colony. STP is being operated as per the Standard Operating Procedure.
		Further, STP of 25 KLD of MBBR technology is installed at site office for treatment of the sewage generated at Offices and 300 KLD capacities STP of MBBR technology is also installed at MDO Colony, Sikri.
		The treated water are being used for horticulture purpose and no water is being discharged outside.
		Quality of the treated sewage water is being carried out at stipulated frequency. Latest monitoring report attached as Annexure-25 .
	ETP should also be provided for workshop and CHP wastewater.	For treatment of industrial effluents, an ETP with Electro-Mechanical process technology have been installed at Mine workshop. Drains of washing platforms associated with oil & grease trap is being cleaned regularly.
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		Effluent quality data is enclosed as Annexure-26.
	Treated wastewater meeting prescribed norms only shall be recycled for mining operations to the extent possible and permitted to be discharged in to the natural water courses only if it meets the prescribed standards.	
XVI	The total area that shall be brought under afforestation at the time of mine closure shall not be less than 1199 ha which includes reclaimed topsoil soil dump area (25 ha), external OB dump (632 ha), backfilled area (524 ha), along ML boundary, embankment and undisturbed area, along roads and infrastructure, green belt (18 ha), and in township outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.	Shall always be complied with. Overburden dump "C" and "A" are in active condition, i.e. presently excavated OBs are being dumped over the OB dumps and hence, at the active side of dump plantation is not possible. However, more than 1.5 lakhs of tree sapling have already been planted with dense plantation all other parts of closed side of the OB Dump-C as well as more than 45 thousand plant saplings have been planted along the slope of the Dump-A. Photographs of the attached as Annexure-27. Further, more than 20 thousand plant saplings have already been planted along the OB dump-D and vacant part of the eastern quarry. Photographs attached as Annexure-28. It would very much relevant to mentioned here that more than 3.06 Lakhs of tree saplings have been planted and 10,172 nos. of tree saplings have been distributed to local villagers at and around the Pakri Barwadih Coal Mining Project.
		Also, for mass awareness, the NTPC Ltd – PBCMP is actively participating in "Van Mahotsav" "Tree Raksha Bandhan", "Paryavaran Mela" etc. being organized by State Forest Department.
		Details of the plantation / distribution taken up by NTPC Limited till date is enclosed as Annexure-29.
XVII	A Progressive Mine Closure Plan shall be implemented by reclamation of 524 ha, of the total quarry area of	Shall always be complied with. Till Sept 2023 total area of approx. 85.06
Kimon	1 22, O. the total quality area of	Sept 2020 total aloa of approxi 00100

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1785 ha, which shall be backfilled and afforested by planting native plant species in consultation with the local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per ha. Of the total reclaimed backfilled area, 223 ha shall be grazing land and 442 ha shall be agricultural land for utilization of the villagers. Of the balance 1261 ha of quarry area, an area of 596 ha of de-coaled area/void being converted into a water reservoir shall be gently sloped and the upper benches of the shall be terraced reservoir and stabilized with plantation and the remaining 665 ha is for public use for Phase-2 of the project.

Ha has been backfilled. However internal dumping is in active stage and Mining / reclamation shall be implemented at the cost of project.

Escrow account has been opened and amount is being deposited annually. **Rs 7.60 Crore** have been deposited in the FY 2022-23 as 7th year Mine Closure cost. So far Rs. **52.20 Crore** including interest has accrued as on 31.03.2023 in Escrow account as part of the Mine Closure cost.

Detail of amounts accumulated in ESCROW is enclosed as **Annexure-30**.

XVIII

Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.

Regular periodic medical check-up of all mine workers as per DGMS guidelines is being carried out at project hospital.

"Occupational health study in Pakri Project Barwadih Coal with special reference to respiratory health and hearing impairment assessment" was conducted through Regional Occupational Health Centre (Eastern), Kolkata & National Institute Occupational Of Health, Ahmedabad. Report of the same already submitted in last compliance reporting.

As of now no case of occupational disease and hearing impairment has been reported.

XIX

Condition XIX, Amendment vide letter number-J-11015/692/2007-IA-II(M) Date 07.12.2017

A detailed R&R Plan for the life of the project comprising land losers, homestead losers and land and homestead losers, including tribals to be displaced from the project area shall be prepared and implemented in stipulated time frame. **Proiect** will implement proponent the approved R&R plan as per phased requirement of displacement. The compensation shall be not less than NTPC RAP has been approved vide Govt. of Jharkhand (GoJh) Gazette Notification and forwarded vide letter No. 116 /R dated 27.02.2013 which is in line with the Jharkhand R&R policy.

Also, the R&R benefits being extended are not less than as enlisted in the national R&R policy.

As per the approved Govt. of Jharkhand (GoJh) Sankalp No. 116 / R dated 27.02.2013, houses have been constructed in the R&R colony at Dhenga along with all necessary infrastructure.

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that specified in the National R&R Total 78 HSOs have been shifted to the Policy. R&R colony at Dhenga. Some of the PAPs have opted for self-relocation. Based on Provision shall also be made in the the demands of PAPs, a special package R&R Plan to take care of the land less labourers and the tribals. The total has been designed to compensate each expenditure on R&R shall not be less self-relocating family. Till Sept. 2023 total 1290 PAPs have been resettled. than Rs. 2976 Cr, which includes private land acquisition (Rs. 982 Cr) and R&R (Rs.1492 Cr). Alternate As per the Socio-economic survey which livelihood and skill development has been mentioned in Sankalp document, programmes and schemes shall be SI No. 3, page no. 2, there are no ST PAF implemented as part of R&R and CSR. in the project area. The total expenditure on R&R shall not be less than Rs. 2976 Cr, which includes private land acquisition (Rs. 982 Cr) and R&R (Rs.1492 Cr). Further, through ITI Dhenga (Being run by NTPC) capacity building of youths of the project area is being carried out by PBCMP. Other training programs women empowerment and providing livelihood options is also being organised by PBCMP. Till date 380 nos. of student get employed after passing from ITI Dhenga. Employment details after passing students ITI, R&R from and LA expenditure details and other livelihood details attached program area Annexure-31. Pre-mining Socio economic survey XX The project authorities shall carry out been undertaken through IIT Kharagpur a pre-mining socio-economic survey and Abhigyan Samiti (Local NGO). based on the **UNDP** Human Development Report and monitor the socio-economic status once every For monitoring, socio economic status a contract for conducting Social Impact three years and maintain records thereof and report in their Annual Assessment in the project affected villages Report, the socio-economic impact of of PBCMP has been awarded to M/s. R&R and CSR activities. Deloitte Touche Tohmatsu India LLP, Gurgaon dated 16.09.2020. The study report has already submitted in previous compliance report. The LULC study is being carried out in XXI For monitoring land use pattern and for post mining land use, a time series every three years interval. The last study of land use maps, based on satellite was conducted in the year 2019-22 and report of the same was submitted to the imagery (on a scale of 1: 23 ha) of

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	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 one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhubaneswar.	MoEF & CC with HYMR (Oct. 2022 to March 2023). The next study shall be conducted for the period 2023-26.
XXII	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	
GENER	AL CONDITIONS	
I	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	Shall always be complied.
II	No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made.	The OM issued by MoEF&CC vide F.No. 22-44/2018-IA.III dated 14.05.2020 regarding flexibility in coal or mineral production of capacity irrespective of calendar plan subject to maximum of capacity granted in the environmental clearance, is being followed.
III	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RPM, SO2, NO _x and heavy metals such as Hg, Pb, Cr, As, etc. 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.	All the possible measures are being taken to improve the air quality through establishing 8 nos. AAQ monitoring stations in the core as well as buffer zone of the ML area in consultation with the Jharkhand State Pollution Control Board (JSPCB). Copy of the approval attached as Annexure-32 . There are 4 no. of monitoring station in core zone i.e. Urub Village, Nagari Village, Langatu Village, Pakri-Barwadih village and there are 4 nos. of monitoring stations in the buffer zone such as Kandaber village, Garikalan Village, Dhenga village and Kusumbha Village. Further to ensure the work zone air quality fugitive dust is being monitored in
	नवीन कुमार / NAVIN KUMAR	different locations of the working zone. The locations are Excavation area, Haul road, Overburden Dump, Top-soil Dump, Workshop, Drilling and Crusher area.
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Monitoring data of the month of Sept. 2023 is attached as **Annexure-33**. Apart from the above One no. CAAOMS has been installed to monitor Ambient Air Quality at Langatu village in Mining lease area in consultation with JSPCB officials which is only 2.5 Km from the Mining area. All the possible measures are being taken IV Fugitive dust emissions (SPM and to control the fugitive dust emission. Dust RSPM and heavy metals such as Hg, Pb, Cr., As, etc) from all the sources suppression at mines haul roads & other shall be controlled regularly monitored dust generating areas like truck loading & and data recorded properly. unloading points is being carried out by engaging 25 nos. mobile water tankers. Water spraying arrangement on haul Details are as under: roads, wagon loading, and dump trucks (loading and unloading) points 12KL: 04 Nos. shall be provided and properly 14KL: 06 Nos. maintained. 16KL: 05 Nos. 20KL: 04 Nos. 25KL: 01 No. 28KL: 03 Nos. 70KL: 01 No. 80KL: 01 No. Apart from the above fixed water sprinklers are installed at main haul road. It would very much relevant to mentioned here that the 80 KL water tanker is being used in the Pakri Barwadih coal mining project which is unique in India. Further arrangement has been made to bring water from Eastern Quarry by pipeline to Western Quarry for adequate availability of water for dust suppression. Also, water from Eastern Quarry is being used for dust suppression in coal transport road through water tankers and also in the coal stock yard of CHP area. For controlling of the fugitive dust emissions wet drilling with water injection system is being in practice during drilling operations. Further to minimize the dust generation, part of the coal transportation is being

> एनटीजीसी स्मिक्टेड/ NTPC Limited बन वसन परिकल्पार्थ/ COAL MINING PROJECTS

done by trucks which is covered with the tarpaulin. Also, to prevent the dust generation due to plying of the trucks regular water sprinkling is being done along the transportation road.

Also, the coal has been transported in wet condition from mine end to Banadag Railway Siding. For wetting the coal there are fog canon installed in the crusher area as well as coal stock yard of CHP. Photographs attached as **Annexure-34**.

Apart from the above the coal which is transported through conveyor is done in closed belt passes through 10 nos. of TPs all the TP have water injection system which regularly inject the water in the coal. There are two nos. of mist fog canon have been installed at the TP-10 to wet the coal or minimize the dust generation. Also, green wind screen/net shed has been erected all around and at the top of the coal stock yard and coal is being transported in fully covered vehicle.

Further at the loading point i.e, at Banadag Railway Siding, Fixed type of water sprinkler with rain gun has been installed on both side of the Railway Siding. Also, regular water sprinkling is being done through the water taker. Apart from the above to minimize the dust propagation wind screen of 20 ft. height have been installed on both side of the Banadag Railway Siding.

Monitoring of the fugitive emission and heavy metal are being done at CPCB prescribed intervals. Analysis reports of same are enclosed as **Annexure – 33**.

Environmental monitoring of ambient air quality is being done through MoEF&CC approved and NABL accredited Lab at CPCB prescribed intervals.

Data for the Period April-2023 to Sept. 2023 is enclosed as **Annexure-33.**

The Last report was submitted online on

Data on ambient air quality (SPM, RSPM, SO2, NOx and heavy metals such as Hg, Pb, Cr, As, etc)) shall be regularly submitted to the Ministry its including Regional Office at and Bhubaneswar to the State Pollution Control Board and the Central Pollution Control Board once in six months.

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VI	Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment.	Parivesh Portal and to regional office vide letter no 1040/PBCMP/EMG/2023/F-47/111 dated- 31/05/2023 through mail dated 31.05.2023. Copy of the mail enclosed as Annexure-4. Effective measures are well taken to minimize the noise level below 85 dB (A) in the work zone.
	Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	All the equipment/machines are provided with acoustic enclosure cabins. Also, the Workers engaged in noisy operations are provided with earplugs/muffs. Noise levels are also being monitored at regular intervals the results are well within the prescribed norms.
		Noise monitored data is enclosed as Annexure—35.
VII	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, 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.	For treatment of wastewater generated at HEMM Washing Centre, an Electromechanical ETP with capacity of 200 KL has been installed at Mine workshop and Oil & grease trap with sedimentation pit is integral part of the ETP installed.
	Oil and grease trap shall be installed before discharge of workshop effluents.	For collection and treatment of industrial water SoP has been prepared which is rigorously followed at the plant. Flow diagram attached as Annexure-36 . Copy of the SOP of ETP operation is attached as Annexure-37 . Effluent quality data are enclosed as Annexure-26 .
VIII	Vehicular emissions shall be kept under control and regularly monitored.	Planned preventive maintenance of all vehicles plying for project is being done periodically. All the vehicles deployed at PBCMP are PUC compliant.
		PUC certificate of some of the vehicle is enclosed as Annexure – 38.
IX	Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board. Amendments dt 07.12.2017: The	Presently Monitoring and analysis is being done through MoEF&CC and NABL accredited lab in consultation with the State Pollution Control Board. However, Environmental laboratory has already been setup with the following equipments:
V.	monitoring shall be done by	❖ 5 nos. RDS machines,

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	-
NABL/MoEF&CC accredited Laboratory.	 5 nos. of fine particulate sampler, 1 no of High-volume sampler, 1 set of continuous ambient Air Quality monitoring station (AAQMS), 1 set of meteorological station, 1 set of noise level meter, 5 set of Piezometers with Automatic data recorder. 1 no. of manual water level meter, 1 no. of handy sampler for indoor air quality. 1 no. Personal Dust Sampler Photograph of the CAAQMS and other equipments are enclosed as Annexure – 19.
X 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 programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	All the possible measures are being taken to control the fugitive dust emission. Apart from controlling fugitive dust emission, Personal protective respiratory devices are provided to personnel working in dusty areas & adequate training on safety & health are also being imparted. Occupational health surveillance program prepared and implemented to identify the adverse impact, if any, and to take appropriate corrective action, if required. Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project are being done at required intervals to observe any contractions due to exposure to dust. The various tests include PFT, X-Ray, and lung spirometry etc. Summary report of the medical checkup is enclosed as Annexure – 39.
XI A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.	Environmental Management Cell is already functioning under supervision of senior executive who is reporting to Head of the
Kenn	At local level, dedicated department for

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NTPC Limited Pakri Barwadih Coal Mining Project (15MTPA)

	Environment Management is also functional with qualified Environmental Engineer. Head of the Department directly reports to Head of the Project. The
	working level staffs in Environment Cell have been deployed through MDO.
	The organization chart of the same is enclosed as Annexure – 40.
XII The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be	, ,
reported to this Ministry and its Regional Office at Bhopal.	So far, an amount of Rs. 5.465 Crores have been spent during April-2023 to Sept2023 for the Environment Management Cost.
	Till Sept. 2023 we have spent an amount Rs. 77.488 Crores (Rs. 61.155 Crores – Audited and Rs. 16.32 Crores - Unaudited) for the Environment Management Cost. Details of the expenditure incurred towards EMP are enclosed as Annexure-41.
XIII The Regional Office of this Ministry located at Ranchi 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.	project authorities to the officers of MoEF/
XIV A copy of the EC will be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	No suggestion / representation have been received while processing the proposal. Copy of the EC letter has been sent to the local administrative offices and the EC letter has been also uploaded on the company's website www.ntpc.co.in . Further, copy of the EC has been handed over to all the Mukhiya / Surpanch concerned with the PBCMP.
Made Kemen Tada BAIR INAVINKUMAR	Copy of the receipt of EC from different Panchayats is already submitted.
क बहाप्रकार (पर्यवस्त प्रकार) i DGM (ENVT. MGMT.) कारी साम्प्रदेश NTPC Limited कार्या सन्त परिवासनारी COAL MINING PROJECTS हजारी बात / Hazaribog	

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XV	State Pollution Control Board shall display a copy of the clearance letter	Copy of the EC letter was sent to office of District Industry centre, District Collector
	at the Regional Office, District	office for display.
	Industry Centre and Collector's	A copy of the EC has been also marked to
	Office/Tehsildar's Office for 30 days.	JSPCB for display at their Regional office.
XVI	The Project authorities shall advertise	EC was granted on 19.05.2009 which was
	at least in two local newspapers	received at our end on 25.05.2009 and the
	widely circulated around the project,	same was published in English Daily "The
	one of which shall be in the	Times of India" as well as in vernacular
	vernacular language of the locality	language (Hindi) daily <u>"PRABHAT</u>
	concerned within seven days of the	KHABAR " on 30.05.2009 which is within 7
	clearance letter informing that the	days of receiving the granted EC.
	project has been accorded	Copies of the name clippings published in
	environmental clearance and a copy of the clearance letter is available with	Copies of the news clippings published in Papers are enclosed herewith and marked
	the State Pollution control Board and	as Annexure- 42.
	may also be seen at the website of	ds Affileaure 42.
	the ministry of Environment & Forests	The half yearly Compliance status is being
	at http://envfor.nic.in/ . The	updated on Company's website.
	compliance status shall also be	https://www.ntpc.co.in/about-
	uploaded by the project authorities in	<u>us/corporate-</u>
	their website and regularly updated at	<u>functions/environment/status-hyc-reports</u>
	least once in six months so as to bring	The data is also being displayed at
	the same in the public domain. The	entrance of the office.
	data shall also be displayed at the	
	entrance of the project premises and mines office and in corporate office.	
3	The Ministry or any other competent	The additional conditions stipulated by
	authority may stipulate any further	MoEF vide amendment letter no. J-
	condition for environmental	11015/692/2007-IA.II(M) Dated
	protection.	29.06.2016, 07.12.2017, 14.08.2018,
		10.11.2020, 16.08.2023 & 09.11.2023
		towards environment protection have been
4	Failure to comply with any of the	complied.
4	Failure to comply with any of the	Noted and will be complied.
	conditions mentioned above may result in withdrawal of this clearance	
	and attract the provisions of the	
	Environment (Protection) Act, 1986.	
5	The above conditions will be enforced	Noted and will be complied under the
	inter-alia, under the provisions of the	provision of these acts and rules.
	Water (Prevention & Control of	
	Pollution) Act, 1974, the Air	
	(Prevention & Control of Pollution)	
	Act, 1981, the Environment	
	(Protection) Act, 1986 and the Public	Nail Kemen
	Liability Insurance Act, 1991 along	Nada Kill
	with their amendments and Rules.	नवान कुमार / NAVIN KUMAR स सरमकार (वर्षारल प्रसंका) / DGM (EVVT. MGMT)

Pakri Barwadih Coal Mining Project (15MTPA)

The proponent shall ensure to provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

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का बहातकाक (वर्षात्र प्रकार) IDGM (ENVT. MGMT.)
प्रनिर्धाति त्रातका प्रकार) NTPC Limited
काल असन परिकारणार्थं (COAL MINING PROJECTS
हजारीबार / Hazaribag

उपायुक्त का कार्यालय, हजारीबाग

(जिला योजना)

e-Mail;- dpohazaribagh@gmail.com

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उपायुक्त, हजारीबाग ।

सेवा में,

महाप्रबंधक एन ० टी ० पी ० सी ०, पकरी-बरवाहीह हजारीबाग ।

दिजांक... 1.6-1-0/2023 हजारीबाग,

विषय :-

सी०एस०आर० मद के तहत हजारीबाग जिला के बड़कागाँव स्थित मगालिय पार्क के विकास एवं पथ निर्माण हेतु राशि उपलब्ध कराने के संबंध में।

प्रसंगः-

आपका पत्रांक- NTPC/PBCMP/R&R-CD/2023 Dated 10-10-2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के द्वारा सी०एस०आर० मद के तहत हजारीबाग जिला के बहकागाँव स्थित मेगालिथ पार्क के विकास एवं पथ निर्माण हेतु ०६ किस्तों में 3,03,92,447/- रूपये राशि उपलब्ध कराने पर सहमति व्यक्त की गई है एवं मांग पत्र उपलब्ध कराने हेतु अनुरोध किया गया है।

उक्त के आलोक में अनुरोध है कि जिला डिपोजिट में उक्त राशि का प्रथम किस्त 50.00 लाख रूपये विम्नांकित बैंक विवरणी के अनुसार उपलब्ध कराने का कष्ट किया जाय। चिवरणी भिम्नवत है :-

वैंक का नाम:- भारतीय रटेट वेंक, मुख्य शाखा, हजारीवाम ਲਸਟਜ ਦਾਂਦਕਾ-11071859457

IFSC Code-SBIN0000090

विश्वासभाजन उपायुक्त हजारीबाग ।

नवीन कुमार I NAVIN KUMAR प्रमाणक (पर्यावस्य प्रमापन) / DGM (ENVT. MGMT.) एनटीजीसी विकित्ता NTPC Limited कोबल खनन परियोजनाएँ/ COAL MINING PROJECTS हजारीबाग / Hazaribag



एनटीपीसी लिमिटेड (भारत सरकार का उद्यम) **NTPC** Limited

(A Govt. of Indle Enterprise)

कोयला खनन परियोजनाएँ, हजारीबाग Coal Mining Projects, Hazaribag

Date: 28/10/2023

Ref: NTPC/PBCMP/R&R-CD/2023

To, The Dy. Commissioner, District Hazaribag.

Sub: Deposit of funds for development of "Megalith Park", at Barkagaon, Hazaribagh: reg

Respected Madam,

This has reference to the letter No.476 dated 16.10.2023, of the Deputy Commissioner, Hazaribagh, wherein the District Administration had requested for deposit of fund for Rs.3,03,92,447/- (Rs. 3.03 Crore approx.) in six (06) instalments for development of "Megalith Park", at Barkagaon, as per the estimated expenditure, under the Community Development activities of NTPC Pakri Barwadih.

In this connection, NTPC, Pakri Barwadih is depositing fund of Rs. 50.00 Lakhs (Fifty lakhs) as 1st Instalment with the 'The Deputy Commissioner, (CSR Fund) Hazaribagh' vide Cheque No. 090436 dated 20.10.2023 to start the development work of "Megalith Park", at Barkagaon.

Original Cheque is attached herewith. Subsequent instalments would be released on receipt. of Utilization Certificate of at least 80% amount of the previous instalment.

As part of the process, you are requested to direct the concerned Govt. Deptt./ Executives to kindly provide the Utilization Certificate/ Good quality photographs on a periodic basis. It is humbly submitted that the display of NTPC logo, as replicated below:

and citation 'Courtesy NTPC PBCMP' at appropriate locations of the project work, may also kindly be advised to concerned Govt. agency, so that the efforts of NTPC in augmenting the Govt. Schemes towards socio-economic development of the area also gets due recognition.

Thanking you,

Yours Sincerely,

(Neeraj Jalota)

HOP, PB & PB-NW Coal Mining Project

Encl.: As above

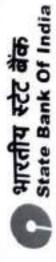
Charles or 11 2523 alr 35 CC: The District Engineer, Hazaribagh: For kind information please. The District Planning Officer, Hazaribagh: For kind information please.

नवीन कुमार I NAVIN KUMAR

एनटीजीसी विकित्त NTPC Limited ला खनन परियोजनाएँ। COAL MINING PROJECTS

हजारीबान / Hazaribag

कोयला खनन परियोजनाएँ, सिकरी साईट कार्यालय, बढ्कागाँव, हजारीबाग — 8253क्र ब्ह्यक्रक (पर्यवल प्रवेश) (DGM (ENVT. MGMT)



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For NTPC LIMITED

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- OF 1-13C Limited

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MULTI-CITY CHEQUE Payable at Par at All Branches of SBI

1516200000 PREFIX

Photographs showing # Catch drain and siltation pond has been constructed along the second top soil dump.







Six Monthly Progress Report on compliance of conditions stipulated in the Environmental Clearance by MoEF & CC and Monitoring report for the period Oct., 2022 to March 2023 for NTPC Ltd - Pakri Barwadih Coal Mining Project (15MTPA): Reg.

EMG_PBCMP <emg_pbcmp@ntpc.co.in>

Wed 31/05/2023 16:52

To:ro.ranchi-mef@gov.in <ro.ranchi-mef@gov.in>

Cc:TSPAKRI <tspakri@ntpc.co.in>;Upendra Kumar Pandit

- <uPENDRAKUMARPANDIT@NTPC.CO.IN>;NAVIN <NAVINKUMAR03@NTPC.CO.IN>;Amudala
- <a href="mailto: , jspcb_hazaribagh@rediffmail.com
- <jspcb_hazaribagh@rediffmail.com>;ranchijspcb@gmail.com
- <ranchijspcb@gmail.com>;mkbiswas.cpcb@nic.in <mkbiswas.cpcb@nic.in>

EC-Compliance.pdf

Dear Sir,

With reference to above subject please find enclosed herewith the six-monthly status report on compliance of various conditions in the Environmental Clearance accorded to <a href="https://www.ntpc.ncbi.nlm.ncbi

this is for your kind information please.

With regards

Navin Kumar Dy. GM (Envt. Mgmt.) PBCMP - NTPC Ltd.





नवीन कुमार / NAVIN KUMAR का बहापरप्रक (पर्वावत्व प्रवंधन) । DGM (ENVT. MGMT.) एनटीजीसी निर्मिटेड/ NTPC Limited कोवल सन्न परिपोजनारी/ COAL MINING PROJECTS हजारीहरूप / Hazaribag Photograph showing # Garland Drains and Siltation ponds along the OB Dump.













नवीन कुमार / NAVIN KUMAR का बहाराव्यक (पर्वावरण प्रवंत्र) IDGM (ENVT. MGMT.) एनटीपीसी ह्यांस्टेड/ NTPC Limited कोवल खन्न परिपाजनारी COAL MINING PROJECTS हजारीबान / Hazaribag

Photographs showing # Toe wall and garland drain around the OB dump









Photographs Showing Conveyor System





नदीन कुमार / NAVIN KUMAR क महाप्रकार (पूर्वादल प्रकार) IDGM (ENVT. MGMT.) एनटीजीसी (नांक्टेड) NTPC Limited क्रेस्स खन्न परिकारतर्ग COAL MINING PROJECTS हजारीबार / Hazaribag





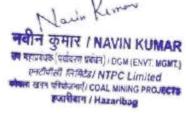
नवीन सुमार / NAVIN KUMAR
का बहामकाक (वर्षादल प्रवेचन) IDGM (ENVT. MGMT.)

Existing plantation photographs along the Northern part of the Mine Lease









 ${\bf Photographs\ showing\ \#\ plants\ have\ been\ planted\ along\ the\ northern\ boundary\ .}$





नवीन कुमार / NAVIN KUMAR क बहाप्रकार (पर्वादल प्रकार) I DGM (ENVT. MGMT.) एनटीपीसी स्विनेटेड I NIPC Limited केवल खरूर परिकटनार्ट COAL MINING PROJECTS हजारीबार / Hazaribag





नवीन कुमार / NAVIN KUMAR

का बहापकाक (पर्यावरण प्रवेचन) i DGM (ENVT. MGMT.) एनटीजीनी तिनिवेडी NTPC Limited कोवल खनन परियोजनारी COAL MINING PROJ**ECTS** हजारीबान / Hazaribog



File No.: J-11015/692/2007-IA-II(M) Government of India stry of Environment, Forest and Climate Cha

Ministry of Environment, Forest and Climate Change IA Division





Dated 09/11/2023



To,

Vijay Prakash NTPC LIMITED

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

, , NEW DELHI, DELHI, , 110003 environment.ntpe@gmail.com

Subject:

Pakri Barwadih Coal Mine Project (15 MTPA) of M/s National Thermal Power Corporation Ltd. (NTPC) located in villages Barkagaon, Itij, Chiruadih, Urub, Chepa, Kalan, Nagri, Jugra, Sinduari, Churchu, Carahara, Sonbarsa, Pakri-Barwadih, Chepa-Khurd, Deora-Kalan, Lakura, Langatu, Keri, Dadikalan, Tehsil Barkagaon, District Hazaribagh, Jharkand — Amendment in Environmental Clearance dated 19.05.2009 - reg.

Sir/Madam.

This is in reference to your application submitted to MoEF&CC vide proposal number IA/JH/CMIN/443583/2023 dated 08/09/2023 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. EC23A0101JH5786831A (ii) File No. J-11015/692/2007-IA-II(M)

(iii) Clearance Type Amendment in EC

(iv) Category A

(v) Schedule No./ Project Activity 1(a) Mining of minerals

(vi) Sector Coal Mining

(vii) Name of Project

Amendment of Environment Clearance of Pakri

Barwadih Coal Mining Project, NTPC Limited

(viii) Location of Project (District, State) HAZARIBAGH, JHARKHAND

(ix) Issuing Authority MoEF&CC

(x) EC Date

(xii) Applicability of General Conditions NO

नवीन कुमार / NAVIN KUMAR
का बहामध्ये (प्रवेदना प्रवेस) IDGM (ENVT. MGMT.)
का व्यापकार (प्रवेदना प्रवेस) NPC Limited

(xiii) Status of implementation of the project

- 3. The Ministry of Environment, Forest and Climate Change has granted Environmental Clearance vide its letter dated 19th May, 2009. Amendments in EC conditions were granted by Ministry: 1st amendment in EC vide letter dated 29.06.2016, 2nd amendment in EC vide letter dated 07.12.2017, 3rd amendment vide letter dated 14.08.2018, 4th amendment vide letter dated 10.11.2020 and 5th amendment vide letter dated 16th August, 2023 in favour of Pakri Barwadih Coal Mine Project (15 MTPA) of M/s National Thermal Power Corporation Ltd. (NTPC) Ltd. located in villages Barkagaon, Itij, Chiruadih, Urub, Chepa, Kalan, Nagri, Jugra, Sinduari, Churchu, Carahara, Sonbarsa, Pakri- Barwadih, Chepa-Khurd, Deora-Kalan, Lakura, Langatu, Keri, Dadikalan, Tehsil Barkagaon, District Hazaribagh, (Jharkand) with certain terms and condition.
- 4. As per EC condition, Project Proponent was comply the following condition:
- 2A (ix) "Mineral transportation from CHP to Railway siding shall be by closed belt conveyor of a length of 7km. The railway siding shall be provided with Silo Rapid Loading System".

Ministry vide its EC amendment letters as above at different time interval granted the amendments. As per EC Amendment letter dated 16.08.2023, following is stipulated

- i.e "The PP needs to complete the construction of closed belt conveyor system of a length of 13 km to Banadag railway station. The project proponent is permitted till October, 2023 to use Service road/State Highways for transportation of coal to Banadag railway siding by adopting all mitigative measure to control dust pollution".
- 5. Now the PP has again requested amendment of condition no. 2A (ix) to extend the time line to implement the same condition of belt conveyor with silo loading by citing the order of Hon'ble Supreme Court vide judgment dated 20.10.2023, in the matter of National Thermal Power Corporation (NTPC) v. Tripurari Singh in Miscellaneous Application No. 1824/2023 in Civil Appeal No. 6249 of 2021 wherein the timeline has been extended for completing the construction of the conveyor belt (mechanized system) from 31.10.2023 to 31.01.2024. Further, direction of Hon'ble Supreme Court order dated 20th October, 2023 states the following:
- "we extend the timeline fixed by the order of this Court dated 08.08.2022, till 31.01.2024"
- "MoEF&CC through the Sectoral Expert Appraisal Committee i.e., EAC shall appraise the matter afresh"
- "The outcome of the appraisal may be placed before this Court after information to the Project Proponent" and
- PP has submitted the following comparative status upon the implementation of Rapid Loading System 6. mentioning the progress of work after the last review made by EAC in August 2023 till 27th October 2023:
- Progress on 16.06.2023 (Last EC amendment application): Civil works: 76%; Structural Supply: 57%; Electrical and Mechanical Supply: 57%; Structural erection: 22%
- Progress on 27.10.2023: Civil works: 82%; Structural Supply: 74%; Electrical and Mechanical Supply: 76%; Structural erection: 39%
- 7. The proposal was considered by the sector expert appraisal committee in its 2nd EAC meeting held during 30th October, 2023 through Video Conferencing wherein the Committee recommended for the proposal for Amendment in Environmental Clearance letter dated 19.05.2009 i.e. amendment of condition no 2A (ix) up to 31st January, 2024 w.e.f 31st October 2023 for Pakri Barwadih Coal Mine Project (15 MTPA) of M/s National Thermal Power Corporation Ltd. (NTPC) Ltd. located in villages Barkagaon, Itij, Chiruadih, Urub, Chepa, Kalan, Nagri, Jugra, Sinduari, Churchu, Carahara, Sonbarsa, Pakri- Barwadih, Chepa-Khurd, Deora-Kalan, Lakura, Langatu, Keri, Dadikalan, Tehsil Barkagaon, District Hazaribagh, **Jharkhand,** under the provisions of EIA Notifications, 2006 and its amendments therein with following

हजारीबान / Hazaribag

specific conditions at Annexure I.

8. All other terms and conditions stipulated in the Environmental Clearance dated 19^{th} May, 2009 and its amendments vide letter 29.06.2016, 07.12.2017, 14.08.2018, 10.11.2020 and 16^{th} August, 2023 shall remain unchanged.

This issues with the approval of the competent Authority

Copy To

- 1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
- 2. The Secretary, Department of Environment & Forests, Government of Jharkhand, Secretariat, Ranchi
- The Additional Principal Chief Conservator of Forests, Regional office (ECZ), Ministry of Environment & Forests, Bungalow No. A-2, Shyamali Colony, Ranchi - 834002
- 4. The Chairman, Jharkhand State Pollution Control Board, TA Building, HEC Complex, PO Dhurwa, Ranchi
- The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi, 32
- The Chairman, Central Ground Water Authority, Ministry of Water Resources, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
- The District Collector, Hazaribagh, Government of Jharkhand
- Monitoring File/Guard File/Record File.
- 9. PARIVESH Portal

Annexure 1

Specific EC Conditions for (Mining of minerals)

1. Specific condition

S. No	EC Conditions	
1.1	PP needs to implement the conditions laid down in amended EC letter dated 16.08.2023 wherein additional safeguards with regard to road transportation have been provided.	
1.2	PP needs to submit the Certified Compliance Report (CCR) from IRO for the Amendm Environmental Clearance (EC) letter dated 16.08.2023 and their respective Action taken rep 15 December 2023.	
1.3	PP shall collect the One-month baseline data on environmental quality – air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, AS, etc), noise, water (surface and groundwater), soil at different location of the existing coal transportation route.	
1.4	PP needs to submit the Compliance of above condition no. (ii) in order to address the matter of court cases pending before the Hon'ble Supreme Court for National Thermal Power Corporation (NTPC) v. Tripurari Singh in Miscellaneous Application No. 1824/2023 in Civil Appeal No. 6249 of 2021.	

नवीन कुमार / NAVIN KUMAR
का कटावाक (पर्वाटन क्रिकेट) IDEM (ENT) MEMT)
(नटीपीनी समिक्टा NIFC Limited
काम वार्ष परिवेदना (LODAL MINING PROJECTS
कामीवार्ग I HAZARIST

Signature Not Verified

Digitally Signed by: Mr Lalit Bokolia Member Secretary MoEFCC (EC)

Date: 09/11/2023-

SECTION-XVII

IN THE SUPREME COURT OF INDIA CIVIL APPELLATE JURISDICTION MISCELECIEOUS APPLICATION NO. 1824 OF 2023

IN

CIVIL APPEAL NO. 6249/2021

IN THE MATTER OF:-

NATIONAL THERMAL POWER CORPORATION LIMITED (NTPC)

...PETITIONER

VERSUS

TRIPURARI SINGH & ORS.

...RESPONDENTS

INDEX

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[SHAILESH MADIYAL]

Advocate For Respondents 208, C.K. Daphtary Chamber Supreme Court of India New Delhi-110001

नवीन कुमार / NAVIN KUMAR
का बस्तवध्रक (पर्वादल प्रवंदन) IDGM (ENVT. MGMT.)
प्राणिती स्वतिदेश NTPC Limited
कोवल बनन परिचारवारी COAL MINING PROJECTS
हजारीबान / Hazaribag

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नवीन कुमार / NAVIN KUMAR का महारायक (वर्षायल प्रवेश) IDCM (ENVI MONT) वर्णायीकी विशेषका NTPC Limited केंद्रत अन्य परिवेदनारी COAL MINING PROJECTS हजारीवान / Hazaribag

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13. Letter of Orgenia (09

14 office Report dt. 18/8/2023 109 A

नवीन कुमार / NAVIN KUMAR का बहारपाठ (प्रवेदना प्रवेदन) IDGM (ENVT. MGMT.) का बहारपाठ (प्रवेदना प्रवेदन) IDGM (ENVT. MGMT.) कारीवात अपने प्रविद्याति (COAL MINING PROJECTS हजारिवान / Hazaribog

IN THE SUPREME COURT OF INDIA

CIVIL APPELLATE JURISDICTION
M.A. NO._______/2023

IN

CIVIL APPEAL NO. 6249 OF 2021.

IN THE MATTER OF:

NTPC LTD.

...APPELLANT

VERSUS.

TRIPURARI SINOJI & ORS.

... RESPONDENTS

AN APPLICATION SERKING EXTENSION OF TIME POR COMPLETION OF THE COAL CONVEYING SYSTEM FACILITIES/CEP AT APPELLANT'S PART BARWADIH COAL MINE PROJECT, BARKAGAON, BAZARIBAG.

TO, THE HONBLE CHIEF JUSTICE OF INDIA AND HIS COMPANION JUDGES OF THE SUPREME COURT OF INDIA

THE HUMBLE APPLICATION OF THE APPELLANT ABOVE NAMED

MOST RESPECTFULLY SHOWETH:

1. The captioned Appeal arose out of the impugned order dated 06.01.2021 passed in Original Application No. 61/2019/EZ by the National Green Tribunal, Principal Bench, New Delhi. Vide order dated 06.01.2021, the National Green Tribunal, Principal Bench, New Delhi had directed the Appellant to construct the Conveyor belt facilities at its Pakri Berwadth Coal Mining Project,

नवीन कुमार / NAVIN KUMAR
का बहातकार (वर्षांदल प्रवान) IDGM (ENVT. MGMT.)
का बहातकार (वर्षांदल प्रवान) IDGM (ENVT. MGMT.)
का बहात करियों हार्गिस्टा / NTPC Limited
कावत अन्य परियोजनार (COAL MINING PROJECTS
हजारियान / Hazaribag

2

Hazaribag, within three months. This order came to be passed without any basis or assessment of the time period required for completion of such facilities.

- 2. Being aggrieved by the same, the Appellant approached this Hon'ble Court by way of Civil Appeal No. 6249/2021. This Bon'ble Court, while dealing with the Appeal filed by the Appellant, initially, vide its order dated 22.10.2021 granted stay on operation of the order passed by the Hon'ble National Oreen Tribunal regarding fixation of time limit for construction of Conveyor System Later, vide its final order dated 08.08.2022, this Hon'ble Court was pleased to extend the timeline for completion of the construction of the conveyor best on or before October, 2023 The copy of the order dated 08.08.2022 passed by this Hon'ble Court in Civil Appeal No. 6249/2021 is annexed herewith and marked as Annexure A/1 (Pages 26 to 28).
- Por the sake of brevity, the Appellant is not repeating the detailed factual matrix leading to filing of the captioned Appeal before this Hon'ble Court. However, the Appellant

नवीन कुमार / NAVIN KUMAR
क बहारवर्ष्ड (वर्षटल प्रकंप) IDGM (ENVT. MGMT.)
व्यक्तिमंत्री त्रितिकेड / NTPC Limited
केवल जन्म परिवेदला/ (COAL MINING PROJECTS
क्रमस्तिमा / Hazaribag

3

would like to place on record certain faces, which are relevant for the adjudication of the present application:

- i. On 11.10.2004, the Ministry of Coal & Mines, Department of Coal, Government of India, New Delhi [hereinafter to be referred as MoC, New Delhi] allotted a coal block in favour of the Appellant NTPC Ltd. The said coal block is known as Pakri Barwadih Coal Mine block and has been allotted for captive use. The coal mining project is site specific i.e., where the coal deposits are available.
- This Coal Mine supplies coal to nearly 20 power projects of the Appellant NTPC Ltd. across most of the states of the Country. It is pertinent to note that in the wake of recent power shortage faced by the Country this Coal Mine assumes vital significance to meet the energy requirements.
- iii. On 25.08.2006, the MoC, New Delhi approved the mining plan in favor of Appellant/NTPC Ltd in respect of the Pakri Barwadih Coal Mine Block.

नवीन कुमार / NAVIN KUMAR वर्ष बहाउपक (वर्षाट्य प्रकेष) IDGM (ENVT. MGMT) एनटीवीसी हानकेश / NTPC Limited केवसा अन्य परिपोजनी (COAL Mining PROJECTS हणाविश्वन / Hazaribag

- iv. On 18 12.2007, the Jharkhand State Pollution Control Board, Jharkhand ["JSPCB"] granted Consent to Establish ["CTE"] to the NTPC Ltd.
- v. On 19.05.2009, the Ministry of Environment & Porests, Government of India, New Delhi granted Environmental Clearance to the Appellant and further granted amendments to same for transportation of coal by road to Banadag Railway siding up to October 2023 in view of the order dated 08.08.2023 passed by this Hon'ble Court.
- vi. On 11.05.2010, the Ministry Environment & Forests, (F. C. Division) Government of India, New Delhi granted Stage-I forest clearance to the Appellant for diversion of an area of 1026.438 hectares.
- vii. On 17.09.2010, the Ministry Environment & Forests. (F.C Division) Government of India. New Delhi granted Stage-II forest clearance to the Appellant.
- vioi. On 17.05.2016, the Appellant wrote a letter to the Director General of Mines Safety intumating.

नवीन कुमार / NAVIN KUMAR का ब्हाराव्यक (वर्षात्व प्रवेत) IDGM (ENVT. MGMT.) भारतीयीत (वर्षात्व MTPC Limited जेमस वर्षात्व प्रविदेश NTPC Limited जेमस वर्षात्व प्रविदेश (TAXARIDD) regarding initiation of mining activities in Pakri.

Barwadih Coal Mine Block.

- ix. On 12.12.2016, the JSPCB, Tharkhand renewed the Consent to Operate for operation of the Coal Block. The same has been extended and valid upto 31.12.2024. It is to be noted that various statutory clearances and Community Development-Corporate Social Responsibility (*CD-CSR*) were undertaken by the NTPC Ltd. in the years before starting of mining activities in the year 2016
- Meanwhile, the contracts for (i) manufacturing and design, and (ii) for transport/delivery and erection& operationalization of Main Coal Handling Plant [CHP] (vide CHP Contract/NOA dated 31.03.2011), and the Extended CHP (vide Extended CHP Contract/NOA dated 05.10,2011) at Appellant's Pakri Barwadih Coal Project were executed between the Appellant-NTPC Ltd. and Tecpro Systems Ltd [TSL].

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- xi. That in terms of the Main CHP Contracts, all Main CHP facilities and associated auxiliaries were to be completed within 18 months from the date of NOA i.e., form 31.03.2011. Similarly, commissioning and completion of all facilities pertaining to Extended CHP was to be done within 15 months from the date of NOA i.e., from 05.10 2011.
- ti is submitted that the TSL failed to meet its obligations on account of its poor financial condition which led to initiation of proceedings against it (for the default of approx 2800 Crores), under the insolvency and Bankruptcy Code, 2016 [hereinafter to be referred at TBC] vide CP (IB) No.197(PBI/2017 before National Company Law Tribunal, Principal Bench, New Defhi.
- The Main CHP, and once for the Extended CHP, awarded cost and time escalations and revisions to TSL, however, TSL failed to complete the Projects even in terms of such revised timelines.

