

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 862/2022

Pankaj Kumar Mishra

Applicant

Versus

Union of India & Ors.

Respondent(s)

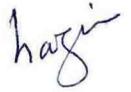
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(Nazimuddin)

Scientist F

Central Pollution Control Board

Delhi-110032

Date: 21.04.2023

Place: Delhi

Factual Report of the Joint Committee

In

National Green Tribunal (PB)

O.A. 862/2022 order dated 25.11.2022

In the matter of

Pankaj Kumar Mishra

Vs

Union of India & Ors.

Committee members:

1. Dr H V G Chary, Scientist-E, MoEFCC, IRO, Bhopal, Madhya Pradesh
2. Sh Sunil Kumar Meena, Scientist-D, CPCB, RD, Bhopal, Madhya Pradesh
3. Sh Hemant Kumar Sharma, Director (Environment), MPPCB, Zonal Officer, Jabalpur, Madhya Pradesh

Factual Report of the Joint Committee

In compliance of the Hon'ble National Green Tribunal (Principal Bench) order dated 25.11.2022 in Original Application No. 862 of 2022 in the matter of Pankaj Kumar Mishra Vs Union Of India & Ors, a committee of the following officers was constituted:

1. Dr H V G Chary, Scientist-E, MoEFCC, IRO, Bhopal, Madhya Pradesh
2. Sh Sunil Kumar Meena, Scientist-D, CPCB, RD, Bhopal, Madhya Pradesh
3. Sh Hemant Sharma, Director, MPPCB, Zonal Officer, Jabalpur, Madhya Pradesh

Copy of the NGT order dated 25.11.2022 is enclosed as **Annexure-I**.

The committee visited the Singrauli (Madhya Pradesh) area during 9th to 11th February 2023. On the request of the petitioner (Sh Pankaj Kumar Mishra) to the Chairman, Central Pollution Control Board made on 2nd Feb 2023 regarding meeting with committee members to explain the issues of the area; a meeting of committee members with petitioner was held on 9th Feb 2023 at Madhya Pradesh Pollution Control Board, Singrauli Regional office. The letter dated 2.2.2023 is enclosed as **Annexure-II**.

Major issues brought out by the petitioners are as below:

- Need for installation of the CCTV camera at the strategic locations to track the movements of trucks carrying coal & ash for checking their proper tarpaulin covering and also to keep a tab on the vehicles responsible for coal and ash on public roads.
- Need for regular cleaning of roads/sweeping of transportation roads where ash & coal dust gets deposited and get entrained on truck movement.
- There are few improper turns/speed breakers on the road from Shaktinagar to Auri to Anapra (Uttar Pradesh) that requires proper scientific designing to avoid road accidents.
- Need for alternate roads/dedicated roads are to be provided/constructed for public vehicles as coal & fly ash transporting vehicles and public vehicles plying on the same road is resulting in increasing number of accidents.
- The road shoulders are not pucca, due to which on vehicle movement the coal dust & fly ash deposited on the sides of the road, get entrains in the ambient and cause heavy fugitive emission.
- There are residential areas adjoining the Shaktinagar to Auri to Anapra Road of Uttar Pradesh which remain heavily affected due dusty surroundings.

Attendance of the meeting dated 9.2.2023 is enclosed as **Annexure-III**.

During 9th-11th Feb 2023, committee held its field visit of the coal mines, thermal power plants situated in Singrauli district of Madhya Pradesh to assess the quantum of coal production/fly ash generation, its loading & unloading, transportation practices, vehicles cover, road routes of coal/ash transportation, road conditions on the coal/ash transporting routes, ash utilization etc. Copy of the field photographs enclosed as **Annexure-IV**.

The factual status is as stated below:

1.0 Thermal Power Plants (TPP)

The unit-wise consented capacity (Mega Watt), validity of the Consent to Operate (CTO) are as tabulated below:

Sr. No.	Name of TPP	Production capacity	Consent Validity
1.	M/s. Vindhyachal Super Thermal Power Project-NTPC, Stage -I (6 Units)	(6x210) 1260MW	31/08/2024
	M/s. Vindhyachal Super Thermal Power Project - NTPC Stage II (2 Units)	(2x500) 1000MW	30/06/2023
	M/s. Vindhyachal Super Thermal Power Project, NTPC, Stage-III, (2 Units)	(2x500) 1000MW	30/11/2024
	M/s. Vindhyachal Super Thermal Power Project Stage-IV, (2 Units)	(2x500) 1000MW	30/06/2023
	M/s. Vindhyachal Super Thermal Power Project Stage-V (1 Units)	(1x500) 500MW	31/07/2024
2.	M/s. Sasan Power Limited, Village, Siddhikhurd, Post- Tiwara, Tal & Dist: Singrauli (M.P.) (6 Units)	(6 x 660 (MW) 3960 MW	31/03/2024
3.	M/s Jaiprakash Power Ventures Ltd.-Jaypee Nigrie Super Thermal Power Project, Vill. - Nigrie, Tahsil-Deosar Distt. - Singrauli MP (2 Units)	(2x660 MW) 1320 MW	31/07/2023
4.	M/s. Mahan Energen Limited (Formerly Known as Essar Power MP Ltd.), Vill: Bandhaura, Teh. Mada, Dist: Singrauli (M.P.) (2 Units)	(2x600 MW) 1200 MW	29/02/2024
5.	M/s. Hindalco Industries Limited- Mahan Aluminum Project, Vill: Bargawan, Tal: Devsar, Dist: Singrauli (M.P.) (6 Units for captive power generation)	(6x150 MW) 900 MW	30/11/2023

The total consented capacity of 05 TPPs is **12140MW**. All the TPPs are having valid Consent to Operate (CTO) issued from Madhya Pradesh Pollution Control Board (MPPCB).

The unit-wise details of coal & fly ash transportation, utilizations details are as below:

1.1 Fly ash generation & utilization

1.1.1 M/s. Vindhyachal Super Thermal Power Project (VSTPP)-NTPC

The VSTPP-NTPC, Vindhnagar plant has highest power production capacity in Singrauli district i.e 4760MW. It has total 13 units established in 05 stages from time to time. The establishment details of the units, capacity & Environmental Clearance details are as tabulated below:

Stage	Units under Stage	Establishment year	Environmental Clearance	Consent validity
Stage-I	Unit -I: 210 MW	October 1987	25.11.1981	31.08.2024
	Unit -II: 210 MW	July 1988		
	Unit -III: 210 MW	February 1989		
	Unit -IV: 210 MW	December 1989		
	Unit -V: 210 MW	March 1990		
	Unit -VI: 210 MW	February 1991		
Stage-II	Unit -VII: 500 MW	March 1999	26.06.1990	30.06.2023
	Unit -VIII: 500 MW	February 2000		
Stage-III	Unit -IX: 500 MW	July 2006	19.07.2002	30.11.2024
	Unit -X: 500 MW	March 2007		
Stage-IV	Unit -XI: 500 MW	June 2012	05.02.2009	30.06.2023
	Unit -XII: 500 MW	March 2013		
Stage-V	Unit -XIII: 500 MW	August 2015	02.05.2012	31.07.2024

The year-wise coal requirement in Million Metric Tons in last 05 financial years is as tabulated below:

Year	Yearly Coal Consumption (Million MT)	Source of Coal	Coal Transportation
2017-18	24.523	Northern Coalfields limited (NCL) coal mines - Mainly Nigahi & Dudhichua with occasional rakes from Jayant mines)	100% transportation through Rail through dedicated Marry-Go-Round system
2018-19	24.722		
2019-20	24.916		
2020-21	25.009		
2021-22	24.277		

M/s VSTPP-NTPC has 100% coal transportation via rail through dedicated Marry-Go-Round system. The coal is received majorly from nearby Northern coal Limited mines – Nigahi & Dudhichua.

The fly ash generation & utilization of M/s NTPC, Vindhnagar:

The fly ash generation since 2016-17 to 2022-23 (Upto Dec 2022) and its utilization in various avenues are as given below:

YEAR	Total Ash Generation (MT)	Total Ash Utilization (MT)	% Ash Utilization
2022-23 (upto Dec'22)	5950658	1525940	25.6
2021-22	8238221	4369983	53.0
2020-21	8713679	3285888	37.7
2019-20	8857823	2840938	32.1
2018-19	8324181	2673727	32.1
2017-18	7958003	1957993	24.6
2016-17	7639386	1796209	23.5

The minimum & maximum ash utilization was observed in FY 2016-17 & 2021-22 respectively i.e. 23.5% (minimum) to 53% (maximum). The details of ash utilization are as given below:

Utilization Avenues	Financial Year						
	2022-23 (upto Dec 2022)	2021-22	2020-21	2019-20	2018-19	2017-18	2016-17
Cement Industries	29086	125457	146992	33660	66480	40700	33780
Brick plants	167801	258092	188148	88668	99160	110880	96820
Asbestos industries	-	15720	-	12160	1820	2240	5120
NTPC Brick plant	37540	36100	40250	29450	23840	15130	29910
Low laying area Own land	97831	491305	363684	170000	209650	566520	112027
Low laying area Outside land	353867	677276	924051	167000	3200		
Road Project	550113	361966	177709	-	-	-	-
Mine Filling (Gorbi)	289702	145848	-	-	-	-	-
Bottom ash utilization	-	-	174273	147000	580815	823127	765943
*Ash dyke Raising	-	1117908	1270781	2193000	1688762	399396	752609
Others	-	1140310	-	-	-	-	-
TOTAL Ash Utilization	1525940	4369983	3285888	2840938	2673727	1957993	1796209

The major ash utilization was in ash dyke rising followed by road projects and low-lying area filling.

The 05 years ash utilization plan as per the notification dated 31.12.2021 is as below:

Particulars	2022-23	2023-24	2024-25	2025-26	2026-27
Expected Ash generation (Lacs MT)	85	85	85	85	85
Proposed Ash utilization in (Lacs MT)					
Low lying area	4	8	3	10	10
Road construction	13	12	8	10	12
Brick manufacturing	4	6	6	10	12
Gorbi & other mine filling	7	8	20	45	45
OB mixing	0	7	16	25	25
Cement plants	4	8	12	16	20
Bottom plant (utilization/supply)	2	4	3	8	10
Aggregate manufacturing	0	0	3	4	5
Total utilization	34	53	71	128	139
% Actual utilization	40%	62%	84%	151%	164%

Presently following major fly ash utilization avenues are available where M/s VSTPS is utilizing its generated ash:

- One mine pit of abandoned Gorbi mines of NCL has been allotted to VSTPP for ash filling. Mine pit capacity is ~ 250 Lac Tonnes. Ash filling quantity presently is limited to 1 lac MT/month due to road traffic constraints. Consent to Operate (CTO) available for ash filling up to Aug'23.
- Identified ash filling area in Village Daga/Tehsil Devsar. (Approx. Qty of ash to be filled - 1.15 lac cum)
- Identified ash filling area at Village Ghoghra/Tehsil Sarai. (Approx. Qty of ash to be filled - 1.0 Lakh MT)

1.1.2 M/s. Sasan Power Limited Village Siddhikhurd Post- Tiyara Tal & Dist: Singrauli (M.P.)

M/s Sasan Power limited (3960MW) has 6 units of 660MW capacity each with this it becomes second largest thermal power plant of the Singrauli district in Madhya Pradesh. The unit has CTO valid upto 31/03/2024. The details of unit-wise commissioning are as tabulated below:

Unit	Capacity	Date of Commissioning
1.	660MW	16.8.2013
2.	660MW	28.1.2014
3.	660MW	12.4.2014
4.	660MW	27.5.2014
5.	660MW	12.12.2014
6.	660MW	19.3.2015

The year-wise electricity production coal consumption and ash generation are as tabulated below:

Sl. No.	FY	Electricity Generation in MWh	Coal consumed in MT	Ash Generation in MT
1	2022-23 (Till Dec'2022)	22798493	12732629	3604958
2	2021-22	32673064	18308422	5347484
3	2020-21	33387653	18228056	5027016
4	2019-20	33340908	18523662	5244592
5	2018-19	32877272	18083636	5027732

The coal is transported from its own mine Moher & Moher (Consented capacity 20MMTPA) through about 25KM Over-land-Conveyor (OLC) system. The coal is stored in coal hoppers and from there coal is stacked at coal yard through conveyor belt and stacker machines.

The unit-wise per Mega Unit coal consumption in Metric Ton is as tabulated below:

Financial Year	Coal consumption (in MT) per Mega Unit					
	UNIT-1	UNIT-2	UNIT-3	UNIT-4	UNIT-5	UNIT-6
2021-22	558	556	564	568	552	563

The fly ash generation and its utilization are various avenues is as tabulated below:

Utilization Avenue	Financial Year				
	2022-23 (upto Dec 2022)	2021- 22	2020-21	2019-20	2018- 19
In Cement Manufacturing	0	0	26670	45280	132860
In Road Construction	0	0	0	0	0
In Low Lying Area/ Mine Filling	0	0	89550	2698119	135466 2
Fly ash-based Construction Material	22233	36990	1921	2144	4172
Ash Dyke Raising	3641026	276242 5	2097776	0	0
Others (If any)	0	0	1635	860	338
Total ash utilization in MT	3663259	279941 5	2217552	2746403	149203 2
Ash Generation in MT	3604958	534748 4	5027016	5244592	502773 2
% Utilization	101.6	52.4	44.1	52.4	29.7

The minimum & maximum utilization was 29.7% & 101.6% is FY 2018-19 & 2022-23 respectively.

The 05 years ash utilization plan as per the notification dated 31.12.2021 is as below:

S. NO.	Description	Unit	FY 2022-23 (Est.)	FY 2023-24 (Est.)	FY 2024-25 (Est.)	FY 2025-26 (Est.)	FY 2026-27 (Est.)
A	Ash Generation	MT	4628834	5314400	5352360	5390320	5314400
B. Ash (Fly + Bottom) utilization							
i.	Brick manufacturing	MT	23415	40000	40000	40000	40000
ii.	Ready mix concrete	MT	3926	6000	6875	6970	5750
iii.	Low lying area filling/area development	MT	0	0	0	0	0
iv.	Cement	MT	0	0	0	0	0
v.	Sasan Coal Mine (OB Dump)	MT	0	5009569	5305485	5343350	5268650
vi.	Dyke Raising	MT	3907600	0	0	0	0

Total Fly ash utilisation	MT	3934941	5055569	5352360	5390320	531440
Fly Ash Utilization percentage	%	85	95	100	100	100

1.1.3 M/s Jaiprakash Power Ventures Ltd.-Jaypee Nigrie

Jaypee Nigrie Super Thermal Power Plant (A Division of Jaiprakash Power Ventures Ltd.) has the consented capacity of 1320MW (2x660MW) with a validity of 31.7.2023.

The year-wise power production (Mega Units) coal consumption (MT) Ash (Bottom & Fly ash) generation (MT) for the past five years is as tabulated below:

Financial Year	Power Production (Mega Units)	Coal Consumption (MT)	Ash Generation (MT)	
			Fly Ash (MT)	Bottom Ash (MT)
2017-18	7688.93	4429874	1212655	271285
2018-19	7330.28	4070899	1078454	220892
2019-20	6312.59	3665231	992886	208700
2020-21	8106.4	4589386	1151925	287981
2021-22	8381.9	4968511	1263519	315880

The last 05 years ash utilization in different avenues is as tabulated below:

Financial Year	Ash utilization (MT)			
	For use in cement plant (MT)	For use in works road (MT)	For filling of Low-lying areas/mines (MT)	For fly ash-based building materials (MT)
2017-18	1045074	-	320944.27	20937
2018-19	1124236	-	-	27278
2019-20	1024645.81	-	271873	20072.19
2020-21	982567.24	-	446410	11522.32
2021-22	1020528.92	-	362215	31590.59

The % utilization of the ash is as tabulated below:

Financial Year	Total Ash Generation in MT	Ash utilization in MT	% Ash utilization
2017-18	1483940	1386955	93.5
2018-19	1299346	1151514	88.6
2019-20	1201586	1316591	109.6
2020-21	1439906	1440500	100.0
2021-22	1579399	1414335	89.5

The ash utilization plan as per the notification dated 31.12.2021 is as below:

Financial Year		2022-23	2023-24	2024-25
Estimated Quantity of Ash Generation (in Lakh MT)		16.46	16.46	16.46
Estimated Quantity of Ash Utilisation (in Lakh MT)	Cement manufacturing (in Lakh MT)	12.77	12.77	12.77
	Fly ash-based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels) (in Lakh MT)	0.4	0.4	0.4
	Filling up of low-lying area & mine voids (in Lakh MT)	3.29	3.29	3.29
	Total (in Lakh MT)	16.46	16.46	16.46
% Of Ash Utilisation		100	100	100

**1.1.4 M/s. Mahan Energen Limited (Formerly Known as Essar Power MP Ltd.)
Vill: Bandhaura Teh. Mada Dist: Singrauli (M.P.)**

The M/s Mahan Energen Ltd. has total 1200MW power generation capacity with 2 units of 600MW each. Earlier this plant was Known as Essar Power MP Ltd. (EPMPL). Mahan Energen Limited (MEL) has acquired the erstwhile Essar Power (MP) Limited (EPMPL) by Adani Power through Insolvency Resolution Process (through NCLT) on dated 16.03.2022. The Environmental clearance (EC) was obtained on 20.4.2007 EC transferred from EPMPL to MEL on 15.9.2022. The Consent to Operate by MPPCB to MEL is valid upto 29.02.2024.

The coal requirement is fulfilled 100% via road transport from M/s Andhra Pradesh Mineral Development Corporation (APMDC) mine situated nearby Suliyari, NCL & CCL Coal Mines. Cell no. 1 2 & 3 of the fly ash dyke have been reclaimed and stabilized with soil cover and partly grass plantation. Only Cell No. 4 is presently operational.

The details of power generation coal requirement ash generation & its utilization is as tabulated below:

Particulars	Financial Year				
	During M/s Essar Power MP Ltd operation				M/s Mahan Energen Ltd (Since 1.4.202)
	2018-19	2019-20	2020-21	2021-22	2022-23 (Upto Dec 2022)
Power production (MW Units)	3308893	3281055	2889608	3382465	2558088
Coal Consumption (MT)	2076958	2210931	2056416	2375545	1864147
Fly ash generation (MT)	450281	550214	556436	668698	523209
Bottom Ash generation (MT)	112570	137553	139109	167174	130802
Total Ash Generation (MT)	562851	687767	695545	835872	654011
Year-wise Ash utilization in MT for different utilization avenues					
For use in Cement Plants	173676	381470	96187	53223	174290
For use in road works	0	0	0	0	0
For filling of low-lying areas	105990	2830	138670	159562	141698
For fly ash-based building materials (Brick Plant)	2740	4320	30	0	282
Others (if Applicable) In ash dyke raising	204000	50960	0	0	0
Pond Ash- for abandonment of dyke	0	102290	49840	0	5000
Total Ash utilization (MT)	486406	541870	284727	212785	321270
% Ash utilization	86.4	78.8	40.9	25.5	49.1

The action plan of ash utilization as per the notification dated 31.12.2021 is as tabulated below:

Year	2022-23	2023-24	2024-25	2025-26	2026-27
Ash generation (LMT)	11.16	16.43	16.4	16.4	16.4
Cement Factories (LMT)	5.55	7.395	7.4	7.4	7.4
Cement Factories (LMT)	0.48	4.93	4.93	4.93	4.93
Low Lying Land inside of plant (LMT)	4.13	1.643	1.64	1.64	1.64

Low lying Land outside of Plant (LMT)	1	1.643	1.64	1.64	1.64
Mines Void filling In Sulariy mine (LMT)	0	0.411	0.41	0.41	0.41
Road Construction purpose (LMT)	0	0.329	0.33	0.33	0.33
Brick (LMT)	0	0.082	0.08	0.08	0.08
Total Ash Utilisation (LMT)	11.16	16.43	16.4	16.4	16.4

1.1.5 M/s Hindalco industries, Mahan Aluminum Project (Captive Power Plant)

M/s Hindalco industries, Mahan Aluminum Project has captive power plant of total 900MW capacity (6 units each of 150MW). The Consent to Operate is valid upto 30.11.2023.

The year-wise details of power production (Mega Units), coal consumption (MT), Ash (Bottom & Fly ash) generation (MT) are as tabulated below:

Financial Year	Power production	Coal consumption	Ash Generation (Bottom & Fly Ash)
	MW	MT	MT
FY 2018-19	632.05	3776893	1258003
FY 2019-20	637.05	3801556	1294049
FY 2020-21	622.206	3694862	1274175
FY 2021-22	636.638	3607437	1154471
FY 2022-23 (up to Dec 2022)	617.75	2663731	906334

The year-wise ash utilization is as tabulated below:

Financial Year	Ash utilization in MT				
	For use in cement plants	For use in road works	For filling of low-lying areas / mines	For fly ash-based building materials	Any other use
2018-19	903268	13726 (Road embankment)	NIL	NIL	948 (construction Activity)

2019-20	817494	59866 (Brick + Road Const and other)	NIL	NIL	NIL
2020-21	981171	NIL	NIL	1365 (Brick)	5103 (Construction Activity in house)
2021-22	971229	NIL	NIL	1644 (Bricks)	3205 (construction)
2022-23 (up to Dec 2022)	631055	104228	74818	1478 (Brick Plant inside)	NIL

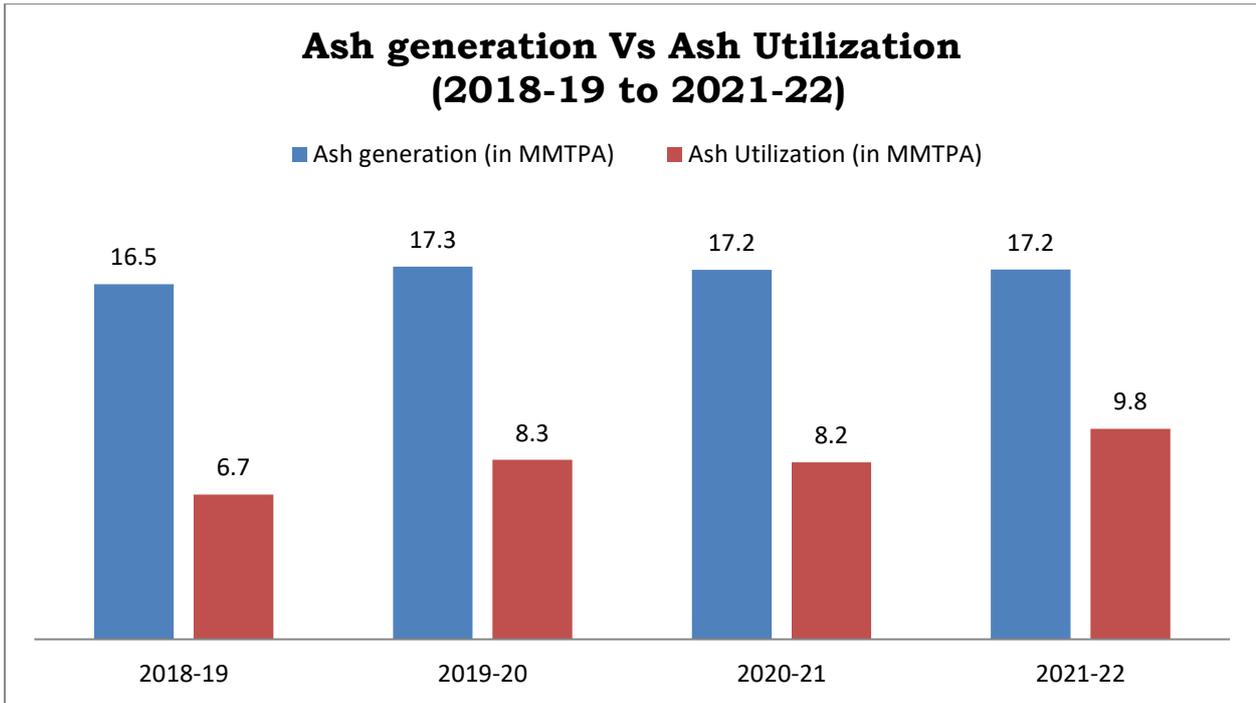
Year-wise Ash generation and % Ash utilization is as tabulated below:

Financial Year	Ash Generation in (MT)	Ash Utilization (MT)	% Ash Utilization
FY 2018-19	1258003	917942	73.0
FY 2019-20	1294049	877360	67.8
FY 2020-21	1274175	987639	77.5
FY 2021-22	1154471	976078	84.5
FY 2022-23 (Dec 2022)	906334	811579	89.5

The year-wise ash transportation is as tabulated below:

Financial Year	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 (up to Dec 2022)
By Road	917942	877360	916500	811340	586653
By Rail	0	0	71139	164738	223448

The ash generation and ash utilization by these 05 Thermal Power Plants of total 12140MW is as shown below:



Copy of the information related to TPPs is enclosed as **Annexure-V**.

2.0 Coal mines

In Singrauli (Madhya Pradesh), out of the total 12 coal mines, at present 11 in operation and 01 is yet to start its operation. Out of these 12, 08 coal mines are of Northern Coal field (NCL). The details of the mines viz. production capacity, consent to operate validity and operational status is as tabulated below:

Sr. No.	Name of Coal Mine	Production capacity (Million Ton/year)	Consent Validity	Operational status
1.	M/s. Bina Ext Project- NCL	10.5	30/11/2023	Operational
2.	M/s. Khadia Project-NCL,	15.0	31/12/2023	Operational
3.	M/s. Dudhichua Project-NCL	25.0	28/02/2024	Operational
4.	M/s. Jayant Project-NCL	25.0	30/11/2023	Operational
5.	M/s. Nigahi Project-NCL	22.50	31/12/2023	Operational
6.	M/s. Amlori Project-NCL	15.0	30/11/2023	Operational
7.	M/s. Block B Project-NCL	5.470	31/03/2024	Operational
8.	M/s. Jhingurda Project-NCL	5.0	30/01/2024	Operational
9.	M/s. Suliyari Opencast Coal Mines Project (APMDC)	5.0	31/12/2023	Operational
10.	M/s. THDC India Limited	5.6	31/08/2023	Non-Operational

11.	M/s. Amilia North Coal Mining Project, Jai Prakash Power Ventures Ltd.	2.8	31/03/2023	Operational
12.	M/s. Moher & Moher, Amlori Extension	20.00	28/02/2024	Operational

2.1 Coal production & coal transportation

The coal mines-wise last 05 years coal production and coal transportation details are as given below:

2.1.1 M/s Bina Extension project, NCL

Against the consented capacity of 10.5MTPA, the details of coal production and its transportation via Coal handling plant (CHP), railway & road is as tabulated below:

Coal mine	Particulars	Financial Year				
		17-18	18-19	19-20	20-21	21-22
M/s. Bina Ext Project- NCL	Coal production (MMT)	7.5	7.5	7.5	8.41	9.0
(Consented capacity 10.5MTPA)	Coal transportation					
	Mine to CHP to Railway	2.66	3.18	3.21	3.54	3.99
	Mine to siding to railway	2.38	1.87	2.21	2.36	3.21
	Via road	2.22	1.82	1.66	1.178	2.31
	% of road transport	29.6	24.3	22.13	14.0	25.7

M/s Bina Ext Project has the linkage of coal with Anpara Thermal Power Station, Uttar Pradesh, (1630MW) & Obra Thermal Power Station, Uttar Pradesh (1550MW) of M/s UPRVUNL through rail mode. It also serves as a Basket Linkage mine to meet the overall demand on NCL.

The present capacity of CHP with silo is 4.50 MTPA. Remaining coal is transported through railway wagons at Wharf-wall situated within the mine leasehold area and by covered trucks. The prominent road route of coal transport is Shaktinagar to Auri mod state highway via Anpara in Uttar Pradesh.

Construction of CHP of 9.5 MTPA Capacity is under process. LOA issued vide letter no. NCL/ SGR/ CMC/ Bina KKR CHP/ LOA/ 21-22/ 386 dated 25.11.2021 and site handed over on 31/ 12/ 2021. Timeline for completion is Dec, 2023. This will further reduce the road transport.

2.1.2 M/s. Khadia Project-NCL

Against the consented capacity of 15 MTPA, the details of coal production and its transportation via Coal handling plant (CHP), railway & road is as tabulated below:

Coal mine	Particulars	Financial Year				
		18-19	19-20	20-21	21-22	2022-23 (till Jan 23)
M/s. Khadia Project-NCL (Consented capacity 15 MTPA)	Coal production (MMT)	11.4	13.18	14	14	12.83
	Coal transportation					
	Mine to CHP	7.64	9.2	9.38	9.99	8.39
	Mine to siding to railway	0	0	0	0.33	0.54
	Via road	4.15	3.6	3.23	4.56	3.73
% of road transport	36.4	27.3	23.1	32.6	29.1	

Note: As informed the road transportation from FY 2020-21 to 2021-22 was increased due to liquidation of stock increased due to Covid-19.

Presently, there is one CHP of 10MTPA capacity is installed. The coal is being dispatched through MGR to Anpara & Lanco TPP in Uttar Pradesh. Addition to this, for rail dispatch, around 2.19 MTPA coal is being dispatched through Krishnashila CHP and 02 MTPA through Jhingurdah Wharfwall.

For further increase in rail dispatch capacity, Construction of a wharf wall of around 04 MTPA capacity is under progress in Uttar Pradesh and likely to be completed by **June'2023**.

2.1.3 M/s. Dudhichua Project- NCL

Against the consented capacity of 25 MTPA, the details of coal production and its transportation via Coal handling plant (CHP), railway & road is as tabulated below:

Coal mine	Particulars	Financial Year				
		17-18	18-19	19-20	20-21	21-22
M/s. Dudhichua Project- NCL (Consented capacity 25 MTPA)	Coal production (MMT)	15.5	15.5	17.7	20.2	22.1
	Coal transportation					
	Via road	-	1.59	2.30	0.75	3.28
% of road transport	-	10.3	13.0	3.7	14.8	

M/s Dudhichua Project has linkage with M/s NTPC Vindhannagar (MP) & NTPC Shaktinagar (UP) and coal is being transported through dedicated Merry-Go-Round (MGR) system. Transportation of coal from CHP to SILO is done via Closed Belt Conveyor System.

Depending upon demand supply scenario of NCL, a few quantities of coal is being transported through rail and road mode. Extent of road transportation is **10-15% approx.** For coal transportation, State highway roads of MP & UP are being used. The major coal transportation route is:

- I. Dudhichua mine to Jayant bus stand to Shukla mod to Bargawan railway siding of West-Central Railways.
- II. Dudhichua to Auri mod to Anpara

Further, in addition to the existing CHPs of 15 MTPA, a CHP of 10.00 MTPA is under construction, which is expected to be completed **by 31.10.2023**. After commencing of above 10 MTPA CHP, road transportation to the public railway sidings will be minimized and coal stored in silos will be directly loaded into railway rakes from silos it-self for outward transportation.

2.1.4 M/s Jayant Project-NCL

Against the consented capacity of 25 MTPA, the details of coal production and its transportation via Coal handling plant (CHP), railway & road is as tabulated below:

Coal Mine	Particular	2018-19	2019-20	2020-21	2021-22	2022-23 (upto Jan 2023)
M/s Jayant Project-NCL (Consented capacity 25 MTPA)	Coal Production in Million MT	18.37	19.53	21.03	24.74	21.5
	Coal Transportation					
	From mine to CHP to MGR & Railway	9.658	10.696	10.972	11.257	10.323
	From Mine to siding to Railway	5.812	6.049	6.088	8.038	7.59
	From mine to other locations (Via Road)	3.044	2.727	2.823	5.115	4.598
	Total transportation	18.514	19.472	19.883	24.41	22.511
% road transportation		16.4	14	14.2	21	20.4

Presently, there is 10MTPA CHP plant is installed. The merry go-round railway is used for transportation of coal to from CHP to M/s NTPC Shaktinagar (UP) and other TPP which are connected to Indian railway.

The coal road transport varied from 14% to 21% during last 05 years. The prominent routes of road transport are:

Route 1. Jayant- Auri mod- Anpara-Varanasi to other locations

Route 2. Jayant-Singrauli- to Bargawan-Katni to other locations

Route 3. Jayant Mine to Spur I & Spur II of Morba siding at Singrauli Railway Station

Further, in addition to the existing CHP of 10 MTPA, a CHP of 15.00 MTPA is under construction, which is expected to be **completed by 31.03.2023**. After commencing of above 15 MTPA CHP, road transportation will be minimized.

2.1.5 M/s. Nigahi Project-NCL

Against the consented capacity of 22.5 MTPA, the details of coal production and its transportation via Coal handling plant (CHP), railway & road is as tabulated below:

Coal Mine	Particulars	2018-19	2019-20	2020-21	2021-22	2022-23 (upto Jan 2023)
M/s. Nigahi Project-NCL Consented capacity 22.5MTPA	Year-wise for the past five years coal production (MT)	18.48	19.59	20.66	21	19.31
	Coal transportation					
	Total Coal Transportation	18.23	19.44	20.03	22.1	19.48
	From Mine to CHP to Railway	16.73	15.81	16.11	15.25	13
	From Mine to Siding to Railway (Railway Wharfwall)	0	1.24	1.79	3.86	4.09
	From Mine to Other location (via Road)	1.5	2.39	2.13	2.99	2.39
	% road transportation	8.2	12.3	10.6	13.5	12.3

M/s Nigahi Project has linkage with M/s NTPC, Vindhyannagar (MP) and coal is being transported through dedicated Merry-Go-Round (MGR) system. Transportation of coal from CHP to SILO is done via Closed Belt Conveyor System. Depending upon demand supply scenario of NCL, a few quantities of coal is being transported through rail and road mode.

Extent of road transportation is around **8.2% to 13.5%** in last 05 financial years. In addition to the existing CHP of 15 MTPA, a CHP of 10 MTPA is under construction, which is expected **to be completed by 31.03.2024**. After commencing of above 10 MTPA CHP, road transportation will be minimized.

2.1.6 M/s. Amlori Project-NCL

Against the consented capacity of 15 MTPA, the details of coal production and its transportation via Coal handling plant (CHP), railway & road is as tabulated below:

Coal mine	Parameters	2022-23 (till Jan)	2021- 22	2020 -21	2019- 20	2018- 19
M/s. Amlori Project-NCL Consented capacity (15MTPA)	Coal Production (MT)	11.83	14.00	13.61	13.47	13.04
	Coal Transportation (MT)					
	From Mine to CHP to MGR	10.50	12.19	10.69	11.61	11.61
	From Mine to Siding to Wharfwall	1.74	1.77	1.80	0.93	-
	From Mine to other location (via Road)	0.26	0.39	0.44	0.89	0.46
	% road transport	2.2	2.8	3.2	6.6	3.5

M/s Amlohri Project has coal linkage with M/s Rihand Supper Thermal Power Plant, Rihand (Uttar Pradesh), and coal is being transported through MGR system. Transportation of coal from receiving pit to Silo is being done through closed conveyor belt system fitted with mist spraying system at receiving pit and transfer points. Extent of road transportation is small around **2.2% to 6.6%** in last 05 financial years.

2.1.7 M/s. Block B Project-NCL

Against the consented capacity of 5.47 MTPA, the details of coal production and its transportation via Coal handling plant (CHP), railway & road is as tabulated below:

Coal Mine	Particulars	2018-19	2019-20	2020-21	2021-22	2022-23 (upto Dec 2022)
M/s. Block B Project-NCL Consented capacity 5.47 MTPA	Year-wise for the past five years coal production (MT)	5.469	5.469	5.47	5.47	4.50
	Coal transportation					
	Total Coal Transportation	5.5	5.54	5.42	5.48	4.49
	From Mine to CHP to Railway	-	-	-	3.15	3.77
	From Mine to Siding to Railway	4.12	4.22	4.45	1.03	0
	From Mine to Other location (via Road)	1.38	1.32	0.97	1.30	0.72
	% Road transportation	25.1	23.8	17.9	23.7	16.0

The coal road transport during last 05 financial years varied from **16% to 25.1%**. The road transport majorly is through ‘Jayant Circle to Shukla Mod to Singrauli to Rewa-Ranchi NH 39’. Project has commenced Indian Railway connectivity from last FY i.e. 2021-22 onwards, and thus reduced transportation of coal to railway sidings via Road. CHP of 3.5 million tonnes per annum capacity is working. Coal is being transported by railway wagons. Expansion of 4.5 million tonnes per annum capacity coal handling plant being under construction and completed up to **July 2023**.

2.1.8 M/s. Jhingurda Project-NCL

Against the consented capacity of 5 MTPA, the details of coal production and its transportation via Coal handling plant (CHP), railway & road is as tabulated below:

Coal Mine	Particulars	2017-18	2018-19	2019-20	2020-21	2021-22
M/s. Jhingurda Project-NCL	Year-wise for the past five years coal production (MT)	2.63	2.66	2.63	2.57	2.74
	Coal transportation					

Consented capacity 5 MTPA	Total Coal Transportation	2.6	2.55	2.8	2.47	2.48
	From Mine to CHP to Railway	1.3	1.13	0.25	-	-
	From Mine to Siding to Railway	-	-	1.7	2.38	2.24
	From Mine to Other location (via Road)	1.3	1.42	0.85	0.09	0.24
	% Road transportation	50	55.7	30.4	3.6	9.7

M/s Jhingurda Project is being served as basket linkage for coal dispatched to power plants through rail mode from Jhingurda wharf wall. There are 02 coal crusher established. Maximum coal of the project is being dispatched through rail mode. The coal transport during last 05 financial years reduced from 55.7% to 9.7% in FY 2021-22 after the railway connectivity since 2019-20.

In addition to the existing pucca roads, construction work of additional CC road (250 m) for internal coal transportation is under progress, which is expected to be **completed by 28.02.2023**.

Another work “Major repair/renovation and widening of existing magazine road to connect Wharfwall for coal transportation at Jhingurda” (Length: 1.9 Kms) is also under progress, which is expected to be completed **by 30.06.2023**.

2.1.9 M/s. Suliyari Opencast Coal Mines Project (APMDC)

The Suliyari opencast mine is allotted to Andhra Pradesh Mineral Development Corporation (APMDC) and operated by Adani group. The operation of coal mine started in FY 2022-23. Against the consented capacity of 5 MTPA, the details of coal production and its transportation via Coal handling plant (CHP), railway & road is as tabulated below:

M/s. Suliyari Opencast Coal Mines Project (APMDC) Consented capacity 5MTPA	
Coal Production	
FY 2022-23 Upto 31st Jan	2.383513MMT
Coal transportation	
Suliyari Mine to M/s Mahan Energen Ltd Thermal Power Plant and Gajra Behra Coal siding completely via Road (25-30KMs)	

100% coal transport is being carried out **via road** i.e. from Suliyari mines to Gajra Behra siding & thermal Power Plant located at Bargawan. Widening and strengthening of existing road (Approx 4.7 km) is ongoing.

2.1.10 M/s. THDC India Limited

The mine is consented for 5.6MTPA, however operation is not yet started.

2.1.11 M/s. Amilia North Coal Mining Project, Jai Prakash Power Ventures Ltd.

Against the consented capacity of 2.8 MTPA, the details of coal production and its transportation via Coal handling plant (CHP), railway & road is as tabulated below:

M/s. Amilia North Coal Mining Project, Jai Prakash Power Ventures Ltd. consented capacity 2.8MTPA				
Year wise coal production (MT)				
2017-18	2018-19	2019-20	2020-21	2021-22
2.8	2.8	2.8	2.8	2.8
Year-wise coal transportation by Railway				
2.8	2.8	2.8	2.8	2.8

NO road transportation is in practice.

2.1.12 M/s. Moher & Moher, Amlori Extension

Against the consented capacity of 20 MTPA, the details of coal production and its transportation is as tabulated below:

Coal mine	FY	Coal Production in (Million MT)	Coal Transportation (Million MT)	Remark
M/s. Moher & Moher, Amlori Extension (20MMTPA)	2017-18	18.0	18.0	A 22KMs long Over-Land-Conveyor system established from Mine to M/s Sasan Thermal Power Plant.
	2018-19	18.0	18.0	
	2019-20	18.7	18.8	
	2020-21	18.6	18.1	
	2021-22	18.0	18.2	

NO coal transport through road.

Copy of the information related to Coal Mines is enclosed as **Annexure-VI**.