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कोवात वरन प्रिकेटा / INTEXT Limited
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हमारीबार / Hazaribag

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LIQUIDATION OF TSL: The Corporate Insolvency Resolution Process against the TSL finally culmin≛ted into passing of an order for Liquidation of TSL, on 16.01.2020, by the National Company Law Tribunal, Principal Bench, New Delhi in the Company Petition. The order directing Liquidation of TSL was challenged before the National Company Law Appellate Tribunal, New Delhi [NCLAT] in CA [AT] No. 202/2020, which came to be dismissed on 08.09.2020. Thereafter, in an Appeal bearing Civil Appeal bearing No. 3299/2020 before this Hon'ble Court, the Liquidation Order was initially stayed by this Court, with a view to give an opportunity to the Resolution Applicant and the Corporate Debtor, to give effect to the Resolution Plan. However, videfinal order dated 01.03 2021, the Civil Appeal has been dismissed, and the Laguidation Order was upbeld. Therefore, presently, the TSL is being runby the Liquidator appointed by the National Company Law Tribunal, New Delhi.

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केवल द्वान परिवोदनी (COAL MINING PROJECTS
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ARRITHATION PROCESDINGS: It is pertinent to submit that the TSL vide notice dated 25.04.2019, invoked arbitration clause against the Appellant - NTPC Ltd. allegedly towards the amounts having not been settled by the NTPC Ltd. in connection with setting up of CHP for Pakel Barwadih Coal Mining Project, which led to initiation of the arbitration proceedings. Subsequently, the arbitral tribunal was consultated.

i While the arbitration proceedings were ongoing, on account of persistent delays and defaults, on 03.07.2021, NTPC Ltd. was constrained to issue show-cause notice, in terms of the contracts, and, due to absence of any repedial action, the Appellant proceeded to terminate the subsisting contracts vide Termination Notices dated 12.08.2021, with immediate offect.

xvii That on 04.09,2021, TSL filed an Application (dated 02.09.2021) under Section 17 of the Act, scelling, inter-alia, (i) setting exide of the Termination Notices; and, (ii) that NTPC Ltd. be

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कोवल दनन परिवोदली/ COAL MINING PROJECTS
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restrained from creating any third-party interest in the work being executed by TSL in relation to the Projects.

ad-interim order, thereby directing that the status quo be maintained with respect to creation of third party interest in the respect of the contract till the Application under Section 17 was decided.

This was extended vide order dated 14.09.2021 till 30.11.2021.

and 29.09.2021 passed by the Ld. Arbitral Tribunal were challenged by the Appellant-NTPC Ltd. by preferring an appeal bearing Arb. A. (Comm.) No. 58/2021 before the Honble High Court of Delhi. The Honble High Court, vide its final order dated 29.10.2021, set-aside the orders dated 14.09.2021 and 39.09.2021 passed by the Ld. Arbitral Tribunal. The true copy of the order dated 29.10.2021 passed in Arb. A. (Comm.) No. 58/2021 by the Honble High Court of Delhi is

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annexed herewith and marked as Announce A/2 (Pages 29 to 39).

- FRESENT STATUS OF WORK: That after XX. termination of the contracts for construction of Main & extended CHP awarded to M/s TSL, a total of 145 small contracts/purchase orders were second for execution of the balance works of Majn. & extended CHP upto Transfer Point-10 with a total awarded value of 76.66. Cr. excluding Goods. &Services Tax. Pursuant thereto, the work was executed and the commissioning of the Conveyor Stream-A (upto TP-10) was done, on 28 02,2022, and the commissioning of the Conveyor Streem-B. [tipto ΤΡ-10] was done, on 30.11 2022. The copies. of work completion certificates issued in this regard are annexed herewith and marked as Annexure A/3 (Colly.) [Pages 40 to 41].
- xxi. It is submitted that as per the scheme of the Coal
 Conveying facilities at Appellant's Pakri Barwadih
 Coal Mine Project, the Appellant is required to
 construct the Rapid Loading System and the

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कारोजीती त्वित्रेष्ट / NIPC Limited
कार्या व्याप्त पर्वादा (COAL MINING PROJECTS
कारोजीता / Hazaribog

Banadeg Railway Yard/tracks, beyond Transfer Point-10. The true copies of the route map/layout of the entire Coal Conveying facilities along with its schematic design are annexed herewith and marked as Annexure A/4 (Colly.) (Pages 42 to 44). The true copies of the schematic designs/route layout of Rapid Loading System and the Banadag Railway Yard/tracks at Appellant are Pakri Barwadih Coal Mine Project, beyond Transfer Point-10 are annexed herewith and marked as Annexure A/5 (Colly.) (Pages 45 to 46).

xxii. It is submitted that the construction of Mechanical Transport and Loading Arrangement from 'TP-10 to Banadag Railway Siding ('Rapid Loading System') and construction of Banadag Railway yard/tracks and associated works for NTPC Pakri Barwadih Coal Mining Project is/was completely dependent on the availability of the land from TP-10 till the area carmarked for construction of such facilities, which is

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approximately 24.593 Hectares. It is pertinent to submit that due to the continuous agitations of locals for fulfillment of demands beyond the acquisition policy etc., the Appellant had to repeatedly write to the Deputy Commissioner, Hazaribagh, Jharkhand requesting for deployment. of police personnel for taking possession of the notified land [for which the payment was already disbursed/compensation was already deposited). Due to such protest and agitations, the required. extent of land could be taken in possession only on 28.04.2023. The true copies of the certain communication between the Appellant and the District Administration, Hazaribag along with the photographs are annexed herewith and marked as Annexure A/6 (Colly.) [Pages 47 to 59].

examinite Permanently, on 06.12.2021, the Appellant had awarded a contract for Rapid Loading System [RLS] to M/s BTL EPC Ltd. for construction of Rapid Loading System for a value of 268 Crores.

The period for completion of work, as per contract.

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कारीमध्ये (पर्वावका प्रवाव) (DGL MINING PROJECTS
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is from 06 12.2021 to 05 10.2023 The true copies of the Notifications of Award to M/s BTL EPC Ltd., dated 06 12.2021 for construction of Rapid Loading System along with estimated timeline for completion are annexed here with and marked as Anaexure A/7 (Colly.) (Pages 60 to 68

accio.

It is reiterated that due to continuous agitations and encroachments by the locals, the required extent of land could be taken into possession only with the assistance of force deployed by District Administration. This could be done only on 28th April, 2023 by deploying the force for 2 continuous days. Thereafter, the land was banded over to M/s BTL EPC Ltd for further construction activities of Rapid Loading System. That due to delay in handover of the required extent of land, M/s BTL EPC Ltd has revised the timeline for completion of construction of Rapid Loading System from 5th October, 2023 to 27th September, 2024. The true copy of the email communication along with the revised estimation of timeline for

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कारा द्वारा चीर्वादार्गा/ COAL MINING PROJECTS
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completion submitted by M/s BTL BPC Ltd to the Appellant are annexed herewith and marked as Annexure A/8 (Colly.) [Pages 69to 61].

Meanwhile, on 04.07.2022, the Appellant had XXV. awarded a contract to Eastern Central Rullways, indian Railways for the construction of Banadag Railway yard/tracks and associated works for NTPC Pakri Barwadih Coal Mining Project through Railways on deposit work basis for loading of coalfrom Rapid Loading System into railway. wagons/rakes on awarded value of Rs. 170 Crores. The total length of route is 2843 Meters the total length of the tracks to be laid by Railways is approximately 17 Kilometers). Out of which, 235 Meters route length falls in the forest land for which the Appellant is in the process of obtaining the forest clearance. That land for another extent of route length i.e., 1220 meters was taken into possession only on 28.04.2023, which was more than 09 months after the award. of contract.

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काल द्वान परिकारणी, COAL MINING PROJECTS
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handover of the required extent of land to Eastern Central Railways for commencement of work, has affected the estimated timeline for completion of construction of Banadag Railway yard/tracks and associated works. The revised estimated timeline for completion of construction of Banadag Railway yard/tracks and associated works is by the end of October, 2024. A chart showing the sequence of activities carried towards construction of Banadag Railway yard/tracks and associated works and the expected timeline for completion is annexed herewith and marked as Annexuse A/9 (Pages 92).

System can be made ready for operation only after completion of the complete Rapid Loading System and construction of Banadag Radway yard/tracks for loading of coal into the railway wagons for transportation of coal to the respective power plants. It is submitted that due to delay in taking

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केवल बना चीर्पाट्यारी (COAL MINING PROJECTS
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possession of land, the progress of the work was senously affected and the Appellant would not be in position to complete the entire facilities by October, 2023, as directed by this Hon'ble Court on 08.08.2022.

exviii. It is submitted that keeping in mind the additional un anticipated hindrances, time required for load trial min of complete conveying system and process of integration of existing CHP with RLS system, it is estimated that the entire process will be completed by 31.12.2024. Therefore, this

31.12.2024.

application seeks an extension of time upto

further pertinent to submit that the executives of the NTPC Ltd. or of the companies engaged in construction of the Coal Handling Plant, who are visiting villages and associated with land Acquisition/R&R/Infrustructure works are getting frequent threat calls from anti-social elements/villagers during their visit to villages.

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Due to this, the mining operations and the Development works have faced frequent disruptions due to law-and-order assues, leading to mordinate delays at all work fronts. The ground situation could easily be understood from the following events.

A In the month of October 2016, there was a standoff between the agitating villagers and the Dist. Administration during land acquisition drive for the mine approach road. The agitators attacked the land acquisition officials and also the then C.O. Barkagaon, who was looking after the law and order situation. The C.O. was seriously injured in this incident along with other policemen. As a result, the Police had to open fire on an unruly mob to safeguard their lives resulting in four people succumbing to their injuries. Pew of other major incidents are mentioned as under:

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- 3. In an unfortunate incident, which occurred in the month of December, 2019, one Sh. Gopal Singh, a senior official of Mine Developer-cum-Operator was murdered by the unknown assailants.
- C. Another unfortunate incident occurred recently on 19.02.2021, in which Shri Satyendra Singh, working in M/s L&T for construction of CHP for NTPC Ltd.'s Kerandari mine, was shot dead in broad daylight while travelling to Barkagaon. This incident has again created a fear situation among the employees of NTPC Ltd. and its associates. Recently, a contractor of the CHP has received threats and was warned not to operationalize the CHP.
- D. On 03.03.2021, with the help of Dist. Administration, the illegal structures at two(02) locations were demolished in MDO's CHP corridor. However, during this

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प्रनिर्दार्थित (पर्वादन प्रकार) INTPC Limited
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process, the vehicles of Circle Officer, Barkagaon and other officials were vandalized & Police personnel were injured due to stone pelting by the encroachers.

- E. It is reiterated that due to the continuous agitations of locals for fulfillment of demands beyond the acquisition policy etc., the Appellant had to repeatedly write to the Deputy Commissioner, Jharkhand requesting for deployment of police personnel for taking possession of the notified land [for which the payment was already disbursed/compensation was already deposited]. These lands are/were required for the purpose of completion of construction of CHP, rail tracks, silo and Rapid Loading System.
- Rven as recently on 09th May, 2023, one
 Mr. Shareth Babu, GM Coordination of ChattiBarlatu Coal Mining Project Limited

नवीन कुमार / NAVIN KUMAR वर बराजकार्क (वर्षदल प्रवेवन) IDCM (ENVT MGMT) एनटोर्जासी जिल्लेट्डा NTPC Limited केवल बनन परिपोदनप्री COAL MINING PROJECTS हजाविदान / Hazaribag |another coal block of Appellant in the same District| was shot dead in the broad daylight near Pakri Barwadih Barakgaon. Hazaribag.

- 4 The Appellant would also like to place on record following documents for the kind reference of this Hon'ble Court:
 - (i) The photographs showing the present status of the construction of Coal Conveying System/ facilities/Coal Handling Plant as compared to the status of construction as in 2021/2022 are annexed herewith and marked as Assertise A/10 (Colly.) (Pages 93 to 107).
 - (ö) A progress bar chart of the total extent of work done fowards entire Coal Conveying System facilities/CHP (from mine to Railway Siding) at Appellant's Pakri Barwadih Coal Mine Project, Barkagaon, Hazaribag, at present, is annexed herewith and marked as Annexure A/11 [Pages 108].
- That if the present application is not allowed the Appellant/Applicant would be put to great prejudice and

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कोवात वर्षण विचित्रती (COAL Mining PROJECTS
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hardship and on the other hand, no prejudice would be caused to the Respondents, if the application is allowed.

PRAYER

WHEREFORS, it is therefore, respectfully prayed that this Hon'ble
Court may graciously be pleased to:

- a) Allow the present application, and
- b) Extend the timeline for completion of the entire Coal Conveying System (actilities/CHP (from mine to Railway Skling) at Appellant's Pakri Barwadih Coal Mine Project, Barkagaon, Hazaribag, until 31*December, 2024; and
- c) Pass any other order/orders as this Hor/ble Court may deem fit and proper in the facts and circumstances of the case.

AND FOR THIS ACT OF KINDNESS, THE APPELLANT AS INDUTY BOUND SHALL EVER PRAY.

FILED BY:

Sharlesh

(SHAILERH MAD(YAL)
ADVOCATE FOR THE AFFELLANT

PLACE: NEW DELHI

DATE: 05:08:2023

नवीन कुमार / NAVIN KUMAR क बहायकक (पर्वादन प्रवंधन)। DGM (ENVT. MGMT.) एनटीपीनी हिनाकटेड/ NIPC Limited

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IN THE SUPREME COURT OF IMOUS

CIVIL APPELLATE JURISDICTION

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CIVIL APPEAL NO. 5249 OF 2021

IN THE MATTER OF:

NTPC LTD.

..... ... APPELIANT

VEREUS

TRIPURARI SINGH & CRS

..... RESPONDENTS

APELDAVJT

I, Basam Komor Behera. S/o Like Sunakor Behera. aged about 43 years, working as Additional General Manager (Pitel Management - Coal Co-ordination) with NTPC 14d. - Pakei Berwadih Coal Maning Project. presently at NTPC Sixri. Hazaribagh-825301, POPPS-Barkageon, District Hazaribagh, do hereby solemaly affirm and state as under:

I. That I am the authorized representative of the Appellant, Applicant berein in the abovernment with the present and as such I am well conversant with the lasts and circumstances of the case and hence. I am authorized to sweat to this diffiducit.

नवीन दुमार / NAVIN KUMAR क ब्लाग्यंड (वर्षदल प्रवंत) IDGM (ENVT. MGMT.) वर्णार्थाती ज्ञानेस्ट्र NTPC Limited केवल खन्न चरिकेट्याएं (COAL MINING PROJECTS हजारीबान / Hazaribag

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- That I have read and understood the contents of the accompanying application, which has been drafted upder my instructions and the same are true and correct to my knowledge and belief.



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नवीन कुमार / NAVIN KUMAR
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कारोजी साम्रेड | NTPC Limited
कोवत द्वार परिवारनार्थ COAL MINING PROJECTS
हजारिवान / Hazaribog

VERSENCATION

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कोवल खनन परिवादनए/ COAL MINING PROJECTS
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एनटीपीसी स्थितिको NTPC Limited
कोवल अन्य परिवादनाई/ COAL MINING PROJECTS
हजाविवान / Hazaribag

SUPREME COURT OF INDIA RECORD OF PROCEEDINGS

Miscellaneous Application No. 1824/2023 in C.A. No. 6249/2021

(Arising out of impugned final judgment and order dated 08-08-2022 in C.A. No. 6249/2021 passed by the Supreme Court of India)

NATIONAL THERMAL POWER CORPORATION LIMITED (NTPC) Petitioner(s)

VERSUS

TRIPURARI SINGH & ORS.

Respondent(s)

(IA No. 155852/2023 - EXTENSION OF TIME and IA No. 192404/2023 - GRANT OF INTERIM RELIEF)

Date: 20-10-2023 This matter was called on for hearing today.

CORAM:

HON'BLE MR. JUSTICE J.K. MAHESHWARI HON'BLE MR. JUSTICE K.V. VISWANATHAN

For Petitioner(s)

Mr. Tushar Mehta, Solicitor General

Ms. Aishwarya Bhati, A.S.G.

Mr. Shailesh Madiyal, AOR

Mr. Sudhanshu Prakash, Adv.

Mr. Vaibhav Sabharwal, Adv.

Mr. Akshay Kumar, Adv.

Ms. Divija Mahajan, Adv.

For Respondent(s)

Mr. Vikramjeet Banerjee, A.S.G.

Mr. Gurmeet Singh Makker, AOR

Mr. Piyush Beriwal, Adv.

Mr. S K Gupta, Adv.

Ms. Nidhi Khanna, Adv.

Ms. Chinmaee Chandra, Adv.

Mr. Rajesh Kumar Singh, Adv.

Mr. Ishaan Sharma, Adv.

UPON hearing the counsel the Court made the following O R D E R

Signature Not Verified

Digitally signed by
Nidhi Ahuja
Date: 2022-10.21
16:28:42

By this application, the National Thermal Power

Corporation Limited has made the following prayer:

- "a) Allow the present application; and
- b) Extend the timeline for completion of the entire Coal Conveying System facilities /CHP [from mine to Railway siding] at Appellant's Pakri Barwadih Coal Mine Project, Barkagaon, Hazaribag, until 31st December, 2024"

Earlier, this Court by its order on 08.08.2022 had extended the timeline for completion of the construction of the conveyor belt till 31.10.2023.

When the application was taken up, response from the Ministry of Environment, Forest and Climate Change (hereinafter referred to as 'MoEF&CC' for brevity) was called for. MoEF&CC has filed an affidavit dated 13.10.2023 wherein after setting out the background, in para 18 they have averred as under:

"18. That, however, it is pertinent to mention that the Sectoral Expert **Appraisal** Committee i.e., EAC appraises proposal amendment in EC as per the merits of each case to observance of applicable environmental safeguards. **Applications** extension in timeline for installing mechanized appraised under the category of systems are amendment in EC. As per the direction of the Hon'ble Supreme Court, Ministry can have the instant matter, seeking extension in timeline installation of mechanized transportation system, appraised afresh by the Sectoral EAC upon receipt of such application for amendment in EC. The outcome of such an appraisal shall be made available to the Project Proponent for any further direction regarding the matter by Hon'ble Supreme Court."



Having considered the averments made in the application and the reply of MoEF&CC, we extend the timeline fixed by the order of this Court dated 08.08.2022, till 31.01.2024.

In the meantime, we also give liberty to the applicant to file an appropriate application for amendment of the Environmental Clearance Certificate (EC). On the filing of such an application, MoEF&CC through the Sectoral Expert Appraisal Committee i.e., EAC shall appraise the matter afresh.

The outcome of the appraisal may be placed before this Court after information to the Project Proponent.

List the matter on 29th January, 2024.

(NIDHI AHUJA) AR-cum-PS (VIRENDER SINGH) BRANCH OFFICER

नवीन कुमार / NAVIN KUMAR वन क्षानक्ष्यः (वर्षात्म क्षान्यः) IDGM (ENVT. MGMT.) स्मरोगीती शत्मिक्ष्यं / NTPC Limited भेकत व्यान अधिवास्त्यः (COAL MINING PROJECTS क्रमाचित्रमा / Hazaribog



NTPC Limited

(A Govt. of India Enterprise)

कोयला खनन परियोजनाएँ, हजारीबाग Coal Mining Projects, Hazaribag

Ref: 1040/PBCMP/EMG/2023/F-47/199

Date: 19.10.2023

To,

The Deputy Director General of Forests (C), MoEF & CC, Regional Office, 2nd Floor, Headquarter, Jharkhand State Housing Board, Harmu Chowk, Ranchi (Jharkhand) - 834 002.

Sub: Submission of status of Dumuhani Nallah as per specific condition no. 1.3, 1.5 amd 1.8 of the Environmental Clearance amendment dated 16.08.2023 accorded by MoEF & CC for NTPC Ltd - Pakri Barwadih Coal Mining Project (15MTPA): Reg.

Ref: 1. EC Ref. no. J-11015/692/2007-IA-II(M) Dated 19.05.2009.

Letter No. 2/PMC/ND-171/2012/224 Dated 19.03.2013.

EC Amendment dated 16.08.2023.

Respected Sir,

With reference to specific condition no. 1.3, 1.5 and 1.8 of the Environmental Clearance amendments dated 16.08.2023, I hereby submit the Following:

Condition no-1.3 & 1.5 -It is kindly submitted that in compliance of the specific condition no. iv of EC dated 19.05.2009, the CWPRS was awarded the study and designing of the Nallah diversion. Based on the above study report of CWPRS, NOC/permission has been accorded by Water Resource Dept, GoJH for realignment of Dumuhani nallah vide letter mentioned under reference 2 (attached as Annexure-1). In line with this, to continue the mining operation 3.1 Km length of Dumuhani nallah has been re-aligned. Rest of the part of Dumuhani Nalla is intact. Photographs (attached as Annexure-2) and Drone Video of Dumuhani Nalla (attached as Annexure-3) is being submitted to your kind office. It is further submitted that NTPC Ltd PBCMP shall make all possible efforts towards protecting catchment area of the streams flowing within the lease boundary as well as along the boundary of lease area until mining operation reaches its vicinity.

Condition No-1.8- It is kindly submitted that required "Public Grievance Redressal and Monitoring System" has been established at Pakri Barwadih Coal Mining Project for resolving any issues related to the pollution of mines. Adequate awareness is being spread among the public / local villagers to address their grievance. A logbook is being maintained by NTPC on "Public Grievance Redressal and Monitoring System". The same is being monitored weekly by Head of Department (Envt Mgmt.) and monthy by Head of Project (PBCMP).

Thanking you.

Encl.: A/a

Yours Faithfully

[NAVIN KUMAR]

नवीन कुमार / NAVIN KUMAR

THE PROJECTS OF THE PROJECTS OF THE PROJECTS OF THE PROJECTS

10

Trucks are covered with tarpaulins for prevention of spillage and generation of dust.











नवीन कुमार / NAVIN KUMAR क बस्यवयक (प्रवेदन्स प्रवेदन) IDCM (ENVT. MGMT.) एन्ट्रीपीसी स्थापित । NTPC Limited कोबस्स खन्न परिवोद्यन्त्र (COAL MINING PROJECTS हजारीबान / Hazaribog





नवीन कुमार / NAVIN KUMAR
क हराउच्छ (प्रवेदल प्रवेद) IDCM (ENVT. MGMT.)
प्रभित्ती स्टाइट्ड NTPC Limited
केवल बन्न परिवादनप्रे COAL MINING PROJECTS
हराविदान / Hazaribog

Dust Suppression through Water Tanker







Photographs of Garland Drain and Settling Pit

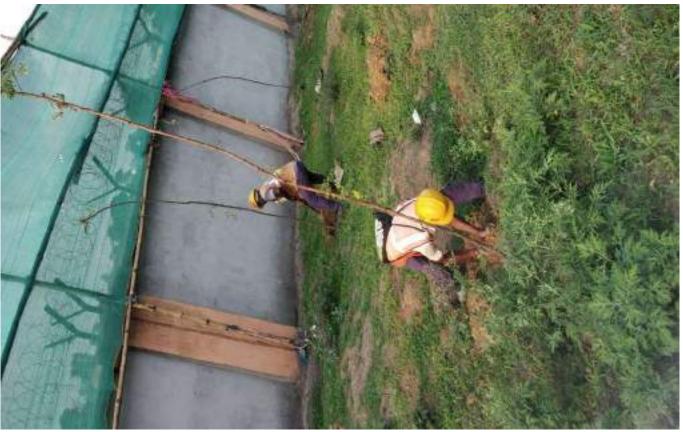


















नवीन कुमार / NAVIN KUMAR क ब्हारकार (प्रवेदल प्रकार) IDGM (ENVI. MGMT.) एनटीजीस स्तारकार NTPC Limited केवल वन परिकारनी COAL MINING PROJECTS हजारीबान / Hazaribag

Plantation photographs at Banadag Railway Siding





PAKRI BARWADIH COAL MINING PROJECT, NTPC LTD.

ENVIRONMENTAL MONITORING EQUIPEMENTS

Sl. No.	Name of Equipment	No. of Equipments
1.	Respirable dust sampler	5
2.	Fine Dust Sampler	5
3.	High Volume Sampler	1
4.	Continuous AAQ Monitoring Station	1
5.	Continuous AAQM PM10 Analyzer	1
6.	Noise Level Meter	1
7.	Telemetry Piezometer	2
8.	Telemetry Ground Water Level Meter	4
9.	Meteorological Station	1
10.	pH, TDS, EC Handy Meter	1

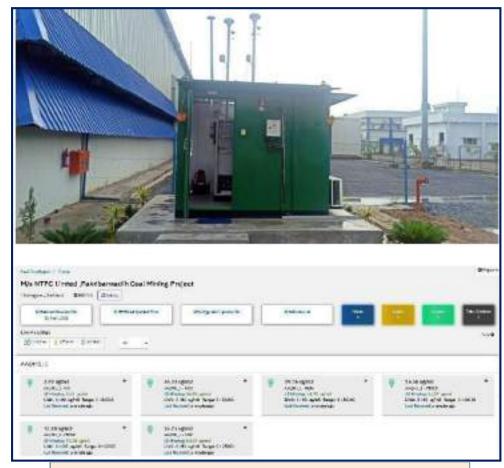


Ambient Air Quality Monitoring

नवीन कुमार / NAVIN KUMAR
का सम्बन्धः (पर्वाटल प्रकार) IJCM (ENVI MGMT.)
रामदीवीता सांकरंड/ INTPC Limited
काला जन्म परिवोद्धार (COLL MINING PROJECTS
हमारिका जन्म परिवोद्धार / Hazaribag

Continue Ambient Air Quality Monitoring Station.

CAAQMS Online Monitoring System installed at Site Office, the monitoring system is monitoring the parameter like PM_{10} , $PM_{2.5}$, SO_2 & NO_x . The real time data is generating continuously and transferring to JSPCB server.



Continuous Ambient Air Quality Monitoring Station



नवीन कुमार / NAVIN KUMAR का बरायका (पर्वाटल वर्षक) i DGM (ENYT. MGMT.) कार्यका स्वाटका क्रिका) i DGM (ENYT. MGMT.) कार्यका वर्षका क्रिका क्रिका क्रिका क्रिका क्रिका क्रमाला वर्षका क्रिका क्रिका क्रमाला क्रमाला हुआ होता ।



Two (02) nos. Piezometers inside the mine premises with continuous automatic data recorder



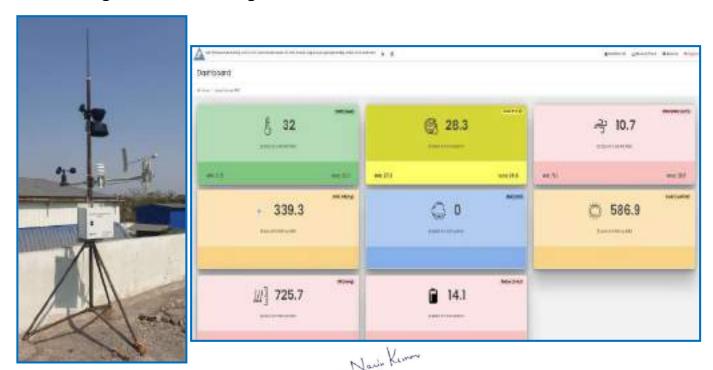




The project has installed Four (4) nos. water flow recorder in & around the project area with continuous automatic data recorder for monitoring of the ground water consumption.



Meteorological Station at Langatu Site Office

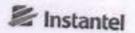


नवीन कुमार / NAVIN KUMAR
का बहावचंडक (प्रवेदला इवंडन) / DGM (ENT. MGMT.)
प्रनिर्दानी स्थानेट्डा NTPC Limited
कार्या व्यान परिकटनाई/ COAL MINING PROJECTS
हजारीबार / Hazaribag

pH, TDS & EC Meter



नवीन कुमार / NAVIN KUMAR
का बरावध्ये (पर्यवल प्रवेश) JOCH (ENT. INGNE)
कारीनी सामदेश NIPC Limited
क्षेत्रमा सम्बद्धा NIPC Limited
क्षेत्रमा सम्बद्धा (COAL MINING PROJECTS
हजारीवान / Hazaribag



Tran at 14:07:55 September 28, 2023

Range Record Time

Trigger Source Geo: 0.610 mm/s Geo: 254.0 mm/s 4.0 sec at 1024 sps

Notes

Location:

On ground surface

Client

Pakri Barwadih Coal Mines Western Quarry

Black Diamond Explosives Pvt Ltd User Name

General:

Extended Notes

Microphone Linear Weighting PSPL 110.6 dB(L) at 3,479 sec

4.2 Hz

Channel Test Passed (Freq = 19.7 Hz Amp = 516 mv)

PPV PPV ZC Freq Time (Rel. to Trig) Peak Acceleration Peak Displacement Sensor Check Frequency Overswing Ratio	Tran 0.762 48.64 7.6 0.008 0.027 0.018 Passed 7.5 3.2		0.635	mm/s dB Hz sec g mm
Overswing Hatio	3.2	3.6	3.4	

Peak Vector Sum 0.861 mm/s at 0.008 sec

Serial Number BE20826 V 10.72-1.1 Minimate Blaster

Battery Level 6.2 Volts

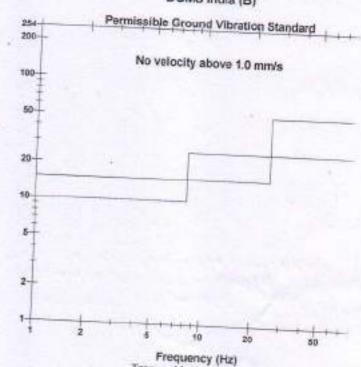
Unit Calibration January 18, 2023 by UES New Delhi

File Name TEMP.EVT

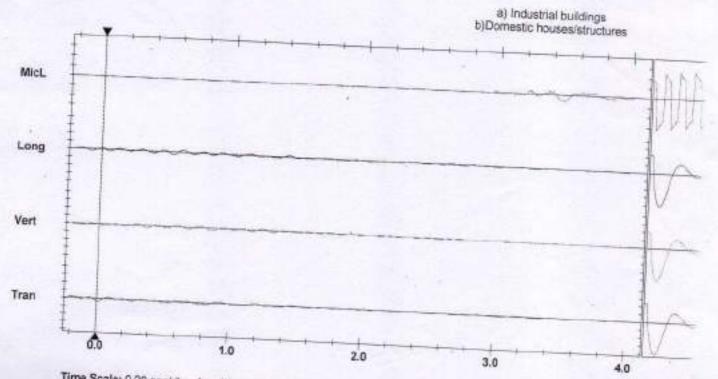
Post Event Notes

At Near Nagari Village 200 Mtr from Blasting Patch

DGMS India (B)



Tran: + Vert x Long: 8



Velocity (mm/s)

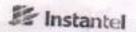
Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic. 10.000 pa (L)/div

Sensor Ch

Printed: October 2, 2023 (V 10.72 - 10.72)

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नवीनं कुमार I NAVIN KUMAR का महाप्रवयक (पर्यावरण प्रवयन) / DGM (ENVT. MGMT.) एनटीजीसी त्यापटेड/ NTPC Limited । सनन परियोजनाएँ/ COAL MINING PROJECTS हजारीबाप् / Hazaribag



Date/Time

Vert at 14:24 41 August 5, 2023

Trigger Source Gao: 0.610 mm/s Range Record Time

Geo: 254.0 mm/s 4.0 sec at 1024 sps

Notes

Location

On ground surface

Pakri Berwadih Coal Mines Western Quarry User Name

Black Diamond Explosives Pvt Ltd

General:

Extended Notes

Microphone Linear Weighting PSPL 120.2 dB(L) at 3.756 sec ZC Freq

5.6 Hz

Channel Test Passed (Freq = 20.1 Hz Amp = 479 mv)

Tran Vert Long PFV 1.651 1.778 1.651 PPV mm/s 55.35 56.00 55.35 dB ZC Fleg 13 28 Hz Time (Ref. to Trig.) 0.716 0.824 0.278 8éc Peak Acceleration 0.027 0.040 0.040 Peak Displacement g 0.030 0.011 0.022 Sensor Check mm assed Passed Passed Frequency 7.5 7.5 7.6 Hz Overswing Ratio 30 3.6 3.4

Peak Vector Sum 2.373 mm/s at 0.278 sec

Serial Number Battery Level

BE20626 V 10.72-1.1 Minimate Blaster

5.3 Volts

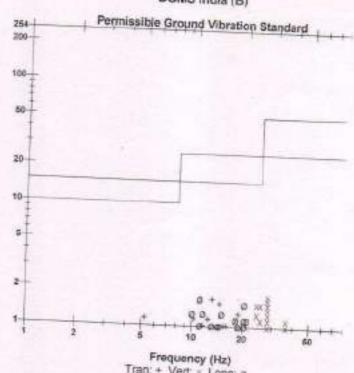
Unit Calibration January 18, 2023 by UES New Delhi

File Name V628K52Y.P50

Post Event Notes

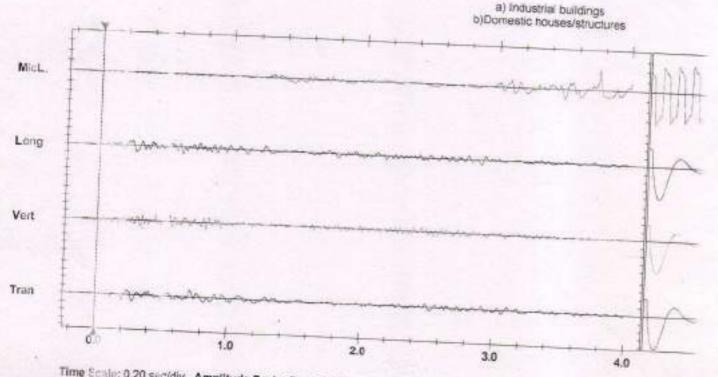
At Near tige Village 305 MT From Blasting Patch

DGMS India (B)



Tran: + Vert: x Long: ø

a) Industrial buildings



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div

Sensor Ch Naula

नवीनं कुमार I NAVIN KUMAR का महाप्रवयक (पर्यावस्य प्रवयम) / DGM (ENVT. MGMT.) एनटीवीसी स्थापटेड! NTPC Limited स्थापन परियोजनारी COAL MINING PROJECTS हजारीबाय / Hazaribag

Printed: August 11, 2023 (V 10.72 - 10.72)

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Velocity (mm/s)

Date/Time

Train at 14:27:12 August 2, 2023

Trigger Source Geo 0.610 mm/s Range Record Time

Geo. 254.0 mm/s

Notes

4.0 sec at 1024 sps

Location:

On ground surface

Client: User Name Pakri Barwadih Coal Mines Western Quarry

Black Diamond Explosives Pvt Ltd.

General

Extended Notes

Microphone Linear Weighting PSPL

118.8 dB(L) at 3.195 sec

ZC Freq 43 Hz

Channel Test Passed (Freq = 20.1 Hz Amp = 510 mv)

PPV PV C Freq Ime (Rel. to Trig) eak Acceleration eak Displacement ensor Check Frequency Overswing Ratio	Tran 1.524 54.66 10 1.185 0.027 0.022 Check 7.5 3.3	56.00 9.8 1.383 0.027 0.031 Passed 7.6	Long 1.905 56.60 6.5 1.088 0.040 0.032 Passed 7.6 3.3	mm/s dB Hz sec g mm

Peak Vector Sum 2.024 mm/s at 0.438 sec

Serial Number BE20626 V 10.72-1.1 Minimate Blaster

Battery Level 5.3 Volts

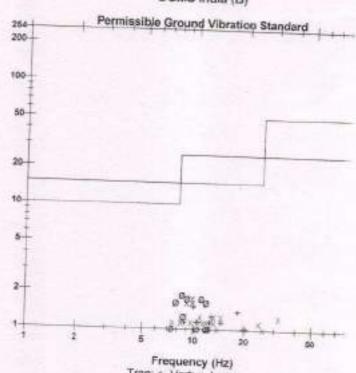
Unit Calibration January 18, 2023 by UES New Deihi

File Name V626K4XE.TC0

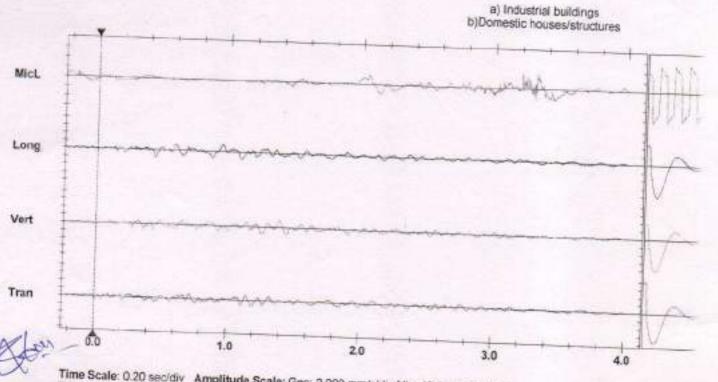
Post Event Notes

At Near Nagari Village 280 MT From Blasting Patch

DGMS India (B)



Tran: + Vert: | Long: o



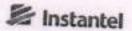
Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 ps.(L)/div

Sensor Ch

Printed: August 11, 2023 (V 10,72 - 10.72)

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नवीन कुमार / NAVIN KUMAR क्र महाप्रवयक (पर्यावरण प्रवयन) DGM (ENVT. MGMT.) एनटीजीसी निमिटेड / NTPC Limited भेकत खन्न परियोजनारी COAL MINING PROJECTS हजासेबान / Hazaribag



Velocity (mm/s)

Date/Time

Tran at 14:44:49 June 29, 2023

Trigger Source Range

Geo: 0.603 mm/s Geo: 127.0 mm/s

Record Time

6.0 sec at 1024 sps

Notes

Location

On Ground Location

Client

Pakri Barwadih coal Mines Western Quarry

User Name: Converted:

Black Diamond Exposives Pvt Ltd July 19, 2023 14:54:23 (V10.72)

Extended Notes

Microphone

Linear Weighting

PSPL ZC Freq

106.0 dB(L) at 2.242 sec

9.1 Hz

Channel Test Passed (Freq = 20.0 Hz Amp = 265 mv)

PPV PPV ZC Freq Time (Rel. to Trig) Peak Acceleration Peak Displacement Sensor Check Frequency Overswing Ratio	Tran 1.524 54.66 6.0 1.009 0.040 0.032 Passed 7.8 3.9	1.334	Long 2.223 57.94 14 0.736 0.053 0.025 Passed 7.8 3.5	mm/s dB Hz sec g mm
Destall .	5000	-	- 64.64	

Peak Vector Sum 2.508 mm/s at 0.737 sec

Serial Number

5803 V 2.61 MiniMate

Battery Level 6.4 Volts

Unit Calibration November 2, 2022 by UES New Delhi

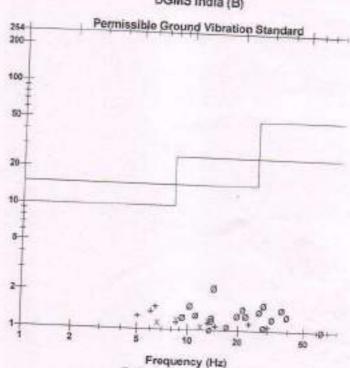
G503K388.MP0

Post Event Notes

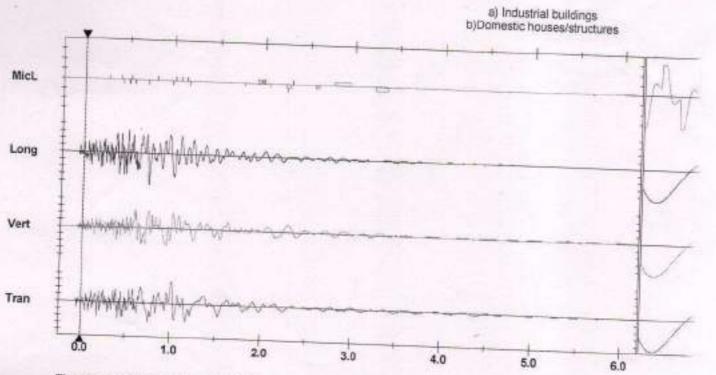
File Name

At Near Churchur Gate 320 Mt From Blasting Patch

DGMS India (B)



Frequency (Hz) Tran: + Vert v Long: a



Time Scale: 0.50 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 5.000 pa (L)/div

Sensor Chi

Printed: July 19, 2023 (V 16.72 - 10.72)

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नवीने कुमार I NAVIN KUMAR क्र बहुपारच्छ (पर्वादन प्रस्ता) I DCM (ENVT. MGMT.) एनटीवीसी स्थापटेड/ NTPC Limited का सन्न परिकेलनाई/ COAL MINING PROJECTS हजारीबाय / Hazaribag



Velocity (mm/s)

Vert at 14:12:47 May 12, 2023

Trigger Source Geo: 0.510 mm/s Range Record Time

Geo: 31.75 mm/s 1.0 sec at 1024 sps

Job Number:

Notes Location Client. User Name: General:

Microphone PSPL

Linear Weighting

ZC Freq

91.48 dB(L) at 0.566 sec

15 Hz

Channel Test Check (Freq = 0.0 Hz Amp = 0 mv)

0.826 0.017 0.044 Passed 7.6	0.838 0.013 0.030 Passed	N/A 0.969 0.015 0.042 Passed	Hz sec g mm
7.6	7.6	7.7	Hz
	0.017 0.044 Passed 7.6	0.017 0.013 0.044 0.030 Passed Passed 7.6 7.6 3.1 3.5	0.826 0.838 0.969 0.017 0.013 0.015 0.044 0.030 0.042 Passed Passed Passed 7.6 7.6 7.7 3.1 3.5 3.2

Peak Vector Sum 2.489 mm/s at 0.830 sec

N/A: Not Applicable

Battery Level

Serial Number BE20626 V 10.72-1.1 Minimate Blaster

6.3 Volts

Unit Calibration January 18, 2023 by UES New Delhi

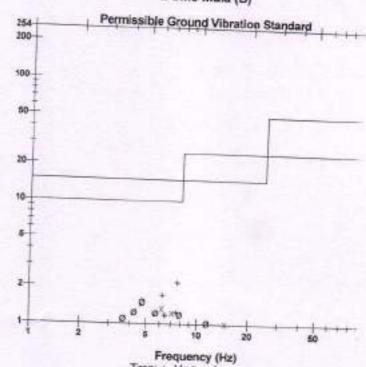
File Name

V626KOPJ.HB0

Post Event Notes

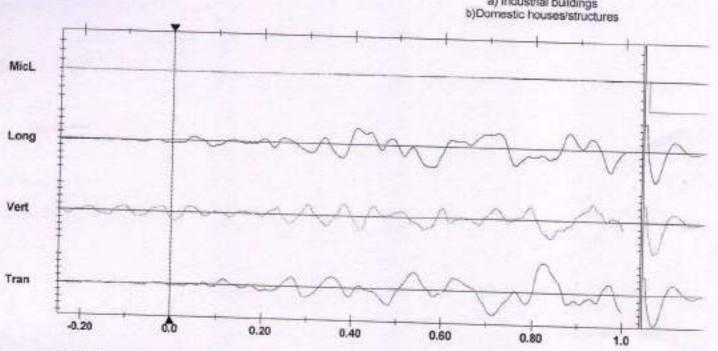
At Near Nagari Village 250 Mt From Blasting Patch

DGMS India (B)



Tran: + Vert: x Long: ø

a) Industrial buildings



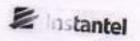
Time Scale: 0.10 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic. 10.000 pa.(L)/div

Sensor Che.