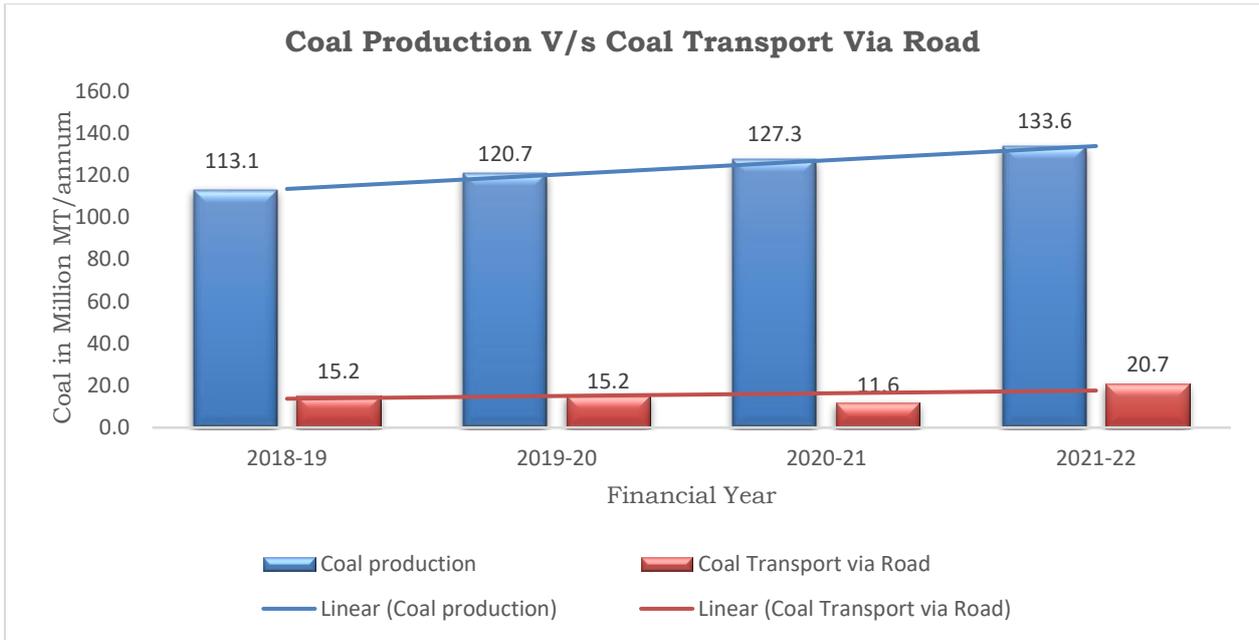
3.0 Coal transport via road

The coal transport by coal mines via road network during 2018-19 to 2021-22 is as tabulated below:

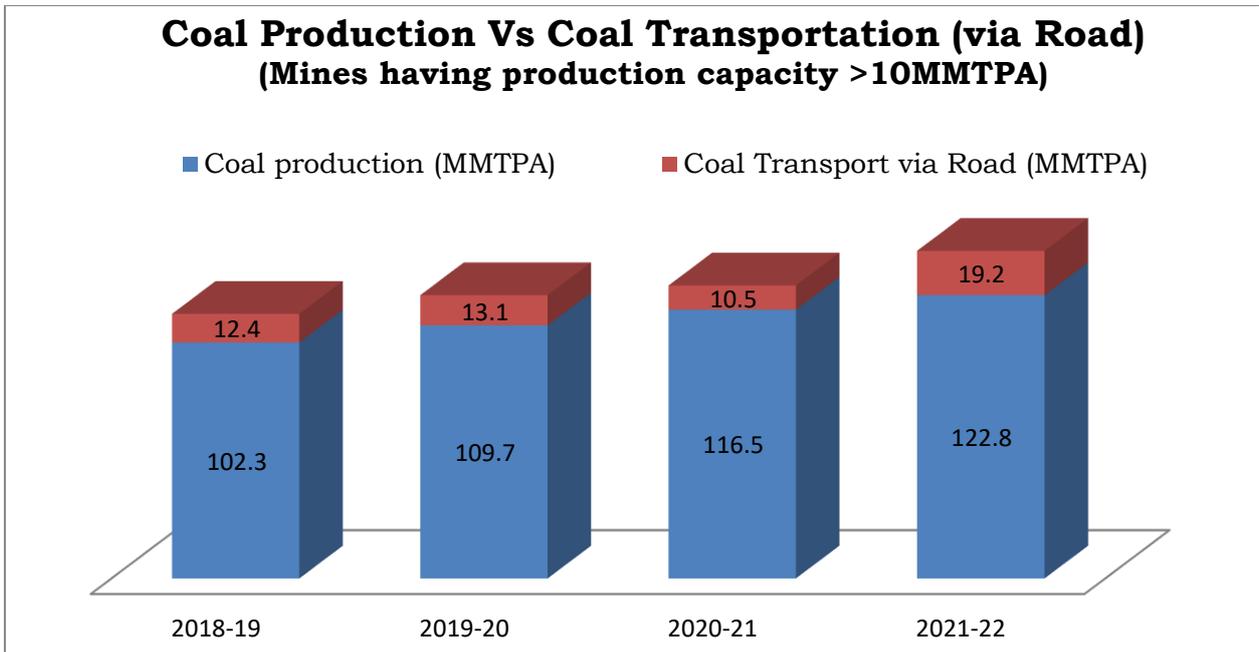
Sr. No.	Name of Coal Mine	CTO capacity MTPA	Coal Production (MMTPA)				Coal Transport via Road in MMTPA			
			2018-19	2019-20	2020-21	2021-22	2018-19	2019-20	2020-21	2021-22
1	M/s. Bina Ext Project	10.5	7.5	7.5	8.4	9.0	1.8	1.7	1.2	2.3
2	M/s. Khadia Project	15	11.4	13.2	14.0	14.0	4.2	3.6	3.2	4.6
3	M/s. Dudhichua Project	25	15.5	17.7	20.2	22.1	1.6	2.3	0.8	3.3
4	M/s. Jayant Project	25	18.4	19.5	21.0	24.7	3.0	2.7	2.8	5.1
5	M/s. Nigahi Project	22.5	18.5	19.6	20.7	21.0	1.5	2.4	2.1	3.0
6	M/s. Amlori Project	15	13.0	13.5	13.6	14.0	0.3	0.4	0.4	0.9
7	M/s. Block B Project	5.47	5.5	5.5	5.5	5.5	1.4	1.3	1.0	1.3
8	M/s. Jhingurda Project	5	2.6	2.8	2.5	2.5	1.4	0.9	0.1	0.2
9	M/s. Amilia Coal Project	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0
10	M/s. Moher Amlori Ext	20	18.0	18.7	18.6	18.0	0.0	0.0	0.0	0.0

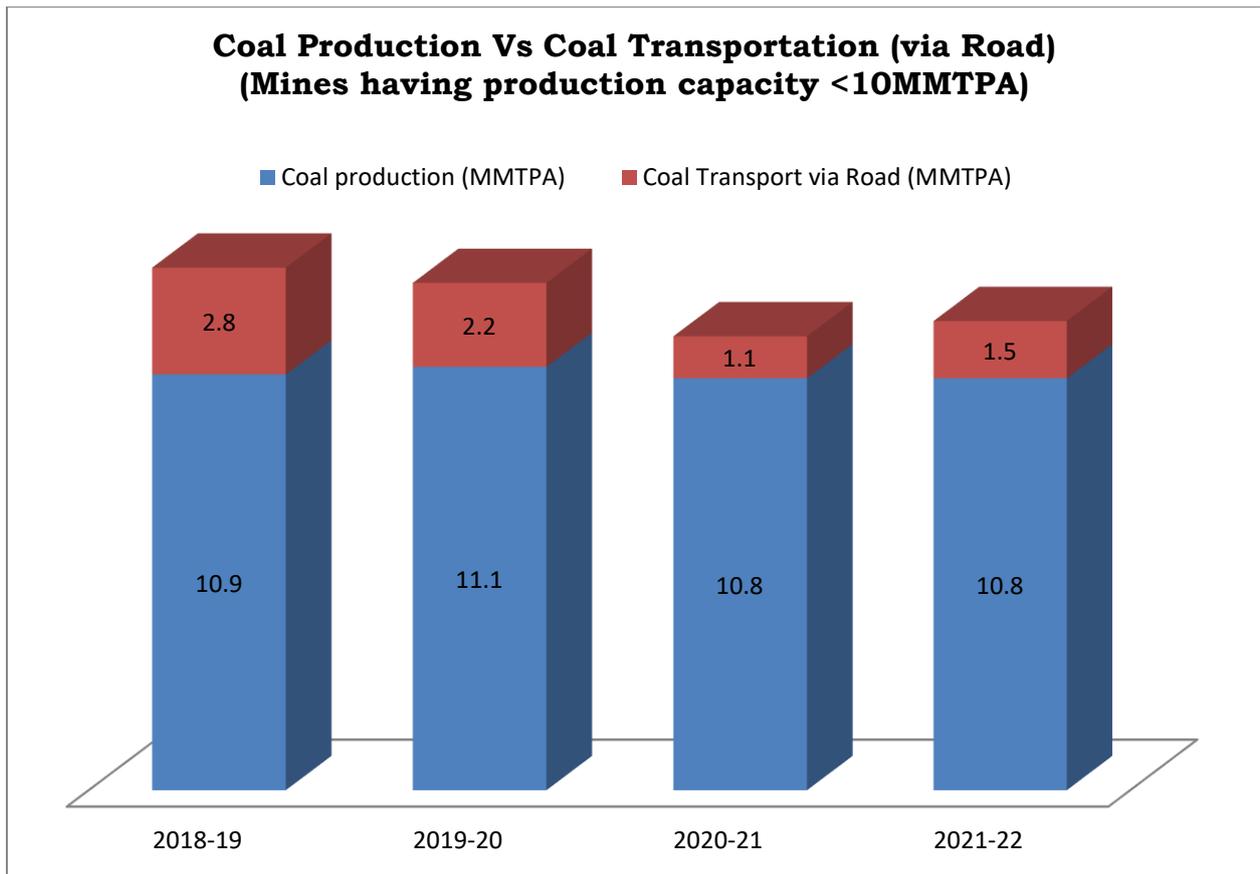
Note: M/s. Suliyari Opencast Coal Mines Project (APMDC) started its coal production in FY 2022-23 and till Jan 2023 the coal production was 2.38MMTPA and was transported in 100% via road.

The coal production during FY 2018-19 to 2021-22 v/s coal road transport is as shown below:



The status of coal transportation via road in coal mines either having CTO of >10MMTPA or <10MMTPA is as shown below:





There were 10 operational coal mines during 2018-19 to 2021-22 periods. Out of these 07 are having production capacity >10MMTPA & 03 has less than this. The road coal transport increased from 12.1% to 15.6% since 2018-19 to 2021-22 in mines having >10MMTPA production capacity. The coal production also increased from 102.3 MMTPA to 122.8 MMTPA since 2018-19 to 2021-22. Whereas in 03 (<10MMTPA capacity) the road coal transportation reduced from 25.7% to 13.9% since 2018-19 to 2021-22; however the production was nearly same in these years. It is pertinent to mention here that the M/s. Suliyari Opencast Coal Mines Project (APMDC) started coal production during FY 2022-23 and 100% coal was transported via road. Also its coal transport was 100% via road. Also on start of operation of M/s. THDC India Limited the coal transportation via road will increase in <10MMTPA production capacity coal mines.

The % contribution of coal transportation via road by the 08 coal mines is as below:

Sr. No.	Name of Coal Mine	% Contribution in Coal transport via road by individual mines			
		2018-19	2019-20	2020-21	2021-22
1	M/s. Bina Ext Project	12	11	10	11
2	M/s. Khadia Project	28	24	28	22
3	M/s. Dudhichua Project	11	15	7	16
4	M/s. Jayant Project	20	18	24	25
5	M/s. Nigahi Project	10	16	18	14
6	M/s. Amlori Project	2	3	3	4
7	M/s. Block B Project	9	8	9	6
8	M/s. Jhingurda Project	9	6	1	1

M/s Amilia Coal Project & M/s. Moher Amlori Ext has no coal transport via road. Secondly M/s. Suliyari Opencast Coal Mines Project (APMDC) haven't started till FY 2021-22. However, during FY 2022-23 its coal transport was 100% via road.

4.0 Major routes used for coal & ash transportation in Singrauli (MP)

Mainly the quantum of coal transported via road goes towards Uttar Pradesh through Shaktinagar to Auri to Anapara to Renukoot. Some coal mines falls between both the States (Madhya Pradesh & Uttar Pradesh) i.e. Bina Extension project, Khadia Project & Dudhichua Project transport their coal via road majorly towards Uttar Pradesh.

Following are the major routes of coal transport via road:

S.NO.	Coal Mine	Routes of coal transportation via Road
1.	M/s. Bina Ext Project	Route 1 (Uttar Pradesh) Shaktinagar to Anpara via Auri
2.	M/s. Khadia Project	Route 1 (Uttar Pradesh) Shaktinagar to Anpara via Auri
3.	M/s. Dudhichua Project	Route 1 (Uttar Pradesh) Dudhichua to Auri mod to Anpara Route 2 (Madhya Pradesh) Dudhichua mine to Jayant bus stand to Shukla mod to Bargawan Railway Station
4.	M/s. Jayant Project	Route 1 (Uttar Pradesh) Jayant- Anpara-Varanasi to other locations of UP Route 2 (Madhya Pradesh) Jayant to Singraulli to Bargawan to Katni to other locations of MP

		Route 3. (Madhya Pradesh) Jayant Mine to Spur I & Spur II of Morba siding at Singrauli Railway Station
5.	M/s. Nigahi Project	Routes (MP & UP) 1. Mudwani to Shaktinagar to Auri to Anapara 2. Spur I & Spur II of Morwa siding to Auri to Anpara
6.	M/s. Amlori Project	Routes (MP & UP) 1. Mudwani to Shaktinagar to Auri to Anapara 2. Morwa siding to Auri to Anpara
7.	M/s. Block B Project	Routes (MP & UP) Rewa-Ranchi NH39 (via Renukoot)
8.	M/s. Jhingurda Project	Route 1 (Uttar Pradesh) Jhingurda to Anpara-Singrauli road to Auri
9.	M/s Suliyari OC mine	Route (Madhya Pradesh) Suliyari coal mines to Amiliya to Gajra Behra/Bandhaura (Mahan Energen Ltd) total 25-30KMs road transport

The longest road length used in Singrauli (MP) for coal transport to Uttar Pradesh is Shaktinagar to Jayant mod to Shukla mod to Jayant-Singrauli Road to UP border (near Auri) is about 25KMs in length. This is followed by Gorbi to Singrauli-Jayant Road to UP border (near Auri) passes near to Jhingurda mines is about 17KMs long.

The major routes used for ash transportation for various purposes viz. low-lying area filling, mine filling, cement plant etc. are as following:

1. Vindhyanagar to Shaktinagar to Mudwani dam to Jayant mod to Sukla mod to Gorbi block B mine filling
2. Vindhyanagar to Waidhan to Majan mod to Parsona to Bargawan to cement plant (Katni/Rewa/Satna districts)
3. Nigrie to Sidhi By Pass to Churhat bye-pass to Rampur Naikin to Baghwar to Cement Plant
4. Bandhaura to Amiliya to Sarai to Cement Plant
5. Bargawan to Sidhi to Rewa to Maihar to Cement plants

On above major routes, ash is being transported in specially designed covered trucks, bulker, trucks etc. However, chances of spillage enroute due to bad road condition can't be overruled.

5.0 Transportation of ash & coal

Central Pollution Control Board has published guidelines in 2013 for “Loading, unloading and nuisance free transportation of all types of fly ash, including bottom ash etc. generated by thermal power stations” as per the Para 7.1 **“Maximize dry collection of fly ash and bottom ash”** emphasis has been made on dry ash collection of fly ash. However, presently other than the dry ash utilized through Cement plants, brick manufacturer, road construction, low lying area & mine filling rest of the ash is dumped in ash dyke in slurry form. A large quantum is being stored in ash dykes. The dry ash is collected in Silos and transported through Bulkiers, specially designed trucks (top is closed with 02 openings to collect dry ash). However the ash transported from ash dykes, (which is in partially wet condition) is being loaded in open trucks with the help of JCBs and the trucks are covered with tarpaulin/cloth sheet/green mesh. The ash is being moist by water sprinkling to minimize the fugitive emission during transportation. Same was being observed during field visit. **However, currently no such mechanically designed covered trucks are in use to transport the ash from the ash dyke.**

The coal mines are transporting coal via road through trucks & tippers by providing tarpaulin cover on the top. As per the provisions that have been made by coal mines management in general, multiple check-points to ensure for coal loading as per permitted weight and compulsory covering on the top of the truck/tippers at entry gate, weigh bridge and exit gate is ensured. On loading more coal then the permit the truck driver is asked to park the truck in side and unload the excess coal and again get it weigh. Secondly, on observation of trucks' cover if found torn or damaged, the truck driver is asked to replace it.

However during field visit committee observed that the check points provided to ensure proper weighing and covers are in place, but not adhered to strictly. On random check by the committee, the quality of the truck/tipper's covers were found not of good quality and were also found damaged, short in length and width to fully cover the loaded material or to properly cover the loaded material on the trucks. A thick, high density full-size tarpaulin (HDPE) cover is required to be used. Similarly no provisions have been made to wash the tyre or lower body of the coal / fly ash transporting trucks before they leave the TPP or coal mine premises. Consequently the trucks that carry legacy mud / fly ash etc stuck to their lower bodies, which keep dropping at every bump or pot holes on the road and a cause us dust & mud on the roads.

Similarly same roads are being used for the transportation of the coal / fly ash as well as for the commuting of the public at large and the area has no alternate roads for the public movement. The issues raised by the petitioner are more confined towards transportation of the fly ash, but road transportation of coal in the area also carries similar concerns. In nut shell, it can be inferred that the CPCB guideline of 2013 regarding transportation of Fly ash for its dust free transportation as well as the measures adopted by the coal mines for the dust free handling and road transportation of coal by the transporters are not being ensured in letter and spirit either by the TPPS, coal mines or by the transporters. Primarily, no laxity at the fly ash producer (TPPs) or coal producers (Mines) is tolerable if the dust free transportation of these materials has to be ensured.

6.0 Action proposed to reduce coal transport via road by the coal mines:

Seven coal mines have proposed to establish new Coal handling plant, Warfwall, rapid loading system through conveyor to increase the transportation through railway wagon and to minimize the coal transport via road. The details of the proposed activity, their capacity and proposed completion schedule is as tabulated below:

Sr. No.	Name of Coal Mine	Presently available facility in MMTPA	Proposed capacity in MMTPA			Completion by
		Coal Handling Plant (CHP)	Coal Handling Plant (CHP)	Warf-wall	Rapid loading system through Conveyor	
1	M/s. Bina Ext	4.5	9.5	-	-	Dec-23
2	M/s. Khadia	10	-	4	-	Jun-23
3	M/s. Dudhichua Project	15	10	-	-	Oct-23
4	M/s. Jayant Project	10	15	-	-	Mar-23
5	M/s. Nigahi Project	15	10	-	-	Mar-24
6	M/s. Amlori Project	10	-	-	2.5	Sep-23
7	M/s. Block B Project	3.5	4.5	-	-	Jul-23

M/s Mahan Energen Ltd has planned to receive coal from M/s. Suliyari Opencast Coal Mines Project (APMDC) to its plant through conveyor belt by

year 2026. Currently there is no progress on field. The progress is at the initial level studies and documentation.

7.0 Field observations

The committee during its field visit (9th -11th Feb 2023) of coal mines and thermal power plants has observed following regarding the road transportation:

- The coal transported via road majorly goes to Uttar Pradesh (UP) by the route of Shaktinagar to Auri to Anapara (UP) & other places. The second major road route opted for transporting the coal is Jayant mod to Shukla mod to Auri to Anpara (UP) & other places.
- The road widening and road repairing work was ongoing of prominent road route of Madhya Pradesh i.e. Jayant mode to Shukla Mod.
- The coal dust was found lying on the side of the road route of Jayant to Singrauli to Auri Road. However, ongoing cleaning work was also observed during visit.
- The water sprinkler & fogger were found operation on the road route of Jayant mod to Shukla mod.
- The coal transportation was being done in trucks and tippers. On random check of the vehicles covers, it was found that a good number of covers were either damaged/torned or were inadequate to cover the truck fully to avoid fall of coal. Secondly the quality of the cover used is also not good. Heavy duty HDPE tarpaulin or cloth cover of required thickness (such as 400GSM or more) to be used for avoiding fall of coal from vehicles. Automatic / mechanical type of tarpaulin cover system shall be installed on each vehicle carrying coal as envisaged in the CPCB Guidelines of 2013 for the transportation of fly ash, for the transportation of coal as well.
- On random check, it was observed that the **dry ash** is being transported in bulkers and specially designed covered trucks whereas the **wet ash** was being transported in truck with full cover on the truck. Transportation of wet ash through tractors is also in practice. **However, as stipulated in the CPCB guideline, 2013; currently no such mechanically designed covered trucks are in use to transport the ash from the ash dyke.**
- No effective vigilance through CCTV was found on the major routes of coal & ash transportation.
- M/s. Suliyari Opencast Coal Mines Project (APMDC) transporting its coal 100% via road to Gajra Behra coal siding and M/s Mahan Energen Ltd Thermal Power Plant and proper upkeep of the transportation road and its timely wetting by water sprinkling has been found to be a concern, about which a large number of local villagers have recorded their protest before the visiting team.

- Progress was observed in the coal mines regarding the proposed new coal handling plants. But the concern remains that the coal mines has undergoing capacity expansion day by day. May be that percentage-wise the coal transportation by road may look less due to installation of added capacity of CHPs, but consequent to the capacity expansion, quantity (tonnage) of coal transport will also increase. Hence strict compliance and vigilance on the part of coal mines will be more required.
- Bad transportation road and delaying in road construction also seems to be cause of concern for the dust on the roads, or trucks dropping coal / fly ash on roads due to bad road conditions, ruts and pot holes etc.

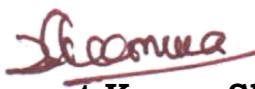
8.0 Recommendations

- i. The transporters are using poor quality/ineffective tarpaulin of thin layer as the thickness of tarpaulin is not specified yet. The coal mines & TPPs may be directed to ensure that the truck/tippers cover is of heavy duty such as 400GSM & more thickness and adequate is size to avoid fall of coal & ash on road during transport.
- ii. Coal mines, Thermal Power plants and District Administration may jointly establish the night vision Pan-tilt-zoom CCTVs & lights at prominent locations along the roads used for transportation of coal & ash. Also establish a control room (24x7) at the Office of Collector/traffic police office with dedicated staff to have effective vigilance on the vehicles engaged in coal and ash transportation.
- iii. The TPPs / Coal mine should also device a mechanism to impose penalty on violation by the truckers / transporters including blacklisting the violators or not allowing the trucks found with improper body or insufficient covers to enter their premises to load coal / fly ash. A checklist in this regard shall be maintained at the entry to the mines/TPPs and vehicles not adhering to the norms shall not be allowed to enter the mines/TPPs. Such checklist shall be made available to all the regulatory authorities on request.
- iv. Coal mines in consultation with third party agency and road making authorities (NHAI, MPRDC/PWD) shall formulate a traffic management plan with emphasis on road safety on the prominent routes of coal & ash transportation to decongest the traffic and minimize possibility of accidents.
- v. Coal mines & TPPs to ensure that all the vehicle engaged in transportation of fly ash & coal has valid Pollution Under Check (PUC) certificate and also carryout periodic random PUC check of the vehicles in co-ordination with Regional Transport Office.
- vi. Thermal Power plant shall engage mechanically designed vehicles to transport the wet ash too.

- vii. MPPCB to ensure effective implementation of the CPCB guideline (2016) for “disposal/utilization of Fly ash for reclamation of low-lying areas and in stowing of abandoned mines/quarries”. Further, MPPCB shall provide the low-lying area for filling as per the notification and place the allotted locations details (agency, capacity, geo-location etc.) on their website.
- viii. Nagar Nigam shall deploy mechanized road sweeping machines (on contractual basis) all along the coal & fly ash transportation corridor falling within the municipal limits and the expenditure incurred for the said contract shall be borne by the respective coal/fly ash producers based on their contribution towards road transport.
- ix. The district administration in consultation with the neighboring state of UP as well as PWD / Nagar Nigam shall make short term and long-term plan to create alternate / separate roads for the coal / fly ash transportation and for the commuting of the general public.
- x. The NAHI should ensure that the work of the National Highway (NH 39) that is being under construction for a long time should be completed at the earliest.