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नवीने कुमार / NAVIN KUMAR व्य ब्रह्मावयक (पर्यावस्त प्रवेतन) / DGM (ENVT. MGMT.) क्षत्रकारक अध्यक्ष अभिन्द्र MTPC Limited क्षेत्रका खन्न परिकेशनार्थं COAL MINING PROJECTS हजारीबान / Hazaribog

Printed: May 17, 2023 (V 10.72 - 10.72)



Date/Time

Tran at 14:20:56 May 20, 2023 Trigge Sec Geo: 0.510 mm/s

Range Geo: 31.75 mm/s Record Time 1.0 sec at 1024 sps

Job Number:

Notes Location Client: User Name General

Att.

Lon

Tran

Prince

Microphine Linear Weighting PSPL 108.8 dB(L) at 0.338 sec ZC Frem

7.6 Hz

Charge Test Passed (Freq = 20.1 Hz Amp = 423 mv)

PPV PPV ZC Fro Time Pen in Pen in Significant Over	o Trig) eration coment k	Tran 1.699 55.60 4.9 0.896 0.010 0.052 Passed 7.4 2.9	0.635 47.08 7.2 0.914 0.008 0.014	1.000	mm/s dB Hz sec g mm

Por Sum 1,747 mm/s at 0.896 sec

Serial Number BE20626 V 10.72-1.1 Minimate Blaster

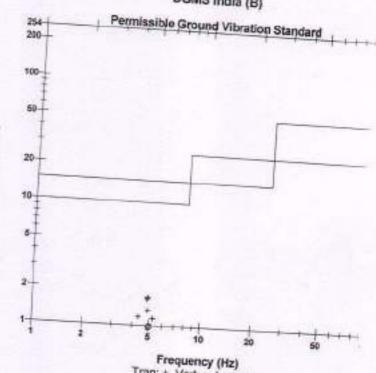
6.2 Volts

Unit Calibration January 18, 2023 by UES New Delhi File Name V626K14D,6W0

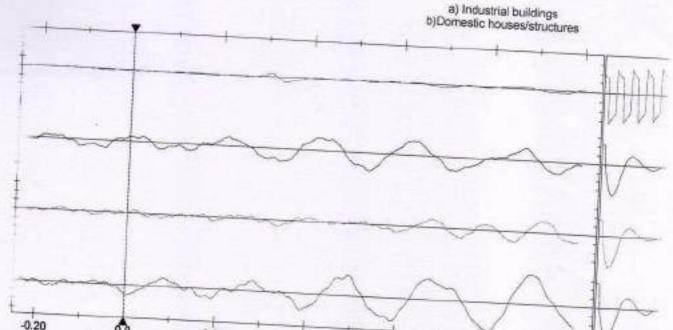
Post Event Notes

At Near Itige Village 290 MT From Blasting Patch

DGMS India (B)



Tran: + Vert. x Long ø



Velocity (mm/s)

0.60 Time Scale: 0.10 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.000 pa (L)/div

0.20

7, 2023 (V 10.72 - 10.72)

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0.40

1.0

0.80

Sensor Cher

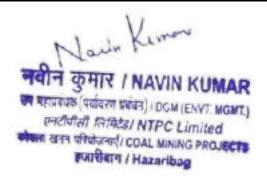
नवीन कुमार / NAVIN KUMAR क्न महाप्रकारक (पर्यावस्त्र प्रकारन) / DGM (ENVT. MGMT.) एनटीजीसी सिमिटेड/ NTPC Limited मेका सन्त परिकंडनाई/ COAL MINING PROJECTS हजारीबान / Hazaribag

	PAKRI BARWADIH COAL MINING PROJECT										
	G	Ground W	ater Level	Monitoring R	eport (in	meter) - A	April-Septe	mber-202	.3		
SI.No.	Monitoring Location	Total Depth of Well	Height from surface	GPS Location	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	
1	SINDUARI	10 meter	0.10 meter	N- 23° 53' 33.3" E- 85° 12' 08.3"	8.00	8.15	8.20	8.20	8.10	7.90	
2	KANDABER	20 meter	0.95 meter	N- 23° 54' 26.4" E- 85° 09' 34.7"	9.30	9.40	9.55	9.60	9.50	9.25	
3	SIRMA	9 meter	0.40 meter	N- 23° 53' 36.1" E- 85° 10' 42.5"	6.85	7.00	7.10	7.15	7.10	6.95	
4	PAKRI BARWADIH	10 meter	0.55 meter	N- 23° 52' 16.6" E- 85° 13' 55.5"	5.10	5.20	5.35	5.35	5.20	5.05	
5	AMBAJEET	11 meter	0.45 meter	N- 23° 51' 07.8" E- 85° 17' 12.0"	8.60	8.70	8.85	8.90	8.60	8.45	
6	HORAM	10.5 meter	0.45 meter	N- 23° 50' 28.0" E- 85° 15' 09.6"	8.20	8.25	8.35	8.40	8.30	8.15	
7	DHENGA	11 meter	0.40 meter	N- 23°50' 48.2" E- 85°13' 30.9"	5.95	6.10	6.20	6.25	6.15	6.00	
8	DEWORIA KHURD (1)	9 meter	0.85 meter	N- 23° 53' 06.7" E- 85° 11' 06.9"	7.40	7.45	7.55	7.60	7.50	7.30	
9	KANKIDARI	9 meter	0.5 meter	N- 23° 53' 05.5" E- 85° 12' 38.2"	7.40	7.55	7.60	7.65	7.55	7.45	
10	DARIKALAN	15.1 meter	0.25 meter	N-23°52'29.208'' E- 85° 13'5.714''	9.80	9.90	9.95	10.00	9.90	9.75	
11	LANGATU	14 meter	0.30 meter	N- 23° 51'0.889" E-85°12'54.623"	10.05	10.10	10.20	10.25	10.15	9.90	
12	BARKAGAON	10 meter	0.75 meter	N- 23° 53' 05.5" E- 85° 12' 38.2"	8.35	8.40	8.50	8.55	8.45	8.30	
13	SONBARSA (1)	8 meter	0.30 meter	N-23°52'48.579" E-85°12'15.253"	6.40	6.50	6.55	6.65	6.60	6.35	
14	ІТІЈ	13 meter	0.35 meter	N-23°55'33.715" E- 85° 11'3.872"	7.30	7.40	7.45	7.55	7.50	7.35	
15	KERIGARA	11 meter	0.25 meter	N-23°51'51.562" E- 85°12' 12.15"	9.60	9.65	9.75	9.80	9.70	9.55	
16	NAGRI	4.5 meter	0.20 meter	N- 23° 54' 30.4" E- 85° 12' 06.6"	2.50	2.55	2.65	2.70	2.60	2.40	
17	SONBARSA (2)	7.90 meter	0.40 meter	N-23°52'39.66" E-85°12'19.51"	5.60	5.70	5.75	5.85	5.80	5.55	
18~	DEWORIA KHURD (2)	10 meter	0.50 meter	N-23°53'7.01" E- 85° 11'39.01"	6.95	7.05	7.10	7.15	7.05	6.80	
NAVIN K	CHURCHU UMAR	8.80meter	0.30 meter	N-23°53'24.24" E- 85°11' 49.23"	6.60	6.70	6.75	6.85	6.80	6.55	
NTPC Lin		14.30 meter	0.40 meter	N- 23° 54' 9.34" E- 85° 11' 16.01"	11.55	11.70	11.75	11.85	11.70	11.45	

नवीन कुमार ।। ज बस्याव्यक (पर्यादल प्रवंद

एनटीपीसी तिरावटेड/ NTPC Limited कोकत खनन परियोजनार्थ COAL MINING PROJECTS हजारीबान / Hazaribag

		PAKRI BARV	VADIH COAL	. MINING PRO	DJECT	
	Automatic Wa	ater Level Reading	in meter (Piezome	ter -1) - 2023, Locat	ion - NTPC Office,	Sikri
Date	April	May	June	July	August	September
1	7.31	7.98	9.25		8.52	
2	6.92	8.07	9.35		8.98	1
3	6.79	8.09	9.33	8.45	8.91	1
4	6.92		9.03	8.21	9.20	1
5	7.09	,	8.85	8.37	9.49	7.61
6	6.87			8.51	8.98	7.56
7	7.00			8.39	8.65	7.79
8	7.07	8.45	9.91	8.21	10.02	7.90
9	7.37	8.28	9.32	8.03	8.90	7.88
10	6.88	8.13	9.54	7.96	8.80	7.75
11	7.15	8.96	9.46	8.23	9.28	7.75
12	7.40	8.50	9.03	8.20	8.93	7.84
13	7.47	8.82	9.35	8.24	8.94	7.58
14	7.60	8.85	9.77	8.42	8.68	7.81
15	7.53	8.41	9.38	9.10	8.77	8.26
16	7.72	9.13	9.89	8.63	8.42	8.32
17	7.51	9.01	9.64	8.31	9.08	8.26
18	7.53	9.03		8.42	8.28	7.79
19	8.02	9.00	9.91	8.42	8.55	7.84
20	7.66	9.09	9.56	8.42	8.52	
21	7.41	9.15	9.27	8.14	8.24	1
22	7.01	8.93	9.12	8.45		1
23	6.79	9.19	9.08	8.18		7.41
24	6.59	9.02	9.20	8.30	8.35	6.88
25	6.94	9.25	8.94	8.61	8.69	7.21
26	7.50	9.59	8.74	8.77	9.38	7.06
27	8.14	9.30	8.65	8.98		7.11
28	8.13	•	8.64	9.27		7.08
29	7.82		8.44	9.12	9.10	7.13
30	8.05		8.86	8.94	8.31	7.30
31		8.86		8.37	8.34	
Avg.	7.34	8.80	9.24	8.47	8.83	7.61



		PAKRI BARV	VADIH COAL	MINING PRO	DJECT	
Auto	matic Water L	evel Reading in	meter (Piezome	ter -2) - 2023, Lo	cation - Nursery,	Sonbarsa
Date	April	May	June	July	August	September
1	7.53	7.68	8.05	8.13		
2	7.34	7.72	8.08	8.06		
3	7.32	7.70	8.09	8.01		
4	7.34	7.70	8.20	7.96		
5	7.33	7.90	8.19	7.93		8.82
6	7.36	7.70	8.22	7.90	-	8.78
7	7.38	7.69	8.24	7.92	-	8.79
8	7.39	7.70	8.32	7.87		8.82
9	7.38	7.69	8.38	7.84		8.83
10	7.44	7.88	8.37	7.83	1	8.77
11	7.48	7.90	8.38	7.86		8.76
12	7.54	7.92	8.39	7.84		8.73
13	7.49	7.86	8.40	7.85	1	8.76
14	7.56	7.95	8.40	7.93		8.80
15	7.53	8.05	8.41	7.94]	8.76
16	7.49	7.94	8.47	7.85	Not working	8.68
17	7.65	7.89	8.46	7.93		8.64
18	7.69	7.88	8.26	7.94		8.76
19	7.69	7.96	8.26	7.85		8.71
20	7.71	8.00	8.20	7.82		8.63
21	7.63	8.05	8.21	7.83		8.63
22	7.63	8.04	8.23	7.85		8.63
23	7.65	7.99	8.17	7.82		8.28
24	7.61	8.14		7.74]	8.14
25	7.68	8.06]	7.75]	7.82
26	7.73	7.92]	7.83]	7.74
27	7.71	7.99		7.90		7.66
28	7.67		8.14	7.89		7.63
29	7.73	7.99	8.12	7.96		7.64
30	7.70	8.03	8.12	8.02		7.51
31 Avg.	7.55	8.01 7.90	8.08 8.25	7.90		7.49 8.42





PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

GROUND WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF AUGUST 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

		SROUND W	ATER REPORT	18.08.2023)			Ke Control	17000	
S. No	PARAMETER			RES	ULT		Acceptable Limit	Permissible limit	
		Unit	WELL AT SINDUARI- (GW-1)	WELL AT KANDABER - (GW-2)	WELL AT SIRMA- (GW-3)	WELL AT PAKRI BARWADIH - (GW-4)	IS: 10:	500-2012	
1	Colour	Hazen	<5.0	<5.0	<5.0	<5.0	5 Max	15 Max	
2	Odour	ini	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
3	Taste	****	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
4	Turbidity	NTU	3.2	3.8	4.2	4.5	12	5	
5	pH		7.45	7.32	7.26	7.45	6.5-8.5	No relaxation	
6	Residual Free Chlorine(as Cl2)	mg/l	ND	ND	ND	ND	0.2	1	
7	Total Dissolved Solids	mg/l	498	512	395	512	500	2000	
8	Total Hardness (as CaCO3)	mg/l	208	213	165	213	200	600	
9	Calcium (as Ce)	mg/l	41.5	42.7	32.9	42.7	75	200	
10	Magnesium	mg/l	25.2	25.9	20.0	25.9	30	100	
11	Chloride (as Ci)	mg/l	135	138.4	106.8	138.4	250	1000	
12	Sulphote	mg/l	58.0	54.0	53.0	42.0	200	400	
13	Iron (as Fe)	mg/l	0.28	0.25	0.32	0.28	0.3	No relaxation	
14	Copper(as Cu)	mg/l	BOL	BDL	BDL	BDL	0.05	1.5	
15	Boron	mg/l	ROL	BDL	BDL	BOL	0.5	1	
16	Nitrate (as No ₂)	mg/l	5.2	4.6	4.1	5.2	45	No relaxation	
17	Fluoride (as F)	mg/l	0.21	0.32	0.24	0.26	1	1.5	
18	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	BDL	BDL	SOL	BDL	0.001	0.002	
19	Mercury(as Hg)	mg/l	BOL	BDL	BOL	BDL	0.001	No relaxation	
20	Cadmium (as Cd)	mg/l	BOL	BOL	BDE	801			
13	Solonium (as Se)	mg/I	BDL	BDL	BOL	BOL	0.003	No relaxation	
22	Arsenic (as As)	mg/t	BOL	BOL	BOL	BDL	0.01	No relaxation	

नवीन कुमार I NAVIN KUMAR

नवीन कुमार / NAVIN KUMAR क महाराज्यक (पर्वादन प्रवेचन) I DCM (ENYT. MGMT.) पनटीजीती स्थितिका NTPC Limited कोचना स्थन परिचाजनरें। COAL MINING PROJECTS हजारीचान / Hazaribag



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PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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			GRO	UND WATER F	REPORT			
23	Cyanide (as CN)	mg/l	BDL	BDL	BDL	BDL	0.05	No relaxation
24	Lead (as Pb)	mg/l	BDL	BDL	BDL	BOL	0.01	No relaxation
25	Zinc (as Zn)	mg/l	BDL	BDL	BDL	SDL.	.5	25
26	Total Alkalinity	mg/l	178	183	141	183	200	600
27	Aluminium (as Al)	mg/l	BOL	BDL	BOL	BDL.	0.03	0.7
28	Barium (as Ba)	mg/l	BDL	BDL.	BOL	BOL	0.7	No relaxation
29	Ammonia (Total Ammonia -N)	mg/l	BOL	BDL	BDL	BDL	0.5	No relaxation
30	Silver (as Ag)	mg/l	3DE	BDL	BDL	BOL	0.1	No relaxation
31	Nickel (as Ni)	mg/l	BDL	BDL	BOL	BDL	0.02	No relaxation
32	Chromium (as Cr + 5)	mg/l	BOL	BOL	BOL	8DL	0.05	No relaxation
33	Manganese (as Mn)	mg/l	BOL	BDL	BOL	BOL	0.1	0.3
34	ECOI	/100 ml	Absent	Absent	Absent	Absent	-	NOT DETECTABLE IN 100 ML SAMPL
35	Total Coli forms	MPN/100 ml	Absent	Absent	Absent	Absent		NOT DETECTABLE IN 100 ML SAMPL
36	Conductivity	μ\$/cm	772	812	571	794	NOT SPECIFIED	NOT SPECIFIED
			BDL- Br	low Detection	on Limit		7	

***END OF TEST REPORT ***

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FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR का बारावरक (पर्वाटन प्रवेड) IDGM (ENT. MGMT.) जारीवीनी त्यांकेडा NTPC Limited केवल बनन चीनकेडनरे, COAL MINING PROJECTS हजारीवान / Hazaribag

AUTHORISED SIGNATORY (SHIKHA BHATIYA)





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GROUND WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF AUGUST 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

			PAKRI B	ARWADIH C	OAL MINES			
		GROUND	WATER REPOR	T (18.08.2023)			Acceptable	Permissible
S. No	PARAMETER				RESULT		Limit	limit
		UNIT	WELL AT AMBAJIT- (GW-5)	WELL AT HORAM (GW-6)	WELL AT BARKAGAON (GW-7)	WELL AT DEWORIA KHURD- (GW-8)	NS: 105	500:2012
1	Colour	Hazen	×5.0	<5.0	<5.0	<5.0	5 Max	15 Max
2	Ociour	****	Agreeable	Agreeable	Agreeable	Agreeable	Agreeabl e	Agreeable
3	Taste		Agreeable	Agreeable	Agreeable	Agreeable	Agreeabl e	Agreeable
4	Turbidity	NTU	3.6	26	1.8	2.4	-1	5
5	рн		4.23	7.15	7.22	7.28	6.5-8.5	No relaxation
6	Residual Free Chilorine(as CI2)	mg/l	ND	NO	ND	ND	0.2	1
7	Total Dissolved Solids	mg/l	478	485	476	394	500	2000
8	Total Hardness (as CaCD3)	mg/l	199	202	198	164	200	600
9	Calcium (as Ca)	mg/l	39.8	40.4	39.7	32.8	75	200
10	Magnesium	mg/l	24.2	24.5	24.1	19.9	30	100
11	Chloride (as CI)	mg/l	129.2	131.1	128.6	106.5	250	1000
12	Sulphate	mg/l	38.0	48.0	58.0	38.0	200	400
13	Iron (as Fe)	mg/i	0.31	0.34	0.22	0.32	0.3	No relaxation
14	Copper(as Cu)	mg/l	BOL	BOL	BDL	901	0.05	1.5
15	Boron	mg/l	BDL	BDL.	80£	BDI.	0.5	1
16	Nitrate (as No2)	mg/l	4.7	4.3	4.1	4.9	45	No relaxation
17	Fluoride (as F)	mg/l	0.28	0.22	0.25	0.15	1	1.5
18	Phenolic Compound (as C6HSOH)	mg/l	BDL	BDL	BDL	BDL	0.001	0.002
19	Mercury(as Hg)	mg/l	BOL	BOL	BOL	BDL	0.001	No relaxation
20	Cadmium (as Cd)	mg/l	BDL	BOL	BDL	BDL	0.003	No relaxation
21	Selenium (as Sei	mg/l	BOL	BOL	BDL	BDL	0.01	No relaxation
22	Arsenic (as As)	mg/l	BDC	BUL	BDL	BOL	0.01	0.05

मबीन कुमार / NAVIN KUMAR क सहामध्यक (वर्षास्त्र प्रतिका) / DGM (ENVT. MGMT.)

एनटीजीसी शिक्टेश NTPC Limited इस सन्त्र परिकालाई COAL MINING PROJECTS हजारीबाग / Hazaribog

Page 1 of 7



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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			GROU	JND WATER RE	PORT			
23	Cyanide (as CN)	mg/l	BDL	BDL	80L	BDL	0.05	No relaxation
24	Lead (as Pb)	mg/l	BDL	BDL	BOL	BOL	0.01	No relaxation
25	Zinc (as Zn)	mg/l	BDL	BDL	BOL	BOL	5	15
26	Total Alkalinity	mg/l	171	173	170	141	200	600
27	Aluminum (as Al)	mg/l	BDL	8DL	BDL	BDL	0.03	0.2
28	Barium (as Ba)	mg/l	BDL	BDL	BDL	BDL	0.7	No relaxation
29	Ammonia (Total Ammonia –N)	mg/l	BDL	BDL	BDL	BDL	0.5	No relaxation
30	Silver (as Ag)	mg/l	BDL	BDL	BDL	BDL	0.1	Norelexation
31	Nickel (as Ni)	mg/I	BDL	BDL	BDL	BOL	0.02	No relaxation
32	Chromium (as Cr +6)	ma/l	BOL	BDL	BDL	BOL	0.05	No relaxation
33	Manganese (as Mn)	mg/I	BDL	BOL	BDL	BOL	0.1	0.3
34	E. Coli	/100 ml	Absent	Absent	Absent	Absent	100	NOT DETECTABLE IN 100 ML SAMPL
35	Total Coli forms	MPN/ 100 ml	Absent	Absent	Absent	Absent	-	NOT DETECTABLE IN 100 ML SAMPL
36	Conductivity	µ\$/cm	741	552	738	543	NOT SPECIFIED	NOT SPECIFIED
	·	100	BDL- Be	low Detection	n Limit			

***END OF TEST REPORT ***

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FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीने कुमार । NAVIN KUMAR व बरावाक (पांदल प्रांता) IDM (EVY) MGMT.) अन्तर्वाची स्टाकेश NIPC Limited केवत वन परिकेटनएँ (COAL MINING PROJECTS स्थापिता / Hazaribag







PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

GROUND WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF MAY 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD., LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

-				ARWADIH CO	JAL MINES			
GROUND WATER REPORT (02.05.2023)								2000
S. No	PARAMETER			RES	Acceptable Limit	Permissible Emit		
1 (5000)		Unit	WELL AT SINDUARI- (GW-1)	WELE AT KANDABER - (GW-2)	WELL AT SIRMA- (GW-3)	WELL AT PAKRI BARWADIH - (GW-4)	IS: 10500:2012	
1	Colour	Hazen	<5.0	<5:0	<5.0	<5.0	5 Max	15 Max
2	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agrecable	Agreeable
3	Taste	(H-14	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4.	Turbidity	NTU	4.2	4,1	4.8	5.3	1	5
5	pH	- III	7.28	7,31	7.22	7.42	6.5-8.5	No relaxation
6	Residual Free Chlorine(as CI2)	mg/l	ND	DA	NO	ND	0,2	1
7	Total Dissolved Solids	mg/l	553	563	397	540	500	2000
8	Total Hardness (as CaCO3)	mg/l	263	268	189	257	200	500
9.	Calcium (as Ca)	mg/l	52.7	53.6	37.8	51.4	75	200
10	Magnasium	mg/l	32.0	32.6	23.0	31.2	30	100
11	Chloride (as Ci)	mg/l	157	155	117.0	162.0	250	1000
12	Sulphate	mg/I	60.1	62.0	48.0	62.0	200	400
13	Iron (as Fe)	mg/l	0.16	0.2	0.25	0.32	0.3	
14	Copper(as Cu)	mg/l	BDL	BDL	BDL	BDL.		No relexation
15	Boron	mg/l	BOL	BDL	BDL	80L	0.05	1.5
16	Nitrate (as No ₂)	mg/l	2.8	8.7	5.1	7.0	0.5	1
17	Fluoride (as F)	mg/l	0.26	0.35	0.34		45	No relaxation
18	Phenolic Compound (as CaHyOH)	mg/l	BDL	BDL	BDL.	0.29 BDL	0.001	0.002
19	Mercury(as Hg)	mg/i	BOL	BOL	BDL	BCL	0.001	No relaxation
20	Cadmium (as Cd)	mg/l	BOL	BDL	BDL	BDE	0.001	
11	Selenium (as Se)	mg/l	8DL	BDL	BDL	BDL		No relaxation
22	Arsenic (as As)	mg/I	BDL	BDL	BDL	BDL.	0.01	No relaxation 0.05

नवीन कुमार / NAVIN KUMAR का सरकारक (पर्वारल प्रवेश) I DOM (ENYT. MGMT) जनतीती तरकार NTPC Limited कामा वन्न परिवारली (DOL MINING PROJECTS रूजारीवान / Hazaribog Aland I

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PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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		diam't	GRO	UND WATER F	EPORT			
23	Cyanide (as CN)	mg/l	BOL	SDL	BDL	BDL	0.05	No relaxation
24	Lead (as Pb)	mg/l	BDL	BDL	DDL	BOL	0.01	No relaxation
25	Zinc (as Zn)	mg/l	BOL	BDL	BDL	BOL	5	15
26	Total Alkslinity	mg/l	178	197	142	174	200	600
27	Aluminium (as Al)	mg/l	BDL	BDL	301	BDL	0.03	5.0
28	Barium (as Ba)	me/l	BDL	BDL	80Ł	BDL	0.7	No relaxation
29	Ammonie (Total Ammonia	mg/l	BDt	BDL	BDL	BDL	0.5	No relaxation
30	Silver (as Ag)	mg/s	BDL	BDL	BOL	BDL	0.1	No relaxation
31	Nickel (as Ni)	mg/l	BDL	BDL	BDL	BDL	0.02	No relaxation
92	Chromium (as C: +*)	mg/l	BDL	BOL	BDL	BDL	0.05	No relaxation
33	Manganesa (as Mn)	mg/l	BDL	BDL	apt	BDL	0.1	0.3
34	E.Coll	/100 ml	Absent	Absent	Absent	Absent		NOT DETECTABLE IN 100 ML SAMPLE
35	Total Coli forms	MPN/100 ml	Absent	Absent	Absent	Absent		NOT DETECTABLE IN 100 ML SAMPLI
36	Conductivity	µ5/cm	862	830	578	842	NOT SPECIFIED	NOT SPECIFIED

*** END OF TEST REPORT ***

Page No. -2 of 2

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR
का सहाराष्ट्र (वर्षाटल प्रवेश) ICOM (ENT) MONT)
का महाराष्ट्र (वर्षाटल प्रवेश) ICOM (ENT) MONT)
का महाराष्ट्र (वर्षाटल प्रवेश) ICOM (ENT)
का सहाराष्ट्र (वर्षाटल प्रवेश)
का स्वान चीचांटलारी ICOM (MINING PROJECTS
हणाविश्वान / Hazaribag

AUTHORISED SIGNATORY



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE. 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -2D1003 (U.P.)

MOBILE: +91-9810317145, +91-8826028116

E-mail: global_enviro@rediffmall.com, globalenvirolab@gmail.com

MoEF&CC Recognized Environmental Laboratory

GROUND WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF MAY 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

_		20151275017		BARWADIH C	THE PERSON NAMED IN COLUMN 1			
GROUND WATER REPORT (02.05.2023)								
S. No	PARAMETER				- Acceptable Limit	Permissible limit		
		UNIT	WELL AT AMBAJIT- (GW-5)	WELL AT HORAM (GW-6)	WELL AT BARKAGAON (GW-7)	WELL AT DEWORIA KHURD- (GW-8)	IS: 10500:2012	
1	Colour	Hazen	<5.0	<5.0	<5.0	<5.0	5 Max	15 Max
2	Odour		Agreeable	Agreeable	Agreeable	Agreeable	Agreeabl	Agreeable
3	Taste	1004	Agreeable	Agreeable	Agreeable	Agreeable	Agreeabl e	Agreeable
4	Turbidity	NTU	4.6	2.8	2.9	3.4	1	5
3	pH		7.19	7.26	7.2	7.22	6.5-8.5	No relaxation
6	Residual Free Chiorine(as Cl2)	mg/l	ND	ND	ND	ND	0.2	1
7	Total Dissolved Solids	mg/l	416	382	477	385	500	2000
8	Total Hardness (as CaCO3)	mg/l	198	182	227	183	200	500
9	Calcium (as Ca)	mg/l	39.6	36.4	45.4	36.7	75	200
10	Magnesium	mg/i	24.1	22.1	27.6	22.3	30	100
11	Chloride (as CI)	mg/I	157.0	120.0	140.0	128.0	250	1000
12	Sulphate	mg/l	49.2	42.6	52.1	43.1	200	400
13	Iron (as Fe)	mg/l	0.21	0.32	0.3	0.26	0.3	No relaxation
14	Copper(as Cu)	rng/l	BDL	BDL	BOL	BDL	0.05	1.5
15	Boron	mg/l	BDL	BOL	BOL	BDL	0.5	1
16	Nitrate (as No2)	mg/l	6.5	4.8	5.6	7.7	45	No relaxation
17	Fluoride (as F)	mg/l	0.34	0.14	0.25	0.29	1	1.5
18	Phenolic Compound (as C6H5OH)	mg/l	BDL	BDL	BDL	BDL	0.001	0.002
19	Mercury(as Hg)	mg/l	BDL.	SDL	BOL	BDL	0.001	No relaxation
20	Cadmium (as Cd)	mg/l	BDL	BDL	BOL	BDL	0.0000	No relexation
21	Selenium (as Se)	mg/l	8DL	BDL	BDL	BOL		No relaxation
22	Arsenic (as As)	mg/l	BDL	BDL	BDL	BDL	0.01	PATER SERVICE
						DUL	U.U.L	0.05

Page 1 of 2

नवीन कुमार / NAVIN KUMAR
का सरावध्यः (पर्वाटन प्रवेश) JOGN (ENT. MGMT.)
व्यक्तिमार मिर्गिटी NTPC Limited
कामा अन्य परिवादम् (COAL MINIC PROJECTS
हजारीवान / Hazaribag





PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE. 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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E-mail: global_enviro@rediffmail.com, globalenvirolab@gmail.com

MoEF&CC Recognized Environmental Laboratory

-	1		GRO	UND WATER R	EPORT			
23	Cyanide (as CN)	mg/l	BDL	BDL	BOL	BDL	0.05	No relaxation
24	Lead (as Pb)	mg/l	BOL	BDL	BDL	BDL	0.01	No relaxation
25	Zinc (as Zn)	mg/l	BDL	-BDL	BOL	BDL	5	15
26	Total Alkalinity	mg/l	162	138	164	145	200	600
27	Aluminum (as Al)	mg/l	8DL	BDL	BDL	BOL	0.03	0.2
28	Barium (as Ba)	mg/i	BOL	8DL	BDL	BDL	0.7	No relaxation
29	Ammonia (Total Ammonia -N)	mg/i	306	BDL	BDL	BDL	0.5	No relaxation
30	Silver (as Ag)	mg/l	BDL	BDL	BOL	BDL	0.1	No relaxation
31	Nickel (as Ni)	mg/l	BOL	BDL	BDL	BDL	0.02	No relaxation
32	Chromium (as Cr+6)	mg/l	BOL	BDL	BDI.	BDL	0.05	No relaxation
33	Manganese (as Mn)	mg/l	BDL	BDL	BOL	BDL	0.1	0.3
34	E. Coll	/100 ml	Absent	Absent	Absent	Absent	anne.	NOT DETECTABLE IN 100 ML SAMPLI
35	Total Coli forms	MPN/ 100 ml	Absent	Absent	Absent	Absent	*****	NOT DETECTABLE IN 100 ML SAMPLI
36	Conductivity	µ5/cm	655	575	764	572	NOT SPECIFIED	NOT SPECIFIED

*** END OF TEST REPORT ***

Page No. -2 of 2

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR का बहारकाई (प्रवेदन प्रवेद)) IDGN (ENVT. MGMT.) अनेवर्गति स्वातिका NIPC Limited कोवात व्यक्त परिकारण (I COAL MINING PROJECTS हणाविद्या / Hazaribag AUTHORISED SIGNATORY (ARVIND KUMAR)



			Crfa.aa awaa	GPS Coo	rdinates	Mater stores	Descrip	tion of p	ond in	Values of	Annual Ground	
SI No	Name of village	Water Recharge Activity	Surface area (Sq M)	Latitude	Longitude	Water storage Capacity (Cum)	Length	Width	Avg. Depth	Volume of Pond in m3	Water Recharge in m3	Remarks
1	Dadikala	Tari Ahar talab	2982	23°52'52.1''	85°12'30.22''	7455	65	24	2.01	3135.6	3657.36384	
2	Chepakala	Chepa Ahar talab	30415	23°90'60.05"	85°21'38.11"	76037.5	160	55	3.5	30800	35925.12	
3	Pakri-Barwadih	Barka Ahra talab deepening and desilting	13200	23°86'35.23"	85°22'43.19"	33000	126	35	3	13230	15431.472	
4	Urub	Padeo bagi Arhar pond (Bada talab) deepening and check dam repair	20000	23°53'59.63"	85°11'16.92"	50000	184	34	3.2	20019.2	23350.39488	
5	Garikala	Japotva Ahar pond deepening	4940	23°52'30.31"	85°09'54.74"	12350	92	28	2.5	6440	7511.616	
6	Kusumbha	Purna Ahar talab repair and deepening	6862	23°94'81.61''	85°27'82.54''	17155	87	32	2.5	6960	8118.144	
7	Banka	Banka talab	2900	23°98'13.9"	85°29'13.9"	7250	64	24	2.4	3686.4	4299.81696	
8	Petto	Badi talab	3816	23°86'33.39"	85°06'92.95"	9540	56	35	2	3920	4572.288	
9	Kodwe	Kodwe Talab	1280	23°26'48.16"	85°47'10.74"	3200	36	18	2	1296	1511.6544	
10	Langathu	New Water Recharge Pond construction	400	23°52'15.52"	85°12'43.27"	1000	28	11	2.09	643.72	750.835008	
11	Langathu	Roof top water recharge system	1500	23°52'19.49"	85°12'49.30"	1800					1152	80% of the stored rainwater will percolate to ground water.(1200 mm Avg Annual rainfall
12	Hazaribagh	Zeel park desilting and repair (One side)	36000	24°00'98''	85°36'30''	108000	225	54	3	36450	42515.28	
				·							148795.99	



Photograph# Rain Water Harvesting System in Site Office (Langatu)









नवीनं कुमार I NAVIN KUMAR

क्ष बहाप्रकारक (पर्यावरण प्रवेचन) I DGM (ENVT. MGMT.) एनटीजीसी स्थापिटेड / NTPC Limited कोवला खनन परिकेजनाएँ I COAL MINING PROJECTS हजारीबाय / Hazaribag





नवीनं कुमार I NAVIN KUMAR

वन बहाप्रकारक (पर्यावरण प्रकार) I DGM (ENVT. MGMT.) एनटीजीसी जिसमिटेड / NTPC Limited कोवला खरून परियोजनाई / COAL MINING PROJECTS हजारीबाय / Hazaribag

Rain water harvesting pond











नवीन कुमार / NAVIN KUMAR का बत्यवक्क (पर्यावत्व प्रवंबन) / DGM (ENVT. MGMT.)

एनटीपीसी सिमिटेड/ NTPC Limited कोवल खनन परिकेदनाएं/ COAL MINING PROJECTS हजारीबान / Hazaribag





नवीन कुमार / NAVIN KUMAR क बहाप्रवेपक (पर्यादल प्रवेपन) / DGM (ENVT. MGMT.) एनटीपीसी (लिक्टिंश NTPC Limited कोवल खनन परियोजनारी/ COAL MINING PROJECTS हजारीबान / Hazaribag





नवीन कुमार / NAVIN KUMAR

छन बहाप्रवेपक (वर्षावरण प्रवेचन) i DGM (ENVT. MGMT.) एनटीजीसी स्थाप्रदेश NTPC Limited कोवल खनन परियोजनाएँ। COAL MINING PROJECTS हजारीबाय / Hazaribog

Jugra Pond before Deepened



Jugra Pond after Deepened



नवीन कुमार / NAVIN KUMAR का बहापकप्रक (वर्षवरण प्रकंपन) I DGM (ENVT. MGMT.) एनटीचीसी स्थितिकार NTPC Limited कोवल खनन परिकेडनाएं/ CDAL MINING PROJECTS हजारीबान / Hazaribag

Details and photographs of check dams

(A) PAKWA NALA (Eastern Nala)

Check Dam	Reservoir Capacity (in Lakh cum)	Ground water Recharge (in Lakh cum/Yr)
Check Dam No. (1)	0.56	11.98
Check Dam No. (2)	1.75	37.54
Check Dam No. (3)	0.48	9.99
Check Dam No. (4)	0.37	7.80
Check Dam No. (5)	1.84	38.66
Total	5.00	105.97
Grand Total (A) + (B)	16.18	340.52

(B) KHORHA NALA (Western Nala)

Check Dam	Reservoir Capacity (in Lokh cum)	Ground water Recharge (in Lakh cum/Yr)
Check Dam No. (1)	0.78	16.26
Check Dam No. (2)	2.08	43.62
Check Dam No. (3)	0.73	15.25
Check Dam No. (4)	2.77	58.15
Check Dam No. (5)	1.29	27.04
Check Dam No. (6)	1.76	36.99
Check Dam No. (7)	1.77	37.24
Total	11.18	234.55



नवीन कुमार / NAVIN KUMAR
का सरावक (पर्वाटन केंद्रों) IDCM (ENT. MOUT.)
वानीनीती स्विटेंड NIPC Limited
केंद्रा बड़न परिवेटनहीं COAL MINING PROJECTS
हमारीहान / Hazaribag



नवीन कुमार / NAVIN KUMAR का कार्यका (प्योत्स प्रवेत) I DOM (ENT). MGMT.) अपनीती तराक्षेत्र NTPC Limited कार्यका अन्य प्रवेत्यन्त (COAL MINING PROJECTS क्याचेवान / Mazaribag



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

WASTE WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OFSEPTEMBER 2023

Name and Address of Customer:

M/5 PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

		P	AKRI BA	ARWA	DIH CO	DAL M	INING	PROJ	ECT			
	5	TP INL	ET & OUT	LET ANA	ALYSIS D	ATA MO	NTH OF	SEPTEN	ABER 20	023		
SI. No	Parameter	Unit	Mine Infra at Lan (Capacity Inlet R	gatu 20 KLD)	build Langatu (20 k	Infra ing at Capacity: (LD) Result	R & R at Oher (Capaci MLD) Inle	nga ty: 1.5	(Capac MLD)	t Colony ings ity: 1.5 Outlet	Standard s (CPCB)	Protocol
			02.09.20	16.09.2 023	02.09.2	16.09.2 023	02.09.2	16.09.	02.09.	16.09. 2023		
1	pH		6.72	6.64	7.38	7.23	6.49	6.46	7.2	7.21	5.5-9.0	(5 3025 F
2	Total Suspended Solid (TSS)	mg/L	163	154	76	69	158	145	64	88	100 mg/l	15 3025 F
3	Chemical Daygen Demand	mg/L	244	257	82	52	242	239	60	53.6	250 mg/l	15 3025 F 58
4	Biological Oxygen Demand (BOD 3 day, at 27 ^G C)	mg/L	71	61	18	13	53	44	15	13.8	30 mg/l	15 3025 F
5	Of & Greate (O&G)	mg/L	11.5	12.5	3.2	3.3	11.8	12.8	3.9	3.8	10 mg/l	65-3025 P

***END OF TEST REPORT ***

Page No. 1 of 1

FOR GLOBAL ENVIRO LABORATORIES

HECKED BY

(INTEKHAB KHAN)(Technical Manager)

नवीन कुमार / NAVIN KUMAR क बहारावाड (प्रवेदना एकंवन) / DGM (ENYT. MGMT.) (नवीजीवी वित्तिकेड / NTPC Limited कोवल बनन चीचोजनार (COAL MINING PROJECTS हजारीबान / Hazaribag

AUTHORISED SHENATORY



AN ISO 9001:2015, ISO 14001:2015, OHSAS 18001 : 2007



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

WASTE WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OFSEPTEMBER 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

	ETP INLE	TUO & T	LET ANALYS	IS DATA M	ONTH OF S	EPTEMBER	2023	
SI. No.	Parameter	Unit	Inlet Result		Outlet	Result	Standards	Protocol
			02.09.2023	16.09.2023	02.09.2023	16.09.2023	(CPCB)	710000
1.	рН	-	7.14	7.26	7.06	7.3	5.5-9.0	IS 3025 P-11
2	Total Suspended Solid (TSS)	mg/L	350	336	78	63	100 mg/l	IS 3025 P-17
3	Chamical Oxygen Demand	mg/L	491	452	126	112	250 mg/l	IS 3025 P-58
4	Biological Oxygen Demand (BOD 3 day, at 27 °C)	mg/L	106	99	26	24	30 mg/l	IS 3025 P-44
5	Oli & Grease (O&G)	mg/L	12.2	11.7	2.5	1.3	10 mg/i	IS 3025 P-39
6	Total Dissolved Solid (TDS)	mg/L	1559	1566	456	452	Not Specified	15 3025 P-16
7	Manganese (Mn)	mg/L	N.D.	N.D.	N.D.	N.D.	2 mg/l	15 3025 P-59
8	Chloride (CI)	mg/L	652	618	127	118	Not Specified	IS 3025 P-32

***END OF TEST REPORT ***

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN) (Technical Manager)

नवीन कुमार / NAVIN KUMAR क बतायक (पर्वादल प्रवाद) DGM (ENVT. MGMT.) एनटोपीसी स्वितेश NTPC Limited

ल अन्न परिकेदनार्ग COAL MINING PROJECTS हजारीबान / Hazaribag Page No. 1 of 1



AN ISO 9001:2015, ISO 14001:2015, OHSAS 18001 : 2007



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M., MILE STONE, INDUSTRIAL AREA. MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

WASTE WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF AUGUST 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

	ETP IN	LET & OL	JTLET ANAL	YSIS DATA	MONTH OF	AUGUST 2	023	
SI. No.	Parameter	Unit			Outlet Result		Standards	
			03.08.2023	18.08.2023	03.08.2023	18.08.2023	(CPCB)	Protocol
1	pH	****	7.16	7.23	7.14	7.31	5.5-9.0	IS 3025 P-1
2	Total Suspended Solid (TSS)	mg/L	355	334	70	66	100 mg/l	15 3025 P-17
1	Chemical Oxygon Demand	mg/L	492	454	129	114	250 mg/l	IS 3025 P-58
4	Biological Oxygen Demand (BOD 3 day, at 27 °C)	mg/L	109	98	25	26	30 mg/l	IS 3025 P-44
5	Olf & Grease (O&G)	mg/L	12.6	11.3	2.2	14	10 mg/l	85 3025 P-39
6	Total Dissolved Solid (TOS)	mg/L	1555	1563	450	453	Not Specified	IS 3025 P-16
7.	Manganese (Mn)	mg/L	N.D.	N.D.	N.D.	ND,	2 mg/l	15 3025 P-59
8	Chloride (Cl)	mg/L	654	617	124	116	Not Specified	IS 3025 P-32

""END OF TEST REPORT ***

Page No. 1 of 1

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN) नवीन कुमार / NAVIN KUMAR वन स्थानकर (पर्वादन प्रकार) IDGM (EMYT. MGMT.) वन्द्रीचीनी व्यक्तिकर NTPC Limited कोमत द्वार परिवोदना (COAL MINING PROJECTS हजारीबान / Hazaribog

AUTHORISED SIENATORY (SPUKHALIFIALITY A)



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 [U.P.]

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MoEF&CC Recognized Environmental Laboratory

WASTE WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OFJULY 2023

Name and Address of Customer: M/S PAKRI BARWADIH COAL MINING NTPC LTD., LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

	ETP	NLET &	DUTLET AN	ALYSIS DAT	A MONTH	OFJULY 202	3	
Si. No.	Parameter	Unit	Inlet I	Result	Outlet	Result	Standards	D. Carrell
			02.07.2023	17.07.2023	02.07.2023	17.07.2023	(CPCB)	Protocol
1	pH	-	7.14	7.22	7.12	7.36	5.5-9.0	15 3025 P-11
2	Total Suspended Solid (TSS)	mg/L	351	339	72	65	100 mg/l	IS 3025 P-17
3	Chemical Oxygen Demand	mg/L	494	452	127	112	250 mg/l	IS 3025 P-58
	Biological Oxygen Demand (BOD 3 day, at 27 °C)	mg/L	112	96	29	24	30 mg/i	IS 3025 P-44
5	Oil & Grease (O&G)	mg/L	12.1	11.5	2.1	1.3	30 mg/l	IS 3025 P-39
6	Total Dissolved Solid (TDS)	mg/L	1553	1561	449	452	Not Specified	IS 3025 P-16
7	Manganese (Mri)	mg/L	N.D.	N.D.	N.D.	N.D.	2 mg/l	IS 3025 P-59
8	Chioride (CI)	mg/L	658	615	122	113	Not Specified	IS 3025 P-32

****END OF TEST REPORT ***

FOR GLOBAL ENVIRO LABORATORIES

CHECKER BY (INTERHALL KHAN)

नवीन कुमार / NAVIN KUMAR क बरावकार (प्रवंदरन प्रवंदर) IDGM (ENVT MGMT.) एनटीचीसी जिसकेटा NTPC Limited

ला खनन परिकाजनाएँ/ COAL MINING PROJ**ECTS** हजासिबान / Hazaribag Page No. 1 of 1

AUTHORISED SIGNATORY (ARVIND KUMAR)



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

MOBILE: +91-9810317145, +91-8826028116

E-mail; global_enviro@rediffmail.com, globalenvirolab@gmail.com

MoEF&CC Recognized Environmental Laboratory

WASTE WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF JUNE 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD., LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

-	ETP I	NLET & C	DUTLET ANA	LYSIS DATA	A MONTH	OF JUNE 202	13	
SL. No.	Parameter	Unit	1000	Result		Result	Standards	
			02.06,2023	15.06.2023	02.06.2023	16.05.2023	(CPCB)	Protocol
1	рН	4994	7.19	7.21	7.39	7.48	5.5-9.0	15 3025 P-11
2	Total Suspended Solid (TSS)	mg/L	355	334	76	75	100 mg/l	IS 3025 P.17
3	Chemical Oxygen Demand	mg/L	573	462	138	120	250 mg/l	IS 3025 P-58
	Biological Oxygen Demand (BOD 3 day, at 27 °C)	mg/L	125	98	29	27	30 mg/l	15 3025 P-44
5	Oil & Grease (O&G)	mg/L	13.5	12.4	2.5	2.2	10 mg/l	15 3025 P-39
6	Total Dissolved Solid (TDS)	mg/L	1695	1545	460	465	Not Specified	IS 3025 P-16
7	Manganese (Mn)	mg/L	N.D.	N.D.	N.D.	N.D.	2 mg/l	IS 3025 P-59
8	Chloride (CI)	mg/L	684	605	128	121	Not Specified	IS 3025 P-32

*** END OF TEST REPORT ***

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN) नवीने कुमार । NAVIN KUMAR

क्रम महाप्रकाक (पर्यावरण प्रकारन) I DGM (ENVT. MGMT.) एनटीजीसी विकित्ता NTPC Limited ल अन्य परिकारनार्थं/ COAL MINING PROJECTS हजारियान् / Hazaribag

Page No. 1 of 1

AUTHORISED SIGNATORY (SHIKHA BHATIYA)



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

MOBILE: +91-9810317145, +91-8826028116

E-mail: global_enviro@redlffmail.com, globalenvirolab@gmail.com

MoEF&CC Recognized Environmental Laboratory

WASTE WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF MAY 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

	ETP I	NLET &	DUTLET ANA	ALYSIS DATA	A MONTH	OF MAY 202	3	
SI. No.	Parameter	Unit	Inlet I	Result	Outlet	Result	Standards	
			02.05.2023	16.05.2023	02.05.2023	16.05.2023	(CPCB)	Protocol
1	pH		7.17	7.25	7.36	7.45	5.5-9.0	IS 3025 P-11
2	Total Suspended Solid (TSS)	mg/L	369	345	78	73	100 mg/l	IS 3025 P-17
3	Chemical Oxygen Demand	mg/L	568	498	136	118	250 mg/l	IS 3025 P-58
4	Biological Oxygen Demand (BOD 3 day, at 27 °C)	mg/L	129	106	28	26	30 mg/l	IS 3025 P-44
5	Oil & Grease (O&G)	mg/L	13.9	12.5	2,4	2.1	10 mg/l	IS 3025 P-39
6	Total Dissolved Solid (TDS)	mg/L	1725	1569	459	463	Not Specified	IS 3025 P-16
7	Manganese (Mn)	mg/L	N.D.	N.D.	N.D.	N.D.	2 mg/l	IS 3025 P-59
8	Chloride (CI)	mg/L	697	617	127	119	Not Specified	IS 3025 P-32

*** END OF TEST REPORT ***

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीनं कुमार I NAVIN KUMAR THE RELIGION (PRINTE STATE) | DOM (ENVT. MONT.)

एनटीजीसी जिन्न्छेड्ड NTPC Limited इस सम्म परिपोजनारी COAL MINING PROJECTS हजारीबान / Hazaribag

Page No. 1 of 1

AUTHORISED SIGNATORY (ARVIND KUMAR)



AN ISO 9001:2015, ISO 14001:2015, OHSAS 18001 : 2007



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

MOBILE: +91-9810317145, +91-8826028116

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MoEF&CC Recognized Environmental Laboratory

WASTE WATER SAMPLING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF APRIL 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD...

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

	ETP IN	LET & O	UTLET ANA	LYSIS DATA	MONTH O	F APRIL 20	23	
SI. No.	Parameter	Unit	Inlet I	AND DESCRIPTION OF THE PARTY OF		Result	Standards	P44000007
			01.04.2023	15.04.2023	01.04.2023	15.04.2023	(CPCB)	Protocol
1	pH	hades	7.06	7,69	7.28	7.33	5,5-9.0	IS 3025 P-11
2	Total Suspended Solid (TSS)	mg/L	334	294	72	66	100 mg/l	IS 3025 P-17
3	Chemical Oxygen Demand	mg/L	596	486	116	96	250 mg/1	IS 3025 P-58
4	Biological Oxygen Demand (BOD 3 day, at 27 °C)	mg/t	130	106	25	20	30 mg/l	IS 3025 P-44
5	Oll & Grease (O&G)	mg/L	12.8	9,3	3.4	2.6	10 mg/l	15 3025 P-39
6	Total Dissolved Solid (TDS)	mg/L	1696	1482	482	476	Not Specified	15 3025 P-16
7	Manganese (Mn)	mg/L	N.D.	N.D.	N.D.	N.D.	2 mg/l	(5 3025 P-59
8	Chiorida (CI)	mg/L	788	652	98	138	Not Specified	15 3025 P-32

*** END OF TEST REPORT ***

Page No. 1 of 1

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY

नवीन कुमार / NAVIN KUMAR वन महावश्यक (पर्वादना प्रवाद) IDGM (ENVI MGMT.) एनटीचीची स्टामेट्ड NIPC Limited बोक्स स्टान परिचादनाई (COAL MINING PROJECTS हजारीबान / Hazaribog

AUTHORISED SIGNATORY (ARVIND KUMAR) Photographs showing # toe wall with garland drain along the embankment area & 1.5 lakks tree planted on the slope of Dump "C" Dump "A" and the embankment area .







The Second Secon









Photographs showing # Mixed grass variety seeds and root shoots of Vertiver grass.



THE PROPERTY OF THE PROPERTY O

Plantation Photographs of mines



नवीन कुमार / NAVIN KUMAR बर्गानक (प्रवेदन प्रवेदन) / DOM (ENY) MORT) अरोजित सिकेट्र / NTPC Limited क्रोबान अन्य चीचेजन्मे / COA, MINING PROJECTS हमाविद्यान / Hazaribag



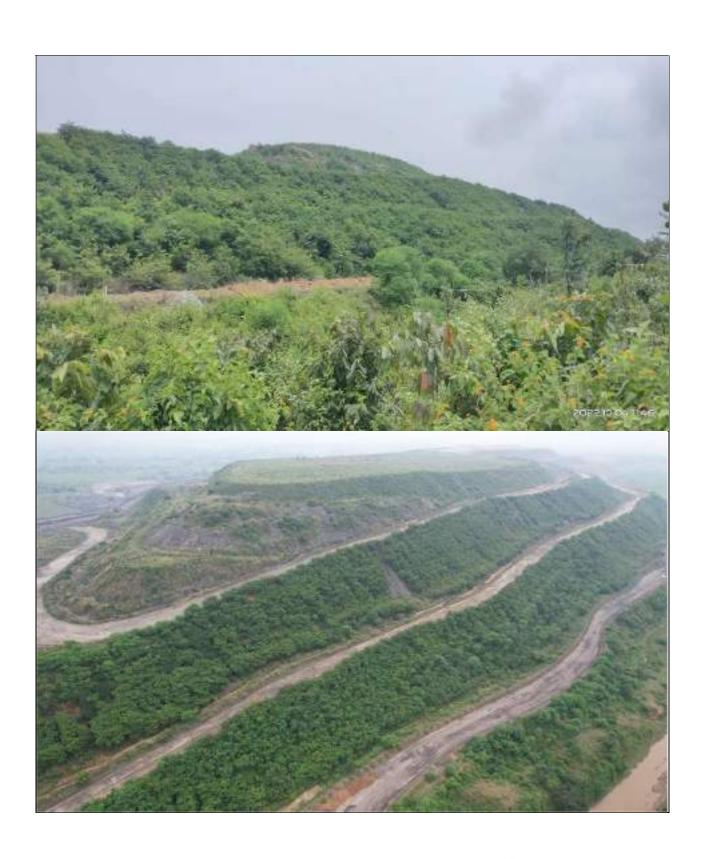
नवीन कुमार / NAVIN KUMAR वर्षान कुमार / NAVIN KUMAR वर्षानाक (व्यंदल प्रवंग) I DOM (ENV) MORT) (अरोगीली सामेर्डा NTPC Limited क्रोमाल खन्न चीर्चन्या/ COAL MINING PROJECTS हजारीबान / Hazaribag









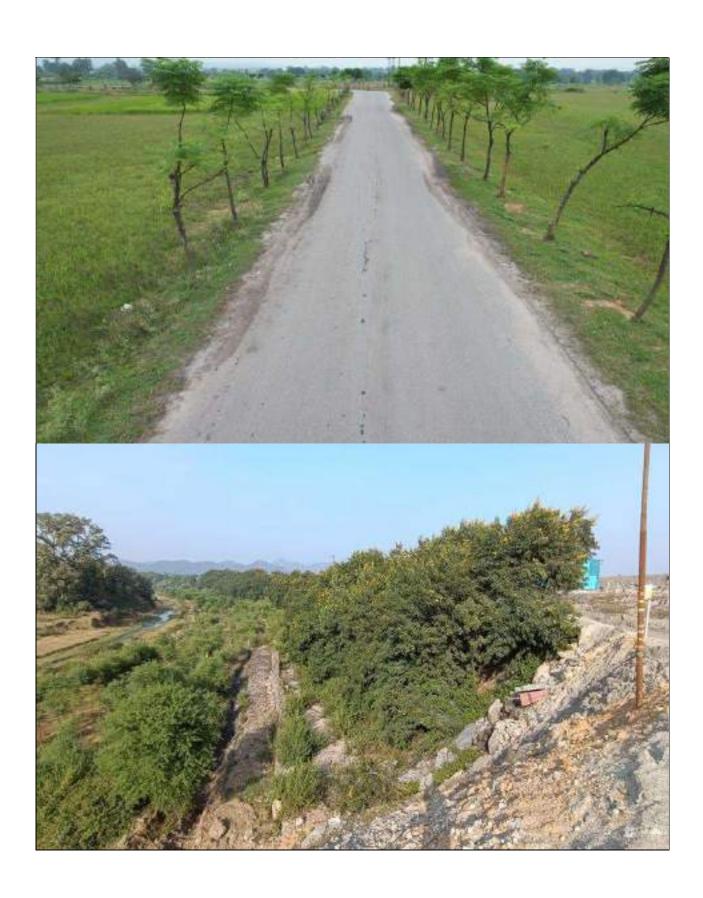


नवीन कुमार / NAVIN KUMAR का बरावधाः (विवास कांका) IOM IENT, IMBUT, वर्णतीनी सार्वका NPC Limited कांका अन्य वर्षचिक्यां (COAL MINKO PROJECTS हमाचेवान / Hazaribag





नवीन कुमार / NAVIN KUMAR
का शरावक्ष (पर्वाटन प्रवेश) JOSM (ENT: MONT)
का शरावक्ष (पर्वाटन प्रवेश)



मवीन कुमार / NAVIN KUMAR बर बरावाक (व्यंतन प्रवंत) I DOM (ENVT. MGMT.) (मदीवीत स्वतंद्र) NTPC Limited क्षेत्रक व्यंत्र प्रवंत्रत (COAL MINICO PROJECTS हणावैदान / Hazaribag







नवीन कुमार / NAVIN KUMAR का महास्वक (पर्वादन प्रवंदन) IDEM (ENVY MGNT) प्रनिवीती हरनेट्टा NTPC Limited कोवल व्यन परिकेटनहीं COAL MINING PROJECTS हजारीदान / Hazaribag

Plantation Done at East Quarry







नवीन कुमार / NAVIN KUMAR का बहारवाक (वर्धवरण प्रवंधन) IDCM (ENVT MGMT) प्रनदीवीसी जिसकेश NIPC Limited कोवल स्वन्न परिकारको (COAL MINING PROJECTS हणासिसा / Hazaribog



नवीन कुमार / NAVIN KUMAR का बहारकार (पर्वादन प्रवंधन) IDGM (ENVT MGMT) एनटीपीसी जिन्देश NIPC Limited कोवल खन्म परिकारकार (COAL MINING PROJECTS हणारिवान / Hazaribog



नवीन कुमार / NAVIN KUMAR का वस्त्राचक (वर्षास्त्र प्रवेदन) IDGM (ENVT. MGMT.) प्रवेदीमी स्थापिट्टा NTPC Limited कोवस्त्र वस्त्र परिवास्त्र (COAL MINING PROJECTS हजारीबार / Hazaribog

PAKRI BARWADIH COAL MINING PROJECT, NTPC LIMITED, HAZARIBAGH, JHARKHAND

A. PLANTATION / DISTRIBUTION DONE BY NTPC LTD

-			A. FLANIAI	ION / DISTRIBUTION DONE BY NIPC L	
CLN-	V	No of plants	Cum no. of	I aantian	Damanda.
SI No	Year	planted /	plants	Location	Remarks
	2008	Distributed	200	lasida Cita Offica Daulassau	NAise shady plants
2	2008	200 70	270	Inside Site Office, Barkagaon	Manga plants
3	2010	200	470	Rani talab, Budua mahadev mandir	Mango plants Fruit bearing plants
4	2010	125	595	Distributed to villagers	
				Distributed to villagers	Fruit bearing plants
5	2012	225	820	Distributed to villagers	Fruit bearing plants
6	2012	130	950	Plantation at Vinobha bhave university	Shady plants
7	2013	480	1430	Distributed to villagers	fruit bearing and shady plants
8	2013	40	1470	Infront of site office, barkagaon	Casurina, Bottle plam
9	2013	30	1500	on the bund barka ahar	pakribarwadih
10	2013	25	1525	Ramsagra talab , back of site office	Barkagaon
11	2014	300	1825	Distribution	
12	2015	118	1943	ITI	
13	2015	30	1973	Site office, barkagaon	Kanel , bouganvilia
14	2015	90	2063	Utkramith madya vidyalay, kusumbha	Kanel , bouganvilia
15	2015	220	2283	Chhath talab, hazaribagh	
16	2015	417	2700	Distributed to villagers	Shady plants
17	2016	1000	3700	Distributed to villagers	Shady and fruit bearing plants
18	2016	4500	8200	In and around langathu site office and approach road	Shady plants through MDO
19	2017	600	9900	In and around Sikri township and langathu site	On 05.06.17, 09.06.17, Misc shady
19	2017	690	8890	office	and fruit bearing plants
20	2017	5000	13890	In and around Hazaribagh, Neem , Karanj, Jamun , Kathal,	Distributed through SDM, Hazaribagh in and around Hazaribagh on 17.06.17
21	2017	800	14690	In Village Langathu at the vacant place, Gulmohar, Neem, Arjun, Karanj, Imli, Jamun, Kathal, Amrud	Involving the villagers of Langathu on 20.06.17
22	2017	500	15190	In Village Langathu at the vacant place, Gulmohar, Neem, Arjun, Karanj, Imli, Jamun, Kathal, Amrud	Involving the employees on 21.06.17
23	2017	580	15770	In Village Langathu at the vacant place, Gulmohar, Neem, Arjun, Karanj, Imli, Jamun, Kathal, Amrud	Involving the employees on 22.06.17
24	2017	150	15920	Plantation at SSB Camp, Nagari , Neem and Karanj	Involving the SSB security Personnnel
25	2017	1550	17470	For plantation in and around Hazaribagh, Neem , Karanj, Jamun , Kathal,	Distributed through DFO, Hazaribagh West Forest Division in and around Hazaribagh on 13.07.17
26	2017	2500	19970	In Village Langathu at the vacant place, Gulmohar, Neem, Arjun, Karanj, Imli, Jamun, Kathal, Amrud	On 15.07.17 during Van Mahotsav involving villagers and employees
27	2017	500	20470	Plantation along the dividers, sides of the haul road, Kanel	At the mining premise
28	2017	935	21405	Plantation near the top soil dump	At the mining premise on topsoil dump along with the grass seeding
29	2017	1000 Kg		Mixed Grass seeding on the top soil dump	At the Mine
30	2017	260	21665	In Village Arahara near the dump, garland drain and fencing, Mine approach. Gulmohar, Neem, Arjun, Karanj,	On 17.07.17 during Van Mahotsav involving villagers and employees
31	2017	2450	24115	In Village Arahara at the vacant place, Gulmohar, Neem, Arjun, Karanj, Jamun, Kathal.	Mix Plantation

नवीन कुमार / NAVIN KUMAR का बराउरका (पर्वादल प्रकार) IDCM (ENT). MGMT.) (न्यतीवी स्थिति NIPC Limited कोवल खरन चीचकेन्वरी (DAL MINING PROJECTS हजाविवाय / Hazaribog

SI No	Year	No of plants planted / Distributed	Cum no. of plants	Location	Remarks
		Distributed		In the village Devaria Khurd, on the edge of	
32	2017	1150	25265	Khora Nala, Neem, Arjun, Karanj, Jamun, Gulmohar	Block Plantation near Khora Nalla
33	2017	450	25715	In Village Arahara near the dump, garland drain and fencing, Mine approach. Gulmohar, Neem, Arjun, Karanj,	Mix Plantation
34	2017	1300	27015	On the Dump Slope, Neem, Arjun, Karanj, Jamun, Gulmohar	Mix Plantation
35	2017	845	27860	In the village Devaria Khurd, on the edge of Khora Nala, Neem, Arjun, Karanj, Jamun, Gulmohar	Mix Plantation
36	2017	935	28795	Dispatch Road on the edge of Khora Nala, Neem, Arjun, Karanj, Jamun, Gulmohar	Mix Plantation
37	2018	2000	30795	Hazaribag, Jharkhand	Misc shady plants
38	2018	200	30995	GDM Girls High School	Misc shady plants
39	2018	250	31245	Middle School, Sonbarsa	Flower & Shady plants
40	2018	7500	38745	Safety Zone Plantation - Deworia Village, Urub Village	Misc shady plants
41	2018	3750	42495	Along the Pakwa Nala - East Quarry	Mix Plantation
42	2018	8750	51245	Near Sikri township, East Quarry dump area, langathu office.	Misc shady plants
43	2019	25500	76745	OB Dump"C" Slope	Misc shady plants
44	2019	520	77265	Along the dispatch Raod (Langatu to Substation)	Misc shady plants
45	2019	2000	79265	Vacant land, Sonbarsa Village, Near Nursery	Misc shady plants
46	2019	8500	87765	Safety Zone Plantation - Deworia Village, Urub Village	Misc shady plants
47	2019	6200	93965	Dump"D" Slope East Quarry	Misc shady plants
48	2019	3200	97165	Plantation Program in Township area, Sikri	Misc shady plants
49 50	2019 2019	1000 2200	98165 100365	R&R Colony Along the Pakwa Nala - East Quarry	Misc shady plants Misc shady plants
51	2019	300	100365	Distributed to villagers and School	Misc shady plants
53	2019	500	101165	Gandhi Maidan, Matwari, Hazaribagh	Misc shady plants
54	2019	1080	102245	Banadag Railway Siding	Misc shady plants
55	2019	14766	117011	Along the Nallah Side (Embankment)	Misc shady plants
57	2020	24340	141351	OB Dump "C" Slope	Misc shady plants
58	2020	2770	141331	OB Dump "C" Surface	Misc shady plants
59	2020	400	144521	Banadag Railway Siding	Misc shady plants
60	2020	160	144681	Along the dispatch Raod (Sonbarsa village to Langatu)	Misc shady plants
61	2021	9065	153746	Along the Lathorwa Nala	Misc shady plants
62	2021	54763	208509	OB Dump "C" Slope	Misc shady plants
63	2021	3437	211946	OB Dump "C" Surface	Misc shady plants
64	2021	1630	213576	Along the Pakwa Nala	Misc shady plants
65	2021	2204	215780	In and around Sikri township	Misc shady plants
66 67	2021	3018	218798 218940	Along the Nallah Side (Embankment) Along the dispatch Raod (Sonbarsa village to	Misc shady plants Misc shady plants
				Lathorya Nala	
68 69	2021	5735 575	224675 225250	Lathorwa Nala Distributed to villagers	Misc shady plants Misc shady plants
70	2021	13175	238425	Dump"A" Slope	Misc shady plants
71	2022	100	238525	Vacant Land, Arahara Village, Near CHP	Fruity & shady plants
72	2022	1620	240145	OB Dump "C" Slope & Surface	Misc shady plants
73	2022	3720	243865	Along the northern sides of main approach road, Conveyor Line	Misc shady plants
74	2022	3735	247600	East Quarry	Misc shady plants
75	2022	320	247920	Stockpile Area	Misc shady plants

SI No	Year	No of plants planted / Distributed	Cum no. of plants	Location	Remarks
76	2023	1545	249465	Along the Northern side of the	Peepal,Bargad, Gular,Neem,Kadam
	2025	1545	245405	main Approach Road	Arjun
77	2023	32650	282115	Dump A	Chakundi, Bamboo
78	2023	1506	283621	Safety Zone Plantation	Peltophorum, Sarvan, Babul
79	2023	10869	294490	90 M Dump C	Bamboo, Arjun
80	2023	1496	295986	Embakment Area	Kadam, Gular, Imali, Amaltas, Semal
81	2023	8000	303986	Nala Side,	Seed Ball
82	2023		308196		Babul, Peltophorum, Sarvan , Maha
02	2023	4210	308196	Nala Side,	Neem
83	2023	565	308761	Langatu Office Road	Kadam, Sarvan, Peltophorum, Mahaneem, Arjun, Bottel Brash, Foxtel.
84	2023	650	309411	Batching Plant	Malasian Sal, Chakundi
85	2023	360	309771	Embakment Area (Miyawki Plantation)	Sal, Maha Neem, Babul, Kadam,Amla, Sagwan, Jamun, Sarifa, Kaner, Hibiscus, Gamhar, Baheda, Semal, Kari Patta, Guava, Bel Patra, Sahtoot, Peepal, Amaltas, Mahua,Kachnar,Kathal, Arjun
86	2023	3000	312771	R&R Colony	Mango, Bel, Gauava, Kathal etc.
87	2023	3772	316543	East Quarry	Bamboo, Kadam, Chakaundi, Mahogany, etc.



NTPC.LIMITED Detail of ESCNOW depects for the PY 2022-23:

				FY 2022-23			
Unithere	8ls as on 01.64.2022	Deposit	Reimbursement	Withdrawai (If any)	Interest	201	8% as on 31.03.2023
NTPC Limited Pales Barwadth CMP	48,17,23,360.72	7,60,00,000.00	-		1,58,75,231.05	15,89,554.00	52,20,09,027,77
NTPC Limited Dulanga CMP	17,21,06,946,76	3,67,00,000,00	(+)		54,40,074,08	6,44,012.00	21,46,03,008.84
NTPC United Talripali CNP	19,29,11,869.88	4,11,08,000:00	4	06	75.51,015.24	7,55,108.00	24.08,15,777.12
MTPC Limited Chatti Baniatu CMP	2,74,90,392.00	2,88,00,000:00	4		10,55,043,47	1,05,506.00	5,72,38,929.47
Total	82,42,32,569,36	18,25,08,000,00			3,09,21,363.84	10,94,190,00	1,03,46,67,743.20

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नवीन कुमार / NAVIN KUMAR क महावारक (पर्वटल इवंडा) IDGM (ENT) MGMT.) उन्तरीनिता स्थापका NTFC Limited केवल अन्य चीचोदनहीं COAL MINING PROJECTS इस्मीवान / Hazaribag

	d	PBCMP, NTPC Limited, 31.03.2023	1.2023
SLNO	EXPS HEAD	APPROVED BUDGET AMOUNT(Cr.Rs.) AMOUNT DISBURSED(Cr.Rs.)	AMOUNT DISBURSED(Cr.Rs)
et.	Land Acquisition	1,806.58	58'696
74	R&R	1,563.48	452,72
		3,370.05	1,422.57

The Marie Marie Kumar in section of the section of

	Major Companies		Suzulo Motor Guirat,	Treiven, J&V Group, JBM	Group					Statute motor cularat,	MBCCCOOK ACCOUNTS	ordup, recitocian	aveer learner	reaction gramma manager			brd.	SAMU				
2023	Ave Gross Salary Per Menth	16000	16000	14000	14000	14000	18000	1,8000	16000	16000	18000	18000	16000	19000	19000	18000	N.A.	VΝ	NA	N.A	NA	
8/01/	No of student Placed	30	uń.	54	82	22	10	3.1	100	2	- 51	14	23	ot.	00	31 1460	NA AM	अस्तिव विमा	MA	NA	N.	357
TI Skill Development training Repor Till 18/01/2023	Nes. of Students Completed	30	32	24	28	CV.	25	16	100	F	16	14	25	1	18	Ľ,	Na	NA	Ϋ́	NA	ž	363
ning Rep	Manths	NA	NA	MA	NA	NA	NA	NA	NA	NA	NA	NA	N.A.	NA	NA	AN.	NA	MA	NA	NA	KA	
ıt trair	Two years	YES	×ES	Ň	* Z	AN	Ď	524	2	TŽ.	100	534	NA	ij	Ø	NA	YES	YES	NA	YES	29	
opmer	One Year	V.V	ΝÀ	23.	33.	7.65	Α×	N.A.	,ES	534	NA	NA	533	NA.	¥	7.65	NA	NA	\$E\$	NA	2	
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AITI Ski	ated bus	July-17	July-17	July-16	July-17	July-18	July-19	July-19	July-19	July-20	July-21	July-21	July-21	July-22	July-22	July-22	Under	Under	Under	Under	Under	
NTPCMAI	Date of Start	Aug-15	Aug-15	Aug-15	Aug-15	Aug-17	Aug-17	Aug-17	Aug-18	Aug-19	Aug-19	Aug-19	Aug-20	Aug-20	Aug-20	Aug-21	Aug-21	Aug-21	Aug-22	Aug-12	Aug-12	
THE REAL	No of Students Taken Admission	42	43	42	FF.	54	z	Ħ	31	32	20	25	78	139	R	40	20	20	40	20	×	576
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	Trade	Sewing & Talloring	Sewing & Talloring	Basic Computer & Internet	Industrial Training	Sewing & Talloring	Welder	Electrician	Basic Computer & Internet	Sewing & Tationing	Suctrical Scupe Wring	TIG & MIC Welding	Motor winding & fan winding	90	
	End Date	Feb-16	Jui-16	1 month	5ep-22	Oct-22	Under	Under	Under	Under	Under	Under	Under	Under	
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No of Students	Taken	118	20	13	V)	09	10	10	10	20	: 15	77	N	70	180
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	ಪ	æt	84	m	W.	un	10	K.	00	di	2	17	74	22	

一名計一 む HTR / NAVIN KUMAR an uppost pridon 1854; DOM SAYT MORT; profital SPRM/NTPC Limited stars are distant/Co.M. MNAO PROJECTS profiter / Hazaribag 887 ७८ - 12 न 8 २६-६-१६ २६-६-१६ २६-६-१६ २६-६-१६ २६-६-१६ १२-६-१८ प्रमुखण नियंत्रण पर्षद,

अभेग्रीय कार्यालय-सह-प्रयोगशाला, पी०टी०सी० चौक, मटवारी सेंड, हजारीबाग।
दिनाक 22 8115

प्रेषक.

दिनेश प्रसाद सिंह, क्षेत्रीय पदाधिकारी।

सेवा में,

महाप्रबंधक,

मेसर्स पकरी-बरवाडीह माइस, एन०टी०पी०सी०लि०, हजारीबाम।

विषयः मेसर्स पकरी बरवाडीह कोल माइनिंग प्रोजेक्ट, एन०टी०पी०सी० लि० का Environment . Quality Monitoring Stations की स्थापना के संबंध में।

महाशय,

उपर्युक्त विषयक आपके पत्रांक 229 दिनांक 30.0 62016 एवं पर्षद पत्रांक बी — 3420, राँची, दिनांक 02.08.2016 के आलोक में मेसर्स पकरी बरवाडीह कोल माईनिंग प्रोजेक्ट, बड़कागाँव, हजारीबाग के पर्यावरणीय स्वीकृति के तहत् Buffer Zone, Core Zone, में Environment Quality Monitoring हेतु मैप में दर्शाये गये बिन्दुओं का निरीक्षण किया गया। इससे ऐसा प्रतीत हुआ कि पर्यावणीय स्वीकृति के अनुरूप ही ये सभी स्टेशन स्थापित किये जा रहे हैं।

अतः आपके उक्त पत्र में दर्शाये गये AAQ, Fugitiv Dust, Ground Water Quality, Ground Water Level, Surface Water Quality, Noise Level, Soil Quality एवं Metrological Monitoring Stations को स्थापित करने हेंतु अनुमोदन किया जा रहा है।

पिश्वासमाजन
प्रिश्वासमाजन

नवीन कुमार / NAVIN KUMAR का महामध्यक (पर्वादरन प्रवादन) I DGM (ENVT. MGMT.) एनटीजीसा जिनकेटा NTPC Limited कोवल खनन परिवोजनाएं COAL MINING PROJECTS हजारीबान / Hazaribag

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887 ८५-12-78 24-8-16 25-8-16 25-8-16 25-8-16 प्राफ 17-11 क्षेत्रीय कार्यालय-सह-प्रयोगशाला, पीठटीठसीठ चौक, मटवारी रोड, हजारीबाग । विनाक 22/8/16

प्रेषक,

दिनेश प्रसाद सिंह, क्षेत्रीय पदाधिकारी।

सेवा में,

महाप्रबंधक,

मेसर्स पकरी-बरवाडीह माइंस, एन०टी०पी०सी०लि०, हजारीबाग।

विषयः मेसर्स पकरी बरवाडीह कोल माइनिंग प्रोजेक्ट, एन०टी०पी०सी० लि० का Environment -Quality Monitoring Stations की स्थापना के संबंध में।

महाशय,

उपर्युक्त विषयक आपके पत्रांक 229 दिनांक 30.0 € 2016 एवं पर्षद पत्रांक बी — 3420, सँची, दिनांक 02.08.2016 के आलोक में मेसर्स पकरी बरवाडीह कोल माईनिंग प्रोजेक्ट, बड़कागाँव, हजारीबाग के पर्यावरणीय स्वीकृति के तहत् Buffer Zone, Core Zone, में Environment Quality Monitoring हेतु मैप में दर्शीय गये बिन्दुओं का निरीक्षण किया गया। इससे ऐसा प्रतीत हुआ कि पर्यावणीय स्वीकृति के अनुरूप ही ये सभी स्टेशन स्थापित किये जा रहे हैं।

अतः आपके उत्तन पत्र में दर्शाये गये AAQ, Fugitiv Dust, Ground Water Quality, Ground Water Level, Surface Water Quality, Noise Level, Soil Quality एवं Metrological Monitoring Stations को स्थापित करने हेतु अनुमोदन किया जा रहा है।

पिड़ा कार्य पिड़ा प्रसाद सिंह) (दिनेश प्रसाद सिंह) सहाठवैठपदाठ सेजीय पदाधिकारी पिड़ा प्रसाद सिंह) सेजीय पदाधिकारी पिड़ा प्रसाद सिंह। सेजीय पदाधिकारी पिड़ा प्रसाद सिंह) सेजीय पदाधिकारी पिड़ा प्रसाद सिंह। सेजीय पदाधिकारी पिड़ा प्रसाद सिंह) सेजीय पदाधिकारी पिड़ा प्रसाद सिंह। सेजीय पदाधिकारी प्रसाद सिंह। सेजीय पदाधिकारी सिंह। सेजीय पदाधिकारी सिंह। सेजीय पदाधिकारी सिंह। सिंह। सेजीय पदाधिकारी सिंह। सेजीय पदाधिकारी सिंह। सिंह। सेजीय पदाधिकारी सिंह। सेजीय पदाधिकारी सिंह। सिंही सिंह। सिंही सिंही

ज्वीन कुमार / NAVIN KUMAR क ब्हायका (वर्षादल प्रकार) IDGM (ENVT. MGMT.) एनटीचींटी (दांबटेडा NIPC Limited कोवास खरूर परिवादनारी COAL MINING PROJECTS हजारिवार / Hazaribag

JHARKHAND STATE POLLUTION CONTROL BOARD

OH COLAR

T.A. DIVISION BUILDING (GROUND FLOOR), H.E.C., DHURWA, RANCHI-834004 Phone. - 2400852, 2400851 Fax: - 0551-2400850, Website: -www.lspcb.org

Ref. Letter No 19 - 34 20

Ranchi, Dated: _ * 1 / 5 // 6

From

R P Kumar Section Head, Hazaribagh

For

Regional Officer JSPC Board, Hazaribagh

Sub: Regarding M/s Pakri Barwadih Coal Mining, NTPC setting of Lavironnem Cuality Monitoring Stations

Sir.

With reference to yourletter Ref. No. 1572 dated 22.07.2016, you are requested to visit the site and select the suitable point for installation of Ambieni Quality Monitoring Stations to be setup by NTPC and report the same to this office.

Yours Faithfully.

(R.P.Kumar)

Section Head, Hazaribagh

नवीन कुमार I NAVIN KUMAR क बहारक्षक (पर्वायक प्रकार) DGM (ENVT. MGMT.) एनटीजीसी स्थितिहरू NTPC Limited

ह खनन परिकेजनाएँ/ COAL MINING PROJ**ECTS** हजासेबान / Hazaribag झारखण्ड राज्य प्रदूषण नियंत्रण पर्षद,

अन्य क्षेत्रीय कार्यालय-सह-चयोगशाला, पीवटीवसीव चीक, मटवारी रोड, हजारीबाग विनक 22/7/16

जेशक.

डी०पीठ सितः क्षेत्रीय पदाधिकारी।

Aug. 9.

शदस्य सचिव, आरस्यण्ड राज्य प्रदूषण नियत्रण पर्णद, राँगी।

विषय मेरार्स पक्षरी बरवाडीह कोल माइसिंग प्रोजेक्ट, NTPC Ltd का Entropment Quality Monitoring Stations, का स्थापना के संबंध में।

F181214.

संवा ने सुचित करना है कि NTPC Ltd. के मेसरी पकरी बरेशासीट कोल गाउने प्रोवीवट, बहकागाँच, हजारीबाग का पर्यावरणीय स्वीकृति के तहत् Buffer Zone एवं Core Zone में Enironment Quality Monitoring Stations fixed करने हेतु पाव प्राप्त हुआ है। पाव का गाउ नेप में स्थापित होने वाले Location को इशार्या गया है।

अत अनुरोध है कि मेप में दशाय गये Location को अनुमोदित करने का नक कर

अनुक्र इंकाई से पाप्त सेप एवं लोकेशन की प्रति।

(alloans the

नवीन कुमार / NAVIN KUMAR का बहामध्ये (पर्वदरत प्रवंबन) IDGM (ENVT. MGMT.) उन्होंजीसी स्टाइटेड/ NTPC Limited केवल खन्न परिवाजनारी COAL MINING PROJECTS हजारीबान / Hazaribag





एन टी पी सी लिमिटेड

(भारत सरकार का उद्यम)

NTPC Limited

पीठबीठ, सीठबीठ, एवं केंडी कोल माईनिंग प्रोजेक्ट PB, CB & KD Coal Mining Projects

Ref:No.7010/PBCM/Mining/16/F-38/229

Date: 30.06.2016.

To.

The Regional Officer,
Jharkhand State Pollution Control Board,
JSPCB Regional office,
PTC Chowk, Hazaribagh Jharkhand.825301.

Sub: - Establishment of Location of the Environment Quality Monitoring Stations for Pakri Barwadih Coal Mining Project -reg

Ref :- Env Clearance Letter No.J-11015/692/2007-IA.II(M) Dated 19th May 2009.

Dear Sir.

NTPC Limited is operating Pakri Barwadih Coal Mining Project near Barkagaon Block. As per the General Condition No III of the Environment Clearance granted by MoEF & CC vide Letter No.J-11015/692/2007-IA.II(M) Dated 19th May 2009, "Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RPM, SO₂, NOx and heavy metals such as Hg, Pb, Cr, As, etc. 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."

It is requested to kindly advise the concerned to identify the locations for establishing all the Environment Quality Monitoring stations for Pakri Barwadih Coal Mining Project.

Thanking you,

Yours sincerely,

General Manager,

DD CD Min

PB,CB Min,

NTPC Ltd.,

Hazaribagh.(Jharkhand)

पकरी बरवा है, स्थ्री बरियातु एवं केरेडारी कोल माईनिंग प्रोजेक्ट, पगमिल रोड, हजारीबाग-825301 Pakri Barw Bih, Chatti-Bariatu & Keredari Coal Mining Projects, Pugmil Road, Hazaribag-825301 Ph.: 06546-270622, 270855 Fax: 06546-270744, 270852

Registered Office: NTPC Bhawan, Scope Complex, 7 Institutional Area, Loghi Road, New Delhi - 110 003

नवीनं कुमार / NAVIN KUMAR क महाप्रकेष्ठ (वर्षवत्त्र प्रकंपन) I DGM (ENVT. MGMT.) एनटीची विनिवेड/ NTPC Limited

ह खनन परिकेजनाएं/ COAL MINING PROJ**ECTS** हजासेबान / Hazaribag

PAKRIBARWADIH COAL MINING PROJECT, BARKAGAOAN, HAZARIBAGH DISTRICT, JHARKHAND.

Refer general Condition No III of Environmental Clearance Granted by MoEF vide EC clearance Ltr. No. J-1105/692/2007-IA.II (M) dated 19th May 2009.

Quoted Condition

"Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RPM, SO2, NOx and heavy metals such as Hg, Pb, Cr, As, etc. 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".

Proposed plan:

As per condition the project has identified following monitoring stations for Ambient Air quality, Fugitive emission and dust fall. The detailed monitoring station is as follows.

Ambient Air Quality (Four parameters Monitoring) - PM 10, PM 2.5, SO-&NO.

SL.No	Station Name	Zone	Reference No
1	VILLAGE URUB Western side from the central of the coal Block	Core Zone	AAQ - C ; 1
2	VILLAGE NAGARI North side from the center of the coal block	Core Zone	AAQ - C : 2
3	VILLAGE LANGATHU Southern side from the center of the coal block	Core Zone	AAQ - C : 3
4	VILLAGE PAKRIBARWADIH Eastern Side from the center of coal block.	Core Zone	AAQ - C : 4
5	VILLAGE KANDABER Western side of the coal block	Buffer Zone	AAQ - B : 5
6	VILLAGE GARIKALAN Southern side of the coal block	Buffer Zone	AAQ – B : 6
7	VILLAGE DHENGA South Eastern side of the coal block	Buffer Zone	AAQ – B : 7
8	VILLAGE KUSUMBHA North Eastern side of the coal block	Buffer Zone	AAQ - B : 8

Note: The Monitoring frequency will be followed on weekly twice in each station except monsoon period.

नवीन कुमार / NAVIN KUMAR क बहापकाक (पर्वादल प्रकार) IDGM (ENVT. MGMT.) एनटीची सामिटेड/ NIPC Limited कोवल खरूर परिकास (COAL MINING PROJECTS हजारीबार / Hazaribag

Page 1 of 6

Ambient Air Quality (Heavy Metals)

SL.No	Station Name	Zone	Reference No
1	VILLAGE URUB Western side from the central of the coal Block	Core Zone	AAQ - C : 1
2	VILLAGE NAGARI North side from the center of the coal block	Core Zone	AAQ - C : 2
3	VILLAGE LANGATHU Southern side from the center of the coal block	Core Zone	AAQ - C : 3
4	VILLAGE PAKRIBARWADIH Eastern Side from the center of coal block.	Core Zone	AAQ-C:4
- 5	VILLAGE KANDABER Western side of the coal block	Buffer Zone	AAQ - B : 5
6	VILLAGE GARIKALAN Southern side of the coal block	Buffer Zone	AAQ -B:6
7	VILLAGE DHENGA South Eastern side of the coal block	Buffer Zone	AAQ-B:7
8	VILLAGE KUSUMBHA North Eastern side of the coal block	Buffer Zone	AAQ - B : 8

Fugitive Emission Monitoring:

SL.No	Station Name	Zone	Reference No
1	Excavation area	Core Zone	FD-C:1
2	Haul Road	Core Zone	FD - C:2
3	Waste Dump	Core Zone	FD-C:3
4	Top Soil Dump.	Core Zone	FD-C:4
5	Work Shop	Core Zone	FD-C:5
6	Drilling location	Core Zone	FD - C - 6

Note:

- The Monitoring frequency will be followed on Monthly twice in each station except monsoon period.
- The update plate for monitoring station is enclosed as Appendix 1
- The sampling procedure and parameters analysis will be followed as per National Ambient Air Quality standards and procedure.

नवीन कुमार / NAVIN KUMAR
क बलावकाक (पर्वावल प्रवेवन) I DGM (ENVT. MGMT.)
एनटीजी लिक्टिंड / NTPC Limited
केवल खनन परिकेजनार / COAL MINING PROJECTS
हजारीबार / Hazaribag

Page 2 of 6

Ground Water Quality Monitoring:

SL.No	Station Name	Source	Reference No
1	Well at Sinduari	Ground Water	GW - 1
2	Well at Kandaber	-Do-	GW - 2
3	Well at Sirma	-Do	GW - 3
4	Well at Pakri-Barwadih	-Do	GW - 4
5	Well at Ambajit	-Do	GW - 5
6	Well at Horam	-Do	GW - 6
7	Well at Barkagaon	-Do	GW - 7
8	Well at DeworiaKhurd	-Do	GW - 8

Ground Water Level Monitoring:

SL.No	Station Name	Source	Reference No
1	Well at Sinduari	Ground Water	GWL - 1
2	Well at Kandaber	-Do-	GWL-2
3	Well at Sirma	-Do	GWL-3
4	Well at Pakri-Barwadih	-Do	GWL-4
5	Well at Ambajit	-Do	GWL - 5
6	Well at Horam	-Do	GWL-6
7	Well at Barkagaon	-Do	GWL - 7
8	Well at DeworiaKhurd	-Do	GWL - 8

Note:

- The Monitoring frequency will be followed on quarterly basis, which is winter, summer, monsoon & Post Monsoon.
- The update plate for monitoring station is enclosed as Appendix 1
- The sampling procedure and parameters analysis will be followed as per IS 15001: 2012.