(Dr H V G Chary)
Scientist-E
MoEFCC, Bhopal


(Sunil Kumar Meena)
Scientist-D
CPCB, Bhopal


(Hemant Kumar Sharma)
Director(Environment)
MPPCB, Bhopal

Item No. 08

Court No. 2

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 862/2022

Pankaj Kumar Mishra

Applicant

Versus

Union of India & Ors.

Respondent(s)

Date of hearing: 25.11.2022

**CORAM: HON'BLE MR. JUSTICE SUDHIR AGARWAL, JUDICIAL MEMBER
HON'BLE PROF. A. SENTHIL VEL, EXPERT MEMBER**

Applicant: Mr. Pankaj Kumar Mishra, Applicant in Person

ORDER

1. Heard applicant in person.
2. This original application has been filed under Sections 14, 15, 17 and 18(1) of National Green Tribunal Act, 2010 (hereinafter referred to as 'NGT Act, 2010') raising a grievance that transportation of fly ash by various thermal power stations located at Singrauli and Sonebhadra region are causing huge air pollution on the roads and local residential areas and the authorities responsible for monitoring and supervising such transportation are not acting in accordance with provisions of law and 2013 and 2019 Guidelines laid down in this regard by Central Pollution Control Board (hereinafter referred to as 'CPCB').
3. In our view, matter requires consideration as it involves a substantial question relating to environment arising from implementation of the

enactments specified in Schedule I of NGT Act, 2010. However, before proceeding further, we find it appropriate to obtain a factual report for which we constitute a joint Committee comprising MoEF&CC, CPCB and State PCB who shall submit a factual report within three months by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/ OCR Support PDF and not in the form of Image PDF.

4. The report shall highlight on the compliance with the aforesaid provisions relating to transportation of fly ash in accordance with Singrauli and Sonebhadra action plan to maintain environmental quality of this critically polluted area.

5. CPCB will be nodal agency for coordination and compliance.

6. List for further consideration on 03.03.2023.

7. A copy of this order be forwarded to comprising MoEF&CC, CPCB and State PCB by e-mail for compliance.

8. The applicant may serve a set of papers upon MoEF&CC, CPCB and State PCB and file an affidavit of service within a week.

Sudhir Agarwal, JM

Prof. A. Senthil Vel, EM

November 25, 2022
Original Application No. 862/2022
DV

दिनांक:- 02 फरवरी, 2023

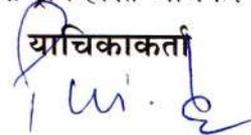
सेवा मे,

श्रीमान चैयरमैन महोदय
केन्द्रीय प्रदुषण नियंत्रण बोर्ड, नई दिल्ली।

विषय:- माननीय राष्ट्रीय हरित अधिकरण, नई दिल्ली द्वारा Original Application No. 862/2022, Pankaj Kumar Mishra v/s Union of India & Ors. मे पारित आदेश दिनांक:-25.11.2022 के अनुपालन मे गठित कमेटी के स्थलीय निरीक्षण/बैठक के संदर्भ मे याचिकाकर्ता को ससमय सूचित किये जाने बाबत्।

महोदय,

उपरोक्त विषयान्तर्गत आपको अवगत कराना है कि माननीय राष्ट्रीय हरित अधिकरण, नई दिल्ली द्वारा Original Application No. 862/2022, Pankaj Kumar Mishra v/s Union of India & Ors. मे दिनांक:-25.11.2022 को पारित आदेश मे जनपद:-सोनभद्र(उत्तर प्रदेश) व जनपद:-सिंगरौली(मध्य प्रदेश) मे राख अभिवहन व अन्य कारणो से हो रहे गम्भीर प्रदुषण पर वास्तविक/ताथ्यिक स्थिति के आंकलन हेतु कमेटी गठित की गयी है, उक्त कमेटी के स्थलीय निरीक्षण व बैठक के बाबत् याचिकाकर्ता को को ससमय सूचित किया जाये ताकि याचिकाकर्ता कमेटी के समक्ष प्रदुषण से सम्बन्धित साक्ष्य/अभिलेख/तथ्य व याचिका मे दर्शाये गये बिन्दुओ को समुचित तरीके से प्रस्तुत करे जिससे युक्ति-युक्त Factual Report तैयार हो सके व कमेटी उक्त रिपोर्ट को माननीय राष्ट्रीय हरित अधिकरण के प्रस्तुत कर सके।

याचिकाकर्ता


(पंकज कुमार मिश्रा)

सेवा शाखा, ग्राम:-औडी, पोस्ट:-अनपरा
जिला:-सोनभद्र, उत्तर प्रदेश, पिन:-231225

मो.न.-9839298409

इमेल:-Pankajmishraanpara@gmail.com

संलग्नक:-

1. माननीय राष्ट्रीय हरित अधिकरण, नई दिल्ली द्वारा Original Application No. 862/2022, Pankaj Kumar Mishra v/s Union of India & Ors. मे पारित आदेश दिनांक:-25.11.2022 कि छायाप्रति।

प्रतिलिपी:-

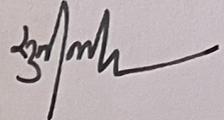
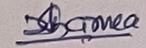
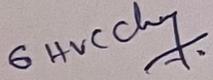
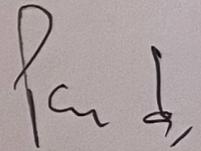
- 1) सचिव, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार।
- 2) चैयरमैन, मध्य प्रदेश प्रदुषण नियंत्रण बोर्ड।
- 3) चैयरमैन, उत्तर प्रदेश प्रदुषण नियंत्रण बोर्ड।

OA 862/2022. order dt 25.11.2022

Pankaj Kumar Mishra Vs UOI

ANNEXURE_III

Meeting with petitioner & committee members.
on 9.2.2023.

<u>S.No.</u>	<u>Name & designation:</u>	<u>mobile no.</u>	<u>Signature</u>
1.	Sunil KV Meena. SC-D, CPCB.	9617007250	
2.	H. K. Sharma Zonal Officer MPPCB, Jabalpur	9425117757	
3.	Dr H.V.C. Chary Gunturalli Scientist-E MPPCB, Ero Bhopal	9990517580	
4.	Pankaj Kr. Mishra. Applicant	9839298469	

Photographs taken during field visit during 9-11th Feb 2023



Improper (damage/inadequate) covering in coal transporting trucks/tippers



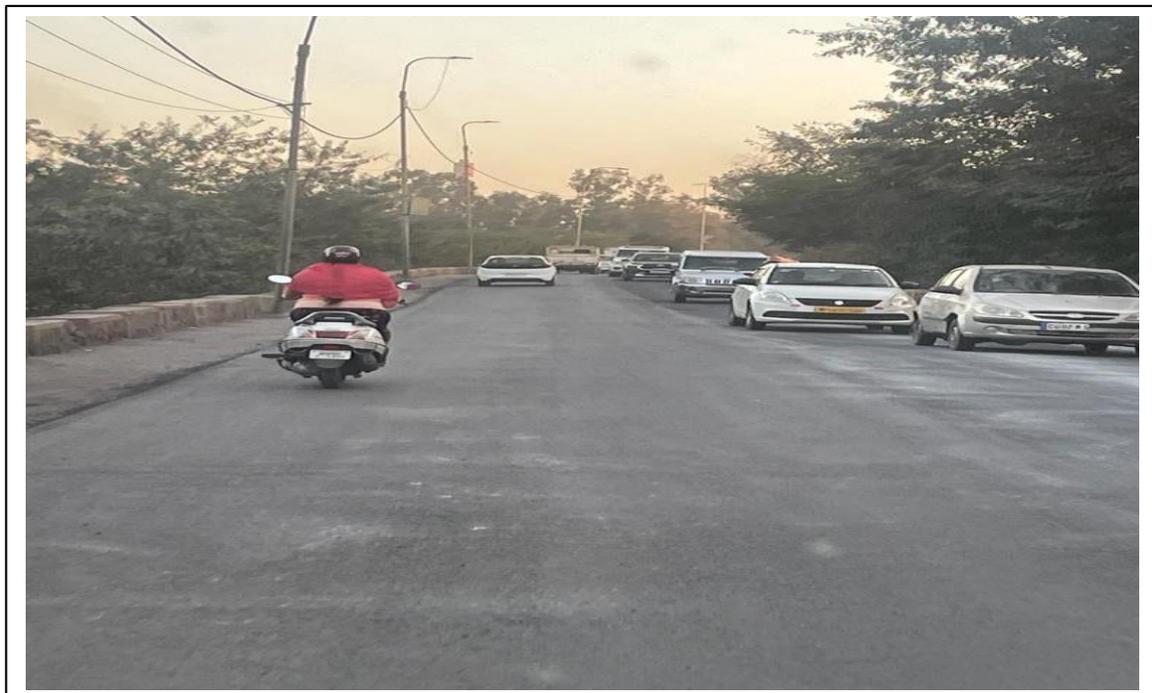


Dry ash transportation through top cover trucks and complete cover of tarpaulin for wet ash transportation





Water sprinkling on Jayant mod to Sukla mod (majorly used routes in Madhya Pradesh)



Ongoing Road repair and widening work on Jayant to Sukla mod stretch



Ongoing road widening and shoulder strengthen work in Jayant to Shukla mod road





Coal dust found on road corners during field visit from Shaktinagar to Auri (Uttar Pradesh)



ASH UTILIZATION AT NTPC VINDHYACHAL														
YEAR	2022-23 (upto Dec'22)		2021-22		2020-21		2019-20		2018-19		2017-18		2016-17	
Total Ash Generation	5950658		8238221		8713679		8857823		8324181		7958003		7639386	
Ash Utilization Areas	Quantity 2022-23 (MT)	Percentage 2022-23	Quantity 2021-22 (MT)	Percentage 2021-22	Quantity 2020-21 (MT)	Percentage 2020-21	Quantity 2019-20 (MT)	Percentage 2019-20	Quantity 2018-19 (MT)	Percentage 2018-19	Quantity 2017-18 (MT)	Percentage 2017-18	Quantity 2016-17 (MT)	Percentage 2016-17
Cement Industries	29,086.00	0.49	125,457.49	1.52	146,992.00	1.69	33,660.00	0.38	66480	0.80	40700	0.51	33780	0.44
Brickplants	167,801.00	2.82	258,091.56	3.13	188,148.00	2.16	88,668.00	1.00	99160	1.19	110880	1.39	96820	1.27
Asbestos industries	-	0.00	15,720.00	0.19	-	0.00	12,160.00	0.14	1820	0.02	2240	0.03	5120	0.07
NTPC Brickplant	37,540.00	0.63	36,100.00	0.44	40,250.00	0.46	29,450.00	0.33	23840	0.29	15130	0.19	29910	0.39
Low laying area Own land	97,831.00	1.64	491,305.40	5.96	363,684.00	4.17	170,000.00	1.92	209650	2.52	566520	7.12	112027	1.47
Low laying area Outside land	353,867.00	5.95	677,276.00	8.22	924,051.00	10.60	167,000.00	1.89	3200	0.04				
Road Project	550,113.00	9.24	361,966.23	4.39	177,709.00	2.04								
Mine Filling (Gorbi)	289,702.00	4.87	145,848.26	1.77										
Bottom ash utilization	-			0.00	174,273.00	2.00	147,000.00	1.66	580815	6.98	823127	10.34	765943	10.03
*Ash dyke Raising			1,117,908.00	13.57	1,270,781.00	14.58	2,193,000.00	24.76	1688762	20.29	399396	5.02	752609	9.85
Others	-		1,140,310.00	13.84										
TOTAL Ash Utilization	1,525,940.00	25.64	4,369,982.94	53.05	3,285,888.00	37.71	2,840,938.00	32.07	2,673,727.00	32.12	1,957,993.00	24.60	1,796,209.00	23.51

* Ash dyke raising as on Dec'22 for FY 2022-23 is 6,50,000 Cum (i.e., 7,80,000 MT). Ash Utilization including ash dyke raising for FY 2022-23 (till Dec'22) is 21.75 Lakh MT (i.e., 36.57%)

Mode of transportation of ash out of the factory premises (year wise) in MT:	2022-23 (upto Dec'22)	2021-22	2020-21	2019-20	2018-19	2017-18	2016-17
a. By Road	1,496,854.00	2,094,704.94	1,840,834.00	500,938.00	404,150.00	735,470.00	277,657.00
b. By Rail	29,086.00	8,530.00	0	0	0	0	0

Type of vehicles used (year wise) for road transportation of Fly ash during past five years (numbers)	2022-23 (upto Dec'22)	2021-22	2020-21	2019-20	2018-19	2017-18	2016-17
a. Closed bulkers	40	70	50	16	24	15	8
b. Closed body Trucks	30	30	23	13	13	14	13
c. Open Body Trucks Tarpaulin covered	200	150	130	30	20	30	20
d. Open Body Trucks uncovered	0	0	0	0	0	0	0
e. Any other (Specify)	BTAP Rake (51 closed wagons/Rake)	BTAP Rake (51 closed wagons/Rake)					

Road Routes used for Ash transportation	ROUTE	% OF TIME	REMARK
a. Route 1 (%age of time)	Ash silo stage-2,3&5----Vindhyanagar----Waidhan Marg....Bargawan..... Rewa-Sidhi route	50%	only night permission allowed by the DA office
b. Route 2 (%age of time)	Ash silo stage-2,3&5---- Vindhyanagar Waidhan marg---- Waidhan-Bijpur marg----chhatishgarh border route	50%	only night permission allowed by the DA office
c. Route 3 (%age of time)	Ash silo stage-2,3&5----Shaktinagar----Jayant----Singrauli railway station marg----Gorbi mine void	42%	only 10 hours night permission allowed by the DA office
d. other route	Ash silo stage-2,3&5----Shaktinagar----Renukoot, UP	100%	

Status of compliance with the CPCB guidelines of 2013 for transportation and 2019 for low lying area filling (Provide note along with documentary proof if any)	Road mode: All ash carrying loaded vehicles are either closed bulkers or tarpaulin covered. For low lying area development works with pond ash, CPCB guidelines 2019 is followed. CPCB guidelines 2013 & 2019 is complied at VSTPS. Rail Mode: Transported through BTAP wagons. CPCB guidelines 2013 & 2019 is complied at VSTPS.
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Earning & Expenditure incurred (year wise) on Ash utilization	2022-23 (upto Dec'22)		2021-22		2020-21		2019-20		2018-19	
	Earning	Expenditure	Earning	Expenditure	Earning	Expenditure	Earning	Expenditure	Earning	Expenditure
	0	89.66 Crore	0	91.45 Crore	0	43.20 Crore	0	3.11 Crore	0	0.77 Crore

Expenditure incurred (year wise) on if any in the upkeep of the public roads to avoid dust.	2022-23 (upto Dec'22)	2021-22	2020-21	2019-20	2018-19
	Provisions inbuilt in all the contracts associated with fly ash transportation.				

Methods employed to ensure that the ash transport vehicles do not cause dust pollution	Detail
1	Using closed buklers for dry fly ash transportaion.
2	Covering all open trucks with tarpaulin.
3	Deployment of Patrollers / Safety stewards for strict compliance of no-fly ash emission during loading.
4	Ensuring water sprinkling at ash loading points / routes
5	Water sprinkling the top layer of ash prior to covering of truck. Washing truck wheels and wind sheilds before departure.

Coal Transportation details in NGT O.A. 862 of 2022								
S. No	Question		Reply					
1	(Year-wise) for the past five years coal production (MT)	:	Year	2017-18	2018-19	2019-20	2020-21	2021- 22
			Coal Production (Million Te)	18.0	18.0	18.7	18.6	18.0
2	Year-wise coal transportation for the past 5 years (MT)	:	Year	2017-18	2018-19	2019-20	2020-21	2021- 22
			Coal Transportation (Million Te)	18.0	18.0	18.8	18.1	18.2
a.	From Mine to CHP to Railway	:	Not Applicable					
b.	From Mine to Siding to Railway	:	Not Applicable					
c.	From Mine to other location (via Road)	:	Not Applicable					
d.	From Mine to Siding to other location (via Road)	:	Not Applicable					
e.	Any other (Please specify) –	:	Covered,dust proof , over land coal conveyor from CHP mine to Power plant					
3	Vehicle used for coal transportation via road	:	Not Applicable					
4	Road Routes used for coal transportation	:	Not Applicable (refer reply of point 2.e.)					
a.	Route 1 (specify)----- %age of time	:					
b.	Route 2 (specify)----- %age of time	:					
c.	Route 3 (specify)----- %age of time & Other	:					
5	Expenditure incurred (year wise) on if any in the upkeep of the public roads to avoid dust.	:	Not Applicable Coal is being transported from SPL coal mine to power plant through covered ,dust proof over land conveyor . Therefore ,there is no use of raod for coal transportation .					
6	Methods employed to ensure that the coal transport vehicles do not cause dust pollution .	:	Not Applicable					

Name of Power Utility: Reliance Power Limited

Name of Thermal Power Plant: Sasan Power Limited

Installed Capacity (Total): 3960 MW

Sl. No.	FY	Electricity Generation in MWh	Coal consumed in MT	Ash Generation in MT	Mode of Utilization in MT						Mode of Transportation in MT			Vehicle Type & Nos. For ash transportation by Road in MT			Road Route used for ash transportation					Compliance of CPCB Guidelines 2019 for Ash Utilization (Documentary evidence if any)	Expenditure in Ash Utilization (Approx. in Cr.)	Expenditure on Public Roads in Fugitive Dust Control (Approx. in Cr.)	Measures taken to control fugitive emission from Ash Transportation	
					In Cement Manufacturing	In Road Construction	In Low Lying Area/ Mine Filling	Fly ash based Constriction Material	Ash Dyke Raising	Others (If any)	By Road	By Rail	Any Other	Closed Bulkers	Open Body Truck	Any Other	Route 1 (% of Time)	Route 2 (% of Time)	Route 3 (% of Time)	Any Other						
1	2022-23 (Till Dec 2022)	22798493	12732629	3604958	0	0	0	22233	3641026	0	18120	0	0	18120			0	On an average 2/3 Closed containers/ Hywas ash is taken by brick plants and primarily used in the neraby areas.						17.8	0.35	To ensure that no fugitive emission takes place during ash transportation from SPL we are allowing closed bulkers for ash transportation to cement plants and promoting closed containers for ash transportation to brick plants and filled vehicles are washed properly before leaving the silo area to avoid every possibility of fugitive emission.
2	2021-22	32673064	18308422	5347484	0	0	0	36990	2762425	0	34710	0	0	34710			0	On an average 4/5 bulkers ash was taken by Cement Industries in Rewa/ Satna (200-275 kms) region, which is connected to SPL through National Highway - 39.						27.24	0.32	
3	2020-21	33387653	18228056	5027016	26670	0	89550	1921	2097776	1635	26670	0	0	26670	0	0	Yes , Complied with.					17.56	0.29			
4	2019-20	33340908	18523662	5244592	45280	0	2698119	2144	0	860	45280	0	0	45280	0	0						1.51	0.28			
5	2018-19	32877272	18083636	5027732	132860	0	1354662	4172	0	338	132860	0	0	132860	0	0						0.96	0.26			

1. (Year-wise) for the past five years power production (Mega Units), coal consumption (MT), Ash (Bottom & Fly ash) generation (MT).

Reply:

Financial Year	Power Production (Mega Units)	Coal Consumption (MT)	Ash Generation (MT)	
			Fly Ash (MT)	Bottom Ash (MT)
2017-18	7688.93	44,29,874.00	12,12,655.00	2,71,285.00
2018-19	7330.28	40,70,899.00	10,78,454.00	2,20,892.00
2019-20	6312.59	36,65,231.00	9,92,886.00	2,08,700.00
2020-21	8106.4	45,89,386.00	11,51,925.00	2,87,981.00
2021-22	8381.9	49,68,511.00	12,63,519.00	3,15,880.00

2. Ash utilization (year wise) for the past years (MT)

- For use in cement plants
- For use in road works
- For filling of low lying areas / mines
- For fly ash based building materials
- Any other (Please specify)

Reply:

Financial Year	Ash Utilisation(MT)			
	For use in cement plant (MT)	For use in road works (MT)	For filling of Lowlying areas/mines (MT)	For fly ash based building materials (MT)
2017-18	10,45,074.00	-	3,20,944.27	20,937.00
2018-19	11,24,236.00	-	-	27,278.00
2019-20	10,24,645.81	-	2,71,873.00	20,072.19
2020-21	9,82,567.24	-	4,46,410.00	11,522.32
2021-22	10,20,528.92	-	3,62,215.00	31,590.59

3. Mode of transportation of ash out of the factory premises (year wise) in MT:

- a. By Road
- b. By Rail
- c. Any other mode

Reply:

Financial Year	Mode of transportation of ash out of the factory premises (in MT)		
	By Road (in MT)	By Rail (in MT)	Any Other Mode (in MT)
2017-18	10,66,011.00	-	-
2018-19	11,51,514.00	-	-
2019-20	10,44,718.00	-	-
2020-21	9,94,089.56	-	-
2021-22	10,52,119.51	-	-

4. Type of vehicles used (year wise) for road transportation of Fly ash during past five years (numbers)

- a. Closed bulkers
- b. Open Body Trucks covered / uncovered

Reply:

Financial Year	Type of vehicles used (year wise) for road transportation of Fly ash
2017-18	Closed bulkers
2018-19	Closed bulkers
2019-20	Closed bulkers
2020-21	Closed bulkers
2021-22	Closed bulkers



Any others (Specify)

5. Road Routes used for Ash Transportation

Reply:

❖ **FY2017-18**

- a. Route 1(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar) - 12.64 % age of time.
- b. Route 2(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela-Rewa) - 27.17 % age of time.
- c. Route 3(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela-Rewa-Satna) - 42.59 % age of time.
- d. Route 4(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela Rewa-Satna-Maihar) - 17.60 % age of time.