नवीन कुमार / NAVIN KUMAR का बहापबंधक (पर्यंदरा प्रवंदर) IDGM (ENYT. MGMT.) एनटीजीसी स्तावटेड/ NTPC Limited केवल खरन परियोजनार/ COAL MINING PROJECTS हजारिकार / Hazaribag

SURFACE WATER QUALITY MONITORING:

SL.No	Station Name	Source	Reference No
1	Lathorwa Nala, near Sirma	U/S of proposed Core Zone	SW-1
2	Pakwa Nala, while entering the lease area	U/S of proposed Core Zone	SW-2
3	Pakwa Nala, while leaving the lease area	D/S of proposed Core Zone	SW-3
4	Lathorwa Nala, before confluence with GhagraNadi	D/S of proposed Core Zone	SW-4
5	Ghagra Nadi near Panduriya, d/s of confluence with HorhoriNadi	D/S of proposed Core Zone	SW-5
6	HaharoNadi, near Kanrtari	Core Zone	SW-6
7	Pond near ChepaKhurd	Core Zone	SW-7

Note:

- The Monitoring frequency will be followed on quarterly basis, which is winter, summer, monsoon & Post Monsoon.
- ➤ The update plate for monitoring station is enclosed as Appendix 1
- The sampling procedure and parameters analysis will be followed as per IS 15001: 2012.

NOISE QUALITY MONITORING:

SL.No	Station Name	Zone	Reference No
1	EXCAVATION AREA	Core Zone	ANL - 1
2	HAUL ROAD	Core Zone	ANL-2
3	WASTE DUMP	Core Zone	ANL - 3
4	TOP SOIL DUMP.	Core Zone	ANL - 4
5	WORK SHOP	Core Zone	ANL - 5
6	DRILLING LOCATION	Core Zone	ANL - 6
7	OPERATOR CABIN	Core Zone	ANL - 7
8	VILLAGE KANDABER	Buffer Zone	BNL - 8
9	VILLAGE GARIKALAN	Buffer Zone	BNL - 9
10	VILLAGE DHENGA	Buffer Zone	BNL - 10
11	VILLAGE KUSUMBHA	Buffer Zone	BNL - 11
12	BLOCK OFFICE AREA (BARKAGAON)	Buffer Zone	BNL - 12

Page 4 of 6

नवीन कुमार / NAVIN KUMAR का बहापकक (पर्यवल प्रवंदन) I DGM (ENVT. MGMT.) एनटीपीसी श्लिकेड / NTPC Limited केवल खन्न परियोजनार / COAL MINING PROJECTS हजाहिबान / Hazaribag

Note:

- The Monitoring frequency will be followed on fortnightly basis in each station for day and night.
- The update plate for monitoring station is enclosed as Appendix 1

Soil Quality Monitoring:

SL.No	Station Name	Reference No
1	Village Pakri-Barwadih Forest Land	SQ - 1
2	Village Chirudih Forest Land	SQ - 2
3	Village ChepaKhurd Agricultural Land	SQ - 3
4	Horam Agricultural Land	SQ - 4
5	Barkagaon Fallow Land	SQ - 5
6	Kanrtari Sediment From Haharo river	SQ - 6
7	MahugainKhurd Fallow Land	SQ - 7
8	Kandaber Agricultural land	SQ - 8

Note:

- The Monitoring frequency will be followed on quarterly basis, which is winter, summer, monsoon & Post Monsoon.
- The update plate for monitoring station is enclosed as Appendix 1

Micro Meteorological Station (MMS):

SL.No	Station Name	Reference No
1	Village Langathu (At NTPC Site Office)	MMS

Note:

- The Monitoring will be continuous for Wind Speed, Wind Direction, Temparature, Humidity, rainfall, Solar Radiation, Cloud Cover, etc.
- The update plate for monitoring station is enclosed as Appendix 1

नवीन कुमार / NAVIN KUMAR का स्त्रावयक (पर्वादल प्रवाद) IDGM (ENVT. MGMT.) एनटीजीती रिताकटेड/ NTPC Limited कोवल खनन परिवादलाई/ COAL MINING PROJECTS हजारीबान / Hazaribag

Page 5 of 6

SL.No	Village	Monitoring Stations
1	Itiz , Chirudih	FD-C:1,FD-C:2, FD-C:4, FD-C:5, FD-C:6 ANL-1, ANL-2,ANL-4,ANL-5,ANL-6,ANL-7, SQ-2
2	Sirma	GW-3, GWL-3,
3	Nagari	AAQ-C:2
4	Urub	AAQ-C:1, ANL-3, FD-C:3
5	Pakri Barwadih	AAQ-C:4, GW-4, GWL-4, SQ-1
6	Langathu	AAQ-C:3, MMS
7	Sinduari	GW-1, GWL-1
8	Deworia Khurd	GW-8, GWL-8
9	Chepa Khurd	SW-7, SQ-3
	Barkagaon	GW-7, GWL-7, BNL-12, SQ-5
10	Kandaber	AAQ-B:5 , GW-2, GWL-2, BNL-8, SQ-7
11	Garikalan	AAQ-B:6 , BNL-9
12	Dhenga	AAQ-B:7, BNL-10
13	Kusumbha	AAQ-B:8, BNL-11
14	Ambajit	GW-5, GWL-5
15	Horam	GW-6, GWL-6, SQ-4
16	Ghagra Nadi , Panduriya	SW-5
17	Haharo Nadi, Kandari	SW-6, SQ-6
18	Mahugain Khurd	SQ-7
19	Lathorwa Nala	SW-1, SW-4
20	Pakwa Nala	SW-2, SW-3

नवीन कुमार / NAVIN KUMAR क बहारकार (वर्षकल प्रकार) I DGM (ENVT. MGMT.) एनटीपीली स्विकेश NTPC Limited केवल खरूर वरिकालनी COAL MINING PROJECTS हजारीबार / Hazaribag



PLOT NO. 4. KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

FUGITIVE DUST MONITORING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF SEPTEMBER 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD., LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

		PAKRI BARWADIH COAL MINE	ES	
	FUGITIVE DUST	MONITORING REPORT MONTH	OF SEPTEMBE	R 2023
SI. No.	Date	Station	Result	Norms
1	01.09.2023	Excavation Area	316	600 ug/m ³
	14.09.2023	Excavation Area	319	600 ug/m ³
2	02.09.2023	Haul Road	239	600 ug/m ³
•	15.09.2023	Haul Road	252	600 ug/m ³
3	05.09.2023	Waste Dump	205	600 ug/m ³
	16.09.2023	Waste Dump	216	600 ug/m ³
4	06.09.2023	Top Soil Dump	265	600 ug/m ³
-	17.09.2023	Top Soil Dump	246	600 ug/m ³
5	07.09.2023	Work Shop	234	600 ug/m ³
-	17.09.2023	Work Shap	215	600 ug/m³
6	09.09.2023	Drilling Location	317	600 ug/m ³
	19.09.2023	Drilling Location	267	600 ug/m³
,	10.09.2023	PSS Area (Village Nagari) FD:C:8	363	600 ug/m ³
′	24.09.2023	PSS Area (Village Nagari) FD:C:8	213	600 ug/m ³

***END OF TEST REPORT ***

Page No. 1 of 1

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN) (Technical Manager)

नवीन कुमार / NAVIN KUMAR क बहारका (प्रवेदन क्रका) IDCM (ENVT. MGMT.) एनटीचीनी त्रिकेटा NYPC Limited क्रेक्स खन्न परिकेदनाई COAL MINING PROJECTS हजारीबान / Hazaribag AUTORISED SIGNATORY INTERNATIONAL INTERNATIO

AN ISO 9001:2015, ISO 14001:2015, OHSAS 18001 : 2007



PLOT NO. 4. KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

AMBIENT AIR QUALITY MONITORING AND ANALYSIS (HEAVY METALS) SUMMARY REPORTFOR THE MONTH OF SEPTEMBER 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

S. N	ETERS	NORMS	VILLAG	E URUS	VILLAG	E NAGARI	LANG		BARW	700		DABER	GARIN	100000000000000000000000000000000000000	VILLAGE	DHENGA	11 11 11 11 11 11	AGE MBHA
			06.09 .2023	15.09. 2023	06.09. 2023	15,09,20 23	06.09. 2023	15.09 .2023	06.09. 2013	15.09 .3023	06.09 .2023	15.09. 2023	06.09. 2023	15.09 .2023	06.09. 2023	15.09. 2023	06.09. 2023	15.0 9.20 23
1	PM 10*	100 ug/m3	50.4	55.8	59.4	58.6	47.5	48.2	48	49.6	43.6	47.3	49.6	46.4	35.3	36.8	32.2	35.4
2	PM 2.5*	60 ug/m3	27.5	30.2	12.2	31.9	26.25	26.4	26.4	27.5	24,5	26.25	27.3	25.9	20.45	20.6	18.2	20.2
3	502*	80 ug/m3	9,4	9.4	10.2	10.3	8.7	8.3	8.9	9.5	9.5	7.5	9.7	9.4	7.5	9.5	6.6	9.7
4	N02*	80 ug/m3	15.8	15.3	17.3	16.9	14.3	12.3	15.2	14.9	15.6	11.2	16.1	14.6	11.3	15.5	9,4	15.2
5	CO++	4.0 mg/m3	0.54	0.53	0.59	0.54	0.33	0.39	0.34	0.38	0.43	0.49	0.42	0.39	0.26	0.37	0.29	0.26
6	03**	180 ug/m3	20.1	21.3	21	20.2	17.7	19.2	17.1	17.8	19.3	19.9	20.9	18.4	17.9	18.2	19.9	20.4
7	MH3*	400 ug/m3	BDL	8CL	BDL	BDL	BDL	BOL	BOL	BDL.	BCA	BDL	BOL	BOL	BOL	BOL	BOL	BDL
8	(A) Pyrone	1.0 mg/m3	8DL	BOL	BOL	BDL	BDL	BOL	BOL	BOL	BOL	BDL	BOL	BOL	BIDL	BOL	BDL	BOL
9	Benzene ***	5.0 mg/m3	BOL	BDL	BOL	BOL	BDL	BOL	BOL	BOL	BDL	BDL	BOL	BDL	BDL	BOL.	BDL	BOL
10	Arsenic*	6.0 mg/m3	BDL	BDL	BOL	BOL	BOL	BDL	BOL	BOL	BDL	BOL	BOL	BDL	BDL	SOL	BDL	BDL
11	Nickel**	20.0 ng/n3	BOL	BDL	BOL	BOL	BOL	MDL	BOL	ROL	BDL	BOL	BOL	BDL	BDL	BOL	BOL	BOL.
12	Mercury	NOT SPECRED	BOL	BDL	NOL.	BOL	BOL	BOL	BOL	BOL	BDL	BOL	BDL	BOL	BDL	BDL	8DL	BOL
13	Chroniu m	NOT SPECIFIED	BOL	BDL	BOL	BOL	BOL	BOL	BDL	BOL	BOL	BOL	8DL	BOL	BDL	BDL	BOL	BDL
14	Lead*	1	BOL	BOL	8OL	BOL	BOL	IDL	BOL	BOL	BOL	BOL	BDL	BOL	MOL	BDL	801	BOL

^{*} CPCB Specification for Ambient Air Quality for 24 hrs.
** CPCB Specification for Ambient Air Quality for 1 hr.

*** CPCB Specification for Ambient Air Quality for Annual

*** END OF TEST REPORT ***

Page No. 1 of 1

FOR GLOBAL ENVIRO LABORATORIES

INTEKHAS KHAN) (Technical Manager)

नवीने कुमार I NAVIN KUMAR THE RELIGIOUS (MOTOR STATE) I DOM (ENVY MONT) एनटीजीसी विमिद्ध। NTPC Limited स खनन परिकंदनाएँ। COAL MINING PROJECTS हजारीबान / Hazaribag



AN ISO 9001:2015, ISO 14001:2015, OHSAS 18001 : 2007



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201 003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

FUGITIVE DUST MONITORING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF AUGUST 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD., LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

		PAKRI BARWADIH COAL MIN	ES	
	FUGITIVE DU	IST MONITORING REPORT MONT	H OF AUGUST	2023
SI. No.	Date	Station	Result	Norms
1	01.08.2023	Excavation Area	312	600 ug/m ¹
	16.08.2023	Excavation Area	318	The state of the s
2	02.08.2023	Haul Road	238	600 ug/m ³
	18.08 2023	Hauf Road	254	600 ug/m*
3	03.08.2023	Waste Dump	209	600 ug/m ³
	19.08.2023	Waste Dump	218	600 ug/m ²
4	04.08.2023	Top Soil Dump	268	600 ug/m ³
	20.08.2023	Top Sail Dump	242	600 ug/m ³
5	D5 08 2023	Wark Shop	235	600 ug/m ³
	21.08.2023	Work Shop	210	600 ug/m"
6	08.08.2023	Drilling Location	319	600 ug/m ³
	24.08.2023	Drilling Location	261	600 ug/m ³
7	09.08.2023	PSS Area (Village Nagari) FD:C:8	361	600 ug/m ³
	25.08.2023	PSS Area (Village Nagari) FD:C:8	217	600 ug/m ¹

***END OF TEST REPORT ***

Page No. 1 of 1

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN) नवीन कुमार / NAVIN KUMAR
क बलावक (प्रवेदल प्रकेड) IDGM (ENVT. MGMT.)
एनटीचीली त्विकडा NTPC Limited
क्रिकाल खनन परिकटनारी COAL MINING PROJECTS
हजारीबान / Hazaribag





PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

AMBIENT AIR QUALITY MONITORING AND ANALYSIS (HEAVY METALS) SUMMARY REPORT FOR THE MONTH OF AUGUST 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

S. N	PAKAM ETERS	NORMS	VICLAS	SE URUS	WILLAS	E NAGARI		AGE	FA	KRI KADIH	VII	LAGE	1	AGE		E DHENGA	MIL	LAGE JMBHA
			93.08 .2023	35.08. 2023	03.08.	16.08.20 21	03.08. 2023	16.08 ,2023	03.08 2023	16.08	03.08 2023	16.0E. 2023	03.68 2023	16.08 .2023	09.06. 2023	16-08. 2023	03.08. 2023	16.0 8.20 23
T	PM 101	100 ug/m3	.60	60.2	64	65	64	58	49	49.4	57	52.3	54	54,1	46	46.3	43	45.3
7	PM 2.5*	Bill ug/mil	32.3	32.4	34.5	35.5	34.5	31.4	26.9	27.5	28.7	28.75	29.5	39.7 5	25.8	25,38	23.6	24.1
1	502*	80 sg/m3	11.9	11.8	128	123	12.8	10.3	8.2	8.4	9.3	9,1	7.8	7.4	7.4	7.2	6.9	6.7
a.	NO2*	160 ag/m3	20.8	19.3	22.5	20.9	22.5	14.3	12.8	12.7	15.2	164:	123	6.01	11:1	10.9	10	9.2
5	CO**	4.0 mg/m3	0.56	0.53	0.61	0.62	0.61	0.33	0.35	0.31	0.33	0.31	0.25	0.24	3.29	17.26	0.24	0.21
6	03**	180 ug/m3	20.4	20.1	21.3	20.7	18.3	18.1	17.5	17.2	19.8	18.2	20.3	18.8	17:4	17.1	19:4	19.9
7.	NHIP	600 ug/m3	BDL	301	BOL	RDL	BDL	BOL	BOL	BOL	BOL	BOL	BD.	BOL	BCN.	BDE.	801	801
1	Benco (A) Pyrene*	1.0 mg/m3	600	SDL.	BDL	BOL	301	BOL	EDI,	BDL	BOL.	804	BOL	BDL	BOL	300	BDs.	BD1
+	Bensone	30 mg/m3	301	BEST	800	80X.	BOL	DDL.	BDL	108	BOL	BOL	BOL	ноц	NOL	BD.	804	BOX:
10	Arsenic*	5.0 mg/m3	801	10L	BOL	801.	BCL	BCL.	BOL	BDI	800	BOL	BOL	BDs.	(0)	800	BDL	806
H	Nickel**	20.0 mg/m3	BDL	#DL	BDL	BDL	BDL	BOL.	BOL	80%	801.	BDL	BDL	801.	BEST	60.	SOL.	BOL
2	Mercury	NOT SPECFED	BDL.	BOL	8DL	8DL	NX.	804	NO.	BDL	BD).	BDL	804	801	IIOL.	804	5DL	801
3	Chromiu m	NOT SPECIFIED	BOL	SOL	BOL	101	BDE.	80.	BDL	BOL	BDI.	BOL.	BOL	BDL	BDL	80L	SDL	80
8	lead*	1	BOL	101.	BOL	BOL	BDL.	80.	HDL	BDL	RDI.	HOL.	BDI	BDL	BOL	BOL	BDL	100

CPCB Specification for Ambient Air Quality for 24 hrs.

*** CPCB Specification for Ambient Air Quality for Annual

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

*** END OF TEST REPORT ***

नदीन कुमार / NAVIN KUMAR का बहामध्ये (वर्धदल प्रावेश) IDGM (ENVT. MGMT.) (नदीवीसी हिलाकेड) NTPC Limited क्षेत्रसा खना प्रीचेडलपी/ COAL MINING PROJECTS (क्ष्मीबान / Hazaribag)

SHIKHA BHATHYA

Page No. 1 of 1

^{**} CPCB Specification for Ambient Air Quality for 1 hr.



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

FUGITIVE DUST MONITORING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF JULY 2023

Name and Address of Customer: M/S PAKRI BARWADIH COAL MINING NTPC LTD., LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

	and the same of the same	PAKRI BARWADIH COAL MINE			
	FUGITIVE D	UST MONITORING REPORT MON	TH OF JULY 20	23	
SI. No.	Date	Station	Result	Norms	
1	01,07.2023	Excavation Area	314	600 ug/m ³	
•	17.07.2023	Excavation Area	320	600 ug/m³	
2	02.07.2023	Haul Road	231	600 ug/m ³	
-	25.07.2023	Haul Road	270	600 ug/m ³	
3	03.07.2023	Waste Dump	205	600 ug/m ³	
	27.07.2023	Waste Dump	211	600 ug/m ³	
4	05.07.2023	Top Soil Dump	282	600 ug/m ³	
7	28.07.2023	Top Soil Dump	273	600 ug/m ³	
5	09.07.2023	Wark Shop	239	600 ug/m ³	
	28.07.2023	Work Shop	248	600 ug/m ³	
6	10.07.2023	Drilling Location	348	600 ug/m ³	
	30.07.2023	Drilling Location	269	600 ug/m ³	
7	12.07.2023	PSS Area (Village Nagari) FD:C:8	380	600 ug/m³	
'	30.07.2023	PSS Area (Village Nagari) FD:C:8	311	600 ug/m³	

***END OF TEST REPORT ***

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR का बरावराक (वर्षवर कांबर) IDGM (ENVT. MGMT.) उन्होंचीनी स्तान्देश NIPC Limited कोंबल खन्न परिकटनाई (COAL MINING PROJECTS हजारीबान / Hazaribag Page No. 1 of 1

AUTHORISED SIGNATORY





PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

AMBIENT AIR QUALITY MONITORING AND ANALYSIS (HEAVY METALS) SUMMARY REPORTFOR THE MONTH OF JULY 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

S. N	PARAM ETERS	NOIMS	VILLAG	E URUB	VILLAG	E NAGARI	UNIC		BARW	13.55	10,000	LAGE DAULE	VILLI	0.2574.44.	VILLAG	E DHENGA	100000000000000000000000000000000000000	MBHA
			14.07	27.07. 2023	14.07. 2023	27.07.20 23	14.07. 2023	27.07 .2023	14.07. 2023	27.07	14.07 .2023	27.07. 2023	14.07. 2023	27.07 _2023	14.07. 2023	27,07. 2023	14.07. 2023	27.0 7.20 23
1	PM 10*	300 ug/m3	63.2	51.7	67.3	55.8	57.1	45.8	58.4	41.8	55.3	39.7	52.3	32.9	45.8	33.9	46.5	30.7
2	PM 2.5*	90 ug/m2	33.9	27.5	36.15	29.1	30.55	24.6	319	23.5	32.3	21.3	28.45	18.4	26	19.8	27.25	16.5
3	502*	80 ug/m3	17.3	10.2	14.5	11.4	10.9	7.1	11.2	6.5	11.2	5.9	9.7	5.2	8.3	5.5	7.6	5.2
a.	NO2*	80 ug/mil	21.1	16.1	25.3	18.5	19.5	19.5	18.3	13.1	19.3	11.4	15.2	10.8	14.5	13.1	11.7	10.7
5	CO**	4.0 mg/m3	0.78	0.20	0.84	0.32	0.55	0.23	0.49	0.24	0.62	0.16	0,56	0.21	0.34	0.26	0.41	0.26
6	03**	380 ug/m3	19.4	24.1	18.1	21.9	21.8	27.9	20.6	25.9	22.7	27.1	24.8	27.7	22.1	28.4	25.4	28.5
7	NHS*	400 ug/m3	BDL	BO.	EDL.	BDL	BDL	BOL	BOL	BDL	BOL	8DL	BOL	BDL	BOL	801	801	801
8	Rerus (A) Pyrene	10 mg/m3	BDL	BOL	BOL	BOL	BDL	BDL	BOL	BDL	BOL	BDL	SOL	BDL	3DL	BDL	801	BOL
9	Benzene	5.0 mg/m3	BDL	BOL	100	BDL	BDL	BOL	BOL	BDL	301	BDL	BOL	BDL	BDL	801	801	BDE
10	Arsenic*	8.0 mg/m3	8DL	BES I	HDL	308	BDL	BDL	BOL	801	801	BDL	801	BOL	abt	BDL	80.	BOL
11	Mickel**	20.0 mg/m3	BDL	6DL	BDL.	BOL.	BDL	BOL	BOL	BDL	BOL	BDL	BDL	BDL	BDL	BOL	601	BOL
12	Mercury	NOT SPECHED	8DL	BDL	BDL	8DL	BDL	BDL	HOL	8DL	801	8DL	BOL	BDL	BDL	BDL	SDL	BOL
15	Chromiu m	NOT SPECIFIED	BDL	BDL	BDL	BOL	BDL	BOL	BEAL	BDL	SIDE	8DL	BEIL	BDL	BDL	BDL	801	BOL
14	Lead*	1.	BDL	BD.	BDL.	BOL	BDL	BOL	BOL	BOL	BOL	8DL	BDL	BDL	SDL	BDL	801	BDI

PCB Specification for Ambient Air Quality for 24 hrs.

***END OF TEST REPORT ***

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीनं कुमार । NAVIN KUMAR का महाप्रकारक (पर्वादरल प्रकारत)। DGM (ENVT. MGMT.)

एनटीजीसी विमिदेश NTPC Limited ल खना परिपोर्डनारी/COAL MINING PROJECTS हजासिंदान / Hazaribag Page No. 1 of 1

AUTHORISED SIGNATORY

(ARVIND KUMAR)

^{**} CPCB Specification for Ambient Air Quality for 1 hr.

^{***} CPCB Specification for Ambient Air Quality for Annual



PLOT NO. 4. KHASRA NO. 45. OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

MOBILE: +91-9810317145, +91-8826028116

E-mail: global_enviro@rediffmail.com, globalenvirolab@gmail.com

MoEF&CC Recognized Environmental Laboratory

FUGITIVE DUST MONITORING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF JUNE 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

		PAKRI BARWADIH COAL MIN	ES		
	FUGITIVE D	UST MONITORING REPORT MON	TH OF JUNE 20	023	
SI. No.	Date	Station	Result	Norms	
1	01.06.2023	Excavation Area	366	600 ug/m ³	
771	15.06.2023	Excavation Area	354	600 ug/m ³	
2	02.06.2023	Haul Read	262	600 ug/m³	
	16.06.2023	Haul Road	277	600 ug/m ³	
3	03.06.2023	Waste Dump	239	600 ug/m ¹	
	17.06.2023	Waste Dump	248	600 ug/m ³	
4	04.06.2023	Top Soil Dump	279	600 ug/m ³	
	18.06.2023	Top Soil Dump	270	600 ug/m ¹	
5	05.06.2023	Work Shop	234	600 ug/m ³	
1.70	19.06.2023	Work Shop	249	600 ug/m ¹	
6	06.06.2023	Drilling Location	349	600 ug/m ²	
	20.06.2023	Driffing Location	357	600 ug/m ³	
7	07.06.2023	PSS Area (Village Nagari) FD:C:8	386	600 ug/m ⁺	
	21.06.2023	PSS Area (Village Nagari) FD:C:8	379	600 ug/m ³	

Page No. 1 of 1

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN)

नवीनं कुमार । NAVIN KUMAR अन महाप्रवेचक (पर्यावरण प्रवेचन) / DGM (ENVT. MGMT.) एनटीजीसी विकिटेड/ NTPC Limited का सन् परिकेलनार्ग (COAL MINING PROJECTS हजारीबान् / Hazaribag

AUTHORISED SIGNATORY (SHIKHA BHATIYA)





PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD 201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

AMBIENT AIR QUALITY MONITORING AND ANALYSIS (HEAVY METALS) SUMMARY REPORTFOR THE MONTH OF JUNE 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

5.	FARAM	PAKRI BAR NORMS	VILLAG	SE UNIUN	VILLAG	E NAGARI	VIII	AGE	PA	191	101	LAGE	DAIR	VICINI P			1000	1000
N D	EYERS						1	ATHU	BARW		1 1////	DABER	GARIK		VILLAG	E DHENGA	KIRD	AGE MBH/
			07.06 2023	20.06. 2028	07.06. 2023	20.06.26 23	07.06. 2023	20.06 .2023	07.06. 2023	20.06	07.06 .2023	20.96. 2023	07.06. 2023	20.04	07.06 2029	20.06.	97.06. 2023	20 00 21
1	PM 10*	300 kg/m3	70.2	66.6	75.2	74.6	62.1	61.5	63.9	64.4	57.1	56.2	54.9	56.8	53.9	52.6	51.2	49 8
ş	PM 2.5*	60 ug/mil	37.4	35.6	40.1	39.8	33,45	33.1 5	34.65	34.9	31.1	30.7	30.15	311	29.15	28.5	28.1	27
3	502*	80 ug/m3	13.1	14.2	18.3	17.9	13.5	10.4	12.4	11.8	10.9	8.8	11.4	10	8.7	9.5	9.9	7.5
£	NO2*	80 ug/m3	22.7	24.9	32.9	32.1	22.7	16.5	20.7	19.5	16	13.8	18.6	15.8	13.9	15.5	16.3	12
5	co**	4.0 mg/m3	0.72	0.59	0.97	0.87	0.64	0.45	0.65	0.57	0.61	0,44	0.49	0.6	0.47	0.54	0.51	0.4
6	03**	180 ug/m3	22.4	21.0	20.4	20.9	24,4	23.7	22.1	21.5	25.8	26.1	26.8	26.4	26.2	27.5	27.8	28
1	1913*	400 ug/m3	804	NDL.	BOK.	801	OCX.	806	BOL	BOL	801	BCL	BDi	HOL	BDL	Mari	W. 64	50
	Renzo (A) Pyrene	1.0 mgm3	904.	301	BDL	BOL.	BDL	BOL	BOL	BDL	HOL.	BD.	NOL	BDL	BOL	BDL BDL	BOL	AC I
	Benrene	50 mg/mg	BOL	304	BDL	HOL	BDL	BDL	BDL	BOL	BOL	BOL	HDE:	80.	BDL	801	pro	80
0	Arsenic*	6.0 mg/m3	801	SDL	801	BUL	BOL	BOI.	SOL	BOL	804	BOL	BDL	BDI.	BOL		BBL	HD.
t	Nickel**	36.0 mg/m3	BDL	SDL	HOL	BDL	III DE	80L	801	BDL	BOL	BDL	BOL	BID.	BOL.	BDL.	BOL.	1 30
Ė	Mercury	NOT SPECIED	BOL	BOL	BDL	BO.	BDL	BOL	8DL	BD1	BOL	SDL	NO.	BDL	601	BUL	801	80
i.	Chromiu	NOT SPECIFIED	BOL	#DL	BDL.	BCL.	3DL	BOL	804	SDL.	BO1	801	SDL SDL	BDL BDL	80L	EOI,	801	80
į.	Lead*	1	HOL	\$DL	BDL	BDL	8DL	BDL	8DL	80.	801	801	8DL	300	BDL	BOX.	BDs.	80

CPCB Specification for Ambient Air Quality for 24 hrs.

*** END OF TEST REPORT ***

FOR GLOBAL-ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN)

नवीनं कुमार । NAVIN KUMAR का महाप्रवेचक (पर्यावरण प्रवेचन)। DGM (ENVT. MGMT.) एनटीजीसी विकिता NTPC Limited म्म सन्त परिकारनारं/ COAL MINING PROJECTS हजारीबान् / Hazaribag

Page No. 1 of 1

AUTHORISED SIGNATORY (SHIKHA BHATIYA)

^{**} CPCB Specification for Ambient Air Quality for 1 hr.

^{***} CPCB Specification for Ambient Air Quality for Annual



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

FUGITIVE DUST MONITORING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF MAY 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

		PAKRI BARWADIH COAL MIN	ES			
	FUGITIVE D	OUST MONITORING REPORT MON	TH OFMAY 20	23		
SI. No.	Date	Station	Result	Norms		
1	01.05.2023	Excavation Area	369	600 ug/m ³		
	15.05.2023	Excavation Area	351	600 ug/m ³		
2	02.05.2023	Haul Road	258	600 ug/m ³		
	16.05.2023	Haul Road	274	600 ug/m ³		
3	03.05.2023	Waste Dump	236	600 ug/m ³		
	17.05.2023	Waste Dump	244	600 ug/m³		
4	04.05.2023	Top Soil Dump	281	600 ug/m ³		
70	18.05.2023	Top Soil Dump	268	600 ug/m ³		
5	05.05.2023	Work Shop	234	600 ug/m ³		
	19.05.2023	Work Shop	251	600 ug/m ³		
6	06.05.2023	Drilling Location	347	600 ug/m³		
	20.05.2023	Drilling Location	355	600 ug/m ³		
7	07.05.2023	PSS Area (Village Nagari) FD:C:8	382	600 ug/m³		
,	21.05.2023	PSS Area (Village Nagari) FD:C:8	376	600 ug/m³		

***END OF TEST REPORT ***

Page No. 1 of 1

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR
का बरावकार्थ (वर्षटका प्रकार) IDGM (EVVT. MGMT.)
व्यानीमी त्रिकेटा NTPC Limited
काल बरन परिकटनार्थ (COAL MINING PROJECTS
हजारीबान / Hazaribag

AUTHORISED SIGNATORY (ARVIND KUMAR)



AN ISO 9001:2015, ISO 14001:2015, OHSAS 18001 : 2007



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

AMBIENT AIR QUALITY MONITORING AND ANALYSIS (HEAVY METALS) SUMMARY REPORTFOR THE MONTH OF MAY 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

S. N	FARAM	NORMS	VILLAGE URUB		VILLAGE HAGARI		LANGATHU		PARRI BARWADIH		KANDABER		GARIKALAN		VILLAGE DHENGA		WILLAGE KUSUMBHA	
			07.05 .2023	19.05. 2023	07.05. 2023	19.05.20 23	07.05. 2023	19.05 .2023	07.05. 2023	19.05 2023	07.05 .2023	19.05. 1023	07.05. 2023	19.05 .2028	07.05. 2023	19.05. 2023	67.65. 2023	19.0 5.10 23
1	PM 10*	300 ug/m3	69.2	66.9	74.2	75.6	64.2	62.3	63.6	64.2	55.3	58.6	57.9	58.6	51.6	53.2	52.4	50. 2
2	PM 2.5*	EO ug/m3	36.9	35.75	39.6	40.3	34.5	33.5	34,5	34.8	30.2 5	31.9	31.65	32	28	28.8	28.7	27. 6
3	502*	80 ug/m3	14.1	13.2	16.3	17.6	10.9	12	12.6	11.3	11.2	9.6	9.7	10.2	8.3	8.6	10.3	9.8
4	NO2*	80 ug/mt	24.7	22.9	28.9	31.5	17.5	19.7	21.1	18.5	18.6	15.4	15.2	16.2	13.1	13.7	0.64	16. 1
5	CD**	4.0 mg/m3	0.82	0.71	0.92	0.84	0.53	0.55	0.55	0.49	0.56	0.62	0.61	0.56	0.44	0.34	0.52	0.4
6	03**	180 ug/m3	22.9	21.3	19.9	20.7	23.8	24.2	22.7	23.6	25.4	26.9	26.3	25.8	25.8	27.1	27.2	28.
,	NHQ*	400 ug/m3	BOL	BDL	BOL	8DL	BOL	SOL	BDL	BDL	BDL	BOL	8DL	BDL	BOL	BDL	BDL	BDL
9	(A) Pyrene	1.0 mg/m3	BDL	BDL	BOL	BOL	BOL	BOL	BDL	NOL	BDL	BDL	BDL	BDL	BOL	BDL	BOL	BDL
9	Benzene ***	5.0 mg/m3	BDL	BDL	BOL	BOL	BDL	BDL	8DL	BOL	BOL	BDL	BOL	BDL	RDL	BDL	ROL.	BDL
10	Arsenic*	6.0 mg/m3	BOL	BOL	BOL	BOL	BDL	BOL	BOL	8DL	BOL	BOL	BOL	BDL	BDL	BDL	BDL	BDL
n	Nickel**	20.0 mg/m3	BDL	BOL	BDL	BDL	BDL	BDL	BDL	BDL.	BDL.	BOL	BOL	BOL	BOL	BOL	BDL	BOL
2	Mercury	NOT SPECHED	BOL	8DL	BDL	BDL	BOL	BOL	BDL	BDL	BDL	BDL	BDL	BDL	BOL	BCL	BOL	BDL.
3	Chramiu m	NOT SPECIFIED	8DL	BDL	BOL	BOL	BOL	BDL	BDL	BDL	BDL	BDL	SDL	8D£	BOL	BDL	BOL	BDL
A	Lead*	1	BOL	BDL	BDL	BOL	BOL	8DL	BEL	BOL	BOL	HDL	8DL	BDL	BDL	BDL	EDL	BDL

***END OF TEST REPORT ***

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN)

नवीन कुमार I NAVIN KUMAR TAMEN (ACTOR REPORT) | DOW (ENAL) एनटीजीसी विकिता NTPC Limited ल खन्न परिर्वापनार्थं/ COAL MINING PROJECTS हजारीबान् / Hazaribag

AUTHORISED SIGNATOR (ARVIND KUMAR)

Page No. 1 of 1

AN ISO 9001:2015, ISO 14001:2015, OHSAS 18001 : 2007

^{**} CPCB Specification for Ambient Air Quality for 1 hr.

^{***} CPCB Specification for Ambient Air Quality for Annual



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE. 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

FUGITIVE DUST MONITORING AND ANALYSIS SUMMARY REPORT FOR THE MONTH OF APRIL 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD., LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

	20 PM 12 CONT. 10	PAKRI BARWADIH COAL MINI		Europe -	
	FUGITIVE D	UST MONITORING REPORT MON	TH OF APRIL 2	023	
SI. No.	Date	Station	Result	Norms	
1	01.04.2023	Excavation Area	358	600 ug/m	
7	17.04.2023	Excavation Area	376	500 ug/m ³	
2	02.04.2023	Haul Road	252	600 ug/m ³	
	18.04.2023	Haul Road	284	600 ug/m ³	
3	03.04.2023	Waste Dump	216	500 ug/m ³	
	19.04.2023	Waste Dump	254	600 ug/m ³	
4	04.04.2023	Top Soil Dump	274	600 ug/m ³	
	21.04.2023	Top Soil Dump	288	600 ug/m ³	
5	05.04.2023	Work Shop	242	600 ug/m ³	
201	22.04.2023	Work Shop	248	500 ug/m ³	
6	06.04.2023	Drilling Location	362	600 ug/m ³	
	23.04.2023	Drilling Location	369	600 ug/m ³	
7	07.04.2023	PSS Area (Village Nagari) FD:C:8	368	600 ug/m ³	
	24.04.2023	PSS Area (Village Nagari) FD:C:8	398	600 ug/m ⁵	

***END OF TEST REPORT ***

Page No. 1 of 1

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR का बहारकार (वर्षाता प्रकार) IDCM (ENVI. MGMT.) (अर्थाता प्रकार) NTPC (Envir. MGMT.) कार्याता अर्थाता प्रकार) NTPC (Envir. MGMT.) कार्याता व्याप अर्थाता (ALA MINING PROJECTS हजारीवान / Hazaribag AUTHORISED SIGNATORY (ARVIND KUMAR)



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

AMBIENT AIR QUALITY MONITORING AND ANALYSIS (HEAVY METALS) SUMMARY REPORT FOR THE MONTH OF APRIL 2023

Name and Address of Customer:

M/S PAKRI BARWADIH COAL MINING NTPC LTD.,

LANGATU, BARKAGAON, HAZARIBAGH, JHARKHAND. (INDIA)

N .	PARAM ETERS	NORMS	VILLAGE URUB		VILLAGENAGARI		VILLAGE LANGATHU		PAKRI BARWADIH		VILLAGE KANDABER		VILLAGE GARIKALAN		VILLAGE DHENGA		KUSUMBHA	
			07.01 .2023	27.01, 2023	07.01. 2023	27.01.20 23	07.01. 2023	27.01	07.01. 2023	27.01 .2023	97.01 2021	27.01. 2023	07.01. 2023	27.01 .2023	07.01. 2023	27.01 2023	07.01. 2021	27.0 1.20 73
1	PM 10*	100 ug/m3	65.6	69.6	72.6	75.2	63.8	64.2	63.4	64.8	58.2	52.4	61.4	62.8	55.8	56.4	56.2	38.4
2	PM 2.31	50 ig/e3	35.1	37.1	38.8	40.2	34,6	34.5	34.1	35.1	31.8	33.8	33.2	34.1	30.7	30.4	30.2	31.7
3	502*	80 ug/m3	14.2	15.4	35.2	17.2	11.4	13.2	11.4	12.6	10.5	10.2	10.7	10.5	10.2	11.2	10.9	3.6
4	NO2*	80 ug/m3	25.4	27.3	27.3	30.7	19.5	22.1	19.2	21.1	17.8	16.6	18.1	16.8	0.96	18.9	18	0.64
1	CO**	4.0 mg/m3	0.43	0.80	0.67	0.92	0.69	0.74	0.46	0.65	0.54	0.62	D.64	0.54	0.77	0.96	0.87	0.72
à	05**	180 ug/m3	21	23	20	23	23	24	24	21	26	23	22	- 22	28	28	27	-27
7	NH3*	400 ug/m3	SOL	800	801.	BDL	BDL	BOL	BDL	NDL.	HDL	BDL	BDL	BOL	BOL	801.	BDL.	HOU
	Bargo (A) Pyrane	1.0 mg/m3	B/DI.	BOX.	8DL	BDL	BDL	BOL	BOL.	HOL	BOL	BOL	BDL	acı.	BOL	BÖL	BDL	801
3	Bergene ***	5.0 mg/m3	80%	SOL	BDL	BDI.	BDL	BOL	BOL	BDL	BOL	BOL	BDI	BOL	BDL	BOL	BOL	HOU
10	Arsenic*	6-0 mg/m3	106	800.	10L	BOL	BDL	NOL	BOL	BDL.	BDL	BDL	BOL	BDL	BDL	801	801	1000
n.	Nicket**	20.0 mg/m3	101.	306	101	BOL	BOL	MOL.	BOL.	FOL.	BDL	EDL	BDI	601	RDL	BDL	801	806
2	Mercury	NOT SPECIFICO	BDL	BD.	101	SOL	BOL	30%	BCL.	BOL	BOL	BDL	801	SDL	BDL.	BDL	BOL	300
i)	Ehramik m	NOT SPECIFIED	NDL.	BD.	¥(2)	800	BDL	BDL.	BCL.	801	301	BDL	BOL	BDL	80).	HOL	801	BOL
A.	Lead*	3	BOL	BDL.	BDI.	906	HOL	SDL	DCL	804	BOL	SDL	BDL	BDL.	601	800	acts	BDI

CPCS Specification for Ambient Air Quality for 24 hrs.

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN) *** END OF TEST REPORT ***

नवीन कुमार / NAVIN KUMAR का बहावकार (पर्वादन प्रवादन) IDCM (ENYT. MGMT.) एनटीचीनी जितकेर / NTPC Limited क्रमा वाच वीचोजनाएं (COAL MINING PROJECTS हजारीबान / Hazaribog AUTHORISED SIGNATORY (ARVIND KUMAR)

Page No. 1 of 1

^{**} CPCB Specification for Ambient Air Quality for 1 hr.

^{***} CPCB Specification for Ambient Air Quality for Annual

Water Sprinkling System at Pakri Barwadig Coal Mining Project





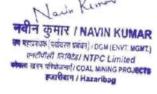


नवीन कुमार / NAVIN KUMAR
क बहारकार (पर्वादन प्रवंधन) IDGM (ENVT. MGMT.)
एनटीवीसी स्वास्थ्य NTPC Limited
क्रेक्स खन परिकेशनी (COAL MINING PROJECTS
हजारिवान / Hazaribag

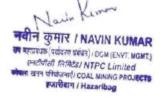














नवीन कुमार / NAVIN KUMAR
का बहारावाक (वर्षांत्र का प्रवेश) IDGM (ENVT. MGMT.)
पनशीरीती स्वापित (NTPC Limited
कोवल खन्न परिकेशनी/ COAL MINING PROJECTS
हणारीवार / Hazaribog



नवीन कुमार / NAVIN KUMAR
क बहानकड (पर्वादन प्रसंक) IDGM (ENV. MGMT.)
एनशीनी जिन्देश NIPC Limited
केवल अन्य परिवेदनार्श (COAL MINING PROJECTS
हजारीबान / Hazaribag





Dust Suppression through Water Tanker









PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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E-mail: global_enviro@rediffmail.com, globalenvirolab@gmail.com

MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OFSEPTEMBER 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

		ADIH COAL	MININ	G PROJ	CT			PAI	CRI BARW	ADIH COAL	MINING	PROJE	CT	
ONITORIN	G LOCATI	ON :- EXCA	VATION	AREA(WORK Z	ONE)		MONITO	RING LOCA	TION :- HA	UL ROA	D (WOR	K ZONE)
NOISE MO	NITORING	DATA MO	NTH OF	SEPTEN	MBER 20	23	1		THE RESIDENCE OF THE PARTY OF T	Marine Inches and American American				
Oate	Monitori ng Code	Description noise level db(A)	Re	ult	(CPCB/I	ACTORIE	SI. No	Data	Monitoria g Code	Description noise level db(A)	Result		Stan (CPCB/	dards FACTORI ACT)
		10	Dwy	Night	Day	Night		10	W 1		Day	Night	Day	Nigh
		Average				195.79				Average	66.8	64.8	-	C-077
01.09.2023	**** *	Maximum	70.6	67.5		-	192	222100		Meximum	69.5	68.5		
	HORL-1	Minimum	633	63	75/90	70		02.09.2023	ANL-2	Minimum	64	61.1	75/90	70
		Legdb(A)	68.9	66.6	1					Legdb(A)	67.3	55.8	1	
		Average	66.0	63.3						Average	67.A	63.9	1	
		Maximum	69.3	193 66.2	1		15			Maximum	71.5	67.2	+	
17.09,2023	ANL-1	Minimum	62.7	50.3	75/90	70	2	19.09.2023	ANL-2	Minimum			75/90	70
		Landb/A)		Description of the last of the	And bearing	10		11700	111111111111111111111111111111111111111	- 2000000000000000000000000000000000000	-	9415	(0.000)	10000
		The second second	1000	A SHOW A						500,000,000	-1000		1	
MONITORI	NG LOCA	TION :- WA	STE DU	MP,(W	ORK ZON	NE)	-	MONITORII	NG LOCATI	ON :- TOP	SOIL DU	MP(WO	RK ZON	E)
Date	Monitori ng Code	Description noise level db(A)	Re	suit	(CPCB/F	ACTORIE	St. No	Cate	Monitori ng Code	Descriptio minoise level db(A)	Re	eult	State (CPCB/Fi 5 A	ACTORIE
		- 5	Day	Night	Day	Might		3.45			Day	Night	no.	
		Average	68.7	64.8		100				Average	65.8	64.5	Day	Night
00.00.3031	440.2	Maximum	71.2	67.9		1	3		1000000	Maximum	68.4	66.5		
05.09.2023	AMUS	Minimum	66.2	61.6	75/90	70	1	06.09.2023	ANL-4	Minimum	63.2	62.4	75/90	70
		Legdb(A)	70.2	65.7		KA	U.S.	5-NULL	DISSU	Legdb(A)	66.8	65.2		
		Average	64.4	65.7		-				Average	66.8	63.8		
10.00 1011		Meximum	67.3	67.3						Maximum	71.2	67.4	š	
FA/0A/T/153	AML-3	Minimum	61.4	60.1	75/90	70	2	19.09.2025	ANL-4	Minimum	S. C. W.	20.10	75/90	70
		Leadb(A)	65.B	65.3					1	-50000000000000000000000000000000000000	-	7.575		-
	01.09.2023 17.09.2023 MONITORI	Osio Monitori ng Code 01.09.2023 ANL-1 17.09.2023 ANL-1 MONITORING LOCA Date Monitori ng Code 05.09.2023 ANL-3	Oste Monitori ng Code Average Maximum Legdb(A) MONITORING LOCATION:- WA Monitori ng Code Maximum Legdb(A) Monitori ng Code Maximum Legdb(A) Average Maximum Legdb(A) Average Maximum Legdb(A) Average Maximum Minimum Legdb(A)	Date Monitori ng Code Description noise level db(A) Day	Date Monitori ng Code Description noise level db(A) Dey Night	Date Monitori ng Code Description Result (CPCE/N 5/8)	Date Monitori noise level db(A) Dey Night Day Night Da	Date Monitori ng Code Description noise level db(A) De	Date Monitori ng Code Description noise lavel db(A) Description noise lavel db(A) Description noise lavel db(A) Description noise lavel ng Code Description noise	Date Monitori ng Code New Description ng Code New Night Day Night Night	Date Monitoring Code Description noise level db(A) Des	Date Monitori ng Code Description nelse level dol(A) Descr	Date Monitoring Code Description natice invest Day Night Day D	Date Member Description Result CPCE/FACTORIS So. Date Monitoris COCAE COCA

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN)(Technical Manager)

> नदीन कुमार / NAVIN KUMAR क बहारायाः (वर्षात्व प्रवेदा) IDGM (ENVI MGMT) पनटीचीनी व्यक्तिश्चर NTPC Limited केवल बन्न पनिचेदनारी COAL MINING PROJECTS हजारीबान / Hazaribag

AUTHORISM SUCHATORY (SHIKHA SHIDAYA)

Page 01 of 04





PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF SEPTEMBER 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD.
LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	MONITORIN	NG LOCAT	ION :- WOF	RK SHO	P(WOR	(ZONE)		MO	NITORING	LOCATION	:- DRILLIN	G LOCA	TION(W	ORK Z	ONE)
	NOISE MONI	TORING I	DATA MON	TH OF S	EPTEME	BER 202	3	N	OISE MON	TORING D	NOM ATA	THOFS	EPTEM	BER 202	23
51. No	Date	Monitori ng Code	Description moise level db(A)	Re	sult.		dords ACTORES (7)	SI. No.	Date	Monitorin g Code	Pescription noise level db(A)	Nex	ruit	Stand (CPCS/I	FACTO
			-	Day	Might	Day	Night		N L	11		Day	Night	Day	Nigi
			Average	68.9	63.3		7			0.00	Average	66.3	61.8		
1	07.09.2023	ANE-5	Maximum	71,4	67.6	75/90	70				Maximum	68.2	64.4		
*	07/09/2023	ANUS	Minimum	66.4	58.9	75/90	70	1	09.09.2023	ANL-6	Minimum	64.3	59.2	75/90	70
			Legdb(A)	70.2	65.3						Legdb(A)	67.7	62.9		
		7	Average	63.2	62.2	-		-			Average	62.2	60.4		
	24.09.2023	ANL-5	Maximum	68.3	66.3	75/90	70	2	24.09.2023	ANL-6	Maximum	67.7	62.1		100
•	E4.03.2023	MACG	Minimum	58.1	58.1	19/90	70		24,08,2023	ANL-6	Minimum	56.7	58.6	75/90	70
			Legdb(A)	65.8	64.2					3	Leqdb(A)	64.6	60.6		
	Monitoring	Location	- OPERATO	R CABI	N(WOR	K ZONE)		Mo	nitoring Lo	cation :- P	SS AREA-1	(NAGA	RI) (WC	ORK ZO	NE)
Si. No.	Date	Monitor ing Code	n noise level db(A)		Result	(CPCB/	dards FACTORI ACT)	SI No.	Date	Monitori ng Code	Descriptio n noise level db(A)	Re	sult	Stand (CPCR/I RICS /	FACTO
				Day	Night	Day	Nigh 1		N	B		Day	Night	Day	Night
			Average	69.1	62.9	1		1			Average	67.0	64.B	- Cay	- regin
	10.09.2023	AMI-7	Maximum	71.8	67.3	1	150	100		11000	Maximum	69.9	66.3		
•	1009.2021	WM-1	Minimum	66.4	58.4	75/90	70	*	13.09.2023	ANL-8	Minimum	64.1	63.2	75	70
			Legdb(A)	70.5	64.9						Leqdb(A)	68.3	65.5		-
			Average	64.6	60.3	100			UTT III	1 3 10 11	Average	69.3	64.4		
2.1		-	Moximum	68.6	67.2	1	2000			Week to	Maximum	72.2	67.7		
2	24.09.2023	ANL-7	Minimum	60.5	53.3	75/90	70	2	25.00.2023	ANL-8	Minimum	66.3	61.1	75	70
				-	-	4					Declaration	-	-		
			Leodb(A)	66.5	64.6						Legdb(A)	71.7	65.6		

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)(Technical Manager)

नवीने कुमार I NAVIN KUMAR

क महाप्रकार (प्रवेदना प्रकार) | DGM [ENVT. MGMT] एनटीवीसी स्तामक्ष्य NTPC Limited कोवास खनन परिवोदनाई / COAL MINING PROJECTS हजारीबान / Hazaribag AUTHON SECTION TORY





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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF SEPTEMBER 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

MON	ITORING LO	CATION :	PSS AREA-	2 (NAG	ARI) (W	ORK ZO	ONE)	M	ONITORING	LOCATION	:- VILLAGE	KANDAI	BER (AN	MBIENT	ZONE
N	OISE MONI	TORING D	ATA MONT	H OF SE	PTEMB	ER 202	3		The state of the s		DATA MO		THE RESIDENCE IN	_	
SI. No.	Date	Monitori ng Code	Description noise level db(A)	•		(CPCS)	dands FACTO ACT)	SI. N	Date	Monitorin g Code	Description noise level db(A)	Pa	sult	(CPCB	ndards /FACTOR (ACT)
				Day	Night	Day	Nigh.			0	-	Duy	Night	Day	Night
			Average	66.7	62.7			-			Average	51	40.4	Cut	Night
	14.09.2023	ANL-9	Maximum	70.9	67.5						Maximum	53.6	44.3		
1	14.09.2023	Anna	Minimum	62.5	57.9	75/90	70	1	15.09.2023	BNL-10	Minimum	48.4	36.5	35	45
			Legdb(A)	68.4	64.6					1 3	Leadb(A)	52.4	42.5		
			Average	67.2	60.2						Average	48.1	38.2		-
			Maximum	71.9	54,4						Maximum	51.4	40.8		
2	25.09.2023	ANL-9	Minimum	62.5	55.9	75/90	70	2	25.09.2023	0NL-10	Minimum	44.8	35.6	- 55	45
			Legdb(A)	69.7	62.6						Legdb(A)	49.8	39.3		
MONIT	ORING LOC	ATION :- Y	/ILLAGE GA	RIKALA	N / ANI	DENT 2	ONE		ONITORIN	CLOCATIO	N :- VILLAGE		F-123		
SI. No.	Date	Monitori ng Code	Descriptio n noise level db(A)	100	sult.	Stand (CPCB/I	dards FACTOR	SI. No	Date	Monitorin g Code	Description noise level db(A)		sut .	Sta (CPCB,	ndards /FACTOR
				Day	Night	Day	Nigh		7			Day	Night	Day	Night
			Average	48.1	37.8				1000	-	Average	48.2	40.1	201	- regin
1	15.09.2023	INL-11	Maximum	51,4	42.2	Jan. 1			And a second con-	VALVES SINCE	Maximum	52.3	42.7		
1	13.01.000	9040-32	Minimum	44.8	33.4	55	45	1	16.09.2023	ENL-12	Minimum	44.1	37.5	55	45
			Legsb(A)	50,1	39.3						Legdb(A)	49.7	41.5		
	W/DUNNIN		Average	49.6	35						Average	44.9	36.7		
2	27.09.2023	3NL-11	Maximum	52.4	39.3	55	36	-		1220000	Maximum	48.6	39.9	11538	1000
	(managed and property)	D.Fritchers	Minimum	46.8	30.7	33	45	2	28.09.2023	BNL-12	Minimum	41.1	33.5	55	45
			Leodb(A)	51.3	37.2	0.7									

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)(Technical Manager)

नवीन कुमार / NAVIN KUMAR क बहामकाक (वर्षावरण प्रकार) IDCM (ENVT. MGMT.)

वन बहाजकार्क (ब्रावस्त प्रहान) IDGM (ENVT MGMT) एनटीवीसी जिन्नेटेडी NTPC Limited कोबास अनुन परिकासनारी COAL MINING PROJECTS रुपासिसान / Hazaribog AUTHORISM SHOWARD

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PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF SEPTEMBER2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	M	ONITORING	LOCATION :- VIL (AMBIENT ZO!		SUMBHA				MONITO	RING LOCA	TION :- BLOCK C		EA (BAR)	(AGAON)	
	NOISE	MONITORIN	G DATA MONT	H OF SEPT	TEMBER 2	023			NOIS	E MONITOR	ING DATA MON	TH OF SE	PTEMBER	2023	
SI. No.	Date Monitori noise lev			Re	sut	(CPCS	/FACTO	SI. No	Date	Monitori ng Code	Description noise level db(A)	R	esult	(CPCB)	rdards /FACTORI
				Day	Night	Day	Night					Day	Night	Day	Night
		8	Average	49.5	38.4						Average	49.9	36.6		
1	16.09.2023	BNL-13	Maximum	52.4	41.7		10.00	4			Maximum	53.4	42.4	100	10.57
•	30.09.4023	ONU-13	Minimum	46.6	35.1	55	45	1	16.09.2023	BNL-14	Minimum	46.4	35.2	55	45
			Leqdb(A)	51.1	39.8			-			Legdb(A)	51.8	40.7		
			Average	44.4	37.9						Average	47.4	37.3		
2	29.09.2023	8NL-13	Maximum	48.4	40.6		45	- 10			Maximum	51.4	39.3	100	77.53
•	19.09.2025	ewer x 3	Minimum	40.3	352	55	45	2	29.09.2023	BNL-14	Minimum	43.4	35.3	55	45
			Legdb(A)	46.2	39.3					1 1	Legdb(A)	49.4	38.2		

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)(Technical Manager)

AUTHORISED SIGNATORY (SHIKHA BHATIYA)

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नवीन कुमार / NAVIN KUMAR का बराजकार (वर्षवरता प्रकार) IDCM (ENVI MONT) प्रमाणिती प्रतिकेश NIPC Limited कोवात वस्त्र परिवेदनाई (COAL MINING PROJECTS हजारीवान / Hazaribog





PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, BTH K.M. MILE STONE, INDUSTRIAL AREA. MEERUT ROAD GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF AUGUST 2023

Name & Address of Customer:

PAKRI BARWADIH COAL MINING PROJECT

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

٨	ONITORIN	G LOCATI	ON :- EXCA	VATION	AREA(WORK 2	ONE)		-		TION :- HA		, -, -, -, -, -, -, -, -, -, -, -, -,)
	NOISE M	ONITORI	NG DATA M	IONTH	OF AUG	UST 202	3		The second second second	THE RESERVE AND ADDRESS OF THE PARTY OF THE	G DATA M	CARLO CONTRACTOR			
SI. No	Date	Monitori ng Code	Description noise level sib(A)	Re	mult	(CPC)/	relards FACTORIE ACT)	St. No	Date	Monitoria g Gude	Description calso level db(A)	Re	essit	(CPCB)	FACTORI ACT)
	-	_		Day	Night	Day	Night				Land of the land	Day	Night	Day	Nigh
			Average	66.8	455						Average	67,1	64.8		
1	01:08:2023	ANL-1	Maximum	70.4	67.7	75/90	Table 1	100			Maximum	69.9	68.1		
	71103113	MINE I	Minimum	63.2	63.2	75/90	70	1	02.06.2023	AN0-2	Minimum	64.2	61.4	75/90	7.0
			(A)db psi.	68.4	56.3						Leg db(A)	68.7	66.6		
			Average	65.9	53.A		1				Average	67.4	63.9		
2	16.08.2023	ANL-1	Maximum	69,1	55.5	75/90				anara.	Maximum	30.6	62.4	1	
	100000000	Total Ca	Minimum	65.6	50.1	75730	70	2	18.08.2023	ANE-2	Minimum	64.2	60 A	75/90	70
			Leg du(A)	67.2	64.9						Lieu (foča)	08.5	65.3		
	MONITORI	NG LOCA	TION :- WA	STE DU	MP,(W	ORK ZOI	NE)		MONITORI	NG LOCATI	ON :- TOP S	OIL DU	MP(WO	RK ZON	E)
SI. No	Oyte	Monitori ng Code	Description roug level db(A)	He	tive	(CPCB/F	dards ACTORIE ACTORIE	SI. No	Oute	Monitori ng Code	Description ninoise level abot)		sidt	Stand (CPCR/F	dards ACTORIE Er)
				Day	Night	Day	Night					Day	Mileta		1
			Vorcettin	69.7	54.4		177.00				Average	56.8	Night 64.4	Day	Night
1	03.08.2023	ANL-3	Maximum	72.2	57.3	tions.	200				Maximum	89.4	66.4		
	64.00.2023	Anus	Miniman	67.2	61.4	75/90	70	Ţ	04.08.2023	ANL 4	Minimum	54.2	623	75/90	20
			leq sb(A)	70.8	55.4						Leq.db(A)	:68.1	65.5		
			Average	65.4	64.1						Average	66.4	64		
7:	19.08.2023	ANL-3	Maximum	6E3	67.5		785		- 12/2/2017/17	Marco I	Maxmum	70.2	67.6		
	HOUSE CONTRACTOR	100000	-1/2X/UVA 1	62.4	60.6	75/90	70	2	20.08.2023	ANL-6	Minimum	62.5	60.4	75/90	70
			Minimum												

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR का बरावकक (पर्वादल प्रवेदन) IDGM (ENVT. MGMT.) एनटीपीसी जानिस्टेश NTPC Limited केवल उत्तन परिवादनाएं/ COAL MINING PROJECTS हजानिसम् / Hazaribag AUTHORISED SIGNATORY (SMIKHA BHATIYA)



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE. 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

MONITORING LOCATION :- DRILLING LOCATION WORK ZONE)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF AUGUST 2023

Name & Address of Customer:

MONITORING LOCATION :- WORK SHOP(WORK ZONE)

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

7 2023	AUGUS	NTH OF	DATA MO	NITORING	NOISE MO				. 115.00	MIN OF	DATA MO	NITORING	NOISE MOI	
Standa (CPC 6/5) RIES A	ult	Res	Description naise level db(A)	Monitorin g Code	Date	SL No.	CTORIES	Stand (CPC8/FA AC	suit	Res	Description noise level db(A)	Monitari ng Cude	Date	51. No
Day	Night	Day		11			Night	Day	Night	Day				
	42.8	65.9	Average						66.2	68.3	Average			
	65,4	69.2	Maximum		2			-0	68.1	70.4	Maximaes		WEEKEN CO.	
75/90	40.2	54.6	Minimum	ANL-B	06.08.2023	1:	20	75/90	64.2	66.2	Minimum	ANI,5	05.08.2073	3
	65.9	67.9	Leg db(A)	1					67.3	69.2	(eq db(A)			
	60,4	62.2	Average						62.5	63.6	Average			
	62.1	:67.7	Maximum						56.8	68.5	Maximum	i		
75/90	38.6	56.7	Minimum	ANL-6	24.08.2023	2	70	75/90	58.2	.58,4	Minimum	ANL-5	21.08.2023	2
	40.6	64.6	Leg db(A)						64.5	65.6	Log eb(A)			
RK ZON	RI) (WC	(NAGA)	SS AREA-1	ation :- P	nitoring Loc	Mo		(ZONE)	V WOR	R CABIN	- OPERATO	Location	Monitoring L	
Standa (CPCB/K/		Res	Description in make level db(A)	Monitori ng Code	Date	SI No.	ACTORE	Stand (CPCA/F	Result		Descriptio n noise level (Ib(A)	Monitor ing Code	Date	SL No.
RIES AC	nut:						C 1							
RIES AC							Nigh	n.	Mane	Press				
	Night 65.8	Clay 66.8	Average		Maria		Nigh 1	Day	Night 62.9	Day 69.2	Average			
RIES AC	Night		Average Maximum		No. 11		Nigh	Some			Average Meximum		220120000	
RIES AC	Night 63.8	66.0		ANL-8	09.08.2023	1	Night 1	Dey 75/90	42.9	69.2	112.02	4NL-7	C8.08.2023	t
Day	Night 65.8	69.3	Maximum	ANL-B	09.08.2023	1	1	Some	66.3	69.2 71.5	Moximum	ANL-7	08.08.2023	t
Day	Night 65.8 67.3	66.0 69.3 64.2	Maximum Minimum	ANL®	09.08.2023	1	1	Some	66.3 59.4	69.2 71.5 66.8	Moximum Minimum	600-7	08.08.2023	t
Day	Night 65.8 67.3 64.2 66.5	69.3 64.2 67.3	Maximum Minimum Leg (h[A]	ANL®	09.08.2023	1	1	Some	65.3 59.4 64.4	67.2 71:5 66.8 70.6	Moximum Minimum Leg db(A)	6NL-7	1 - Except 71 /	
Day	Night 63.8 67.3 64.2 66.5	66.0 69.3 64.2 67.3 69.2	Maximum Minimum Legidh[A] Aserage	ANL-B	09.08.2023 25.08.2023	1 2	1	Some	65.3 59.4 64.4 59.3	67.2 71.5 66.8 70.6	Moximum Minimum Leg db(A) Average	ANL-7	08.08.2023 25.08.2023	1 2

(INTEKHAB KHAN)

नवीन कुमार I NAVIN KUMAR अप महाप्रवयक (पर्यावस्त प्रवायत)। DGM (ENVT: MGMT.)

एनटीजीसी विकिता NTPC Limited ला खनन परिकेलनाएँ/ COAL MINING PROJ**ECTS** हजारीबान / Hazaribag

(SHEKHA BHATIVAL

Page 2 of 4



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF AUGUST 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	III OKING LO	S LOCATION :- PSS AREA-2 (NAGARI) (WORK ZOI MONITORING DATA MONTH OF AUGUST 2023				ONE)	M	ONITORING	LOCATION	:- VILLAGE	KANDA	BER (AN	MBIENT	ZONE	
	NOISE MON	NITORING	DATA MON	TH OF	AUGUS	T 2023			NOISE	MONITORI	NG DATA MO	OHTMO	FAUGU	ST 202	3
51. No.	Date	Monitori ng Code	Description n noise level (b)(A)	Re	rsuit	(CPCB	dards /FACTO (ACT)	SI. N D	Date	Monitorin g Code	Description noise level db(A)	Ro	sult	(CPCB	ndards /FACTO FACT)
				Day	Night	Day	Nigh					82	26982	Sures 1	30.0
			Average	66.7	63.3	Dey	1				Average	Day 50.4	Night 40.4	Day	Nigh
			Maximum	70,9	67.6						Maximum	52.6	44.1		
t	11082023	ANL-9	Minimam	62.5	38.9	75/90	70	1	17.08.2023	BNL-50	Minimum	48.2	36.7	55	46
			Leg sib(A)	68.3	65.3						Leg db(A)	50.8	40.4		
			Average	56.8	59.9						Average	48.4			
			Maximum	71.4	64.3							- 11	38		
2	76.08.2023	ANL-9	Minimum	62.2	100	75/90	70	2	27.08.2023	BML-10	Maximum	50.3	40.7	55	45
			warmer/ue	pre.	55.4					11200	Minimum	46.4	35.3	33	901
			The second second	44.0		1				4	-				
			Leg db(A)	68.7	62.2						Leg db(A)	49.2	39.2		
MONIT	ORING LOC	ATION :- 1				BIENT Z	ONE)	N	ONITORING	LOCATIO	Leg d5(A) N :- VILLAGE			BIENT 2	ZONE)
MONIT	ORING LOC	ATION :- 1 Monitori ng Code		RIKALA		Stan (CPCH/	ONE)	SI. No	ONITORING	Manitorin g Code	10000000	DHENG		Ste (CPCB)	ollards /FACTO
		Monitori	VILLAGE GA	RIKALA	N (AMI	Stan (CPCK/ ES)	FACTOR ACT)	51.		Manterin	N :- VILLAGE Description noise level	DHENG	A (AM	Ste (CPCB)	nelands
		Monitori	VILLAGE GA	RIKALA	N (AMI	Stan (CPCH/	cards FACTOR ACT)	51.		Manterin	N :- VILLAGE Description noise level	DHENG	A (AM	Ste (CPCB)	ollards /FACTOI (ACT)
51. No.	Date	Monitori	Description I noise level db[A]	RIKALA	N (AMI	Stan (CPCK/ ES)	FACTOR ACT)	51.		Manterin	N :- VILLAGE Description noise level db(A)	DHENG	Sat Nghi	Sto (CPC8, 85	ollards /FACTOI (ACT)
		Monitori	Descriptio a noise level db[A]	RIKALA Re Day 47.4	N (AME Night 38.5	Stan (CPCK/ ES)	FACTOR ACT)	51.		Manterin	N :- VILLAGE Description noise level dh(A) Average	DHENG Re Day 46.6	Ngta	Sto (CPC8, 85	ollards /FACTOI ACT)
51. No.	Date	Monitori ng Code	Descriptio s noise level db[A] Average Maximum	RIKALA Re Day 47.4 50.4	N (AMI sult Night 38.5	Stan (CPCN/ ES)	ACTOR ACTOR ACT)	SI. No	Date	Markterin g Coele	Description noise level dh(A) Average Maximum	DHENG fle Day 46.6	Night 39.7	Sta (CPCB, IIS	Postards /FACTOR (ACT)
51. No.	Date	Monitori ng Code	Description is noise level db[A] Average Maximum Minimum	Day 47.4 50.4 44.4	N (AMI Might 38.5 43.2	Stan (CPCN/ ES)	ACTOR ACTOR ACT)	SI. No	Date	Markterin g Coele	Description noise level dh(A) Average Maximum Minimum	DHENG fle Day 40.6 52.5 44.6 49.4	Night 39.7 42.3 37.1 40.5	Sta (CPCB, IIS	Postards /FACTOR (ACT)
51. No.	Date	Monitori ng Code	Description in noise level db(A) Average Maximum Minimum Leq db(A)	Day 47.4 50.4 48.1	N (AMI Might 38.5 43.2 33.8 40.3	Stan (CPCN/ ES)	ACTOR ACTOR ACT)	SI. No	Date	Markterin g Coele	Description noise level db(A) Average Maximum Minimum Lee db(A)	DHENG Re Day 46.6 52.5 44.6 49.4 44.8	Night 39.7 42.3 37.1 40.5 35.2	Sta (CPCB, IIS	Postards /FACTOR (ACT)
51. No.	Date	Monitori ng Code	Description is noise fevel db(A) Average Maximum Minimum Leq db(A) Average	Day 47.4 50.4 44.4 48.1	N (AMI Might 38.5 43.2 33.8 40.3	Stan (CPCN/ ES)	ACTOR ACTOR ACT)	SI. No	Date	Markterin g Coele	Description noise level db(A) Average Maximum Lice db(A) Average Maximum	DHENG Re Day 46.6 52.5 44.6 49.4 44.8	Ngh 39.7 42.3 37.1 40.5 35.2	Sta (CPCB, IIS	(FACTO) (FACTO) (ACT)
SI. No.	Date 13.08.2023	Monitori ng Code	Description is noise fevel db(A) Average Maximum Leq db(A) Average Maximum	Day 47.4 50.4 44.4 48.1 51.4	N (AMI suit 18,5 18,5 18,5 18,5 18,5 18,5 18,5 18,5	Stand (CPCN/ ES) Day	ACTOR ACT) Nigh 1	SI. No	13.08 2023	Monterin g Code BNL-13	Discription noise level (th(A) Average Maximum Minimum Loc (th(A)) Average	DHENG Re Day 46.6 52.5 44.6 49.4 44.8	Night 39.7 42.3 37.1 40.5 35.2	Sto (CPCB, ES Day	PACTOR ACT) Night

(INTEKHAB KHAN)

नवीनं कुमार I NAVIN KUMAR

अप बलापवयक (पर्याचरन प्रकार) / DGM (ENVT. MGMT.) एनटीजीसी विमिट्ड / NTPC Limited कता खनन पश्चिपनाएं। COAL MINING PROJECTS हजारीबान / Hazaribag

AUTHORIE D SIGNATOR (SHIKHWED ATIVE



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF AUGUST 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	м	ONITORING	COCATION :- VIL AMBIENT ZON		SUMBHA				MONITO	RINGLOCA	TION :- BLOCK O		EA [BAR	ABAON	
	NOIS	E MONITOR	ING DATA MON	TH OF AL	JGUST 207	13			NO	SE MONITO	RING DATA MC	NTH OF	AUGUST 2	1023	
SI. No.	Date	Menitori ng Code	Description noise level db(A)	R	esult	(CPCB	dards /FACTO FACT)	SI. No	Date	Manitari ng Code	Description noise level db(A)		esult	[CPCB	rdards /FACTOR/ ACT)
				Day	Night	Day	Night					Day	Night	Day	Night
			Average	49.7	38.9						Average	50.1	39.1		
			Maximum	52.9	42.7						Maximum	53.4	42.9		
1	14.08.2021	BNL-13	Minimum	46.4	35.1	55	45	1	14.08.2023	BNL-14	Minimum	46.8	35.0	55	45
			Leq db(A)	50,7	39,7						Leq db(A)	50.8	39.7		
			Average	43.4	37,7		1		-		Average	46,4	37.5		
			Maximum	47.4	40.3						Maximum	50.4	39.6		
2	28 08 2023	BNL-13	Minimum	39.3	35,1	55	45	2	30.08.2024	BAIL-14	Minimum	42.4	35.4	55	45
			Leq db(A)	45.2	38.7					18	Leg db(A)	48.4	38.2		

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB RHAN)

नवीने कुमार / NAVIN KUMAR व्य महाप्रवयक (पर्यावस्य प्रवयन) / DGM (ENVT. MGMT.) एनटीजीसी विमिद्ध। NTPC Limited

खनन परियोजनाएँ। COAL MINING PROJECTS हजारीबान / Hazaribag

AUTHORISED SIGNATORY (SHIKHA BHATIYA)



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF JULY 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	PAKE	RIBARWA	ADIH COAL	MINING	PROJE	CT			PAK	RIBARWA	DIH COAL	MINING	PROJEC	CT	
M	ONITORING	LOCATIO	N :- EXCAV	ATION	AREA(W	ORK ZO	ONE)		MONITOR	ING LOCA	TION :- HA	UL ROAL) (WOR	K ZONE)
	NOISE N	ONITORI	NG DATA N	HTMO	OF JULY	2023	-				NG DATA N	Market Street, Street, St.			
SI. NO	Date	Monitori ng Code	Description noise level db(A)	Res	suit	(CPCB/I	dards FACTORIE ACT)	SI. No	Date	Manitoria g Code	Description noise level db(A)	Result		Stan (CPCB/	dands FACTOR ACT)
				Day	Night	Day	Night			SY.		Day	Night	Day	Nigh
			Average	66.0	62.1		7110000				Average	89.9	62.8	-	-
	02.07.2023	200	Maximum	68.3	64.3		1000	Tito I	489201004.57	10000	Maximum	71.4	64.8	lana.	0.825
1	UCAT JUES	ANL-1	Minimum	63.6	59.8	75/85	70	1	05:07:2023	ANL-2	Minimum.	08.3	60.8	75/85	70
			Legdb(A)	67.2	62.9					-	Legdb(A)	70.2	63.3	1	
		- 3	Average	67.7	54.7						Average	67.2	60.5		
	16.07.2023	200.0	Maximum	70.2	67.5	75/85	-		(Anna anna an		Maximum	70.2	63.2	1	
2	16.07.2023	ANL:1	Maimum	65.2	51.8	75/85	70	2	17.07.2023	ANL-2	Molmum	65.2	57.8	75/85	70
		4 3	Legdb(A)	68.6	66.1						Legdb(A)	68.2	62.2	+	
				44.00								25,552			
	MONITORIN	NG LOCAT	ION :- WAS	TE DUN	MP.(WO	RK ZON	E)		MONITORIN	IG LOCATI	ON :- TOP S	SOIL DU	MP(WO	RK ZON	E)
SI. Na	MONITORIN	Mositori ng Code	Description noise level db(A)		MP,(WO	Stan (CPCB/F	E) dards ACTORIE (CT)	SI, No	MONITORIN	Monitori ing Code	ON :- TOP S Descriptio n noise level db(A)		MP(WO	Stand (CPC8/F.	farth ACTORIE
20162		Monitori	Description noise level			Stan (CPCB/F	dards ACTORIE	51.		Monitori	Descriptio n noise			Stand (CPCB/F: S.A	ACTORIE CT)
SOLES!		Monitori	Description noise level	Re	suit	Stan (CPCB/F	dards ACTORIE (CT)	51.		Monitori	Descriptio n noise	Re	tult	Stand (CPCB/F	farits ACTORIE
St. Na	Oate	Monitori ng Code	Description noise level db(A)	Re	Night	Stan (CPCB/F 5.7 Day	dards ACTORIE ACT) Night	SI. No	Oste	Monitori ng Code	Descriptio n noise level db(A)	Re	sult Night	Stand (CPCB/F: S.A.	ACTORIE CT)
20162		Monitori	Description naise level db(A)	Day 64.2	Night 61.0	Stan (CPCB/F	dards ACTORIE (CT)	51.		Monitori	Descriptio n noise level db(A)	Day 69,4	Wight 64.3	Stand (CPCB/F: S.A	ACTORIE CT)
St. Na	Oate	Monitori ng Code	Description naise level db(A) Average Maximum	Day 64.2 65.6	Night 61.0 62.5	Stan (CPCB/F 5.7 Day	dards ACTORIE ACT) Night	SI. No	Oste	Monitori ng Code	Description noise level db(A) Average Maximum	Day 69.4 70.9	Night 64,3 86.5	Stand (CPCB/F: S.A.	ACTORIE CT)
St. Na	Oate	Monitori ng Code	Description noise level db(A) Average Maximum Minimum	Day 64.2 65.6 62.8	Night 61.0 62.5 59.3	Stan (CPCB/F 5.7 Day	dards ACTORIE ACT) Night	SI. No	Oste	Monitori ng Code	Description noise level db(A) Average Meximum Minimum	Day 69,4 70.9 67,8	Might 64,3 65,5 62,1	Stand (CPCB/F: S.A.	ACTORIE CT)
St. No	Oate 05:07.2023	Monitori ng Code ANL-3	Description noise level db(A) Average Maximum Minimum Leqdb(A)	Day 64.2 65.6 62.8 64.9	Night 61.0 62.5 59.3 61.8	Stan (CPCB/5 5 / Day 75/85	dards ACTORIE ACT) Night 70	SI. No.	Oste 03.07.2023	Monitori ng Code	Description noise level db(A) Average Meximum Minimum Laqdb(A)	Day 69,4 76.9 67.8 70.2	Might 64.3 66.5 62.1 65.3	CPCB/F SA Day	ACTORIE CT)
St. Na	Oate	Monitori ng Code	Description noise level db(A) Average Maximum Minimum Leqdb(A) Average	Cay 64.2 65.0 62.8 64.9	Night 61.0 62.5 59.3 61.8 63.7	Stan (CPCB/F 5.7 Day	dards ACTORIE ACT) Night	SI. No	Oste	Monitori ng Code	Description noise level db(A) Average Maximum Minimum Leqdb(A)	Day 69,4 70.9 67.8 70.2 65.6	Might 64,3 86.5 62.1 65.3 57.3	Stand (CPCB/F: S.A.	ACTORIE CT) Night

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR
का बहामध्ये (पूर्वाटल प्रवेशन) IDGM (ENVT. MGMT)
का बहामध्ये (पूर्वाटल प्रवेशन) IDGM (ENVT. MGMT)
कारीवीसी स्वितेश NTPC Limited
कारत अन्य परिवादनार्थं COAL MINING PROJECTS
हजाविद्यान / Hazaribag

AUTHORISED SIGNATORY (ARVIND KUMAR)

Page 1 of 4



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 6TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	MONITORIN	NG LOCAT	ION :- WOR	K SHO	P(WOR	(ZONE)		MO	NITORING L	OCATION	:- DRILLING	G LOCA	TION(W	ORK Z	ONE)
	NOISE M	ONITORII	NG DATA M	ONTH	OF JULY	2023			NOISE M	ONITORIN	NG DATA M	ONTH	OFJULY	2023	en control
St. Ne	Date	Monitori ng Code	Description noise level db(A)	Re	sult	Stand (CPCB/FA AC	CTORIES	SI. No.	Date	Monitorin g Code	Description neise level db(A)	ites	iult	Stand (CPCB/ RIES	FACTO
				Day	Night	Day	Night					Day	Night	Day	Nig
			Average	65.9	58.4		1112				Average	68.4	64.6		
		CANDA	Maximum	69.3	60,1						Maximum	70.2	66.5		1
1	09:07:2023	ANL-5	Minimum	62.4	56.6	75/85	70	1	10.07.2023	ANL-6	Minimum	66.6	62.6	75/85	70
			Legdb[A]	67.5	59,4						Legdb(A)	69.1	65.1		1
			Average	67.8	62.8						Average	68.4	66.8		-
2	20.07.2023	ANI-S	Maximum	70.4	66.3						Maximum	71.9	69.6		
*	20/07/2021	ANUS	Minimum	65.2	59.3	75/H5	70	2	22.07.2023	ANLE	Minimum	64.9	63.9	75/85	70
	Monitoring	Location	Legdb(A)	R CABII	64.9 N(WOR	K ZONE)		Mo	nitoring Lo	cation :- P	Legdb(A) PSS AREA-1	69.8 (NAGA	68.3 RI) (WC	ORK ZO	NE)
St. No.	Monitoring Date	Moniter Ing Code		and the latest and th	4000	Stan (CPCB/	dards FACTORI ACT)	Mo Si No.	nitoring Lo	Monitori ng Code	and the second second	(NAGA	2000	Stand (CPCB/ RISS	lards FACTO
		Monitor	Description	R CABII	N(WOR	Stan (CPCB/	dards FACTORI	Si		Monitori	Description noise	(NAGA	RI) (WC	Stand (CPCB/	lards FACTO ACT)
		Monitor	Description noise level db[A]	Day 70,3	Nesult Night 66.4	Stan (CPCs/I	dards FACTORI ACT)	Si		Monitori	Description noise	(NAGA	RI) (WC	Stand (CPCB/ RISS	lards FACTO ACT)
		Monitor Ing Code	Description noise level db[A] Average Maximum	Day 70.3 72.3	Result Night 66.4 68.9	Stan (CPCR/I ES /	dards FACTORI ACT) Nigh	SI No.	Date	Monitori ng Code	Description noise level db(A)	Re	RI) (WC	Stand (CPCB/ RISS	lards FACTO ACT)
St. No.	Date	Monitor	Description noise level db[A] Average Maximum Minimum	Day 70.3 72.3 68.2	Night 66.4 68.9 63.8	Stan (CPCs/I	dards FACTORI ACT)	Si		Monitori	Description noise level db(A) Average	Re Day 68.5	Night 65.6 67.7 63.5	Stand (CPCB/ RISS	lards FACTO ACT)
St No.	Date	Monitor Ing Code	Description noise level db(A) Average Maximum Minimum Legdb(A)	Day 70.3 72.3 68.2 71.11	Nesult Night 66.4 68.9 63.8 67.3	Stan (CPCR/I ES /	dards FACTORI ACT) Nigh	SI No.	Date	Monitori ng Code	Description noise level db(A) Average Maximum Logdb(A)	Day 68.8 70.6 66.9	Night 65.6 67.7 63.5 66.2	Stand (CPCB/ RISS Day	lards FACTO ACT)
St No.	Date	Monitor Ing Code	Description noise level db(A) Average Maximum Minimum Leqdb(A) Average	Day 70,3 72,3 68,2 71,1 69,1	Night 66.4 68.9 63.8 67.3 63.2	Stan (CPCR/I ES /	dards FACTORI ACT) Nigh	SI No.	Date	Monitori ng Code	Description noise level db(A) Average Maximum Minimum	Day 68.8 70.6 66.9	Night 65.6 67.7 63.5	Stand (CPCB/ RISS Day	lards FACTO ACT)
SI No.	Date 10:07.2023	Monitor ing Code	Description noise level db(A) Average Maximum Minimum Legdb(A)	Day 70.3 72.3 68.2 71.11	Nesult Night 66.4 68.9 63.8 67.3	Stan (CPC8// ES / Day 75/85	dards FACTORI ACT) Nigh	Si No.	Date	Monitori ng Code	Description noise level db(A) Average Maximum Logdb(A)	Day 68.8 70.6 66.9	Night 65.6 67.7 63.5 66.2	Stand (CPCB/ RISS Day 75/8 5	ACTO ACT) NEgr
St. No.	Date	Monitor Ing Code	Description noise level db(A) Average Maximum Minimum Leqdb(A) Average	Day 70,3 72,3 68,2 71,1 69,1	Night 66.4 68.9 63.8 67.3 63.2	Stan (CPCR/I ES /	dards FACTORI ACT) Nigh	SI No.	Date	Monitori ng Code	Description motive level db(A) Average Maximum Minimum Leqdb(A) Average	Day 68.8 70.6 66.9 69.3 68.0	Night 65.6 67.7 63.5 66.2 65.8	Stand (CPCB/ RISS Day	lards FACTO ACT)

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीन छुमार / NAVIN KUMAR क बतावक (वर्षत्त्व प्रवान) IDGM (ENVT. MGMT.) एनटीजीसी त्वाकेट्डा NTPC Limited कोवस खन्न परिकेटनाई/ COAL MINING PROJECTS हजारीबान / Hazaribag

AUTHORISED SIGNATORY (ARVIND KUMAR)





PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE. 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

MON	ITORING LO	CATION :-	PSS AREA-2	(NAG	ARI) (W	ORK ZO	NE)	MI	INITORING	LOCATION	:- VILLAGE I	KANDA	BER (AN	BIENT	ZONE
	NOISE M	ONITORIN	G DATA MO	O HTMC	FJULY2	023			NOISE	MONITOR	ING DATA N	HTMON	OF JULY	2023	
51. No.	Date	Monitori ng Code	Descriptio n noise level db(A)	Re	sult	Stand (CPCB/ RIES	FACTO	SL N	Date	Monitorin g Code	Description noise level db(A)	Re	sult	(CPCB)	dards FACTOR ACT)
				Day	Night	Day	Nigh		- 11 11			Day	Night	Day	Night
			Average	68.5	64.3					100	Average	47.5	36.7		
	W	22243	Maximum	70.9	67.4		1				Maximum	50.4	39.5		
3	14.07,2023	ANI-9	Minimum	66.	61.2	75/85	70	1	12.07.2023	BNL-10	Minimum	44.6	33.9	55	45
			Legdb(A)	69.4	65.9						Legdb(A)	48.1	37.7		
			Average	69.5	64.3						Average	48.6	37.5		
	10000000000		Maximum	72.6	67.8			-			Maximum	51.3		1.4	
2	31.07.2023	ANL-9	Minimum	66.5	90.7	75/85	70	2	26.07.2023	BN1-10	Minimum	45.9	40,4	55	45
			Legdb(A)	70.8	65.6					-	100000000000000000000000000000000000000				
				The state of	1000						Legib(A)	49.8	39.5		
MONI	ORING LOC	ATION :- \	/ILLAGE GAI	RIKALA	N (AME	BIENT Z	ONE)	N	ONITORIN	G LOCATIO	N :- VILLAGE	DHENG	A (AM	BIENT	ONE)
SI. No.	Date	Monitari ng Cade	n noise level db(A)	Re	sult	Stand (CPCB/)	ACTOR	SI. No	Date	Monitorin g Code	Description noise level db(A)	Re	sult	(CPCB)	ndards /FACTOR ACT)
				Day	Night	Day	Nigh.					Day	Night	Day	Nigh
			Average	49.2	39.2						Average	47.2	36.3		
	12.07.2023	6NL-11	Maximum	52.6	43.4						Maximum	49.3	37.8		
1	12.01.2023	Borr, TT.	Minimum	45.8	34,9	55	45	1	13/07.2023	6NL-12	Minimum	45.3	34.7	35	45
			Leqdb(A)	51.2	42.2						Legdb(A)	48.4	37.1		
			Average	49.0	37.7						Average	46.2	36.4		
2	27.07.2023	BNL-11	Viaximum	51,3	41.2	55	700	~	200 200 2002	mbu an	Maximum	50.2	40.5		10245
190	100100000000000000000000000000000000000	100000000000000000000000000000000000000	Minimum	46.7	34.2	33	45	3	28.07.2023	BNL-12	Minimum	42.2	36.2	55	45
			Legdb(A)	50.5	39.5						Legdb(A)	48.6	39.0		I

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR
क बरावधक (वर्षतल प्रवेश) IDCM (ENVT. MGMT.)
एनटीवीसी स्थानिकेश NTPC Limited
केवल अन्य परिकारतार्गं COAL MINING PROJECTS
हजाविद्यान / Hazaribag