❖ **FY2018-19**

- a. Route 1(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar)- 30.03% age of time.
- b. Route 2(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela-Rewa) - 20.05% age of time.
- c. Route 3(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela-Rewa-Satna) - 40.19% age of time.
- d. Route 4(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela-Rewa-Satna-Maihar)- 9.72% age of time.

❖ **FY2019-20**

- a. Route 1(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar)- 37.93%age of time.
- b. Route 2(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela-Rewa)- 6.66% age of time.
- c. Route 3(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela-Rewa-Satna)- 41.70 % age of time.
- d. Route 4(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela-Rewa-Satna-Maihar)- 13.71%age of time.

❖ **FY2020-21**

- a. Route 1(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar)- 42.68 %age of time.
- b. Route 2(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela-Rewa) - 6.20 % age of time.
- c. Route 3(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Bypass- Churhat Bypass-Rampur Naikin-Bagwar-Bela-Rewa-Satna) - 40.41 % age of time.

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d. Route 4(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Byepass- Churhat Byepass-Rampur Naikin-Bagwar-Bela-Rewa-Satna-Maihar)- 10.70%ageof time.

❖ **FY2021-22**

- a. Route 1(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Byepass- Churhat Byepass-Rampur Naikin-Bagwar) - 60.24% age of time.
- b. Route 2(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Byepass- Churhat Byepass-Rampur Naikin-Bagwar-Bela-Rewa) - 2.81 % age of time.
- c. Route 3(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Byepass- Churhat Byepass-Rampur Naikin-Bagwar-Bela-Rewa-Satna) - 34.85 % age of time.
- d. Route 4(JNSTPP, Nigrie-Fly Ash Dispatch Cente-Sidhi Byepass- Churhat Byepass-Rampur Naikin-Bagwar-Bela-Rewa-Satna-Maihar)- 2.09 % age of time.

6. Status of Compliance with the CPCB guidelines of 2013 for transportation and 2019 for lowlying area filling.

Reply:

- **Status of Compliance with the CPCB guidelines of 2013 for transportation -** JNSTPP,Nigrie is strictly following the CPCB guidelines of 2013 for transportation.

A. Dry Collection of Fly Ash –

- 1. Highly efficient BHEL make Electro Static Precipitators (ESPs) with efficiency of 99.95% have been installed for each boiler to meet particulate emission less than 50 mg/Nm³ ultimately maximum collection of generated fly ash in hoppers.
- 2. JNSTPP, Nigrie have 2 Intermediate silos to collect dry fly ash with each capacity of 450 MT & a fly ash bin of 400 MT capacities for utilization of dry ash in cement grinding unit.
- 3. Concrete Silo of 20,000 MT storage capacity is available for utilization of dry ash.

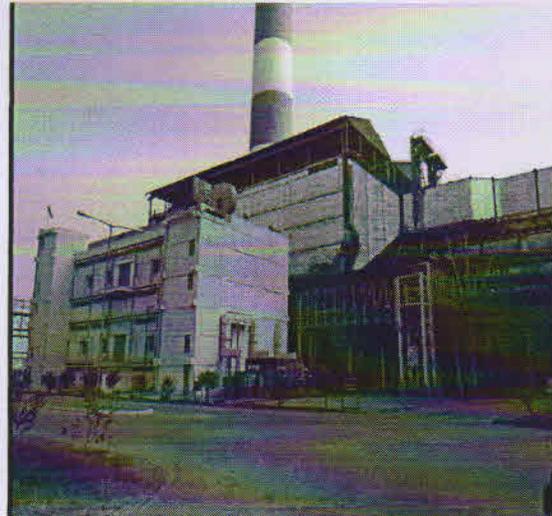
▪ **Loading, Unloading and Storage –**

- 1. Loading of fly ash is carried out only in closed Bulkers from Silo with telescopic chutes to avoid fugitive dust emission.
- 2. Air Pollution Control Devices (Bag Filters) are mounted on fly ash Silos and also regular cleaning along with scheduled maintenance is being carried out to avoid choking and malfunctioning of Bag Filter.
- 3. The Weigh Bridge is installed under fly ash loading chute for filling fly ash in Bulkers to avoid any spillage.
- 4. Bottom Ash disposal in Slurry Form into Ash Pond.

▪ **Transportation-**

- 1. Tarpaulin Covered vehicles are used for transportation of pond ash to Lowlying area filling site.

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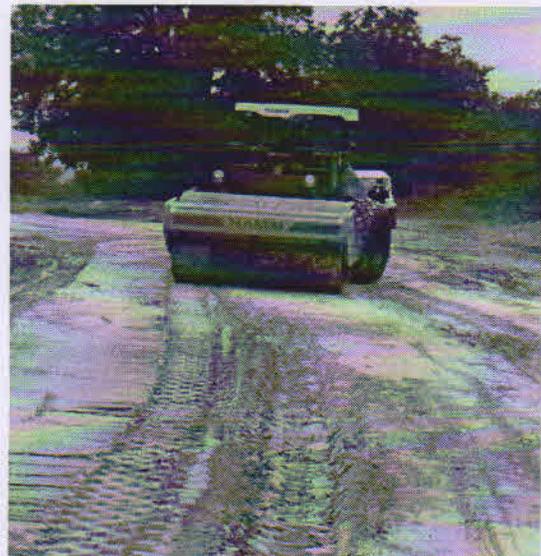
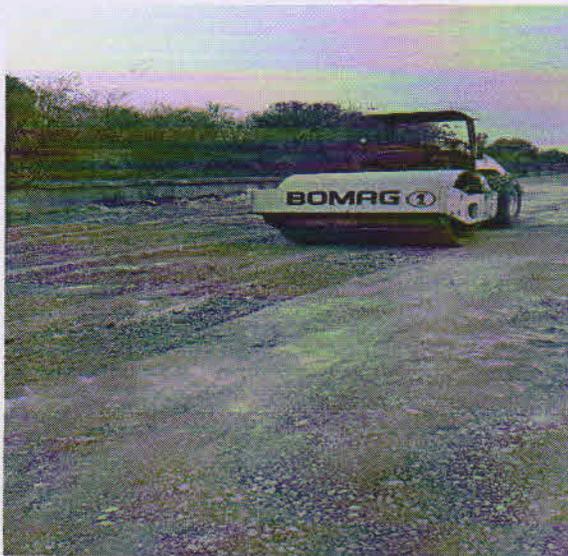
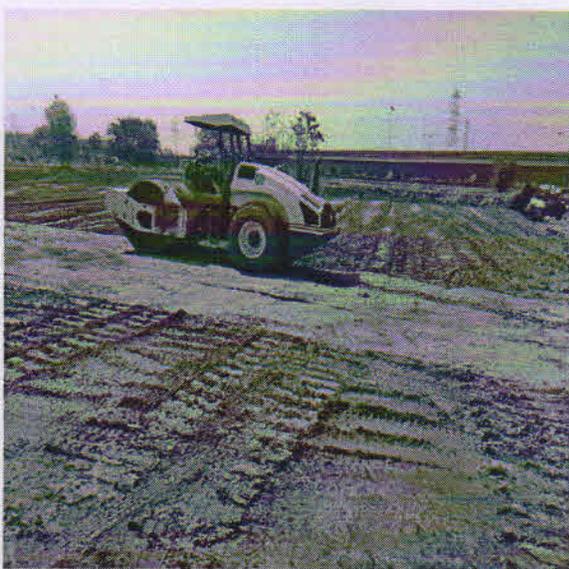


2. Status of Compliance with the CPCB guidelines of 2019 for lowlying area filling – JNSTPP, Nigrie is strictly following the guidelines namely “Guidelines for disposal/ utilization of Fly Ash for reclamation of Low-Lying area and in stowing of Abandoned mines/ Quarries” issued by CPCB on March 2019:-

- Soil collected by stripping from the area is being stacked at the proper location within the area and will only be utilized for reclamation of land after filling ash in the said area so that no external soil is necessitated.
- Stripped site is being suitably levelled so that required compaction all around the ash filling area is being achieved.
- Dumping of ash in low-lying area is being done in moist condition so that ash does not get air borne and cause fugitive dust problem.
- Filling Ash is being compacted with the help of vibratory rollers so as to achieve dry density of not less 95% as per I.S – 2720 (Part-VII) and layer wise filling of compacted ash is being done.

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- Soil used for the bunds/cover compacted to 95% proctor density by Vibratory Roller of 15 T minimum capacity, in the layers of 25-30 cm and the optimum moisture content is determined before execution of work.
- Compaction of each layer is being made to achieve maximum in-situ dry density 95% of maximum dry density (MDD) of the material as per IS 2720 (Part VII).
- To achieve maximum compaction level use of vibratory rollers of capacity 16 Ton is being used.
- Entry of cattle/livestock inside the disposal area during execution period is not possible as Lowlying area is intact within in boundary.
- Regular water sprinkling is being carried out for dust suppression purposes.
- All the dumpers hired for carrying fly ash is having valid Pollution under Control certificates.



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7. Earning & Expenditure incurred (year wise) on Ash Utilisation.

Reply:

Financial Year	Ash Utilisation Earning (Rs in Lakh)	Expenditure incurred (Rs in Lakh)
2017-18	1264.95	1312.163
2018-19	1212.71	1122.726
2019-20	1139.10	1249.692
2020-21	1165.86	1348.686
2021-22	533.316	1333.699

8. Expenditure incurred (year wise) on if any in the upkeep of the public roads to avoid dust.

Reply:

Financial Year	Expenditure incurred (year wise) on if any in the upkeep of the public roads to avoid dust (Rs in Lakh)
2017-18	-
2018-19	-
2019-20	-
2020-21	-
2021-22	-

9. Methods employed to ensure that the ash transport vehicles do not cause dust pollution.

Reply:

- ❖ Fly ash dispatched from the JNSTPP, Nigrie site to End-users in Closed bulkers only.
- ❖ Arrangements are made for washing of wheels of the ash transportation vehicles before they leave out for the main road.
- ❖ Regular sweeping and water sprinkling is being carried out within plant area and haul/internal roads for dust suppression purposes. Further our internal plant roads are concrete made.



Ash Utilisation Compliance

FY	Month	Total Ash Generation	Target Utilization	Min. Target Utilization %	Utilization	Utilization %
FY23	Apr	98353	78682.4	80.00	71675	72.88
FY23	May	102227	81781.6	80.00	50079	48.99
FY23	Jun	97851	78280.8	80.00	77566	79.27
FY23	Jul	106777	85421.6	80.00	93450	87.52
FY23	Aug	117559	94047.2	80.00	65898	56.06
FY23	Sep	105122	84097.6	80.00	70483	67.05
Expected						
FY23	Oct	102000	81600	80.00	131900	129.31
FY23	Nov	99000	79200	80.00	129885	131.20
FY23	Dec	98000	78400	80.00	132292.6	134.99
FY23	Jan	96000	76800	80.00	132292.6	137.80
FY23	Feb	96000	76800	80.00	125075	130.29
FY23	Mar	94000	75200	80.00	132292.6	140.74
Total YTD	Total YTD	1212889	970311.2	80.00	1212888.8	100.00

There was less utilisation of Ash in H1 FY23, due to restriction on Railway Rakes movement and due to monsoon season. However, we have planned to increase our Ash Utilisation in the H2 FY23 and will ensure the Ash Generated in HIL Mahan is Utilised as per the Utilisation target mentioned in the Ash Notification 2021.

First Cycle	FY	Estimated Ash Generation	Estimated Ash Utilisation	Utilisation %
	FY23	1212889	1212889	100.00
	FY24	1252013	1264533	101.00
	FY25	1252013	1314614	105.00
	AVG			102.00

Legacy Ash Utilisation Compliance

Target Utilisation %	FY	Month	Total Ash Generation	Legacy Ash Target Utilization	Legacy Ash Utilization	Utilization %
20	FY23	Apr	98354	19670.8	5447	27.69
20	FY23	May	102227	20445.4	37	0.18
20	FY23	Jun	97851	19570.2	8769	44.81
20	FY23	Jul	106776	21355.2	2919	13.67
20	FY23	Aug	117559	23511.8	4228	17.98
20	FY23	Sep	105122	21000	5845	5.56
20	FY23	Oct	102000	20400	27359	26.82
20	FY23	Nov	99000	19800	39359	39.76
20	FY23	Dec	98000	19600	29359	29.96
20	FY23	Jan	96000	19200	39359	41.00
20	FY23	Feb	96000	19200	33513	34.91
20	FY23	Mar	94000	18800	46359	49.32

HINDALCO INDUSTRIES LIMITED, MAHAN ALUMINIUM, CAPTIVE POWER PLANT

1. (Year-wise) for the past five years power production (Mega Units), coal consumption (MT), Ash (Bottom & Fly ash) generation (MT):

Financial Year	UOM	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 (up to Dec 2022)
Power production	MW	632.05	637.05	622.206	636.638	617.75
Coal consumption	MT	3776893	3801556	3694862	3607437	2663731
Ash Generation (Bottom & Fly Ash)	MT	1258003	1294049	1274175	1154471	906334

2. Ash utilization (year wise) for the past years (MT)

Financial Year	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 (up to Dec 2022)
For use in cement plants	9,03,268	8,17,494	9,81,171	9,71,229	6,31,055
For use in road works	13,726 (road embankment)	59,866 (Brick + Road Const and other)	NIL	NIL	1,04,228
For filling of low-lying areas/ mines	NIL	NIL	NIL	NIL	74,818
For fly ash-based building materials	NIL	NIL	1,365 (Brick)	1,644 (Bricks)	1,478 (Brick Plant inside)
Any other (Please specify)	948 (construction Activity)	NIL	5,103 (Construction Activity in house)	3,205 (construction)	NIL

3. Mode of transportation of ash out of the factory premises (year wise) in MT:

Financial Year	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 (up to Dec 2022)
By Road	9,17,942	8,77,360	9,16,500	8,11,340	5,86,653
By Rail	NIL	NIL	71,139	164738	2,23,448
Any other mode	NIL	NIL	NIL	NIL	NIL

4. Type of vehicles used (year wise) for road transportation of Fly ash during past five years (numbers)

Financial Year	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 (upto, Dec-22)
Closed bulkers	26,789	20,380	23,331	25,762	14,309
Open Body Trucks covered/uncovered	NIL	NIL	NIL	NIL	2,739 (Pond ash)
Any other (Specify)	-	-	-	-	-

5. **Road Routes used for Ash transportation**

- a) Route 1 (specify)- **Bargawan – Sidhi – Rewa – Satna – Maihar**

6. **Status of compliance with the CPCB guidelines of 2013 for transportation and 2019 for low lying area filling (Provide note along with documentary proof if any)**

- a) **Status of compliance with the CPCB guidelines of 2013 for transportation: - Complied**

- b) **Status of compliance with the CPCB guidelines of 2019 for transportation low lying area filling:- Complied**

7. **Earning & Expenditure incurred (year wise) on Ash utilization**

Financial Year	UOM	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 (upto Dec 22)
Earning	Lac/Cr	NIL	NIL	NIL	NIL	NIL
Expenditure incurred	Lac/Cr	NA	3.56	7.40	12.73	18.92

8. **Expenditure incurred (year wise) on if any in the upkeep of the public roads to avoid dust.**

Cost incurred for Water Sprinkling at outside road through tankers

Financial Year	UOM	2018	2019	2020	2021	2022
Earning	Lac/Cr	NIL	NIL	NIL	NIL	NIL
Expenditure incurred	Lac/Cr	23.625	23.625	23.625	16.065	16.065

9. **Methods employed to ensure that the ash transport vehicles do not cause dust pollution**

1. Loading system of fly ash from silo to container/bulker being used.
2. Mechanically designed covered Trucks are used for the purpose.
3. The user agency obtained approval of design of Road Tankers/Bulkers or mechanically covered Trucks.
4. Water sprinkling on roads.
5. Pond ash transported with conditioned water to maintain minimum 15% moisture at the disposal point so that ash could not cause any fugitive emission.
6. Adequate free board in trucks ensured to avoid overflow / spillage during transportation of flyash.
7. In case of any spillage enroute during transportation of flyash, We are ensuring that the spilled ash is collected and transported to the disposal/ usage site immediately.
8. All the Bulkers and trucks having valid pollution under control certificates.
9. The speed limit of vehicles carrying flyash has been strictly enforced 20 km per hours (inside the plant) and is no case same exceed 40 km per hour as well out side of plant.
10. We are always adhere to follow the rules of State pollution control board for mode of transportation and method of loading and unloading as per consent.
11. We are regularly organising the programmes on general awareness/training for tanker operating staff like drivers and cleaners on the impact of hazards of flyash.

Ref: APL/MEL/ENV/CPCB/1001/23

Date: 10/01/2023

To,**The Scientist - D****Central Pollution Control Board**

Regional Directorate, Bhopal

Madhya Pradesh

Kind Attention: Shree Sunil Kumar Meena**Sub:** Submission of details towards NGT O.A. 862 of 2022 reg.**Ref:** **CPCB, Bhopal vide Email received dated 02.01.2023**

Dear Sir,

With reference to above subject and email received on dated 02.01.2023, we are submitting herewith the details as information sought in your mail towards NGT O.A. 862 of 2022.

Mahan Energen Limited is committed to compliance of the pollution control & prevention and will operate & maintain the plant to meet all the applicable environmental standards/norms directed by Board/Regulatory authorities.

Thanking you,

Yours faithfully,

for **Mahan Energen Limited****(R N Shukla)**

Authorized Signatory

Encl: As above**Mahan Energen Limited**

Adani Corporate House

Shantigram, S G Highway

Ahmedabad 382 421

Gujarat, India

CIN : U40100DL2005PLC201961

Registrar Office: Adani House, C-105, Anand Niketan, New Delhi – 110021, India

Tel +91 79 2656 7555

Fax +91 79 2555 7177

env.power@adani.com

www.adani.com

Sr No	Point Year	Essar Power MP Limited					Mahan Energen Limited 2022-23 (up to December)
		2018-19	2019-20	2020-21	2021-22		
1	(Year-wise) for the past five years power production (Mega Units), coal consumption (MT), Ash (Bottom & Fly ash) generation (MT)	Power production (MW Units)	3308893	3281055	2889608	3382465	2558088
		Coal consumption (MT)	2076958	2210931	2056416	2375545	1864147
		Fly ash generation (MT)	450281	550214	556436	668698	523209
		Bottom Ash generation (MT)	112570	137553	139109	167174	130802
		Ash utilization (year wise) for the past years (MT)					
2	Mode of transportation of ash out of the factory premises (year wise) in MT:	For use in Cement Plants	173676	381470	96187	53223	174290
		For use in road works	0.0	0.0	0.0	0.0	0.0
		For filling of low-lying areas	105990	2830	138670	159562	141698
		For fly ash-based building materials (Brick Plant)	2740	4320	30	0	282
		Others (if Applicable) In ash dyke raising	204000	50960	0	0	0
		Pond Ash- for abandonment of dyke	0	102290	49840	0	5000
3	Type of vehicles used (year wise) for road transportation of Fly ash during past five years (numbers).	By road	176416	385790	96217	53223	174572
		By Rail	0.0	0	0	0	0
		Any other mode	NA	NA	NA	NA	NA
		Closed bulkers					
4	Open Body Trucks covered / uncovered						
4	Any other (Specify)						

		Essar Power MP Limited		2022-23 (upto December)	
Road Routes used for Ash transportation.					
5	Route 1 (% of time)	Record Not Available	Plant - Amiliya-Sarai-Cement Plant		
	Route 2(% of time)	Record Not Available	Plant - parsauna-Bargawa-Cement Plant		
	Route 3(% of time)	Record Not Available	No other routes		
6	Status of compliance with the CPCB guidelines of 2013 for transportation and 2019 for low lying area filling (Provide note along with documentary proof if any)				
	For the construction and area development has been filled in low lying area within the plant premises				
7	Earning & Expenditure incurred (year wise) on Ash utilization.				
	Earning	Record Not Available			0.0
	Expenditure incurred (in Rs.)	Record Not Available			3,17,75,832.8
8	Expenditure incurred (year wise) on if any in the upkeep of the public roads to avoid dust. (in Rs.)				
		Record Not Available			15,39,450
9	Methods employed to ensure that the ash transport vehicles do not cause dust pollution				
	Closed Bulker	Closed Bulker	Closed Bulker	Closed Bulker	Closed Bulker Only

Remark: Mahan Energen Limited acquired Essar Power MP Ltd. on dated 16th March 2022 through NCLT

नॉर्दर्नकोलफील्ड्सलिमिटेड

(मिनीरत्नकंपनी)

(कोलइंडियालिमिटेडकीअनुषंगीकंपनी)



**Northern Coalfields
Limited**

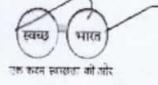
(A Miniratna Company)

(A subsidiary of Coal India Limited)

महाप्रबंधककार्यालय / Office of the General Manager



Digital India
Power To Empower



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & ISO: 45001 Certified Company

पोस्ट- बीना परियोजना, जिला- सोनभद्र (उ.प्र.)पिन- 231220 / Post- Bina Project, Distt- Sonebhadra (U.P.)- 231220

Phone :05446-276279 (O), 267280 (R) Fax :05446-276274, 07805-25610 e-mail :cgmbin.ncl@coalindia.in Website :www.nclcil.in

No.: Bina/Env/NGT/23/101

Dated: 04.02.2023

To
General Manager (Env/Forest)
NCL, Singrauli

Subject:- Coal transportation details in NGT OA862 of 2022

Reference - Your email dated 1st February 2023.

Dear Sir

Please find enclosed details with respect to above subject matter. This is for your kind information and further needful at your end.

Yours faithfully,

Area General Manager
Bina Extn Project

S. No.	Particular	Year				
		2017-18	2018-19	2019-20	2020-21	2021-22
1	Coal Production (in million tone)	7.5	7.5	7.5	8.41	9.0
2.	Coal Transportation/ Dispatch					
	a. From mine to CHP to Railway	2.66	3.18	3.21	3.54	3.99
	b. From mine to siding to Railway	2.38	1.87	2.21	2.36	3.21
	c. From Mines to other location (via road)	2.22	1.82	1.66	1.178	2.31
	d. From mines to siding to other location (via road)	NA	NA	NA	NA	NA
	e. Any other (please specify)	NA	NA	NA	NA	NA
3.	Vehicle used for coal transportation via road	Tipper, trailer, truck (12 wheels to 16 wheels) of different capacity.				
4.	Road route used for coal transportation	All the trucks are transporting coal through Shaktinagar- Auri Mode State Highway via Anpara.				
5.	Expenditure incurred on upkeep of the public roads to avoid dust.	Environmental Protection Measures at Bina Project implemented (since 2020) to avoid dust generation during coal transportation dust in mine area and public road.				
		S. No.	Various	Approximate Cost		
		1	2 nos of Truck mounted dust suppression system with Mist Gun was commissioned in the month of January and March 2020 respectively.	Rs.	96.64	Lakhs
		2	1 no. of Domestic Road sweeping Machine was commissioned on 30 th March 2020 at Bina Project.	Rs.	53.71	Lakhs
		3	Fixed sprinklers are being installed along the RCC road and CHP roads for stretch of 2.0 KM within mine area.	Rs	44.35	lakhs
		4	2 no. of Fixed fog Canon was commissioned in the month of September 2021.	Rs	12.46	Lakhs
		5	Rain gun (fixed sprinklers) commissioned at Bina wharfwall in September 2022.	Rs	147	lakhs
			Total		354.16	lakhs

6	Method employed to ensure that coal transport vehicles do not cause dust pollution.	<p>Existing measures to prevent dust generation through coal transportation in mining area and public roads:-</p> <ul style="list-style-type: none"> • 01 no. of road sweeping machine is deployed in public road for mechanized sweeping. • 02 no. of truck mounted mist spray guns are deployed on public road and colony area. • All trucks carrying coal outside mine boundary are completely covered with tarpaulin. • 2 no. of Fixed fog cannon machines (approx throw of 100m) were commissioned at Bina Project. • Proper water sprinkling is done by 20 nos.(6 nos. depts.+ 14 nos. outsourcing) water sprinklers of capacity 70 KL, 28KL and 15 KL to suppress fugitive dust emission. • Fixed sprinklers were installed on stretch of about 2.0 KM along the RCC Road and CHP road within mine area. • Rain gun (Fixed Sprinklers) commissioned all along the railway siding (700m) at Bina project
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OPF
9/2/23
 Asst. Mgr (Env)
 Bina Project

Leo
04/2/23
 Area Sales Officer
 Bina Project

[Signature]
04/02/23
 Staff Officer (M)
 Bina Project

[Signature]
04.02.2023
 Project Officer
 Bina Project

नॉर्दर्न कोलफील्ड्स लिमिटेड
खड़िया परियोजना
(मिनिरत्न कंपनी)



Northern Coalfields Limited

Khadia Project

(A Miniratna Company)

(A subsidiary of Coal India Limited)

(कोल इण्डिया लिमिटेड की अनुषंगी कंपनी)



Office of General Manager



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

थाना-शक्तिनगर, जिला-सोनभद्र (उ०प्र०) पिन-231222/ Thana-Shaktinagar, Dist. Sonebhadra (U.P.) Pin- 231222

Phone: 05446- 232274, (FAX) 05446- 232274 Email: cgm.khd@gmail.com, website : www.nclcil.in

No.-Khd/Min/Env/NGT/OA 862/2022-23/3766

Date: - 06 .02.2023

To,
General Manager (Env.),
NCL Singrauli

Subject: - Coal transportation details in NGT O.A. 862 of 2022

Ref: - Your mail dtd 01.02.2023

Dear Sir,

In connection with above subject and referenced mail, the information sought from Khadia Project is as following: -

1. Year-wise past 05 years coal production (MT) – Coal production data with respect to Khadia Project is as follows: -

Year	Coal Production by Khadia Project
2018-19	11.40 MT
2019-20	13.18 MT
2020-21	14.00 MT
2021-22	14.00 MT
2022-23 (till Jan'23)	12.83 MT

2. Year-wise coal transportation for the past 05 years (MT) – Coal transportation data with respect to Khadia Project is as follows: -

Year	From Mine to CHP to railway	From Mine to Siding to Railway	From Mine to other location (via Road)	From Mine to Siding to other location (via Road)	Any Other
2018-19	7.64 MT	0	4.15 MT	NA	NA
2019-20	9.20 MT	0	3.60 MT	NA	NA
2020-21	9.38 MT	0	3.23 MT	NA	NA

Year	From Mine to CHP to railway	From Mine to Siding to Railway	From Mine to other location (via Road)	From Mine to Siding to other location (via Road)	Any Other
2021-22	9.99 MT	0.33 MT	4.56 MT	NA	NA
2022-23 (till Jan'23)	8.39 MT	0.54 MT	3.73 MT	NA	NA

*The road transportation from FY 2020-21 to 2021-22 was increased due to liquidation of stock increased due Covid-19.

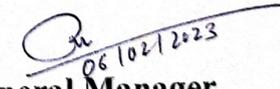
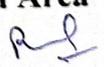
3. Vehicle used for coal transportation via roads – Vehicle used are trucks and tippers.
4. Road Routes used for coal transportation –through ‘Shaktinagar -Anpara’ route in U. P. State.
5. Expenditure incurred (year-wise) on if any in the upkeep of the public roads to avoid dust –

Sl. No.	Activity	Financial year	Expenditure
1	Deployment of truck mounted Fog cannon	2019-20	43.54 Lakhs
2	Deployment of vaccum based Road Sweeping Machine	2019-20	53.71Lakhs
3	Deployment of self propelled Road Sweeping Machine	2020-21	138 Lakhs
4	Deployment of additional truck mounted Fog cannon on hiring basis	2022-23	155.64 Lakhs/Annum including Diesel Cost

6. Methods employed to ensure that the coal transportation vehicles do not cause dust pollution – Following methods have been employed for dust suppression on public roads by Khadia Project :
 - a. Majority of Coal is being dispatched through Coal Handling Plant.
 - b. Only properly covered trucks are allowed to exit mine premises.
 - c. Deployment of two nos. of truck mounted fog cannon and two nos. of road sweeping machine.
 - d. Surveillance through camera at the exit of the mine.
 - f. Further, wheel washing facility is proposed to be developed at exit of the mine in FY 2023-24.

This is for your kind information and for onward submission.

Yours faithfully,


06/02/2023
General Manager
Khadia Area
 

Copy to: -

1. General Manager (Env't.)/NCL HQ
2. Project Officer/Khadia Area
3. Staff Officer (Mining), Khadia Area

ENVIRONMENT & FOREST, DUDHICHUA AREA



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & ISO: 45001 Certified Company

पोस्ट- खड़िया, जिला: सोनमद्र(उ.प्र.) पिन 231222 / Post- Khadia, Dist. Sonebhadra (UP) PIN-231222
Phone: 05446-232204/07805-226920, (FAX) 05446 – 233614 email: gmdch.ncl@coalindia.in

Ref.No :DCH/GM/PQ/23/1335

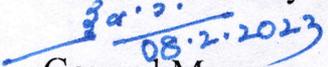
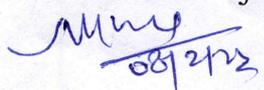
Date 08/02/2023

To,
The General Manager (Environment)
NCL, Singrauli HQ

Subject :- NGT reply regarding Dudhichua project.

S.No.	point	Reply
1	year wise for the past five year coal production(MT).	2017-18 -15.5 MT 2018-19- 15.5 MT 2019-20-17.7 MT 2020-21-20.2 MT 2021-22-22.1 MT
2	Year wise coal transportation for the past 5 years(MT)	Enclosed
3	Vehicle used for coal transportation via road	Coal transportation via road is done by truck covered with tarpolin.
4	Road Routes used for coal transportation	State highway roads of UP and MP are used for coal transportation
5	Expenditure incurred(year wise) on if any in the upkeep of the public roads to avoid dust.	departmental one fog cannon and one water tanker deployed in public roads to avoid dust.Expenditure data is not available.
6	Methods employed to ensure that the coal transport vehicles do not cause dust pollution.	Large capacity (70KL) - 06 nos. tankers, 28 KL- 03 nos. & 22KL (Converted) - 04 nos. are deployed for dust suppression in haul road, coal yard. One road sweeping machine is being operated for road sweeping in colony & in Industrial road. Two truck mounted fogging machines and one water tanker are deployed in the public road from CWS Jayant to Khadia GM Office road for suppression of air borne dust. 01 no fixed fogger installed at Warf wall Siding during 2021-22.

Yours faithfully


08.2.2023
General Manager
Dudhichua Project


Month/ Year	SILO		Total Silo (a)	Road (b)	Wharf Wall		Total Wharf wall despatch (e)=(c)+(d)	Coal Transferred to KHD Dump+Tipper (f)	Total Offtake (g)=(a)+(b)+(e)+(f)	Net. Despatch by DCH (h)=(g)-(d)
	OLD	NEW			DCH (c)	JNT (d)				
Apr-22	436040.70	374290.50	810331.20	341467.33	630659.45	0.00	0.00	1782457.98	1782457.98	
May-22	497977.60	351358.04	849335.64	405314.77	630058.00	0.00	0.00	1884708.41	1884708.41	
Jun-22	442923.40	387366.24	830289.64	443216.08	594040.98	0.00	0.00	1867546.70	1867546.70	
Jul-22	308304.72	210309.18	518613.90	423926.41	710787.30	0.00	0.00	1653327.61	1653327.61	
Aug-22	468558.14	275681.38	744239.52	260855.83	670966.68	0.00	55658.61	1731720.64	1676062.03	
Sep-22	540452.66	260954.20	801406.86	203569.92	630300.40	0.00	148579.16	1783856.34	1635277.18	
Oct-22	506533.26	361197.98	867731.24	228290.54	640618.01	0.00	134469.72	1871109.51	1736639.79	
Nov-22	518632.08	392492.28	911124.36	375204.54	604916.75	0.00	131483.20	2022728.85	1891245.65	
Dec-22	829221.86	49731.94	878953.80	379050.49	633851.52	0.00	141314.16	2033169.97	1891855.81	
Jan-23	933697.20	0.00	933697.20	394797.09	628270.98	0.00	115500.78	2072266.05	1956765.27	
Total	5482341.62	2663381.74	8145723.36	3455693.00	6374470.07	0.00	727005.63	18702892.06	17975886.43	
Avg. Des.	17916.15	8703.86	26620.01	11293.11	20831.60	0.00	#VALUE!	61120.56	58744.73	

Monthwise coal despatch of Dudhichua Project for the Year 2022-23

Monthwise coal despatch of Dudhichua Project for the Year 2019-20									
Month/ Year	SILO	Road	Wharf Wall		Total Wharf wall despatch	Coal received from JNT Through Dumper	Total Offtake	Net. Despatch by DCH	
			DCH	JNT					
	(a)	(b)	(c)	(d)	(e)=(c)+(d)	(f)	(g)=(a)+(b)+(e)	(h)=(g)-(d)-(f)	
Apr-19	928502.28	160305.22	345367.47	114796.50	460163.97	0.00	1548971.47	1434174.97	
May-19	976856.14	244135.18	349453.93	120693.35	470147.28	0.00	1691138.60	1570445.25	
Jun-19	931102.80	101915.69	345817.12	156815.92	502633.04	0.00	1535651.53	1378835.61	
Jul-19	1022211.59	178598.60	321619.17	149328.06	470947.23	0.00	1671757.42	1522429.36	
Aug-19	1040604.12	188119.74	229320.70	108954.96	338275.66	0.00	1566999.52	1458044.56	
Sep-19	970493.57	141774.43	225496.46	78225.42	303721.88	0.00	1415989.88	1337764.46	
Oct-19	1137688.24	209464.84	306914.89	125341.99	432256.88	0.00	1779409.96	1654067.97	
Nov-19	999010.22	226570.00	376391.41	151114.57	527505.98	0.00	1753086.20	1601971.63	
Dec-19	1114679.17	205201.43	360512.97	161554.61	522067.58	0.00	1841948.18	1680393.57	
Jan-20	862389.20	252784.17	316492.61	171118.65	487611.26	96092.50	1602784.63	1335573.48	
Feb-20	773030.85	235156.44	308338.50	160944.21	469282.71	66889.25	1477470.00	1249636.54	
Mar-20	860855.66	160389.40	304474.21	152772.86	457247.07	52955.00	1478492.13	1272764.27	
Total	11617423.84	2304415.14	3790199.44	1651661.10	5441860.54	215936.75	19363699.52	17496101.67	

Monthwise coal despatch of Dudhichua Project for the Year 2018-19

Month/ Year	SILO	Road	Wharf Wall		Total Wharf wall despatch	Coal Transfer Through Dumper to JNT	Total Offtake	Net. Despatch by DCH	Nett. Qty (g-h)
			DCH	JNT					
	(a)	(b)	(c)	(d)	(e)=(c)+(d)	(f)	(g)=(a)+(b)+(e)+ f	(h)=(g)-(d)	
Apr-18	946517.77	139938.87	335384.76	124039.18	459423.94	0.00	1545880.58	1421841.40	1545880.58
May-18	987709.50	133737.00	331782.61	157152.28	488934.89	0.00	1610381.39	1453229.11	1610381.39
Jun-18	868906.38	89437.96	328497.59	141235.39	469732.98	0.00	1428077.32	1286841.93	1428077.32
Jul-18	953726.07	80950.90	331354.98	139458.13	470813.11	22725.00	1528215.08	1388756.95	1505490.08
Aug-18	960528.80	82260.03	352515.37	145321.54	497836.91	171360.00	1711985.74	1566664.20	1540625.74
Sep-18	944210.05	101474.01	270695.89	142921.17	413617.06	104895.00	1564196.12	1421274.95	1459301.12
Oct-18	1017203.63	130134.28	341798.85	156276.33	498075.18	92655.00	1738068.09	1581791.76	1645413.09
Nov-18	968756.36	154309.21	350121.40	137252.23	487373.63	38340.00	1648779.20	1511526.97	1610439.20
Dec-18	1024255.32	190849.96	363894.02	163901.91	527795.93	0.00	1742901.21	1578999.30	1742901.21
Jan-19	888807.82	216270.21	293643.99	132131.08	425775.07	0.00	1530853.10	1398722.02	1530853.10
Feb-19	641215.45	110350.20	272970.43	123170.26	396140.69	0.00	1147706.34	1024536.08	1147706.34
Mar-19	599301.10	168481.34	326917.72	139005.46	465923.18	0.00	1233705.62	1094700.16	1233705.62
Total	10801138.25	1598193.97	3899577.61	1701864.96	5601442.57	429975.00	18430749.79	16728884.83	18000774.79

Monthwise coal despatch of Dudhichua Project for the Year 2020-21

Month/ Year	SILO	Road	Wharf Wall		Total Wharf wall despatch	Coal received from JNT Through Dumper	Total Offtake	Net. Despatch by DCH
			DCH	JNT				
	(a)	(b)	(c)	(d)	(e)=(c)+(d)	(f)	(g)=(a)+(b)+(e)	(h)=(g)-(d)-(f)
Apr-20	929094.47	5655.01	218795.50	114956.20	333751.70	0.00	1268501.18	1153544.98
May-20	1060380.84	105871.55	301860.26	150494.97	452355.23	0.00	1618607.62	1468112.65
Jun-20	960906.78	24940.96	347596.71	125382.94	472979.65	0.00	1458827.39	1333444.45
Jul-20	982222.05	20000.00	356842.27	127401.57	484243.84	0.00	1486465.89	1359064.32
Aug-20	1170065.24	37183.14	396821.74	141666.75	538488.49	0.00	1745736.87	1604070.12
Sep-20	1151012.88	69995.17	397890.30	146662.30	544552.60	0.00	1765560.65	1618898.35
Oct-20	1233776.22	84523.79	492360.96	160000.63	652361.59	0.00	1970661.60	1810660.97
Nov-20	1136923.95	130880.60	451370.19	137381.15	588751.34	0.00	1856555.89	1719174.74
Dec-20	1123882.28	146995.80	475015.86	119508.44	594524.30	0.00	1865402.38	1745893.94
Jan-21	1152346.73	90797.71	481043.58	116277.96	597321.54	0.00	1840465.98	1724188.02
Feb-21	1082761.34	24910.79	469179.52	140799.05	609978.57	0.00	1717650.70	1576851.65
Mar-21	1088100.26	17308.37	554152.57	134312.73	688465.30	0.00	1793873.93	1659561.20
Total	13071473.04	759062.89	4942929.46	1614844.69	6557774.15	0.00	20368310.08	18773465.39

Monthwise coal despatch of Dudhichua Project for the Year 2021-22

Month/ Year	SILCO		Total Silo (a)	Road (b)	Wharf Wall		Total Wharf wall despatch (e)=(c)+(d)	Total Offtake (g)=(a)+(b)+(e)	Net. Despatch by DCH (h)=(g)-(d)
	OLD	NEW			DCH (c)	JNT (d)			
Apr-21	503188.88	495673.16	998862.04	165895.34	523961.07	87521.66	611482.73	1776240.11	1688718.45
May-21	531233.78	472144.38	1003378.16	203819.29	522151.49	84722.06	606873.55	1814071.00	1729348.94
Jun-21	568085.58	281278.42	849364.00	226522.91	563854.99	64953.41	628808.40	1704695.31	1639741.90
Jul-21	600918.48	302869.08	903787.56	314031.62	604381.06	69449.67	673830.73	1891649.91	1822200.24
Aug-21	588166.74	220139.52	808306.26	228401.06	566696.71	82340.06	649036.77	1685744.09	1603404.03
Sep-21	593330.84	279950.68	873281.52	261897.25	588443.48	40191.16	628634.64	1763813.41	1723622.25
Oct-21	642289.18	349649.48	991938.66	306116.81	676366.40	0.00	676366.40	1974421.87	1974421.87
Nov-21	621395.57	390349.36	1011744.93	308489.80	637186.85	0.00	637186.85	1957421.58	1957421.58
Dec-21	623343.84	397319.82	1020663.66	311821.86	686318.89	0.00	686318.89	2018804.41	2018804.41
Jan-22	557937.30	426081.26	984018.56	352368.52	669535.82	0.00	669535.82	2005922.90	2005922.90
Feb-22	544643.92	376901.86	921545.78	292571.21	630757.36	0.00	630757.36	1844874.35	1844874.35
Mar-22	543624.70	458941.32	1002566.02	314566.23	654842.80	0.00	654842.80	1971975.05	1971975.05
Total	6918158.81	4451298.34	11369457.15	3286501.90	7324496.92	429178.02	7753674.94	22409633.99	21980455.97

नादन कालफाल्ड्स लामटड
(मिनिरत्न कंपनी)
(कोल इण्डिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited
(A Miniratna Company)
(A subsidiary of Coal India Limited)

Office of The General Manager, Jayant Project



CIN- U10102MP1985GO1003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company
Post- Jayant , Distt- Singrauli, M.P. PIN-486890
Phone: 07805- 222435, (FAX) 222228

e-mail: gmint.ncl@coalindia.in website : www.nclcil.in

No: Jnt/Env./NGT/F-15/23/21

Date: 08.02.2023

To,
The General Manager (Env./Forest),
NCL, Singrauli.

Sub: Information related to coal transportation details for NGT O.A. 862 of 2022 (Pankaj Kumar Mishra vs. Union of India & Ors.) .
Ref: Your E-mail dated 01.02.2023

Dear Sir,

With reference to above referred subject matter, the details of coal transportation for last five years as per the prescribed format is attached herewith.

This is for your kind information.

Yours faithfully,


8/2/23
Area General Manager,
Sanjay Jayant
8/2/23

Encls.: As above.

Details of Coal Production and Despatch

1	Yearwise coal production for last five years for the period 2018-19 to 2022-23 (upto Jan 2023)	
Year	Coal Production In Mill Te	
2018-19	18.37	
2019-20	19.53	
2020-21	21.03	
2021-22	24.74	
2022-23 (upto Jan 2023)	21.50	

2	Year-wise coal transportation for the past 5 years (Mill Te)			
Year	Mode of dispatch			Total
	a. From Mine to CHP to MGR & railway	b. From Mine to Siding to Railway	c. From Mine to other location (via Road)	
2018-19	9.658	5.812	3.044	18.514
2019-20	10.696	6.049	2.727	19.472
2020-21	10.972	6.088	2.823	19.883
2021-22	11.257	8.038	5.115	24.41
2022-23 (upto Jan 2023)	10.323	7.59	4.598	22.511

3	Vehicle used for coal transportation via road are Tippers with average size of 30 Metric Te
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4	Road routes used for coal transportation a. Route 1 : Jayant - Anapara-Varanasi to other locations b. Route 2 : Singrauli - Bargawan - Katni to other locations
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5	Expenditure incurred (year wise) on if any in the upkeep of public roads to avoid dust.
Year	Expenditure for dust control on coal transport road in (Rs. in Lakh)
2018-19	49.60
2019-20	215.63
2020-21	150.73
2021-22	242.17
2022-23 (upto Jan 2023)	195.99
Total	854.12

The expenditure has been calculated based on different components like mist spray water tankers cost of procurement and maintenance, the wages for manual sweeping, wages for drivers etc .