AUTHORISED SIGNATORY

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PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF JULY2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	M	ONITORING	LOCATION :- VIL (AMBIENT ZON		SUMBHA)			MONITO	RING LOCA	RON :- BLOCK C		EA (BAR	AGAON	
	NO	HSE MONITO	DRING DATA MO	NTH OF	JULY2023				N	OISE MONIT	ORING DATA N	ONTH O	F JULY 20	23	
SI. No	Date ng Code db(A) Result (CP)				(CPCB	/FACTO	SL No	Date	Monitori ng Code	Description noise level db(A)	В	esult	(CPCB)	ndards /FACTOR (ACT)	
				Day	Night	Day	Night					Day	Night	Day	Night
			Average	48.2	38.9				/		Average	50.3	36.7		11001000
1	13.07.2023	8NL-13	Maximum	51.5	43.5	55	45			***	Maximum	53,3	38.9	200	00010
	12.07.6063	3140-73	Minimum	44.8	34.3	35	45	1	14.07.2023	BNL-14	Minimum	47.2	34.4	55	45
			Legab(A)	49.3	40.3						Legdo A	52.1	37.5		
			Average	47.8	38.5						Average	47,3	36.6		
2	30.07.2023	BNL-13	Maximum	49.6	40.4	55	45	-	*****		Maximum	49.3	38.7		1000
	20.01.2023	0140-13	Minimum	45.9	36.6	22	40	2	30.07.2023	BNL-14	Minimum	45.2	34.5	55	45
			Legdb(A)	48.	39.1						Leqdb(A)	49.3	37.5		

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR

क बरायक्षक (प्रवीदन्त प्रवान) i DCM (ENY) MGMT.) एनटीजीवी तिविदेश NTPC Limited कोवला खनन परिकालकी COAL MINING PROJECTS हणाविवान / Hazaribog AUTHORISED SIGNATORY (ARVIND KUMAR)

Page 04of 04





PLOT NO. 4, KHASRA NO. 45. OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 [U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF JUNE 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

Date Date Date	Monitori ng Code	ON:- EXCA ING DATA I Description noise level db(A) Average Maximum	Day 72.1 74.3	Night 64.0	Stan (CPC8//	dards ACTORIE KT]	SI. No	MONITOR	ING LOCA	TION :- HAI NG DATA N	UL ROA	D (WOR	ZONE,	
Date	Monitori ng Code	Description noise level db(A) Auerage Maximum	Day 72.1 74.3	Night 64.0	Stan (CPC8/F S /	ACTORIE (CT)		NOISE	MONITORI	NG DATA N	HTMON		2023	
	ng Code	noise level db(A) Auerage Maximum	72.1 74.3	Night 64.0	(CPC8/F	ACTORIE (CT)			The State Control	Description	111.	OT JUILE	-	direction.
01.06.2021	ANL-1	Maximum	72.1	64.0	Day		1111		g Code	noise level db(A)	Constant I		(CPCB/	FACTORI FACTORI ACT]
01.06.2021	ANL-1	Maximum	743	-		Night					Day	Night	Day	Night
01.06.2023	ANL-1	111111111111111111111111111111111111111		1000		-				Average	70.2	63.3		-
	(A) (COS)	Minimum		66.1	75/90	70		DESCRIPTION NAMED	200-0	Miolmam	74.5	64.8		
			69.9	61.8	12/20	10	1	02.06.2023	ANI-2	Minimum	65.8	61.8	75/90	70
		Legob(A)	73.1	62,9						Legrio(A)	72.4	63.9	1	
		Average	71.7	84.7						Average	680	62.5		-
16.06.2023	ANICH	Maximum.	74.2	67.5	The second					Maximum	70.7	67.1		
0.00.2023	-MANUAL	Minimum	69.2	61.8	75/90	70	2	17.06.2023	ANL-2	Minimum	0.00	100000	75/90	70
	N.	Leggb(A)	72.5	65.1	-						65.2	57.8		- 33
ONITORII	NETOCA	TION - INA	75	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						Lendh(A)	69.8	64.6		
ONTOKI	VG LUCA	HUN :- WA	STEDU	MP,(WC	DRK ZON	NE)		MONITORIN	IG LOCATE	ON :- TOP S	OIL DU	MP(WO	RK ZON	E)
Date	Monitari ng Code	Description motic level ob(A)	H)	sult	(CPCB/F	ACTORIE	și. No	Date	Monitori ng Code	Description in noise level db(A)	Ret	iult	(CPCB/F/	ACTORIE
			Day	Night	Bay	Night		-			:Day	Night	10.2	7000
		Average	69.7	59.0		-		7		Auproso	76353	3.00	Day	Night.
3.06.2029	AMI-T	Maximum	72.6	8.08		-	110	Contract Contract	ARRIVA B	The state of the s	125777	-		
- NAME OF THE OWNER, OW	2006/40	Minimum	65.8	58.4	75/90	70	1	04.06.2023	ANL-I	100000000000000000000000000000000000000	1.40/9/2	LATE TO BE	75/90	20
		Legdb(A)	75.4	60.1							1000	10000		
		Average	70.0	61.2						Average	68.8	63.8		
8.06.2023	ANLSE	Maximum	72.9	65.4	and the same	CAX.			(German)	Maximum	73.4	65.6		
	A STATE OF THE PARTY OF THE PAR	Minimum	57.1	55.9	75/90	70	2	19.06.2023	ANL4	NO. ST. VICTOR	10,500	1000	75/90	70
	- 1	(A)dhpsJ	71.2	64.7						-	(5)575	277.77		
	Date:	Date Monitori rig Corie	Date Monitori nobe level ob(A) Average Maximum Monimum Legob(A) Average Maximum Monimum Legob(A) Average Maximum Minimum Minimum Minimum	Date Menitari mobile level m	Date Menitari moise level ob(A)	Date Monitoria Process Proce	Date Monitori mose level CPCB/FACTORIE S ACT) CPCB/FACTORIE CPCB/FACTORIE S ACT) CPCB/FACTORIE CPCB/FACTORIE CPCB/FACTORIE S ACT) CPCB/FACTORIE CP	Date Menitori Description Hosult Standards St. (CPCB/FACTORIE No. SACT) St. No. SACT) SACT)	Date Menitari moise level moise leve	Date Maximum Description Hesult (CPCB/FACTORIE No Date Monitori Ng Code CS(A) Day Night Day Night Ng Code Ng Code	Date Maritani moise level cb(A) Day Night Day Night Date Monitori n noise level cb(A) Day Night Day Night Day Night Day Night Day Day	Date Maritari mosc level cb(A) Standards S	Date Description Result Standards Standards	Date Manitori Presult Standards St. Date Monitori In noise Presult Standards St. Date Monitori In noise Presult Standards St. Date Presult Standards Date Presult Standards Date Date Presult Standards Date Date Date Presult Date Da

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN) नवीनं कुमार । NAVIN KUMAR का महाप्रकारक (पर्वावरण प्रकारन) । DGM (ENVT. MGMT.) एनटीजीसी विकिता NTPC Limited ला खनन परिकारनारी/COAL MINING PROJ**ECTS** हजारीबाग / Hazaribag

AUTHORISED SIGNATORY (SHIKHA BHATIYA)





PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF JUNE 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	MONITORIN	NG LOCAT	TON :- WOR	RK SHOP	P(WOR	(ZONE)		MO	NITORING I	OCATION	:- DRILLING	SLOCA	TION(W	ORKZ	ONE
	NOISE M	ONITORI	NG DATA M	ONTH	OF JUNE	2023					G DATA M				
SI. No.	Date	Menitori ng Code	Description noise level db(A)	Re	sult	Stand (CPCB/FA		SL No.	Date	Monitorin g Code	Description noise level db(A)	Res		Stand (CPCB/ RIES	FACTO
				Day	Might	Day	Night					Day	Night	Day	Nigh
			Auerage	65.1	64.8						Average	70.9	64.9	001	-
1	05.06.2023	ANL5	Maximum	70.1	58.4	75/90	70		10.00.000		Maximum	72.8	67.4	22,075	5,000
	Manager 1	0.0000	Minimum	1,08	61.2	13530	20	1	06.06.2023	ANL-6	Minimum	64	62.9	75/90	20
			Legdb(A)	68.5	56.						Legdb(A)	71.5	66.1		
			Average	70.5	90.2						Average	71.05	52.8		
2	20.06.2029	AND 5	Maximum	71.7	52.8	75/90	70	2	21 27 2022		Maximum	74.2	54.8	54.8	I
		2000	Minimum	69.2	57.6	1000	40		21.06.2023	ANU-6	Minimum	67.3	64.8 60.7 75/90	75/90	70
			Leodh(A)	70.9	51.4					1	A SHOULD SEE	140.00	1000		
				7 4 4 4	The second second						Legib(A)	72.8	63.6		
	Monitoring	Location		7 4 4 4	The second second	K ZONE)		Mo	nitoring Lo	cation :- P	and the second second	2755	2000	ORK ZO	NE)
000	Monitoring Date	Monitor ing Code		7 4 4 4	The second second	Stan (CPCB/	dards FACTORI ACT	Mo Si No.	nitoring Lo	Monitori ng Code	and the second second	(NAGA	2000	Stand (CPCB/I	lards PACTO
002		Monitor ing	Descriptio	7 4 4 4	N(WOR	Stan (CPCB/	dards FACTORI	34		Montori	Description neotie	(NAGA	RI) (WC	Stand (CPCB/I RIES)	ands FACTO ACT)
000		Monitor ing	Description noise level db(A)	Day	Result	Stan (CPCB/I	dards FACTORI ACT Nigh	SE No.		Montori	Description neotie	(NAGA)	RI) (WC	Stand (CPCB/I	lards PACTO
000		Monitor ing	Description norse level db(A) Average Maximum	tlay 70.7 72.9	N(WOR	Stan (CPCB/I ES /	dards FACTORI ACT Nigh 1	SE No.	Date	Montori ng Code	Description n noise level dt(A)	(NAGAI	RI) (WC	Stand (CPCB/I RIES)	racto ACT) Nigne
SI. No.	Date	Monitor ing Code	Description norse level db(A) Average Maximum Minimum	tay 70.7 72.9 68.4	Night 65.4 68.6 62.1	Stan (CPCB/I	dards FACTORI ACT Nigh	SE No.		Montori	Description n noise involved (A)	Re Day 70.2	Night 64.5	Stand (CPCB/I RIES)	ands FACTO ACT)
St. No.	Date	Monitor ing Code	Description noise level db(A) Average Maximum Mnimum Leudb(A)	Day 70.7 72.9 68.4 71.8	Night 65.4 68.6 62.1 66.9	Stan (CPCB/I ES /	dards FACTORI ACT Nigh 1	SE No.	Date	Montori ng Code	Description n noise level dt(A) Average Maximum	Re Day 70.2 73.5	Night 64.5	Stand (CPCB/I RIES)	racto ACT) Nigne
Si. No.	Date	Monitor ing Code	Description norse level db(A) Average Maximum Minimum	tay 70.7 72.9 68.4	Night 65.4 68.6 62.1	Stan (CPCB/I ES /	dards FACTORI ACT Nigh 1	SE No.	Date	Montori ng Code	Description ninoise level dt(A) Average Maximum Minimum	Re Day 70.3 73.5 66.8	Night 64.5 63.4 63.5	Stand (CPCB/I RIES)	racto ACT) Nigne
51. No.	Date 07:06:2923	Monitor ing Code	Description noise level db(A) Average Maximum Mnimum Leudb(A)	Day 70.7 72.9 68.4 71.8	Night 65.4 68.6 62.1 66.9	Stan (CPCB/I ES / Day 75/90	dards FACTORI ACT) Nigh 1	55 No.	Date 08.05.2023	Montori ng Code	Description ninoise level db(A) Average Maximum Minimum Legab(A)	Ne Day 70.2 73.5 66.8 71.5	Night 64.5 63.5 64.9	Stand (CPCB/I RIES)	racto ACT) Nigne
Si. No.	Date	Monitor ing Code	Description n noise level db(A) Average Maximum Minimum Lendb(A) Averago	tay 70.7 72.9 68.4 71.8 70.4	Night 65.4 68.6 62.1 66.9 63.4	Stan (CPCB/I ES /	dards FACTORI ACT Nigh 1	SE No.	Date	Montori ng Code	Description ninoise involved (dt(A) Average Maximum Minimum Lendb(A) Average	Re Day 70.2 73.5 66.8 71.5 67.5 69.2	Night 64.5 63.4 63.5 64.9 66.8	Stand (CPCB/I RIES)	racto ACT) Nigne
Si No.	Date 07:06:2923	Monitor ing Code	Description noise level db(A) Average Mainturn Leqdb(A) Average Maximum Minimum Leqdb(A) Average Maximum	tlay 70.7 72.9 68.4 71.8 70.4 74.1	Night 65.4 68.6 62.1 66.9 63.4 68.6	Stan (CPCB/I ES / Day 75/90	dards FACTORI ACT) Nigh 1	55 No.	Date 08.05.2023	Montori ng Code	Description ninoise involidation in noise involidation in noise involidation in ninoise involidation in ninoise involidation in ninoise involidation in ninoise in ni	Day 70.2 73.5 66.8 71.5 67.5	Night 64.5 65.4 63.5 64.9 66.8	Stand (CPCD/ RIES.) Day	Nage

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीने कुमार / NAVIN KUMAR का बहामध्ये (वर्षत्त्व प्रवान) | DGM [ENVT. MGMT] कारीवीसी स्टास्टेंड / NTPC Limited कोसस खन्न परिवास्त्वरी COAL MINING PROJECTS

हजारीबान / Hazaribag

AUTHORISED SIGNATORY (SHIKHA BHATIYA)





PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, BTH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201 003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF JUNE 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

IVIO	ITORING LO						ONE)	M	ONITORING	LOCATION	:- VILLAGE	KANDA	BER (AN	ABIENT	ZONE
	NOISE MC	NITORIN	G DATA MO	NTHO	F JUNE 2	2023	211				ING DATA N				
SI, No.	Date	Monitori ng Code	Descriptio mnoise level db(A)	Be	Month	(CPCB)	dards (FACTO ACT)	SI. N	Date	Manitoria g Code	Description noise level db(A)	100	esult	Sta (CPCB	ndants /FACTOR
				Day	Night	Day	Nigh					Day	Night	Day	1000
			Average	18.7	65.3					100	Average	50	32.7	Lay	Night
1	15.06.2023	ANL9	Maximum	73.5	69,4	1					Maximum.	54.4	41.5		
		1000	Minimum	63.8	61.2	75/90	70	1	10.06.2023	BNL-10	Minimum	45.6	33.8	35	45
			Legdb(A)	70.6	67.2						Lendb(A)	52.3	39.5		
			Average	70.1	63.3					-	Average	50.1	TEST YES		
		THE STREET	Maximum	73.E	65.8						Maximum	-	38.65		
2	30.06.2023	ANL-0	Marimum	66.5	90.7	75/90	70	2	25.06.2029	9NL-50		54.3	42.8	36	45
			Legdb(A)	71.8	64.6						Minimum	45.9	34.5		- 35
MONI	TORING LOC	ATION V				uraer a			227000000000		Legdb(A)	2179	40.5		
(IIVENIA)		anon -		KIRALA	N (AIVE	SIENT Z	ONE)	IV	ONITORIN	G LOCATIO	N :- VILLAGE	DHENG	A (AMI	BIENT 2	ONE)
SI. Np.	Date	Monitori ng Code	Description noise level db(A)	Re	sult	Stand (CPCR/I	ACTOR	SI. No	Da)e	Monitorio g Code	Description noise level rib(A)	Re	tiue	(CPCB)	ndards FACTOR ACT)
				Day	Night	Day	Nigh					Day	Night	Dav	Night
			Average	47.5	38.9						Average	49.7	40.8	COY	reigna
1	11.05.2023	BNL-11	Maximum	49.2	42.9	-	W	lays 1	0.000000000		Macoum.	54.1	44,8		
			Minimum	45.8	34.9	55	45	1	12.05.2023	BNL-12	Minimum	45.3	36.7	.55	45
			Leadb(A)	48.2	A0.6						Légdb(A)	52.6	42.5		
			Average	48.7	39.4						Average	47.4	40.4		
2	26.06.2023	BNI-11	Maximum	50,6	44.6	55	45	-			Maximum	52.6	41.5		
			Minimum	46.7	34.2	32	142	2	27,06.3028	BNL-12	Minmum	42.2	39.2	55	45
			Legdb(A)	49.2	41.6										

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR का महास्थक (पर्वादन प्रवेश) DGM (ENVT. MGMT.) का महास्थक (पर्वादन प्रवेश) NTPC Limited कोवला सन्त्र परिवादनप्रे (COAL MINTS) PROJECTS हणाविसार / Hazaribag

AUTHORISED SIGNATORY (SHIKHA BHATIYA)

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PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201 003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF JUNE 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	М	DNITORING	LOCATION :- VIL AMBIENT ZON		SUMBHA				MONITO	ORING LOCA	TION :- BLOCK (EA (BARH	AGADN	ı
	NO	ISE MONITO	FING DATA MO	NTH OF	UNE 2023				, N	DISE MONIT	ORING DATA M	ONTHO	FJUNE 20	23	
SŁ Na.	Date	Monitori ng Code	Description noise level db(A)	Re	sult	(CPC)	ACT)	SI. No	Date	Monitori ng Code	Description noise level db(A)		esult	Sta (CPC8,	ndards /FACTOR
				Day	Night	Day	Night					Day	Night	Day	Night
			Average	47.72	39.15						Average	50.9	36.7	22.5	
1	13.06.2023	BNL-13	Maximum	50.5	43.9	- 22	100	8			Maximum	54.6	42.9		
	13.00.2003	B191-43	Minimum	43.8	34,4	55	45	1	14 06,2023	BNL-14	Minimum	47.2	34.4	55	45
			Legdb(A)	48.4	40.3						Legdb(A)	52.8	43.3		
			Average	49.3	39.5						Average	49,8	38.1		
2	20.05.000	200000	Maximum	52.6	42.4						Maximum	53,4	40.7		
2	28.05.2023	BNL-13	Minimum	45.9	36.6	55	45.	2/	29.06.2023	BNL-14	Minimum	0.335	-0.50	55	45
			Legdb(A)	51.1	40.9		1					46.2	35.5		
_			STREET, STREET	27.32	2000				1.		Legdb(A)	51.9	39.9		

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY

नवीन कुमार / NAVIN KUMAR क महाज्यक (पर्वादल प्रवंदन) DGM (ENVY: MGMT.) एनटोजीसा ह्वास्ट्रेड/ NTPC Limited

एनटीपीसी जिन्मदेश NTPC Limited कोवल खन्न परिपालनाई/ COAL MINING PROJECTS हजारीबाच / Hazaribag AUTHORISED SIGNATORY (SHIKHA BHATIYA)

Page 04 of 04



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE. 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF MAY 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	PA	(RI BARW	ADIH COAL	MININ	G PROJ	ECT			PAI	(RI BARW)	ADIH COAL	MINING	PROJE	CT	
A	ONITORIN	G LOCATI	ON :- EXCA	VATION	AREA(WORK Z	ONE)		MONITOR	ING LOCA	TION :- HA	UL ROA	D (WOR	K ZONE	1
	NOISE I	MONITOR	ING DATA	MONTH	OFMA	Y 2023	- 2				NG DATA				
SI. No	Date	Monitori ng Code	Description noise level db(A)	Re	sult	(CPCB/	ACT)	SL No	Date	Monitorin g Code	Description noise level db(A)	Result		Stan (CPCB/	dards FACTORI
_				Day	Night	Day	Night					Day	Night	Day	Nigh
			Average	69.1	65.6	1			- 6	100	Average	69.4	62.3		
1	01.05.2023	ANL-1	Maximum	72.3	68.3		1007	201	100000000000000000000000000000000000000	64.000	Maximum	70.3	63.8	1	
	01.03.6013	ANUL	Minimum	65.9	62.8	75/90	70	1	02.05.2023	ANL-2	Minimum	68.4	60.8	75/90	70
			Leqdb(A)	70.9	66.9	1					Legdb(A)	69.8	62.9	1	
	110-10-		Average	71.2	64.2						Average	70.5	62		
	16.05.2023	ANL-1	Maximum	73.2	66.5		2000		SCHOOLS SEE		Maximum	75.7	66.2	1	
2	10.03.2025	AML-L	Minimum	69.2	61.8	75/90	70	2	17.05.2023	ANL-2	Minimum	65.2	57.8	75/90	73
			Legdb(A)	71.6	65.1	1					Leadb(A)	72.8	63.2	-	
1	MONITORI	NG LOCA	TION :- WA	STE DU	MP,(WC	ORK ZON	VE)		MONITORIN	IG LOCATI	***************************************			DV TON	E)
_											DIT - TOP 3		MIFINED	KK ZUN	
S. No	Date	Monitori ng Code	Description noise level db(A)	Re	sult	(CPCB/F	derds ACTORIE ACT)	SL No	Date	Monitori ng Code	Description naise		sult	Stand (CPCB/Fr	lards ACTORIE
	Date	2000	noise level	Re	sult	(CPCB/F	derds ACTORE	1000		Monitori	Descriptio n noise			Stand (CPCB/F/ S A	fords ACTORIE CT)
	Date	2000	noise level			(CPCB/F	derds ACTORIE ICT)	1000		Monitori	Descriptio n noise level db(A)	Re	sult	Stand (CPCB/Fr	lards ACTORIE
No		ng Code	noise level db(A)	Day	Night	(CPCB/F S A Day	dards ACTORE (CT) Night	No	Date	Monitori ng Code	Descriptio n noise	Re	sult Night	Stand (CPCB/F/ S A	fords ACTORIE CT)
	03.05.2023	2000	noise level db(A)	Day 70.2	Night 64.0	(CPCB/F	derds ACTORIE ICT)	1000		Monitori	Description noise level db(A)	Re Day 70.9	sult Night 63.8	Stand (CPCB/F/ S A	fords ACTORIE CT)
No		ng Code	noise level db(A) Average Maximum	Day 70.2 74.6	Night 64.0 65.6	(CPCB/F S A Day	dards ACTORE (CT) Night	No	Date	Monitori ng Code	Description noise level db(A) Average Maximum	Day 70.9 73.9	Night 63.8 65.5	Stans (CPCB/Fr 5 A	fords ACTORIE CT)
No		ng Code	noise level db(A) Average Maximum Minimum	70.2 74.6 65.8	Night 64.0 65.6 62.3	(CPCB/F S A Day	dards ACTORE (CT) Night	No	Date	Monitori ng Code	Description nucleon level db(A) Average Maximum Minimum	Per Day 70.9 73.9 67.8	Night 63.8 65.5 62.1	Stans (CPCB/Fr 5 A	fords ACTORIE CT)
1	03.05.2023	ng Code	noise level db(A) Average Maximum Minimum Leqdb(A)	70.2 74.6 65.8 72.4	Night 64.0 65.6 62.3 64.1	(CPCB/r S.A Day 75/90	derds ACTORE (CT) Night	No 1	O4.05.2023	Monitori ng Code	Description nuclear level db(A) Average Maximum Minimum Leqdb(A)	Day 70.9 73.9 67.8 72.2	Night 63.8 65.5 62.1 64.1	Stans (CPCB/Fr 5 A	fords ACTORIE CT)
No		ng Code	Average Maximum Minimum Leqdb(A) Average	70.2 74.6 65.8 72.4 69.5	Night 64.0 65.6 62.3 64.1 60.7	(CPCB/F S A Day	dards ACTORE (CT) Night	No	Date	Monitori ng Code	Description noise level db(A) Average Maximum Minimum Leqdb(A) Average	70.9 73.9 67.8 72.2 70.1	Night 63.8 65.5 62.1 64.1 63.8	Stans (CPCB/Fr 5 A	fords ACTORIE CT)

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN) नवीने कुमार I NAVIN KUMAR क्ष बहाप्रकार (पर्यावरण प्रकार)। DGM (ENVT MGMT.) एनटीजीसी त्यांबेटडा NTPC Limited

हाराजारा सम्बद्धानारी/COAL MINING PROJ**ECTS** हजारीबाप / Hazaribag

AUTHORISED SIGNATORY (ARVIND KUMAR)

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PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

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MoEF&CC Recognized Environmental Laboratory

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Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	MONITORII	NG LOCAT	ION :- WO	RK SHO	P(WOR	(ZONE)		MO	NITORING I	OCATION	:- DRILLING	G LOCA	TION(W	ORK Z	ONE)
	NOISE M	ONITORII	NG DATA M	ONTH	OF MAY	2023			NOISE M	ONITORIN	NG DATA M	ONTH	OF MAY	2023	
SL No	Date	Monitori ng Code	Description roise level db(A)	Re	seit	(CPCS/FI	lards CTORIES (T)	Si. No.	Date	Monitorin g Code	Description noise level db(A)	Res	uit	Stans (CPCB/ RIES	
				Day	Night	Day	Night		81.			Day	Night	Day	Nig
			Average	68.3	66.4			-	1 10 1		Average	72.2	66.1	-	1
1	05.05.2023	ANL-5	Maximum	74.1	70.1	75/50	70	- 2	06.05.2023	ANL-6	Maximum	75.4	68.5		
10500	GONDARGES	ALC:	Minimum	62.4	62.6	15/30	70	1	06.05.2023	ANL-5	Minimum	68.9	63.6	75/90	70
			Legob(A)	72.5	68.2	1 1				100	Legdb(A)	73.8	67.1		
		-	Average	72.3	59.7						Average	70.9	66.8		
2	20.05.2023	ANL-5	Maximum	75.4	61.8	75/90	70	2	21.05.2023	ANL-6	Maximum	73.9	69.6		1
			Minimum	69.2	57.6	12/30	/0		21.05.2025	ANT-0	Minimum	67.9	63.9	75/90	70
			Leqdb(A)	73.1	60.9						Legdb(A)	71.8	68.1		
	Monitoring	Location	- OPERATO	R CABI	N WOR	(ZONE)		Mo	nitoring Lo	cation :- P	SS AREA-1	(NAGA	RI) (WC	ORK ZO	NE)
SI. No.	Date	Monitor Ing Code	n noise level db(A)		Result	(CPCB/I	dards ACTORI ACT)	Si No.	Date	Monitori ng Code	n noise level db(A)	Re	sult	Stand CPCB/ RIES	FACTO
				Day	Night	Day	Nigh t					Day	Night	Day	Nigh
			Average	70.4	66.9	000		51			Average	70.8	65.5		
1	07.05.2023	ANI-T	Maximum	72.5	69.9	75/90	70		08.05.2023	ANL-8	Maximum	74.6	67.4		1000
1.00	(01,00,000)	10000	Minimum	68.2	63.8	rayau	. 70	1	CB.05.2023	ANIL-0	Minimum	66.9	63.5	75	70
			Leqdb(A)	71.6	68.1						Leqdb(A)	72.5	66.5		
			Average	70.8	63.9		-				Average	70.5	66.3		
			Maximum	75.7	69.6				THE RESERVE THE PARTY OF THE PA		Maximum	75.2	68.9		
2	22.05.2023	ANL-7	Minimum	65.9	58.1	75/90	70	2	23.05.2023	ANL-8	Minimum	65.8	63.7	75	70
			Leadb(A)	72.1	64.9	1					Legdb(A)	73.7	67.2		

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN) ज्वीन कुमार / NAVIN KUMAR क बहानकार (पर्वादल प्रकार) IDCM (ENVY MGMT) एनटीजीस स्वितेश NTPC Limited केवल खरू परिकेटनारी COAL MINING PROJECTS हजारीबान / Hazaribag

AUTHORISED SIGNATORY (ARVIND KUMAR)





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M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

MON	ITORING LO	CATION :-	PSS AREA-	2 (NAG	ARI) (W	ORK Z	ONE)	M	ONITORING	LOCATION	:- VILLAGE	KANDA	BER (AN	MBIENT	ZONE
	NOISE M	ONITORIN	G DATA MO	O HTMC	F MAY	2023			NOISE	MONITOR	RING DATA N	HTMON	OF MAY	2023	
SI, No.	Date	Monitori ng Code	Descriptio n noise level cb(A)	Re	sut	(CPCB)	derds /FACTO ACT)	SI. N	Date	Monitorin g Code	Description noise level db(A)	R	esult	(CPCR	ncierds /FACTOR S ACT)
				Day	Night	Day	Migh t			10		Day	Night	Day	Night
			Average	68.5	64.8					9 1	Average	48.5	39.2		1119011
240	15.05.2023	ANL-9	Maximum	73.2	68.4	1	1,000	884	33344554355	1	Maximum	51.4	44.5	221	1.5
1	, , , , , , , , , , , , , , , , , , ,		Minimum	63.8	61.2	75/90	70	1	10.05.2023	BNL-10	Minimum	45.6	33.9	55	45
			Leadb(A)	70.4	66.1						Legob(A)	49.1	42.1		
			Average	70.1	62.8						Average	49.6	39.65		-
	****	****	Maximum	73.6	64.8		Star	-	212-023-04-04-04-04	and the same of	Maximum	53.3	44.8		
2	30.05.2023	ANL-9	Minimum	66.5	60.7	75/90	70	2	25.05.2023	BNL-10	Minimum	45.9	34.5	55	45
			Legdb(A)	71.8	63.6						Legdb(A)	51.8	42.5		
MONI	ORING LOC	ATION :- V	ILLAGE GA	RIKALA	N (AME	HENTZ	ONE	N	ONITORING	LOCATIO	N :- VILLAGE		7	RIENT	ONE)
SI. No.	Date	Monitori ng Code	Descriptio n noise level db(A)		sult	Stand (CPCB/V	dards FACTOR	SL No	Date	Monitorin g Code	Description noise level db(A)		suit Com	Ster (CPCB)	ndards /FACTORI
				Day	Night	Day	Nigh					Dey	Night	Day	Night
			Average	50.5	39.4				1		Average	49.2	40,3	Col	1418111
	11.05.2023	SNL-11	Maximum	55.2	43.9	(dtp.)	1566	133			Maximum	53.1	43.8		
1	11.05.2025	944-11	Minimum	45.8	34.9	55	45	1	12.05.2023	BNL-12	Minimum	45.3	36.7	55	45
			Legdb(A)	522	40.2						Legdb(A)	50.6	40.5		
			Average	52.7	39.9						Average	48.7	41.9		
	25.05.2022	BNL-11	Maximum	58.6	45.6	55	45	2		440.714	Maximum	55.6	44.5	Access 1	DAME:
2	26.05.2023	DIAP. TT.								40001-37	and the second s	the second section is a second second			
2	29.00.2023	DISE II	Minimum Legdb(A)	46.7 54.2	34.2 42.6	25	42	*	27.05.2023	BNL-12	Minimum	42.2	39.2	55	45

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN) नवीन कुमार / NAVIN KUMAR
क स्वापनक (पर्वादन प्रवाद) DGM (ENVT. MGMT.)
एनटीजीनी त्वादेश NTPC Limited
केवल खन्न परियोजनी COAL MINING PROJECTS
हजारीसा / Hazaribag

AUTHORISED SIGNATORY (ARVIND KUMAR)

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Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	M	ONITORING	LOCATION :- VIL (AMBIENT ZON	20000	SUMBHA				MONITO	ORING LOCA	(AMBIENT Z		EA (BARK	AGAON	M I
	NO	ISE MONITO	RING DATA MO	NTH OF	MAY 2023				. N	OISE MONIT	TORING DATA N	ONTHO	F MAY20	23	
SI. No.	Date	Monitori ng Code	Description noise level db(A)	Re	sult	(CPCB	ndards s/FACTO s ACT)	SI. No	Date	Monitori ng Code	Description noise level db(A)	н	esult	(CPCS	ndards /FACTOR ACT)
				Day	Night	Day	Night			100		Day	Night	Day	Night
- 1	- 7		Average	49.7	41.3						Average	50.4	39.2		
1	13.05.2023	BNL-13	Maximum	53.5	43.8		45		00000000	2000	Maximum	53.6	43.9		1000
•	19/00/2029	0147-13	Minimum	45.8	38.8	55	45	1	14.05.2023	BNL-14	Minimum	47.2	34.4	55	45
			Leqdb(A)	50.6	42.2						Legdb(A)	51.8	40.3		
			Average	48.6	39.0						Average	50.8	41.1		
2	28.05.2023	BNL-13	Maximum	51.6	41.4		45				Maximum	56.3	46.7		
*	100012923	ant-13	Minimum	45.9	36.6	55	45	2	29.05.2023	BNL-14	Minimum	45.2	35.5	55	45
			Legdb(A)	50,1	40.6						Legdb(A)	52.9	43.9		

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN) नवीन कुमार / NAVIN KUMAR
का बताबक (प्रवेदन प्रकार) DGM [ENVT. MGMT.]
कारी तिस्टिंग NTPC Limited
कोस्त वन परिकारनी COLA MINING PROJECTS
हजारीबार / Hazaribog

AUTHORISED SIGNATORY

Page 04 of 04





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	PAR	RI BARW	ADIH COAL	MININ	G PROJE	CT			PAR	RI BARWA	DIH COAL	MINING	PROJEC	T	
N	ONITORIN	G LOCATI	ON :- EXCA	VATION	AREA(NORK ZO	DNE)		MONITOR	ING LOCA	TION :- HAL	JL ROA	O (WOR	KZONE	1
	NOISEN	MONITOR	ING DATA N	HTMON	OF APR	IL 2023					NG DATA M	-		and the second	
SI. No	Data	Mositori ng Code	Description noise level db(A)	Re	sult	(CFCB/F	dende ACTORIE (CT)	SL No	Oate	Monitorin g Code	Description noise level eb(A)		sult	State (CPCB/	durds FACTORI ACY]
			-	Day	Night	Day	Night		1		2,000	Day	Night	Day	Nigh
			Average	58.0	65.1						Average	65.6	62.9		-
1	01.04.2023	ANL-1	Maximum	71.8	67.4	000000	7.64	20	0.024.00000	2008000	Madmom	67.E	64.8	1 Veno	
	- STATE OF THE STA	P/N;-1	Minimum	64.1	62.7	75/90	70	1	02.04.2023	ANL-2	Midmum	63.6	60.9	75/90	30
			Leq db(A)	69.7	€5.9	1					Leq db(A)	16.1	65.7	1	
			Average	71.0	15.5						Average	68.5	54	-	-
	15.04.2023	24.5	Maximum	72.8	69.1						Maximum	73.1	68.1		
2	12/04/5/99	ANL-1	Minimum	69.1	61.8	75/90	70	2	16.04.2023	ANU-2	Minimum	63.5	59.9	75/90	70
			Leg db(A)	71.4	66.1						Lea db(A)	69.7	65.1	-	
	MONITORI	NG LOCA	TION :- WA	STE DU	MP,(WC	ORK ZON	(E)		MONITORIN	IG LOCATI	100000000000000000000000000000000000000	355.0	277.5	RK ZON	EV
51.	Date	Monitori	Description noise level		sult	Stand	iands	SL	Date	Monitori	Descriptio		sult	-0.000000	Sards.
No		ng Code	db(A)	14111		(CPCB/V)		No	Date	ng Code	in noise level db(A)			(CPCR/F/ 5 A	
		ng Code		Day	Night			No	Date	ng Code	W. W. W.	Day	Ngh	(CPCR/F/ 5 A	E7)
		ng Code		Day 69.2	Night	5 (4)	CT)	No	Date	ng Code	level db(A)	Day 69.4	Nghi 65.2	(CPCR/F/	(דם
No	DI 54 3055		db(A)	1225	1.78	5 Av	CT) Night		25000000	1020046	W. W. W.			(CPCR/F/ 5 A	(דם
	03.04.2023	ng Code	db(A) Average	69.2	63.3	5 (4)	CT)	No 1	04.04.2023	ng Code	kwel db(A) Average	69.4	65.2	(CPCR/F/ 5 A	ET)
No	03.04.2023		db(A) Average Maximum	69.2 71.6	63.3 65.2	5 Av	CT) Night		25000000	1020046	Average Maximum	69.4 71.2	65.2 67.2	(CPCR/F/ S A	CT) Night
No	03.04.2023		db(A) Average Maximum Minimum	69.2 71.6 66.8	63.3 65.3 61.4	5 Av	CT) Night		25000000	1020046	Average Maximum	69.4 71.2 57.5	65.2 67.2 63.1	(CPCR/F/ S A	CT) Night
No.		ANI,-3	db(A) Average Maximum Minimum Leq db(A)	69.2 71.6 66.8 70.1	63.3 65.3 61.4 64.1	5 Av Day - 75/90	Night 70	1	04 04 2023	ANL-4	Average Maximum Leq db(A)	69.4 71.2 57.5 79.1	65.2 67.2 63.1 66	(CPCR/F/ S A	CT) Nigh
No	03.04.2023		db(A) Average Maximum Minimum Leq db(A) Average	69.2 71.6 66.8 70.1 68.7	63.3 65.3 61.4 64.1 63.7	5 Av	CT) Night		25000000	1020046	Average Maximum Minimum Leq db(A) Average	69.4 71.2 57.5 70.1 69.5	65.2 67.2 63.1 66 65.1	(CPCR/F/ S A	CT) Night

FOR GLOBAL ENVIRO LABORATORIES

CHECKED'BY (INTEKHAB KHAN) नवीन कुमार / NAVIN KUMAR का बहाराक्षक (पर्वादना प्रकार) IDGM (ENVT. MGMT.) एनटीचीची स्टाफेट्ट NTPC Limited कोवला खनन परिचादनारी COAL MINING PROJECTS हजारीबाग / Hazaribag

AUTHORISED SIGNATORY



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	MONITORIN	IG LOCAT	ION :- WOR	K SHOP	WOR	(ZONE)		MO	NITORING I	LOCATION	:- DRILLING	S LOCA	TION W	ORK Z	ONE)
	NOISE MO	NITORIN	G DATA MO	O HTMC	F APRIL	2023			NOISE MO	ONITORIN	G DATA MO	O HTMC	FAPRIL	2023	200022
Si. No	Date	Monitori ng Code	Description noise level de(A)	Res	soft	Stend CPCB/FA AC	CTORIES	SL No.	Date	Monitorin g Code	Description noise level sib(A)	Rus	últ.	Stand (CPCB/ RIES/	FACTO
		20- 11		Day	Night	Day	Night					Day	Night	Day	Nut
			Awriage	58.5	00.5	1	1,5000		1		Average	70,9	86.B		
1	05.04.2023	ANL-S	Maximum	71.5	69.1	75/90	70	:5	06.04.2023	ANU6	Maximum	72.8	67.9		
	2000000	(0.000)	Minimum	65.8	63.8	12(196)	OAR	.9	06.04.2023	ANUE	Minimum	58.9	55.2	75/90	70
			Leg db(A)	69.5	67.1						Leg db[A]	71.8	62.1		
			Average	72.0	62.5						Average	70.7	86.3		
2	19 04 2023	ANLIS	Maximum	74.6	67.3	75/90	20	2	200 000 00000	200000	Maximum	73.3	98.7	and the second	100
	2004.0002	MADE	Minimum	69.4	57.7	19140	20	- 2	20.64.2023	ANU-6	Minimum	68.1	63.6	25/90	70
			Leg db(A)	73.1	64.9						Leq db[A]	71.8	67.5		
3	Monitoring I	Location :	- OPERATO	R CABI	W WOR	K ZONE)		Mo	initoring Lo	cation :- F	SS AREA-1	(NAGA	RI) (WO	ORK ZO	NE)
u, No.	Date	Monitor ing Code	Description n noise level db(A)		Result	(CPCH/	etares Factori ACT)	SI No.	Date	Montari ng Code	Description n noise level db(A)	Re	sut	Stand (CPCH/ BIES	DISM
				Day	Night	Day	Nigh					Day	Night	Day	high
			Average	70.7	65.5						Average	69:4	65.9	Long	- niggs
1	07.04.2023	ANL-7	Maximum	73.1	57.8	75/90		0	148 404 200	19000000	Maximum	71.8	68.3	ores	
	91,01,0002	VARIAGE	Minimum	58.2	63.9	75/90	70	1	08.04.2023	ANL8	Minimum	66.9	63.5	75	70
			Les db(A)	71.1	66.2						Leg db(A)	70.2	56.8		
			Average	69.0	59.2						Average	68.9	55.8		
	AL IN THE		Maximum	72.4	60.8	1	L				Maximum	71.8	67.4		
2	21.04.2023	ANL-7	Minimum	55.6	57.6	75/90	70	2	22.04.2023	ANL-8	Mishign	68.9	64.2	75	70
			Leg db(A)	70.1	60.9	+				1	Leg db(A)	69.7	56.6		

FOR GLOBAL ENVIRO LABORATORIES

(INTEKHAB KHAN)

नवीन कुमार / NAVIN KUMAR का स्टायाव्ये (वर्षादन प्रकार) IDGM (ENYT MGMT.) वन्दीवीती जित्तेक्ष्ट INTPC Limited केवल द्वार विवेद्यात्मी (COLL MINING PROJECTS हजारीबार / Hazaribog AUTHORISED SIGNATORY (ARVIND KUMAR)



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 (U.P.)

MOBILE: +91-9810317145, +91-8826028116

E-mail: global_enviro@rediffmail.com, globalenvirolab@gmail.com

MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF APRIL 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

MON	ITORING LO	CATION :	PSS AREA-2	(NAG	ARI) (W	ORK ZO	ONE)	MO	DNITORING	LOCATION	:- VILLAGE	KANDA	BER (AN	BIENT	ZONE
	NOISE MO	NITORING	DATA MO	NTH OF	APRIL	2023			NOISE	MONITOR	ING DATA M	IONTH (OF APRIL	2023	1111(0001)
\$1. No.	Date	Monitori ng Code	Descriptio n noise level db(A)	Re	sult	Stand (CPCB/ RHS	FACTO	51, N 0	Date	Monitorin g Code	Description noise level db(A)	Re	sult	(CPCB)	rdards /FACTOR ACT)
				Day	Night	Day	Nigh					Day	Night	Day	Night
			Average	69	63.2	-					Average	51.15	40.9		
	08.04.2023	ANL-9	Maximum.	73,2	66.4		- 25		500000000		Maximum	53.4	44.6	32	
1	08:04.2023	ANU-9	Minimum	54.8	60.0	75/90	70	3	09.04.2023	BNL-10	Minimum	48.9	37.1	55	45
			(A)db pn.)	70,4	64.5						Let db(A)	51.2	41.0		
			Average	70.9	63.4			_		-	Average	49.5	39		
			Maximum	73.4	65.9						Maximum	53.2	43.2		
2	22.04.2023	ANE-9	Minimum	68.4	60.8	79/90	70	2	23.04.2023	BNL-10	Minimum	45.8	34.8	55	45
			Log db(A)	71.7	64.6					1.00	Leg db(A)	50.8	41.5		
MONE	TORING LOC	ATION :- 1		- YEAR !	1200	HENT 7	ONE	B	ONITORINA	CLOCATIO	N :- VILLAGE			DIFACE	DOME !
Si. No.	Date	Monitori ng Code	Descriptio n noise level db(A)		sult	Stend (CPCB/I	ards FACTOR	SI. No	Date	Monitorin g Code	Description noise level db(A)		arq	Sta (CPCB)	ndards /FACTOR
		/ //:-		Day	Night	Day	Nigh t					Day	Night	Day	Nigh
			Average	47.6	38.0						Average	48.5	40.0	- way	regre
	10.04.2023	HN1-11	Maximum	53.2	41.8						Maximum	55.8	43.1		
1	swiptishes	nst-11	Minimum	43.9	34.1	55	45	1	11.04.2023	BNL-12	Minimum	45.2	36.8	55	45
	1		Leg cb(A)	48.1	38.6						Leg db(A)	49.2	40.5		
												77.75	775		
			Average	50.8	39						Averses	47.7	39.3		
,	24.04.2024	BNL-13	Average Maximum	50.8 54.3	39 43.8						Average Maximum	47.2 52.1	39.2 43.2		-
3	24.04.2023	HNL-13	10000	2.7.7	-	55	4S	2	25.04.2023	BNL-12			39.2 43.2 35.1	55	45

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY

नवीन कुमार / NAVIN KUMAR का बारावक (पर्वदक प्रवान) DGM (ENVT. MGMT.) एनटीर्गाता (स्तिकेट) NTPC Limited कोवात सन्त परिवानवीं/ COAL MINING PROJECTS रुपाचेवार्ग / Hazaribag

AUTHORISED SIGNATORY (ARVIND KUMAR)



PLOT NO. 4, KHASRA NO. 45, OPPOSITE SHREE MANAN DHAM TEMPLE, 8TH K.M. MILE STONE, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD -201003 [U.P.]