6	Methods employed to ensure that the coal transport vehicles do not cause dust pollution Following methods are adopted to control the dust pollution : 1. Trucks are fully covered with tarpaulin while carrying the coal outside the leasehold area of mine. 2.Regular water sprinkling is doen by the mobile water tanker and truck mounted mist spray system. 3. Regular sweeping of coal transport road is done by manual and road sweeping machine. 4. Trucks are optimally loaded with the designed carrying capacity to avoid any spillage.
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Rakesh
8/2/23
DY. MGR (Env)

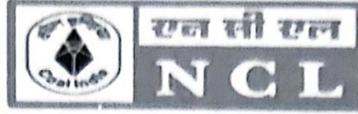
Sanif.
Nodal officer (Env)
Jayant

M/s Nigahi Mines Coal Transportation Details in NGT O.A. 862 OF 2022

	Data required	Year 1 (2018-19)	Year 2 (2019-20)	Year 3 (2020-21)	Year 4 (2021-22)	Year 5 (2022-23) Upto 31st Jan
1	Year-wise for the past five years coal production (MT)	18.48	19.59	20.66	21	19.31
2	Year-wise coal transportation for the past 5 years (MT)	18.23	19.44	20.03	22.1	19.48
2 (a)	From Mine to CHP to Railway	16.73	15.81	16.11	15.25	13
2 (b)	From Mine to Siding to Railway					
2 (b) (i)	Wharfwall	0	1.24	1.79	3.86	4.09
2 (b) (ii)	Railway Siding	0	0	0	0	0
2 (c)	From Mine to Other location (via Road)	1.5	2.39	2.13	2.99	2.39
2 (d)	From Mine to Siding to other location (via Road)	0	0	0	0	0
2 (e)	Any other (Please specify)	0	0	0	0	0
3	Vehicle used for coal transportation via road	Tippers/Trailers = 25-60 Tonnes, Body Trucks = 16-55 Tonnes				
4	Road routes used for coal transportation					
4 (a)	Route 1 (specify).....%age of time	IOCL Weighbridge (Through Mudwani/Shaktin agar) = 100%	IOCL Weighbridge (Through Mudwani/Shaktin agar) = 100%	IOCL Weighbridge (Through Mudwani/Shaktin agar) = 100%	IOCL Weighbridge (Through Mudwani/Shaktin agar) = 100%	IOCL Weighbridge (Through Mudwani/Shaktin agar) = 50.76%
	Route 2 (specify).....%age of time	----	----	----	----	Eastern Weighbridge (Through Morwa) = 49.24%
5	Expenditure incurred (year wise) on if any in the upkeep of the public roads to avoid dust.	There is no public road comes in the purview of Nigahi Project, on which coal transportation takes place. However two no. of truck mounted mist fog cannons are working from FY 2022-23, for dust suppression on public road in the leasehold area of Nigahi OCP. Annual expenditure on these roads is Rs. 1.24 crore.				
6	Methods employed to ensure that the coal transport vehicles do not cause dust pollution	<p>1. In addition to existing pucca roads, construction work of additional CC road for coal transportation in leasehold of Nigahi project is in progress, which is expected to be completed by 01.04.2023.</p> <p>2. In addition to manual cleaning of roads, 2 numbers of road sweeping machines are also in operation for regular cleaning of roads.</p> <p>3. Regular water sprinkling is being done through dumpers on the haul roads and through automatic fixed water sprinklers at the loading/unloading and transfer points. Total 28 Water Tankers available are 5 of 70 KL, 4 of 28 KL, 6 of 20 KL, 1 of 18 KL, 10 of 13 KL, 2 of 9 KL</p> <p>4. In addition to above, dust suppression is being done through 4 numbers of fog cannons (3 truck mounted and 1 fixed).</p> <p>5. Further, 4 numbers of fixed fog cannons for wharfwall, coal stock yard and haul roads are under tendering through GEM Portal, which are likely to be commissioned by 31.05.2023.</p>				

Amlohri Coal mine

S.No.	Parameters	FY 2022-23 (till Jan)	FY 2021-22	FY 2020-21	FY 2019-20	FY 2018-19
1	Coal Production (MT)	11.83	14.00	13.61	13.47	13.04
2	Coal Transportation (MT)					
	a. From Mine to CHP to MGR	10.50	12.19	10.69	11.61	11.61
	b. From Mine to Siding to Wharfwall	1.74	1.77	1.80	0.93	-
	c. From Mine to other location (via Road)	0.26	0.39	0.44	0.89	0.46
	d. From Mine to siding to other location (via Road)			-		
	e. Any Other			-		
6	Methods employed to ensure that the coal transport vehicles do not cause dust pollution	<p>Coal transportation is being done majorly through MGR rail system thus avoiding road transportation by Amlohri Project. Any Coal being taken by private party through e-auction, following methods are employed to ensure that no fugitive dust pollution is caused by road transportation of coal by third party;</p> <ol style="list-style-type: none"> 1. Dispatch of coal only through fully tarpolline covered trucks. 2. Water spraying along the coal transport road. 3. Dispatch only during non-rush hours to ensure zero spillage due to breaking. 4. Maintenance of road so that no pot holes come in way avoiding any spillage. 5. To avoid any dust impact, transportation is done during night hours. 				



ब्लॉक-बी परियोजना / Block-B Project

CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & ISO: 45001 Certified Company

ब्लॉक-बी, परियोजना, पो:गोरबी जिला:-सिंगरौली (म.प्र.)-486892/ Block-B Project, Post-Gorbi, Distt-Singrauli (M.P.) PIN 486892
Phone: 07805-256092, (FAX) 256092 email: gmncclbb@gmail.com website: www.nclcil.in

No.-BB/Env/NGT/2023/148/

Date: -04.02.2023

To,
Sunil Kumar Meena, Scientist-D
Central Pollution Control Board,
Regional Directorate, Bhopal
Madhya Pradesh

Subject: - Coal transportation details in NGT O.A. 862 of 2022
Ref: - Your mail dtd 30.01.2023

Sir,

In connection with above subject and referenced mail, the information sought from Block-B Project is as following: -

1. Year-wise past 05 years coal production (MT) – Coal production data with respect to Block-B Project is as follows: -

Year	Coal Production by Block-B Project
2018-19	5.469 MT
2019-20	5.469 MT
2020-21	5.47 MT
2021-22	5.47 MT
2022-23 (till Dec'22)	4.50 MT

2. Year-wise coal transportation for the past 05 years (MT) – Coal transportation data with respect to Block-B Project is as follows: -

Year	From Mine to CHP to railway	From Mine to Siding to Railway	From Mine to other location (via Road)	From Mine to Siding to other location (via Road)	Any Other
2018-19	-	4.12MT	1.38 MT	NA	NA

Year	From Mine to CHP to railway	From Mine to Siding to Railway	From Mine to other location (via Road)	From Mine to Siding to other location (via Road)	Any Other
2019-20	-	4.22 MT	1.32 MT	NA	NA
2020-21	-	4.45 MT	0.97 MT	NA	NA
2021-22	3.15 MT	1.03 MT	1.30 MT	NA	NA
2022-23 (till Dec'22)	3.77 MT	0	0.72 MT	NA	NA

3. Vehicle used for coal transportation via roads – Vehicle used are trucks and tippers.

4. Road Routes used for coal transportation – All trucks are transporting coal through 'Rewa-Ranchi NH-39' route.

5. Expenditure incurred (year-wise) on if any in the upkeep of the public roads to avoid dust – Expenditure on upkeep as well as construction of public roads in chronology order is as follows: -

a. Cleaning and sweeping of coal transportation road from Rly. Siding Morwa towards Railway Station via Shukla More was taken up in 2019-20 with an expenditure of ₹ 17.12 lakhs.

b. Development of tri-junction in front of the GM-Office, Block-B Area was taken up in 2020-21 with an expenditure of ₹ 92.12 lakhs.

c. Cleaning and sweeping of coal transportation road berm from GM Office to workshop was taken up in 2020-21 with an expenditure of ₹ 8.50 lakhs.

6. Methods employed to ensure that the coal transportation vehicles do not cause dust pollution

– Following methods have been employed for dust suppression on public roads by Block-B Project –

a. On 09.06.2021, 'Indian Rail' connectivity has been established with the CHP running at Block-B Project. This has stopped transportation of coal from Mine to Spur-II Siding by trucks, and thus reducing the amount of trucks involved in coal transportation and subsequently pollution caused by them.

b. 02 Nos. Truck mounted fog cannon have been procured in 2019-20 at a cost of ₹87.08 lakhs for sprinkling water at public roads near Block-B Project. Also, 01 No. departmental water tanker is utilized for sprinkling of water on public roads.

c. 01 No. Truck mounted fog cannon has been hired in 2022-23 to sprinkle water from 'Kanta Mod' to NCL HQ for a period of 3 years at a cost of ₹ 59.33 lakhs (excluding diesel).

d. 01 No. water tanker has been hired to sprinkle water on public roads near Block-B Project for 90 days (ongoing) in 2022-23 for an expenditure of ₹ 8.11 lakhs. Further, 01 No. water tanker hiring for a period of 01 year is in process.

e. 02 Nos. Dust Sweeper machines have been procured by the Block-B Project for appx. expenditure of ₹ 1 crcre. Further, several dust sweeper machines are being hired by NCL HQ for covering all coal transport roads.

f. All trucks involved in coal transportation are fully covered with tarpaulin.

This is for your kind information.

Yours faithfully,



4.2.2023
General Manager
Block-B Area



Copy to: -

1. General Manager (Envnt.)/NCL HQ
2. Project Officer/BB

नॉर्दर्न कोलफील्ड्स लिमिटेड
(मिनिरात्र कंपनी)
(कोल इण्डिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited
(A Miniratna Company)
(A subsidiary of Coal India Limited)



JHINGURDA PROJECT



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट-जिंगुरदा कोलियरी, जिला- सिंगरौली, म.प्र., पिन 486889/ Post- Jhingurda Colliery, Distt- Singrauli, M.P. PIN-486889

01Phone: 07805- 272002, (FAX) 272003 email: gmjrd.ncl@coalindia.in website : www.nclcil.in

No.JRD/GM/Coal Transportation/2023/ 305

Dated: 01.02.2023

To,
The General Manager(Envr.),
NCL, Singrauli.

Sub:- Coal transportation details in respect of Jhingurda Project

Dear Sir,

Enclosed please find herewith the pointwise details of coal transportation in respect of Jhingurda Project as desired by NGT O.A. 862 of 2022 vide e-mail dated 30.01.2023.

This is for your kind information and necessary action,

Encl: As above

Yours faithfully,

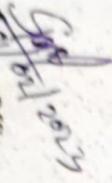

Area General Manager
Jhingurda Area

Copy to:-

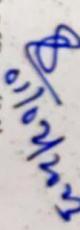
1) TS to CMD, NCL.

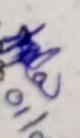
NORTHERN COALFIELDS LTD.
JHINGURDA AREA
Coal Transportation details in NGT O.A. 862 of 2022

Sl. No.	Particular	Year				
		2017-18	2018-19	2019-20	2020-21	2021-22
1	Coal Production in (MT)	2.63	2.66	2.63	2.57	2.74
2	Coal transportation (MT)					
	a Mine to CHP to Railway (MT)	1.30	1.13	0.25	--	--
	b Mine to siding to Railway (MT)	--	--	1.70	2.38	2.24
	c From mine to other location (via road)(MT)	1.30	1.42	0.85	0.09	0.24
	d From mine to siding to other location (via road)	NA	NA	NA	NA	NA
	e Any other please specify					
3	Vehicle used for coal transportation via road	Tipper, Trailer, Truck (12 wheels to 16 wheels) of different capacity.				
4	Road route used for coal transportation					
	a Route 1 %age of time (Coal transportation within mine boundary from coal yard to semi mobile crusher to wharff wall to railway)	Nil	Nil	64.64	92.61	81.75
	b Route 2 %age of time (dispatch under spot e-auction to different consumer to different location)	49.43	53.38	32.32	3.50	8.76
	c Route 3 %age of time	NA	NA	NA	NA	NA
5	Expenditure incurred (year wise) on if any in the upkeep of the public road to avoid dust (Rs. In lakh)	NA	NA	NA	NA	1.33
6	Methods employed to ensure that the coal transportation vehicles do not cause dust pollution.	Water Sprinkling at coal stock yard, transporting road, wharff wall and other associated road within mine. All trucks of road sale consumer covered with tarpolin.				


Area Survey Officer
Jhingurda Project


Area Sales Manager
Jhingurda Project


Staff Officer(M)
Jhingurda Project


Project Officer
Jhingurda Project

**M/s Andhra Pradesh Mineral Development Corporation Limited, Suliyari
Coal Block (Mined by Adani Group)**

1	Extent of coal transportation through road at present and plan for minimizing / eliminating coal transportation through road	<p>Transfer of EC from M/s Essar power at (EPMPL) to M/s Mahan Energen Ltd (MEL) - 15/09/2022</p> <p>Coal is being transported through existing road with tarpaulin covered trucks. On the random checking of the coal transporting vehicle were found covered, however few vehicle were observed with green sheet cover that has potential of easily break down.</p> <table border="1"> <tr> <th colspan="2">Year-wise coal transportation for the past 5 years (MT)</th> </tr> <tr> <td>FY 2022-23 Upto 31st Jan</td> <td>2.383513MMT</td> </tr> <tr> <th colspan="2">Coal transportation</th> </tr> <tr> <td colspan="2">Suliyari Mine to TPP and Gajra Behra Coal siding completely via Road (25-30KMs)</td> </tr> </table> <p>Widening and strengthening of existing road (Approx 4.7 km) are under process.</p> <p>Subsequently road sweeping machine and pressurized water tankers has been placed for control of dust.</p> <p>Technical feasibility report is under preparation for Coal handling plant and railway siding.</p>	Year-wise coal transportation for the past 5 years (MT)		FY 2022-23 Upto 31st Jan	2.383513MMT	Coal transportation		Suliyari Mine to TPP and Gajra Behra Coal siding completely via Road (25-30KMs)	
Year-wise coal transportation for the past 5 years (MT)										
FY 2022-23 Upto 31st Jan	2.383513MMT									
Coal transportation										
Suliyari Mine to TPP and Gajra Behra Coal siding completely via Road (25-30KMs)										

i.	Introduction	
1.	Name of the Plant/Mine	Amelia (North) Coal Mine Village- Majhauri, Tehsil – Deosar, Distt. – Singrauli (M.P.) 486886
2.	Consented Production Capacity	2.8 MTPA
3.	Environment Clearance	i) Letter No. J-11015/355/2006-IA. II (M) dated 20th July, 2007 , & ii) Letter No.: J-11015/355/2006-IA. II (M) dated 13th May, 2015 by MoEF&CC (GOI) New Delhi
4.	Validity date of Consent to Operate	31.03.2023
5.	Contact details of the Environment officer	Sandeep Kumar Sharma Asst. Manager (Environment) Mob: 9109292646 Rohit Kumar Sharma (Officer Environment) Mob: 9589378788

1.	(Year-wise) for the past five years coal transportation (MT)	
	FY 2017-18	2.8 MT
	FY 2018-19	2.8 MT
	FY 2019-20	2.8 MT
	FY 2020-21	2.8 MT
	FY 2021-22	2.8 MT
2.	Year-wise coal transportation for the past 5 years (MT)	
a.	From Mine to CHP to Railway	
	FY 2017-18	2.8 MT
	FY 2018-19	2.8 MT
	FY 2019-20	2.8 MT
	FY 2020-21	2.8 MT
	FY 2021-22	2.8 MT
b.	From Mine to Siding to Railway	
	FY 2017-18	Nil
	FY 2018-19	Nil
	FY 2019-20	Nil
	FY 2020-21	Nil
	FY 2021-22	Nil
c.	From Mine to other location (via Road)	NA
d.	From Mine to Siding to other location (via Road)	NA
e.	Any other (please specify)	None
3.	Vehicle used for coal transportation via road	
		NA
4.	Road Routes used for coal transportation	
		NA
5.	Expenditure incurred (year wise) on if any in the upkeep of the public roads to avoid dust.	
		NA
6.	Methods employed to ensure that the coal transport vehicles do not cause dust pollution.	
		NA

Moher & Moher Mine

Coal Transportation details in NGT O.A. 862 of 2022								
S. No	Question		Reply					
1	(Year-wise) for the past five years coal production (MT)	:	Year	2017-18	2018-19	2019-20	2020-21	2021- 22
			Coal Production (Million Te)	18.0	18.0	18.7	18.6	18.0
2	Year-wise coal transportation for the past 5 years (MT)	:	Year	2017-18	2018-19	2019-20	2020-21	2021- 22
			Coal Transportation (Million Te)	18.0	18.0	18.8	18.1	18.2
a.	From Mine to CHP to Railway	:	Not Applicable					
b.	From Mine to Siding to Railway	:	Not Applicable					
c.	From Mine to other location (via Road)	:	Not Applicable					
d.	From Mine to Siding to other location (via Road)	:	Not Applicable					
e.	Any other (Please specify) –	:	Covered,dust proof , over land coal conveyor from CHP mine to Power plant					
3	Vehicle used for coal transportation via road	:	Not Applicable					
4	Road Routes used for coal transportation	:	Not Applicable (refer reply of point 2.e.)					
a.	Route 1 (specify)----- %age of time	:					
b.	Route 2 (specify)----- %age of time	:					
c.	Route 3 (specify)----- %age of time & Other	:					
5	Expenditure incurred (year wise) on if any in the upkeep of the public roads to avoid dust.	:	Not Applicable Coal is being transported from SPL coal mine to power plant through covered ,dust proof over land conveyor . Therefore ,there is no use of raod for coal transportation .					
6	Methods employed to ensure that the coal transport vehicles do not cause dust pollution .	:	Not Applicable					

Joint Committee Report in reference to Hon'ble NGT order in the matter of O.A. No. 862/2022 Pankaj Kumar Mishra versus Union of India & Ors. dated 25.11.2022

Hon'ble NGT vide its Order dated 25.11.2022 in the matter of Original Application No. 862/2022 Pankaj Kumar Mishra versus Union of India 203/2021 Devidas Khatri versus Union Of India & Ors, instructed the following: -

“... 2. This original application has been filed under Sections 14, 15, 17 and 18(1) of National Green Tribunal Act, 2010 (hereinafter referred to as 'NGT Act, 2010') raising a grievance that transportation of fly ash by various thermal power stations located at Singrauli and Sonebhadra region are causing huge air pollution on the roads and local residential areas and the authorities responsible for monitoring and supervising such transportation are not acting in accordance with provisions of law and 2013 and 2019 Guidelines laid down in this regard by Central Pollution Control Board (hereinafter referred to as 'CPCB').

3. In our view, matter requires consideration as it involves a substantial question relating to environment arising from implementation of the enactments specified in Schedule I of NGT Act, 2010. However, before proceeding further, we find it appropriate to obtain a factual report for which we constitute a joint Committee comprising MoEF&CC, CPCB and State PCB who shall submit a factual report within three months by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/ OCR Support PDF and not in the form of Image PDF.

4. The report shall highlight on the compliance with the aforesaid provisions relating to transportation of fly ash in accordance with Singrauli and Sonebhadra action plan to maintain environmental quality of this critically polluted area.....”

1. For the compliance of Hon'ble NGT directives following members have been nominated by the concerned departments
 - 1.1. Dr. A.K.Gupta, Scientist-E, Integrated Regional Office (CZ), MoEFF&CC, Lucknow;
 - 1.2. Shri Rajendra D. Patil, Scientist-D, CPCB RD-Lucknow
 - 1.3. Shri Umesh Kumar Gupta, AEE, Regional Office, UPPCB, Sonebhadra.
2. The committee has conducted virtual meeting with applicant on 16.02.2023 to understand his grievances as well as to discuss the instructions of Hon'ble NGT and the methodology that needs to be adopted for its compliance. The major concern highlighted by the applicant is about air pollution due to road transportation of coal and fly ash.
3. Thereafter, site inspections of the area were conducted by the committee during 21.02.2023 – 22.02.2023. During the site visit the committee interacted with the representatives from Coal Mines (NCL) and Thermal Power Plants (TPPs) located in the U.P. side of Singrauli

area to understand the current practices adopted by them and the difficulties (if any) faced by them in complying to the Norms & guidelines concerned with the matter.

4. A Singrauli is known for its coal reserves and power generation plants. Due to dense industrial activities in the area, significant pollution is being discharged into the surrounding environment. The Details of the Coal Mines and Thermal Power Plants located in the Singrauli area of Uttar Pradesh is as tabulated below

4.1. Details of Five Coal Mines

NCL Mine Project	Production in MTPA		% of fly ash	Mode of transportation
	Capacity	Actual		
NCL Dudhichua	25	18.33	28-32	By Rail and Road
NCL Bina	10.50	9.20	30-40	By Rail and Road
NCL Khadia	15	12.66	24-28	By Rail and Road
NCL Krishnashila	7.50	6.45	21-28	By Rail, Belt pipe conveyor and road
NCL Kakri	3.00	1.73	30-35	By Rail and Road
Total	61.00	48.37		

*Based on the data provided from 01.04.2022 to 31.01.2023 (financial year) (306 Days)

- 4.2. As on January 2023, total coal production carried out by the NCL mines is around 48.37 Million MT against the permitted production capacity of 59 Million MT.