MOBILE: +91-9810317145, +91-8826028116

E-mail: global_enviro@rediffmail.com, globalenvirolab@gmail.com

MoEF&CC Recognized Environmental Laboratory

NOISE LEVEL MONITORING SUMMARY REPORT FOR THE MONTH OF APRIL 2023

Name & Address of Customer:

M/S. PAKRI BARWADIH COAL MINING, NTPC LTD. LANGTU, BARKAGAON, HAZARIBAGH, JHARKHAND (INDIA)

	M	ONITORING	LOCATION :- VII (AMBIENT ZOI		SUMBHA				MONITO	ORING LOCA	(AMBIENT ZO		EA (BARK	AGAON	
	NO	SE MONTOR	ING DATA MOR	NTH OF A	PRIL 202	3			NO	ESE MONITO	DRING DATA MO	ONTH OF	APRIL 2	023	
Si. No.	Date	Monitori ng Code	Description noise level db(A)		esult	(OPCE	ndards VFACTO S ACT)	SI. No	Date	Monitori ng Code	Description noise level db(A)	P	esult	(СРСВ	ridards /FACTOR
				Day	Night	t Day Night					Day	Night	Day	Night	
			Average	49.5	19.3						Average	50.1	89.0	2207	000000
¥	17.04.2023	BNL-13	Maximum	53.1	43.8	-	100				Maximum	52.9	48.1		
1	Children	0145-73	Minimum	45.8	34.8	55	45	1	13.04.2023	BNL-14	Minimum	67.2	34.9	55	45
			Leq db(A)	50.6	40.2					100	Leg db(A)	50.8	403		
			Average	50.9	38.8						Average.	48.2	38.7		
2.	2E-D4-2023	(INL-13	Maximum	54.6	41.2	-	400		1.000 TO 100 TO	10000000	Maximum	51.2	42.8		
700	55.07.6060	0.415.73	Morimum	47.2	36.4	55	45	2	27.04.2023	BNL-14	Minimum	45.2	34.6	55	45
			Leq db(A)	521	39.6						Leg db(A)	49.9	39.9		

FOR GLOBAL ENVIRO LABORATORIES

CHECKED BY (INTEKHAB KHAN) AUTHORISED SIGNATORY

Page 4 of 4

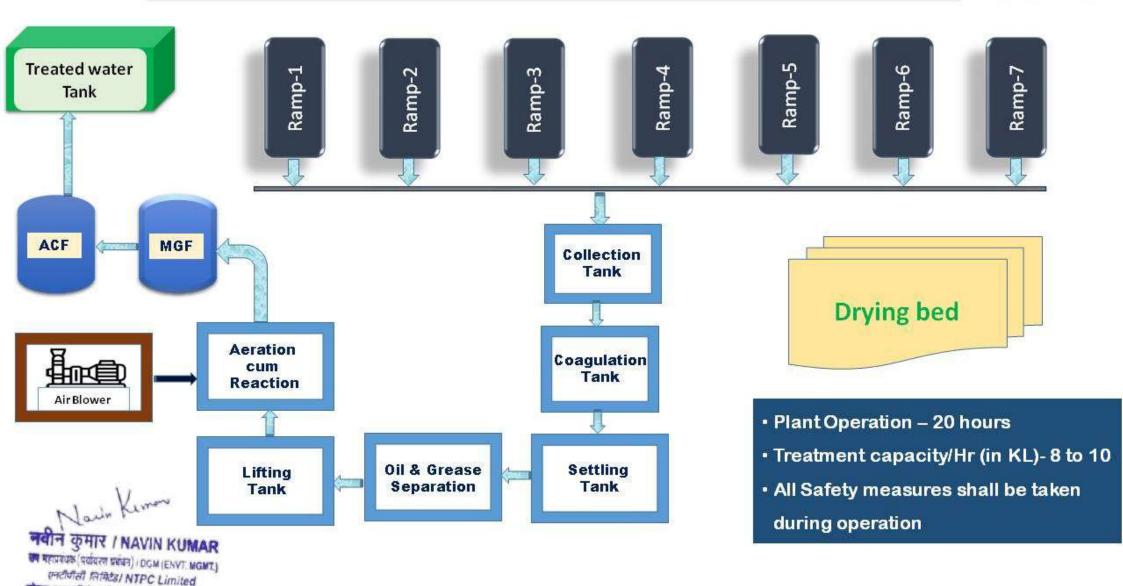
नवीन कुमार / NAVIN KUMAR क बहारवार (प्रवेदल प्रवेदन) IDGM (ENVT. MGMT.) प्राथितीती तालक्षेत्र INTPC Limited केवल अन्य परिकेदलरी COAL MINING PROJECTS हजावेदान / Hazaribag



वेबल खनन परिकेजनार्/ COAL MINING PROJ**ECTS** हजारीबाच / Hazaribag

Flow Diagram of 200 KLD Effluent Treatment Plant PAKRI BARWADIH COAL MINING PROJECT







NTPC LIMITED PAKRI BARWADIH COAL MINING PROJECT

IMS OPERATIONAL CONTROL PROCEDURE

Environment Management Group

EFFLUENT TREATMENT PLANT

DOC NO :EMP - 3 /15
REVESION NO: 0
DATE
PAGE: 1/2

- PURPOSE: This procedure defines the guidelines for effluent treatment plant activities to ensure ecofriendly environment.
- SCOPE: This Procedure is applicable to all the personnel involved in the activities of all effluent treatment plants.
- RESPONSIBILITY: HOD-Mechanical and Environment is responsible to ensure that the applicable procedures are followed.

4. PROCEDURE:

- Ensure that the workers and helpers are wearing all the applicable PPEs while doing the oil servicing.
- Ensure the HEMM (Heavy Earth Moving Machines) are mainly washed on the designated washing ramps.
- Ensure that the used water is collected and diverted to the main chamber of ETP center.
- Ensure that the used water come to the 1"chamber.
- Ensure in the 1schamber that the waste oils separated by floating mechanism from thank to 3stank.
- Ensure that the remaining water with oil content comes to 2rd tank.
- Ensure that the oil is collected manually and kept for safe disposal to CPGB authorized dealer.
- Ensure that the filtration tank should be made up off 4 layers of filtrating materials.
- Ensure that the bottom most part is covered with boulders which are 30-80mm diameter and extents
 up to 1 feet height.
- Ensure that the there should be 1 feet of height of charcoal layer is laid down. Then 1 feet height layer of graded sand (5-8mm) is spread over that
- Ensure that in between each layer there is a filtrating net which will result into better filtration and recovery of water from the mixed form.
- Ensure that the treated water should go out and is used for plantation purposes.
- Ensure the proper disposal of the waste oils after collection and should be disposed to the CPCB authorized reprocesses.
- Applicable PPEs: Safety shoes: Helmet, Gloves etc.
- ENVIRONMENTAL IMPACT: Soil and water pollution in case of spillage of waste oils while collection.

CORRECTIVE ACTION IN CASE OFDEVIATION:

 If there is spillage of oil or grease, while washing collect the waste oil and grease in the specified barrels

Prepared by Reviewed by Approved by Engg (Envt.Mngt.) DGM (Envt.Mngt.) AGM (Envt. Mngt &S/IT/FES)

नवीन कुमार / NAVIN KUMAR
क बहायको (प्रवीदन्त प्रवीवन) IDGM (ENVT. MGMT.)
व्यविद्यासी (स्वीवेड) NTPC Limited
केवल खनन परिकारनाई (COAL MINING PROJECTS
हणाउँचान / Hazaribog



NTPC LIMITED PAKRI BARWADIH COAL MINING PROJECT

IMS OPERATIONAL CONTROL PROCEDURE

Environment Management Group

EFFLUENT TREATMENT PLANT

DOC NO :EMP - 3 /15
REVESION NO :0
DATE
PAGE: 2/2

- Instruct the people to work according to operational criteria if there is any deviation.
- Access the first aid kit and if required transfer him to hospital for further treatment based on the magnitude of the Injury.

8. CORRECTIVE ACTION IN CASE OF DEVIATION:

- If there is any deviation in the process of the ETP, it should be checked.
- 9. CROSS REFERENCE IF ANY:
- ETP manual.
- Waste oil register
- Service center register

10. REVISION HISTORY:

Brief details of the Revision

Prepared by Approved by Approved by Engg (Envt.Mngt.) DGM (Envt.Mngt.) AGM (Envt. Mngt & S/IT/FES)

Pollution Under Control Certificate

Authorised By:

Government of Jharkhand

Date : 07/04/2023 Time : 17:33:06 PM Validity upto : 06/10/2023



Certificate SL. No. : JH00400080020749

Registration No. : JH02AQ1654

Date of Registration : 21/Apr/2017

Month & Year of Manufacturing : March-2017

Valid Mobile Number : *****5555

Emission Norms : BHARAT STAGE III

Fuel : DIESEL PUC Code : JH0040008

GSTIN

Fees : Rs.300.00

(GST to be paid extra as applicable)

MIL observation : N

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 (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	СО	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	2.02

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



Pollution Under Control Certificate

Authorised By:

Government of Jharkhand

Date : 07/04/2023 Time : 15:48:16 PM Validity upto : 06/10/2023



Certificate SL. No. : JH00400080020717

Registration No. : JH02AD7499

Date of Registration : 19/Sep/2014

Month & Year of Manufacturing : August-2014

Valid Mobile Number : ******5555

Emission Norms : BHARAT STAGE III

Fuel : DIESEL PUC Code : JH0040008

GSTIN

Fees : Rs.300.00

(GST to be paid extra as applicable)

MIL observation : N

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 (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	СО	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	2.4

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



Pollution Under Control Certificate

Authorised By:

Government of Jharkhand

Date : 22/02/2023 Time : 15:08:29 PM Validity upto : 21/08/2023



Certificate SL. No. : JH00400080019078

Registration No. : JH10CP1452

Date of Registration : 25/Nov/2013

Month & Year of Manufacturing : September-2013

Valid Mobile Number : ******9281

Emission Norms : BHARAT STAGE III

Fuel : DIESEL PUC Code : JH0040008

GSTIN

Fees : Rs.300.00

(GST to be paid extra as applicable)

MIL observation : N

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 (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	СО	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.39

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



Pollution Under Control Certificate

Authorised By:

Government of Jharkhand

Date : 19/06/2023 Time : 17:20:13 PM Validity upto : 18/12/2023



Certificate SL. No. : JH00400080023142

Registration No. : OD09A9699

Date of Registration : 26/May/2015

Month & Year of Manufacturing : April-2015

Valid Mobile Number : ******5555

Emission Norms : BHARAT STAGE III

Fuel : DIESEL PUC Code : JH0040008

GSTIN

Fees : Rs.120.00

(GST to be paid extra as applicable)

MIL observation : N

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 (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	СО	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	2.24

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

नवीन कुमार / NAVIN KUMAR क महास्थक (पर्वादल प्रकार) IDGM (ENYT MGMT) जनतीयीली जित्तकेट / NTPC Limited केवल खन्म पीचीजनारी COAL MINING PROJECTS हणारीबान / Hazaribag

Pollution Under Control Certificate

Authorised By:

Government of Jharkhand

Date : 10/07/2023 Time : 11:47:39 AM Validity upto : 09/01/2024



Certificate SL. No. : JH00400080024007

Registration No. : JH01AU5799

Date of Registration : 22/Aug/2012

Month & Year of Manufacturing : August-2012

Valid Mobile Number : ******5555

Emission Norms : BHARAT STAGE III

Fuel : DIESEL PUC Code : JH0040008

GSTIN

Fees : Rs.120.0

(GST to be paid extra as applicable)

MIL observation : N

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 (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	СО	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	2.28

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://vahan.parivahan.gov.in



Occupational health related compliances Format to be included in Monthly Reports For the month of March -2023

A: Status of IME/PME:

S. No.	Medical Exam	No. of Persons required to undergo medical examination (Mar2023)	Medical Examination Conducted upto last month (Jan'23 to Mar'23)	Medical Examination conducted in the month (March-2023)	Balance Medical Examination to be conducted in the year
1	IME	52	91	52	0
2	PME	809	421	275	388
3	Radiological Tests	61	0	0	61
4	Eye Refraction Test	458	0	0	458

B: Stool Tests and sputum for AFB and chest radiography conducted for canteen workers.

S. No.	No. of Persons employed in canteen	Details of tests conducted during current year	Next due Date/ Remarks
1	87	0	24.12.2023

C: Details of portability test for drinking water : -

	Details of Last test conducted	
	Sample location	PBCMP, Langatu
1.	Date of Sampling	16. 01.2023
	Testing Date	18.01.2023
	Report results	Portable
2.	Next Due results	15.04.2023



Occupational health related compliances Format to be included in Monthly Reports For the month of February-2023

A: Status of IME/PME:

S. No.	Medical Exam	No. of Persons required to undergo medical examination (Feb-2023)	Medical Examination Conducted upto last month (Jan'23 to Feb'23)	Medical Examination conducted in the month (Feb-2023)	Balance Medical Examination to be conducted in the year
1	IME	26	39	26	0
2	PME	227	146	50	81
3	Radiological Tests	61	0	0	61
4	Eye Refraction Test	458	0	0	458

B: Stool Tests and sputum for AFB and chest radiography conducted for canteen workers.

S. No.	No. of Persons employed in canteen	Details of tests conducted during current year	Next due Date/ Remarks
1	87	0	24.12.2023

C: Details of portability test for drinking water : -

	Details of Last test conducted	
	Sample location	PBCMP, Langatu
1.	Date of Sampling	16. 01.2023
	Testing Date	18.01.2023
	Report results	Portable
2.	Next Due results	15.04.2023



Occupational health related compliances Format to be included in Monthly Reports For the month of January-2023

A: Status of IME/PME:

S. No.	Medical Exam	No. of Persons required to undergo medical examination (Jan2023)	Medical Examination Conducted upto last month (Jan'23 to Jan'23)	Medical Examination conducted in the month (Jan-2023)	Balance Medical Examination to be conducted in the year
1	IME	13	13	13	0
2	PME	227	96	96	131
3	Radiological Tests	61	0	0	61
4	Eye Refraction Test	458	0	0	458

B: Stool Tests and sputum for AFB and chest radiography conducted for canteen workers.

S. No.	No. of Persons employed in canteen	Details of tests conducted during current year	Next due Date/ Remarks
1	87	0	24.12.2023

	Details of Last test conducted	
	Sample location	PBCMP, Langatu
1.	Date of Sampling	16. 01.2023
	Testing Date	18.01.2023
	Report results	Portable
2.	Next Due results	15.04.2023



Occupational health related compliances Format to be included in Monthly Reports For the month of December -2022

A: Status of IME/PME:

S. No.	Medical Exam	No. of Persons required to undergo medical examination (Dec2022)	Medical Examination Conducted upto last month (Jan'22 to Dec'22)	Medical Examination conducted in the month (Dec-2022)	Balance Medical Examination to be conducted in the year
1	IME	11	133	11	0
2	PME	120	243	0	227
3	Radiological Tests	61	0	0	61
4	Eye Refraction Test	382	432	382	458

B: Stool Tests and sputum for AFB and chest radiography conducted for canteen workers.

S. No.	No. of Persons employed in canteen	Details of tests conducted during current year	Next due Date/ Remarks
1	87	87	24.12.2023

	Details of Last test conducted	
	Sample location	PBCMP, Langatu
1.	Date of Sampling	16. 10.2022
	Testing Date	18.10.2022
	Report results	Portable
2.	Next Due results	20.01.2023



Occupational health related compliances Format to be included in Monthly Reports For the month of November -2022

A: Status of IME/PME:

S. No.	Medical Exam	No. of Persons required to undergo medical examination (Nov2022)	Medical Examination Conducted upto last month (Jan'22 to Nov'22)	Medical Examination conducted in the month (Nov -2022)	Balance Medical Examination to be conducted in the year
1	IME	13	122	13	0
2	PME	120	243	23	227
3	Radiological Tests	61	0	0	61
4	Eye Refraction Test	0	50	0	840

B: Stool Tests and sputum for AFB and chest radiography conducted for canteen workers.

S. No.	No. of Persons employed in canteen	Details of tests conducted during current year	Next due Date/ Remarks
1	61	61	24.12.2022

1.	 Details of Last test conducted Sample location Date of Sampling Testing Date Report results 	PBCMP, Langatu 16. 10.2022 18.10.2022 Portable
2.	Next Due results	20.01.2023



Occupational health related compliances Format to be included in Monthly Reports For the month of October -2022

A: Status of IME/PME:

S. No.	Medical Exam	No. of Persons required to undergo medical examination (Oct-2022)	Medical Examination Conducted upto last month (Jan'22 to Oct'22)	Medical Examination conducted in the month (Oct-2022)	Balance Medical Examination to be conducted in the year
1	IME	8	109	8	0
2	PME	120	220	47	240
3	Radiological Tests	61	0	0	61
4	Eye Refraction Test	0	50	0	840

B: Stool Tests and sputum for AFB and chest radiography conducted for canteen workers.

S. No.	No. of Persons employed in canteen	Details of tests conducted during current year	Next due Date/ Remarks
1	61	61	24.12.2022

	Details of Last test conducted	
	Sample location	PBCMP, Langatu
1.	Date of Sampling	16. 10.2022
	Testing Date	18.10.2022
	Report results	Portable
2.	Next Due results	20.01.2023





N T P C Limited Pakri Barwadih Coal Mining Project

Ref. No: 1040/PBCMP/Min/2017/114

Date: 20.04.2017

OFFICE ORDER No 23A / 2017

Further to the office order regarding the reconstitution of Environment Management Cell for Pakribarwadih Coal Mining Project, the following enclosed structure shall function for the Environment Management with immediate effect for the Pakribarwadih Coal Mining Project.

The cell is responsible for

- Compliance of statutory conditions given in the Environment , Forest Clearance groundwater clearance etc.
- Organize the visit of various officials and implementing the suggestions for betterment of the environment.
- Submit the statutory compliance reports.
- Organize Environment awareness programs.
- Implement the innovative measures for the environment protection
- 6. Documentation etc.

This issues with the approval of the competent authority.

T.Gopalakrishna Group General Manager,

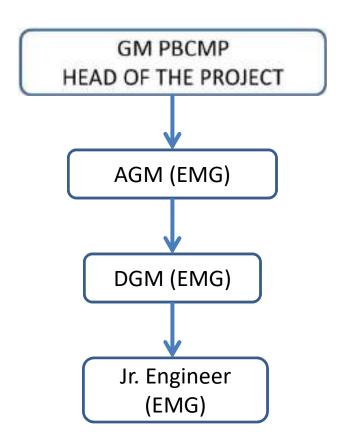
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All HODs – For Kind information please. Concerned executives.

> नवीन कुमार / NAVIN KUMAR का बरवाचक (वर्षावल प्रकार) IDCM (ENVT. MGMT.) एनटीपीसी स्टामिटेड/ NTPC Limited कोबास वरून प्रविद्याली COAL MINING PROJECTS

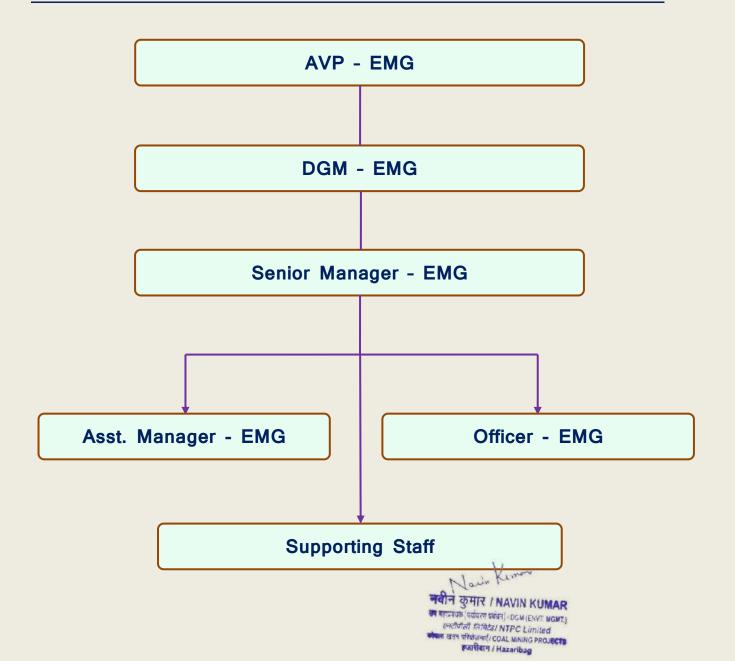
हजारीबान / Hazaribag

ENVIRONMENT MANAGEMENT CELL AT NTPC - PBCMP





ENVIRONMENT MANAGEMENT CELL THRIVENI SAINIK MINING PVT. LTD. PAKRI BARWADIH COAL MINING PROJECT



PAKRI BARWADIH COAL MINING PROJECT OF NTPC					
	Environmental Expenditure for the FY (April-23 to Sept23)				
SI NO	Purpose of Expense	Amount (in Rs.)			
(A) For	dump slope stabilization				
1	Coir Mating, Gabion Box, Retaining Wall, Garland Drain, Settling Pit and its Maintainance	9405476.86			
2	Dozer Operator Salary, HSD Cost and Maintainace charge	740347 6.00			
(B) For	dust suppression				
1	Water tanker and its maintenance	34523421.03			
(C) Env	vironmental Monitoring				
1	Annual Maintenance Contract of Instruments	3223161.00			
2	Environmental Monitoring (AAQ, Water, Noise etc.)	0220101.00			
(D) Nui	sery development and plantation	3217472.00			
(E) Env	ironment Staff Salary	3282600.00			
(F) Scie	entific Study	1000000.00			
	Total Amount	54652130.89			

नवीन कुमार / NAVIN KUMAR का बहारायक (वर्षावरण प्रवेचन) IDGM (ENVT. MGMT.) एनटीजीसा हित्तकेडा NTPC Limited कोवल खन्न परिकालपी COAL MINING PROJECTS हजारीबार / Hazaribag

	PAKRI BARWADIH COAL MINING PROJECT	OF NTPC
	Environmental Expenditure for the FY (October-22 to	March-2023)
SI NO	Purpose of Expense	Amount (in Rs.)
(A) For	dump slope stabilization	
1	Coir Mating, Gabion Box, Retaining Wall, Garland Drain, Settling Pit and its Maintainance	5687293.45
2	Dozer Operator Salary, HSD Cost and Maintainace charge	300/273.43
(B) For	dust suppression	
1	Permanent Sprinkler	41250002 02
2	Water tanker and its maintenance	41358982.83
(C) Env	vironmental Monitoring	
1	Annual Maintenance Contract of Instruments	3365670.00
2	Environmental Monitoring (AAQ, Water, Noise etc.)	000007 0.00
(D) Nu	rsery development and plantation	2441932.00
(E) Env	ironment Staff Salary	2742600.00
(F) Wa	ter treatment & ETP Maintainace	1069000.00
(G) Sci	ientific Study	0.00
	Total Amount	56665478.28

नवीन कुमार / NAVIN KUMAR का बरापवर्क (वर्षावल प्रवेचन) IDGM (ENVT. MGMT.) एनटीजी हानिकेंड/ NTPC Limited केंद्रस्थ अन परियोजनार/ COAL MINING PROJECTS हजारीबार / Hazaribag

	PAKRI BARWADIH COAL MINING PROJECT	OF NTPC
	Environmental Expenditure for the FY (April to Sept	ember-2022)
SI NO	Purpose of Expense	Amount (in Rs.)
(A) For	dump slope stabilization	
1	Coir Mating, Gabion Box, Retaining Wall, Garland Drain, Settling Pit and its Maintainance	8443390.00
2	Dozer Operator Salary, HSD Cost and Maintainace charge	0443370.00
B) For	dust suppression	
1	Permanent Sprinkler	33734029.83
2	Water tanker and its maintenance	33/34029.03
(C) Env	vironmental Monitoring	
1	Annual Maintenance Contract of Instruments	3393215.00
2	Environmental Monitoring (AAQ, Water, Noise etc.)	0070210.00
D) Nu	rsery development and plantation	2233075.00
E) Env	ironment Staff Salary	3109200.00
F) Wa	ter treatment & ETP Maintainace	399000.00
G) Sci	entific Study	687500.00
	Total Amount	51999409.83





602/24 DLF Celony Robiak, Haryana-124001

Email: capdc2010@gmail.com Ph. No 81262-254634

Mobile : +91-5215386381/82

TO WHOM SO EVER IT MAY CONCERN

Based on our examination of the books of accounts and records, as produced before us for venification, of Thriveni Sainik Mining Private Limited ("the Company") having its registered office at I/th Hoor, Corporate Tower, Ambience Mall, NH-8, Gurgaon, Haryana-122001, we hereby certify that the Company has incurred expenditure towards environmental expenditure for its project NTPC LTD-PAKRI BARWADIH COAL PROJECT, BARKAGON from April 2021 to March 2022 is Rs 926.43 Lakhs (Rupees Nine Hundered Twenty Six Lakhs and Forty Three Thousand only) as per details given in Annexure 1

This certificate has been provided at the request of the Company is not intended for general circulation or publication

The above figures are true and correct as per documents and information provided to us for our verification.

For PANKAJ DHINGRA & Co.

Partner

MN. No. 510815

UDIN: 22510815AQMITT4220

Place : Rohtak

Date : 25.07.2022

नवीन कुमार / NAVIN KUMAR
का बहामध्यक (पर्वादान प्रवेचन) / DGM (ENVT. MGMT)
एनटीचीनी रिनिक्टेंड / NTPC Limited
कोवान खनन परिवोजनार्थ / COAL MINING PROJECTS
हणारीवान / Hazaribog



602/24 DLF Colony Rehfak, Haryana-124001 Email : capdx2010@gmail.com

Ph. No 01267-254634 Mobile : +91-9215380381/82

Annexure 1

	Environmental Expenditure for the FY (April-2021 to March-	2022)
SINO	Purpose of Expense	Amount in INF
(A) For dur	np slope stabilization	
1	Coir Mating, Gabion 80%, Retaining Wall, Garland Drain, Settling Pit and its Maintainance	
2	Dozer Operator Salary, HSD Cost and Maintainace charge	151.14
(B) For dust	t suppression	
1	Permanent Sprinkler	
2	Water tanker and its maintenance	564.17
C) Environ	mental Monitoring	†
1	Annual Maintenance Contract of Instruments	70.00
2	Environmental Monitoring (AAO, Water, Noise etc.)	70.32
D) Nursery	development and plantation	21.77
E) Environs	ment Staff Salary	30.69
F) Water tr	eatment & ETP Maintainace	j 45.71
G) Certifica	tion	0.85
H) Scientifi	_ 	4.63
	charge Measures	36.71
Miscellar	neous Expense	C,48
	Total Amount	926.43

नवीन कुमार / NAVIN KUMAR
का बहामध्ये (वर्षातल प्रवेचन) IDGM (ENVT. MGMT.)
का बहामध्ये (वर्षातल प्रवेचन) NTPC Limited
काल खन्न परियोजनारी COAL MINING PROJECTS
हजारीबान / Hazaribag



GAURAV CHOPRA & ASSOCIATES

Chartered Accountants

Ref. No.

Date: 02 07 2021

TO WHOMSOEVER IT MAY CONCERN

I hereby certify that I have examined the related documents for environmental expenses incurred for TRIVENI SAINIK MINING PRIVATE LIMITED (PROJECT-NTPC LTD,PAKRI BARWADIH COAL PROJECT BARKAGON) from April 2020 to March 2021 which amounting to 9,74,54,170/-(Nine Crore Seventy Four Lacs Fifty Four Thousand and Seventy Rupees Only). These Expenses Consist of following Annexure-A which is attached herewith.

FOR GAURAV CHOPRA & ASSOCIATES

GAURAV CHOPRA

(M. NO-418565)

UDIN: 21418565AAAABO8898

नवीन कुमार / NAVIN KUMAR का बहाउबक (वर्षादल प्रकार) IDGM (ENVT. MGMT.) प्रमाणिती स्तिकेश NTPC Limited कोवल स्वरूप विचित्रकारी COAL MINING PROJECTS हणाविसार्ग / Hazaribag

104, AKS Heights 9th & 10th Sardapura C Road, Jodhpur (Raj.)

Contact No. 0291-2641122, 94144-98356

Email: gauravchopraca@gmail.com

48	PAKRI BARWADIH COAL MINING PROJECT	OF NITRO
	Environmental Expenditure for the FY (April-2020 to	Merch 2001
SINO	Purpose of Expense	
(A) Fo	r dump slope stabilization	Amount (in Rs.)
1	Coir Mating, Gabion Box, Retaining Wall, Garland Drain, Settling Pit and its Maintainance	
2	Dozer Operator Salary, HSD Cost and Maintainace charge	28,984,191,42
(B) For	dust suppression	
1	Permanent Sprinkler	
2	Water tanker and its maintenance	43,973,816.69
(C) Env	rironmental Monitoring	
1	Annual Maintenance Contract of Instruments	and the second
2	Environmental Monitoring (AAQ, Water, Noise etc.)	7,817,473.30
	sery development and plantation	6,568,550,42
E) Envi	ronment Staff Salary	7,384,800.00
F) Wate	er treatment & ETP Maintainace	2,118,350,00
G)Cert	ification	
H) Misc	ellaneous Expense	468,900.00
		138,088.00
	Total Amount	97,454,169.83



नवीन कुमार / NAVIN KUMAR क बहाउपक्र (पर्वादल प्रतिक) IDCM (ENVI. MGMT.) एनटीजीसा व्हानक्षेत्र NTPC Limited केवल खन्न परिवादनहीं COAL MINING PROJECTS हजाविदाय / Hazaribag



GAURAV CHOPRA & ASSOCIATES

Chartered Accountants

Ref. No.

Date: 26/11/2020

TO WHOMSOEVER IT MAY CONCERN

I hereby certify that I have examined the related documents for environmental expenses incurred for TRIVENI SAINIK MINING PRIVATE LIMITED (PROJECT-NTPC LTD, PAKRI BARWADIH COAL PROJECT BARKAGON) from April 2019 to March 2020 which amounting to 16,20,82,483/-(Sixteen Crore Twenty Lacs Eighty Two Thousand Four Hundred Eighty Three Only). These Expenses Consist of following Annexure-A which is attached herewith.

FOR GAURAV CHOPRA & ASSOCIATES

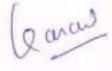
GAURAV CHOPRA

(M. NO- 418565)

UDIN: 20418565AAAAAT5479

नवीन कुमार / NAVIN KUMAR
का बहारवार (वर्वादल प्रवेदन) I DGM (ENVT. MGMT.)
कारीवारी लिक्टिंग NTPC Limited
कोवल खन्न वरिकेटलई (COAL MINING PROJECTS
हजारीवार / Hazaribog

SI NO	Environmental Expenditure for the FY (April 2019 to Ma Purpose of Expense	The same of the sa
(A) Fo	r dump slope stabilization	Amount (in Rs.)
1	Coir Mating, Gabion Box, Retaining Wall, Garland Drain, Settling Pit and its Maintainance	
2	Dozer Operator Salary, HSD Cost and Maintainace charge	73,099,492.70
(B) Fo	dust suppression	
1	Permanent Sprinkler	0 000
2	Water tanker and its maintenance	60,393,753.17
(C) En	vironmental Monitoring	
-1	Annual Maintenance Contract of Instruments	
2	Environmental Monitoring (AAQ, Water, Noise etc.)	9,391,214.70
(D) Nu	rsery development and plantation	5,466,338.00
	rironment Staff Salary	7,741,440.00
(F) Wa	ter treatment & ETP Maintainace	3,662,742.00
(G)Sur	face Runoff Recharge	3,100,000.00
(H)Cer	tification	1,950,799,88
(I) Mis	cellaneous Expense	376,702.20
200	Total Amount	162,082,482.65





प्रयोग Kimen
विदान कुमार / NAVIN KUMAR
का महाप्रवेशक (वर्षादल प्रकेशन) IDGM (ENVT. MGMT.)



GAURAV CHOPRA & ASSOCIATES

Chartered Accountants

Ref. No.

Date: 25/09/2019

TO WHOMSOEVER IT MAY CONCERN

I hereby certify that I have examined the related documents for environmental expenses incurred for TRIVENI SAINIK MINING PRIVATE LIMITED PROJECT-NTPC LTD, PAKRI BARWADIH COAL PROJECT BARKAGON) from April 2018 to March 2019 which amounting to 11,62,03,315/-(Eleven Crore Sixty Two Lacs Three Thousand Three Hundred Fifteen Only). These Expenses Consist of following Annexure-A which is attached herewith.

FOR Gaurav Chopra & Associates

autoo

GAURAV CHOPRA

(M. NO-418565)

UDIN-19418565AAAAAO4381

नवीन कुमार / NAVIN KUMAR का बहापकाक (पर्वादन प्रकार) । DGM (ENVT. MGMT.) एनटीजीसी जिस्मेट्टा NTPC Limited कोवास खरन परिवोदनारी COAL MINING PROJECTS हजारीबान / Hazaribag

104, AKS Heights 9th & 10th Sardapura C Road, Jodhpur (Raj.)
Contact No. 0291-2641122, 94144-98356
Email: gauravchopraca@gmail.com

SINO	Purpose of Expense	Amount (in Rs.)
	dump slope stabilization	withouth filt yar?
(my ron		
1	Cair Mating, Gabian Box, Retaining Wall, Garland Drain, Settling Pit and Its Maintainance	4.73.78.336.60
2	Dozer Operator Salary, HSD Cost and Maintainace charge	-5/10/10/40/40/40
(B) For	dust suppression	
1	Permanent Sprinkler	4.07.40.027.40
2	Water tanker and its maintenance	4,87,49,865,45
(C) En	vironmental Monitoring	
1	Annual Maintenance Contract of Instruments	77:10 427.00
2	Environmental Monitoring (AAQ, Water, Noise etc.)	74,18,667,00
(D) Nu	rsery development and plantation	17,08,699,00
(E) Env	vironment Staff Salary	66,12,000.00
(F) Wa	ter treatment & ETP Maintainace	34,47,729,00
(G)Ce	rtification	7,35,076.00
-	scellaneous Expense	1,52,941.72
	Total Amount	11,62,03,314,77



नवीन कुमार / NAVIN KUMAR का महाप्रकार (पर्वावत प्रकार) IDGM (ENVT. MGMT.) प्रान्टीवीसी स्वामेटेड/ NTPC Limited कोवल खन्न परिकालके/ COAL MINING PROJECTS हजारीबान / Hazaribag

A C G C & Associates

Chartered Accountants

104, Aks Heights 9th & 10th Sardarpura, 'C' Road, JODHPUR (Raj.) Contact No.: 0291-2641122 ,9772591864, 9414498356

E-mail: acgcassociates@gmail.com Website: www.acgcassociates.icai.org



Ref. No.

Date 18/05/2018

TO WHOMSOEVER IT MAY CONCERN

I hereby certify that I have examined the related documents for environmental expenses incurred for TRIVENI SAINIK MINING PRIVATE LIMITED(PROJECT-NTPC LTD,PAKRI BARWADIH COAL PROJECT BARKAGON) from April 2017 to March 2018 which amounting to 10,84,21,227/-(Ten Crore Eighty Four Lacs Twenty One Thousand Two Hundred Twenty Seven Only). These Expenses Consist of following Annexure-A which is attached herewith.

FOR ACGC & ASSOCIATES

GAURAV CHORRA

(M. NO- 418565)

FRIN OTTRAZE

नवीन कुमार / NAVIN KUMAR
का बहापकपक (पर्वादन प्रकार) । DGM (ENVT. MGMT.)
एनटीजीवी व्हिन्दिश NTPC Limited
कोवन वहन परिवोदनाई। COAL MINING PROJECTS
हजारिवान / Hazaribag

V/	PAKRI BARWADIH COAL MINING PROJECT OF	NTPC
	Environmental Expenditure for the FY (April 2017 to Ma	rch 2018)
SINO	Purpose of Expense	Amount (in Rs.)
(A) Fo	r dump slope stabilization	
1	Coir Mating, Gabion Box, Retaining Wall, Garland Drain, Settling Pit and its Maintainance	
2	Dozer Operator Salary, HSD Cost and Maintainace charge	77,304,660.54
(B) For	dust suppression	
1	Permanent Sprinkler	
2	Water tanker and its maintenance	22,704,829.36
(C) En	vironmental Monitoring	
1	Recalibration of Instruments / equipments	1000000000
2	Environmental Monitoring (AAQ, Water, Noise etc.)	4,133,096.00
(D) Nu	rsery development and plantation	1.033,287.00
	vironment Staff Salary	2,517,864.00
(F) Wo	iter treatment & ETP Maintainace	727,490.00
3477	Total Amount	108,421,226.90





नवीन कुमार / NAVIN KUMAR क बहाउबक (वर्षादल प्रवेचन) IDGM (ENVT. MGMT.) एनटीजी सार्विटेश NTPC Limited केवल खन्न परिकेटनाई / COAL MINING PROJECTS हजाविद्या / Hazaribog

A C G C & Associates

Chartered Accountants

104, Aks Heights 9th & 10th Sardarpura, 'C' Road, JODHPUR (Raj.) Contact No.: 0291-2641122 ,9772591864, 9414498356

E-mail: acgcassociates@gmail.com Website: www.acgcassociates.icai.org



Ref. No.

Date 23/03/2018

TO WHOMSOEVER IT MAY CONCERN

I hereby certify that I have examined the related documents for environmental expenses incurred for TRIVENI SAINIK MINING PRIVATE LIMITED(PROJECT-NTPC LTD,PAKRI BARWADIH COAL PROJECT BARKAGON) from May 2016 to March 2017 which amounting to 3,47,65,165/-(Three Crore Forty Seven Lacs Sixty Five Thousand One Hundred Sixty Five Only). These Expenses Consist of following Annexure-A which is attached herewith.



(M. NO-418565)

नवीन कुमार / NAVIN KUMAR
का बहामकाक (पर्वादल प्रकार) IDGM (ENVT. MGMT.)
का बहामकाक (पर्वादल प्रकार) IDGM (ENVT. MGMT.)
कोवाल खन्न परिकोदलप्रें। COAL MINING PROJECTS
हणारिवान / Hazaribag





Environment
Environment Policy &
Management
Afforestation

Status of HYC Reports

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Description and the same	Goal Mining	~	Apply	Reset

#	Category	HYC Reports	Related Document
1	Cost Mining	Environment Statement of NTPC Dulanga for Year 2021-22	Click to View/Download
2	Cost Mining	Half Yearly Environmental Clearance Compliance Report perfaming to Dulanga Coal Mining Project of NTPC Limited October 2022 to March 2023.	Click to View/Download
3	Cost Mining	Half Yearly Compliance Report for Period April 2022 to Sep 2022 for Dulange Cost Mining Project of NTPC Ltd.	Click to View Download
u	Ceal Mining	First Yearly EC Compliance Report of Pakir Banvadih Cral Mining Project for the period of Oct. 2022 to March 2023.	Click to View Download
5	Cost Mining	HYC REPORT of PAKRI BARWADIH COAL MINING PROJECT (15 MTPA)	Click to View Download

नवीन कुमार / NAVIN KUMAR का बहापकरक (पर्वावका प्रकार) / DGM (ENVT. MGMT.) एनटीजीसी स्थापकेड / NTPC Limited कोवल खनन परिकेडनाई / COAL MINING PROJECTS हजारीबान / Hazaribag

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NTPC Limited

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Invitation Proposal for Hiring Accounts Firms P RANJAL
Bihar State Water and Sanitation Mission 169, Pattiputra Colony, Patna - 13

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THE TIMES OF INDIA, 19ANCH SATURDING, MUT 30, 2009

नवीन कुमार I NAVIN KUMAR

छण महाप्रकारक (पर्यावरण प्रकार)। DGM (ENVT. MGMT.) एनटीजीसी सिमिटेड/ NTPC Limited स्त खनन परियोजनार्/ COAL MINING PROJ**ECTS** हजारीबान / Hazaribag

रहीक एक्क्रोंज के केविया में उद्युव संब की और मेंबन्ट स्टीव एक्सीब

सामार भी तक के दो प्रतिप्रधा सहत ने च को और मेंबरत सटीठ एक्टबेंस हो, इससे फीलू कवान को रोजी जिसकी है । । अर्थ को रोजी को मिर्ज तेल हैंस के असका ३१७ 24 कर मा इ.३६ प्रीतान में बहुत के सूच 1,0005.25 और पर

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पक्रशी-करवाडीह क्येल माइनिंग प्रोजेक्ट इंक्टीसम

सूचना

प्रसारी कारणारीह स्थान स्थापक प्रतिकार, इत्यारिकार, एक्टीमोली निर्मेशास को पत इस प्रयोक्ता प्रशासन की और में कार्यक्रम समित्री प्रयोक्ती जानन की नामें हैं। वर्णकृति पत्र को प्रोत कारणेंकी पत्रमा प्रमुख्य निर्मेशक स्थित में प्रतासक है मिन्ने का स्थानकार ry all transcript forwebs sitchs & 4 her street & 1

कर संस्थान - जीवन संस्थान

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पूर्व । यहा योग्ल विदेशक मजा ये. मीक्स प्रातिकारी विदेशक elegen underd febens (वारिगरिकार गालन) भवनन एप nutr on pain Thomas (gibbs) अभिनेतामा क्यारे आने का मार्ग्यते १००५ वर की है, क्षेत्रपति में प्रश धर्मान्य कि भी तेला परि प्रश्नि या राजन होते. यही अपने कर ही एक व्हार को तिराज्या हो की हैं. बारत देंच वृत्यों बाद भी की नाश कंदनी बाटे में का period quarter on or all गरेंचे बस जासर मा वेजला रहा तो वर्त मेहक में देखा गए।

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शंक्य : मिरामाने केन निवर्णक देखी आरोक भी पुरस्कार को हुई मैठन में राज जरकार के मीजूरा स्वर को स्वर्क राजने के मैंनरों और विकर्त 900 दिनों से लेखर पहनाने में जारी तेवी के बीच अलंगहीय बारात में क्षा केल मजबूरी के बाम 65 जीवन प्रति बैदान के इनान दिवस पता. और देश ने देश प्राचान का स्तर हो प्रतित क्षेत्र मध्य ५० समार वेदल प्रतितित प्रथ कर समा है spect that sit is feet artifical पुर 83.37 स्थिरप्रति वेत्स बेल तथा. लंदन वेट हुन्य यह सब्देशन की १८८ हम जोलर और बैरल पर हुआ.

आम बजट पर विचार-विमर्श जल्द

नवी रिज्ली : जिस गर्ने प्रयास सुकर्ती शुक्रई में के। दिने जलेकी माँ १००५-१० के धाम कवर को वैवार अन्ते के बार में वर्धात जना. admired, americal, flatter और खरिक संती के रक्ता बालगीर ধ্য মিহাইলা সাধ সুৰ বঁটা প্ৰ **मुख्यती ने जिलाने हमते जिल गणानं**य व वार्यभा संगतने के बंद में पंतालम के प्रसिद्ध अधिकारिकों के सामा देशक का

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