4.3. Details of Six Thermal Power Plants

Name of TPP	Production in MW		Coal Consumption (MT)	Avg. Ash % in coal
	Capacity	Actual		
M/s NTPC Rihand	3000	2673	1,18,91,455	27.70
M/s Anpara TPP	2630	2179.44	1,22,40,000	35.35
M/s NTPC Shakti Nagar	2000	1806	84,50,322	31.01
M/s Lanco TPP	1200	967	42,20,620	33.10
M/s Renusagar TPP	999.7	748.59	36,86,702	33.05
M/s Obra TPP	1000	510	36,41,400	37.39
Total	10,829.7	8,884.03	4,41,30,499	31.08

*Based on the data provided from 01.04.2022 to 31.01.2023 (financial year) (306 Days)

The unit wise details are given at **Annexure**.

- 4.4. Average daily coal consumption and ash generation by these powerplants is as tabulated

Name Of TPP	Coal Consumption/Day (MTPD)	Ash Generation /Day (MTPD)
M/s NTPC Rihand	38860.96	10762.90
M/s Anpara	40000.00	12474.77
M/s NTPC Shaktinagar	27615.43	8563.24
M/s Lanco TPP	13792.88	4565.62
M/s Renusagar TPP	12048.05	3984.31
M/s Obra TPP	11900.00	4467.32
Total	1,44,217.32	44,818.16

*Based on the data provided from 01.04.2022 to 31.01.2023 (financial year) (306 Days)

- 4.5. As shown in the table around 1.44 Lac MT coal is consumed daily by the mentioned power plants and 0.45 Lac MT ash generated by them on daily basis. Transportation is involved in handling of these material.
5. All the five mining projects of Northern Coalfields Limited (NCL) are populated along the Auri Mode to Shakatinagar Road near Anpara which is located on the N-W bank of the Rihand reservoir. Similarly, out of six Thermal power plants four are also populated along the Auri-Shakatinagar Road near Anpara. The NTPC Rihand is located on the other bank (South) of the reservoir. Whereas, Obra TPP is located at and distance of 50 KM in North direction from the reservoir on the bank of River Renu. Around 313 densely populated stone crushers are also located near the Obra TPP.
6. Following are some of the identified activities of coal mines and TPPs that can significantly contribute to air pollution in the area.
- 6.1. Fugitive dust emission during coal mining operations (such as drilling & blasting), hauling & internal transportation, coal processing (crushing, grinding, washing, etc.), and overburden removal and management, etc.
- 6.2. Air pollution during the transportation of coal
- 6.3. Source emissions released during combustion of coal by the Thermal Power Plants.
- 6.4. Fugitive dust emission at coal storage yards in TPPs
- 6.5. Fly ash disposal at ash dykes and transportation of fly ash for resourceful utilization
7. In-addition to above mentioned activities of the coal mines and TPPs, the uncontrolled dust emission from stone crushing units and their associated activities is another major source of air pollution in the Sonbhadra district of Uttar Pradesh specially in the Dalla, Roberstganj area.
8. The coal mines have taken some of the measures to control the fugitive emission during the mining operations
- 8.1. These coal mines are in process of deploying surface miners to avoid the drilling and blasting operations.
- 8.2. The mine water is mainly used for road spraying. The coal mines are doing the water spraying on internal roads through tankers of capacities varying between 10 KL to 30 KL.
- 8.3. These mines are in process to construct the pucca road for internal transportation of the coal in the mine area.
- 8.4. Fog canons have been installed at strategic points to control the fugitive dust generated during coal crushing, storage and transportation.
- 8.5. The water spraying arrangements and curtains have been provided at the coal crushing areas.
- 8.6. Green top surface is developed on the over burden.
- 8.7. The fog canons have been installed at CHP and Wharfwall area.

- 8.8. All the NCL mines have installed CCTV camera at the exit point to ensure the compliance condition of covered truck for road transportation.
- 8.9. The unit wise details of measures taken by the NCL mines located in Uttar Pradesh is Given at **Annexure**
9. Similarly, the TPPs have also taken the following measures to control the dust emission
- 9.1. The TPPs have provided a cover shed and water sprinkling/fog system to trap the dust released during the unloading of coal at track hopper/ Tripler.
- 9.2. Water sprinkler systems have been installed to suppress the fugitive emissions from coal storage area.
- 9.3. At ash dyke, portable water sprinkler system adopted by unit to wet the surface for suppress the fugitive emission.
- 9.4. Wet ash slurry is carried through closed pipelines to the ash dykes.
- 9.5. In process to develop green top cover on the surface of the abandoned ash.
- 9.6. Some powerplants are also in process to install Solar Power Plant on the abandoned ash dyke.
- 9.7. Camera installed at entry gate to monitor the status of trucks reaching TPP
- 9.8. The unit wise details of measures taken by the TPPs located in Uttar Pradesh is Given at **Annexure**
10. Though the efforts as mentioned above have been taken by the TPPs and NCL mines to control the air pollution, but still, these are not adequate due to which this area is falls in the category of Severely Polluted Area.
11. Road transportation of coal and fly ash is the major challenge, if we consider to control the air pollution by these TPPs and coal mines. Dry coal and fly ash materials can easily become airborne during transportation, resulting in dust emissions that can contribute to air pollution.
- 11.1. The open trucks are used for road transportation for coal from coal mines to the user end. The ratio of transportation of coal by road to rail/other mode is as given

NCL Mines Projects	% of Coal Transportation Through		
	Rail	Road	Other
NCL Dudhichua	77.72	18.4	3.88 *
NCL Bina	69.41	30.59	---
NCL Khadia	70.5	29.5	---
NCL Krishnasila	53.90	12.90	33.20
NCL Kakri	57.65	42.34	---
Total	70.36	23.74	5.90

* Internal transfer to Khadia Project

- 11.2. Total coal production by these five NCL mines during the FY 2022-23 till January 2023 is 48.366 Million Metric Tons out of which 23.74 % coal has been transported through

road. Though the road transportation of coal is less than rail transportation, the potential of air pollution during road transportation is in multiples of other modes of transportation. Hence, more efforts are required to brought the road transportation percentage below 10 % to comply with the condition of the Environmental Clearance.

11.3. The vehicular movement involved in the road transportation is as given

NCL Mines Projects	Movement of Trucks in Nos per day			
	0-50 Km	50-100 Km	100-500 Km	>500
NCL Dudhichua to UP Side	80	00	20	00
NCL Dudhichua to MP Side	250	45	05	00
NCL Bina	80	100	20	30
NCL Khadia	328	98	06	00
NCL Krishnasila	86	04	40	00
NCL Kakri	55	35	10	00
Total	879	282	101	30

11.4. The reported vehicular movement involved in the road transportation from NCL mines to the user is around 1,292 trucks per day. Out of which 68 % transportation is for the local supply within 50 KM radius and another 22% transportation is involved upto the distance of 100 KM. Thus, maximum road transportation is involved for the local supply of the coal.

11.5. The dry ash from TPPs is transported through the bulkers and pneumatic transfer arrangements are installed for loading. This transportation method is relatively less polluting. Whereas, the pond ash is transported through the open truck which can cause the dust pollution if proper measures have not been taken during loading and transportation. Thus, the pond ash utilization is more polluted than the transportation of dry ash. The ratio of fly ash to pond ash utilization is as given below

Name of TPP	Fly Ash Generation (MT)	Total Utilization (%)	Quantity utilised		Utilization Ratio	
			Dry Ash	Pond Ash	Dry Ash	Pond Ash
NTPC Rihand	3293447	52.07%	214082	1500941	12%	88%
Anpara TPP	3817280	1.61%	54508	7113	88%	12%
NTPC Shaktinagar	2620300	34.38%	4515	896419	1%	99%
Lanco TPP	1397080	9.11%	126920	304	100%	0%
Renusagar TPP	1219200	120.28%	1011937	454496	69%	31%
Obra TPP	1367000	11.97%	61952	101692	38%	62%
Total	13714307	32.34%	1473914	2960965	33%	67%

11.6. Total ash generation from these power plants during 2022-23 till January 2023 is 1,37,14,307 MT. Whereas the overall ash utilization in the area is 32% of the ash generation quantity.

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11.7. Out of total ash utilized 67% portion is of pond ash and remaining 33% is the dry ash. Thus, the ash utilization is mainly governed through the usage of pond ash transportation of which have more potential to generate the air pollution.

11.8. The quantum of vehicular movement involved in ash transportation is tabulated below,

Name of the TPP	Vehicular movement in Nos/day
M/s NTPC Shaktinagar	75
M/s NTPC Rihand	116
M/s Anpara Thermal Power Plant	00
M/s Obra Thermal Power Plant	10
M/s Lanco Thermal Power Plant	00
M/s Renusagar Power Plant	46
Total	247

11.9. In addition to the movement of transportation vehicles from TPPs and NCL mines, following is the status of vehicular movement of transportation vehicle from other industries in the area.

Name of industry	Capacity	Power	Vehicular movement in Nos/day
M/s Hindalaco Industry	420 KTPA	84 MW CPP	125
M/s Ultratech Cement, Dalla	3.5 MTPA Clinker and Cement	30 MW CPP	180
M/s Ultratech Cement (Dalla Super)	5 MTPA		--
M/s Grasim Chemical Industry	129000 metric ton year	50 MW	35
M/s Birla carbon black	6100 tonn/ month	15 MW (Gas based)	20
Total			360

11.10. Thus, from the above data, total load of movement of transportation vehicles involved in various industrial materials in the area is around 1899 No of vehicles per day. In addition to this large number of vehicles are also used for internal transportation various materials in the industrial units and man-power transportations. Thus, the transportation is one of the major sectors contributing to the air pollution in the area.

12. The major issues related to road transportation of coal observed by the committee during the field visit are as listed

12.1. As per the Office Memorandum of MoEF&CC dated 29.10.2020, the condition to use truck with tarpaulin cover for road transportation of coal has been prescribed. However, during the visit, it has been observed that all the trucks are covered with thin LDPE sheets/ green net instead of the tarpaulin. This cover is easily breakable and was resulting into the spillages at several locations during the road transportation.

12.2. Some of the truck used in coal transportation does not have number plates and not carrying the required statutory documents including PUC certificates with them.

- 12.3. Huge fine coal dust is found along the public road (Auri Mode -Shakti Nagar) and the black powder is also visible on the houses built along the roadsides as well as vehicles parked.
- 12.4. It has been informed by the NCL that water spraying is been practiced by them to control the dust emission from the said public road. The road stretches have been bifurcated among the NCL mining projects. The office order issued by NCL in this regard is attached at Annexure.
- 12.5. The tyre cleaning mechanism has not been developed by the NCL mines due to which the trucks used in transportation is carrying the coal dust from mining area onto the public roads.
- 12.6. Safety zone planation of 7.5 meter in all along the lease area has not been properly developed by NCL.
- 12.7. Continuous Coal fire has also been observed in number of places in NCL mines. The extent of coal fire was high in coal reject stored in NCL Bina and coal stored near Krishnshila Railway siding.
- 12.8. The approach road from coal mine to reach public road are not concreted resulting in to the high dust emission during the vehicular movement.
13. The major issues observed by the committee during the field visit related to ash handling and its road transportation that causing air pollution are as listed
 - 13.1. As per the guideline issued by CPCB for the Ash transportation, the condition to use mechanically designed covered trucks has been prescribed for as transportation. However, these TPPs are using open trucks for transportation and covering them using the LDPE sheets.
 - 13.2. During the meeting with the stakeholders, it has been informed by the representatives of the TPPs that at present the required number of mechanically designed covered trucks is not available in the area. And the TPPs are in process to increase the ash utilization to cop up with the targets mentioned in the related Notification, imposing the said condition can lower down their ash utilization percentage.
 - 13.3. It has also mentioned in the guideline to maintain minimum of 15 % moisture in the pond ash at the disposal point so ash does not get air borne. Such condition is not been strictly ensured by the TPPs.
 - 13.4. The agency must ensure to collected spilled ash, in case of spillage enrout during transportation. However, the ash spillage/disposal along the road side is frequently observed from the area Hathi Nalla onwards up to the Auri Mode.
 - 13.5. TPPs are disposing of the ash in low-lying areas through identified third persons/parties/user agency. Such an agency has to obtain the required necessary permission from SPCBs and thereafter TPPs are entering into a contract with them for



- disposal of the equivalent quantity of ash. However, such transfer of responsibility of the waste generator is giving scope to arise loopholes resulting in several malpractices.
- 13.6. As per the information provided by UPPCB they have given permission to 11 agencies to disposed of 39,02,404 MT ash in the low-lying area. The details are tabulated at **Annexure.**
- 13.7. M/s Renusagar Power Plant is disposing their pond ash in low lying area through the agency named M/s Singrauli Construction Pvt Limited. The said agency is disposing the pond ash at location situated at road connecting Auri to Singrauli (24°13'23" N – 82°44'24"E). The area was visited by the committee,
- 13.7.1. The agency has obtained permission from UPPCB on 21.06.2022 and as per the information 499261 MT ash has been dumped during August 2022 to March 2023.
- 13.7.2. The said area is excavated by the agency without permission from any concerned department. The accounting of the excavated soil has not made available.
- 13.7.3. In the excavated pits, the pond ash taken from ash dykes of M/s Renusagar Power Plant was dumped.
- 13.7.4. The vehicle used for excavation, ash levelling and suppression were found without any RTO number plates. Hence, the possibilities of use of illegal vehicles cannot be ruled out.
- 13.7.5. The said location is falls in the forest area and hence the mining and ash disposal operations carried out by them is illegal.
- 13.7.6. Similarly, the ash heaps were seen inside the forest areas at several locations along the road reaching to the said disposal area.
- 13.7.7. Moreover, the spirit of low-lying area filling is defeated when they have purposefully developed low-lying area by mining/excavation.
- 13.8. M/s Renusagar Thermal Power Plant is sending the pond ash through rail racks outside the state for disposal/utilization for the various purposes. They are transporting pond ash first to the Krishnshila Railway siding where it is intermediately stored and then loaded into the railway racks after racks will made available. The said railway siding area was visited by the committee
- 13.8.1. Huge quantity of pond ash was found dumped in haphazard manner at the railway siding.
- 13.8.2. The ash was in dry form and huge airborne dust was observed in the area. The condition of maintaining 15% moisture is been violated.
- 13.8.3. Very high fugitive emissions were observed during vehicular movement at the site.

- 13.9. The pond ash removal from the Khadia ash dyke of M/s NTPC Shakatinagar TPP. The required provision to control the fugitive emission was not provided by the unit. The pond ash was dry and huge ash was deposited on the approach road to the dyke. Huge airborne dust emission is observed during movement of the transportation vehicle. Even the ash deposition on the road was to a such extent that the committee could not reach to the ash dyke area by foot.
- 13.10. The committee visited the ash dyke area of M/s Obra TPP during the visit
- 13.10.1. A dust storm was observed by the CPCB team from the ash dyke, which resulted into the zero visibility in the area. The TPP unit has not taken any serious efforts to control dust emission from the ash dyke and most of the surface area was dry, which is the main reason for such dust storm.
- 13.10.2. The ash is spread on the area located along the river bank near the ash dykes of the unit. It is informed that the said ash is deposited due to the discharge of ash slurry in past. On the day of visit, work for covering the said spread ash by soil was in progress. The unit was excavating the soil from the nearby area which falls in the area.
- 13.10.3. M/s Obra TPP is discharging huge amount of ash slurry into the river Renu through Jharia Drain. The same status is being observed from last several years. The Google Earth satellite images also suggests that they are directly discharging the ash slurry into the river since last one decade.
- 13.11. The pipeline carrying ash slurry to the ash dyke of M/s Anpara TPP is damaged at several locations. The fly ash slurry was spread all over the area. After drying the said ash was become airborne.
14. As per the information provided by the RTO department, there are 25,423 registered commercial vehicles in the district. It is also informed to the committee that penalty of Rs. 1,50,354/- has been imposed for over loading during 2022-23 (till February 28, 2023).
15. Around 313 stone crushers are operational near the Dalla area.
- 15.1. Stone crushers have installed dust containment measures but these are not adequate, as substantial dust is emitted into the environment during operation.
- 15.2. Water sprinkling arrangements for dust suppression are also not satisfactory. Fine stone dust which is of little commercial values is dumped inside premises as well as along roads.
- 15.3. Movement of trucks for carrying raw material and products on inner roads is also a significant source of air pollution in the clusters of stone crushers.
- 15.4. Huge airborne dust is observed by the committee in the area. The concentration was to such extent that it was affected the visibility. Similarly, the dust layers were seen deposited on leaves, houses, and other structures.

16. Auri Mode to Shakti Nagar Road is mainly used for the road transportation of coal from the NCL mines. Similarly, the pond ash from NTPC Shaktinagar and M/s Renusagar TPP is also transported through this road.
 - 16.1. The said road is used for both public transport and transportation of coal and fly ash. The public transportation is impacted at several times due to the intense industrial transportation.
 - 16.2. The expansion to the four-lane road has been done in the recent years. However, barrier by tree plantation has not made in the median.
 - 16.3. The side patches are not constructed. Due to which huge deposition of coal dust is visible on the road side. However, the sprayed water is only carrying the coal dust to the roadsides, and it is again airborne once get dried. The removal deposited coal dust through vacuum is not practiced.
 - 16.4. The residential areas are situated along the roadside is seen severely impacted and several layers of fine dust is easily visible on the structures and vehicles parked near the houses.
 - 16.5. In addition, the coal is used for burning in the roadside's shops, hotels and in some of the houses as well. The uncontrolled burning of coal is also contributing to the air pollution in the area.
 - 16.6. The CCTV camera for monitoring the road transportation is yet not provided. Similarly, the air quality monitoring stations have also not available to monitor the air pollution impact.
17. Committee observed that the use of Mist gun by industry are very limited, even few of them are still not procured it. Number of mist gun and its capacity needs to be finalized based on the number of trucks involve in road transportation subsequently and dust emission, movement etc.
18. Committee also tried to obtain data related utilization of district mining fund. The said fund needs to be utilized for betterment of the area by adopting the measures required for controlling the air pollution. However, the district administration denied to provide the related data to the committee.
19. Committee observed that the Hindalco Industry is very causal on the part of red mud Management (handling, storage and transportation). They still not procured/having mist gun/ fog cannon, specific water spraying system for dust suppression specially in the red mud dumping areas. Green belt (trees, shrubs, green cover) development in an around the red mud area is non-significant. It has been found that the some of the area of the red mud site is converted to garden by using ample amount of earthen soil. However, most of the red mud storage area is kept open without any dust suppression system, due to which huge airborne dust is generated during vehicular movement and during windy condition.

20. Grasim industry are in process to develop green belt by using Miyawaki technique on the area where the fly ash was dumped earlier.
21. Except M/s NTPC Rihand TPP, none of the unit have installed the MSW processing plants for treatment of MSW generated from their residential colonies. The MSW generated is mostly disposed of into the low-lying areas and the incidents of MSW burning were also observed in past. Some of the NCL projects are in process to install the MSW treatment units.
22. **Recommendations:** Following are some of the recommendations suggested by the committee to control the air pollution in the area.

Steps needs to be taken for Fly Ash management and Transportation

- 22.1. The TPPs can be asked to strictly follow the CPCB guideline for transportation of pond ash by road. The conditions specifically related to moisture content in the transported ash and vehicle condition need to be ensured strictly.
- 22.2. TPPs also need to install tyre cleaning facility for transportation vehicle before reaching to the public road.
- 22.3. The TPPs can be asked to explore the possibilities to increase the use of dry ash instead of pond ash, as the dry ash transportation through bulker is relatively less polluting.
- 22.4. The TPPs can be asked to maintain wet surface condition of the ash dykes to avoid the dust emission during the windy condition.
- 22.5. Committee observed that the fly ash dyke management of the almost all thermal power plant is not up to the mark (Stabilization, maintenance, slope, water recirculation system, transportation, etc.) specially with Obra TPP, Anpara TPP and Shaktinagar TPP. Fly ash dyke can also play a pivotal role in generation of dust specially during summer due to improper management. Overall, its management needs to be reviewed. MOEF&CC and CPCB can jointly review the Fly ash dyke Management of the entire dyke available in the area in question.
- 22.6. Improper fly ash dyke management can trigger dyke breaching in the area in question which ultimately plays a significant role in dust emission. Necessary measures can be taken by all TPPs.
- 22.7. Majority of Road connected from fly ash dykes to main road are unpaved. Local administration can ensure that the all-approach road can be blacktopped and use of water sprinkler on regular basis for controlling of dust within six months.
- 22.8. UPPCB can be asked to initiate action against the defaulter TPPs for the various violations as mentioned in the report above.
- 22.9. The illegal dumping of ash along the road side and inside the forest area is a matter of serious concern. And at the same time none of the TPP is taking responsibility for



this dumping. Hence, the vehicle involved in the ash transportation should be GPS enabled and every TPP can be asked maintain the record of the GPS tracking for cross verification.

- 22.10. Similarly, considering the difficulty in monitoring such kind of illegal disposal and fixing the responsibility of the violator, a group of representatives from every TPP can be formulated. Every TPP can be asked to nominate the official working as chief of the environmental cell in the group. And this group can be made responsible for finding out TPP unit responsible for such illegal disposal of the ash. And in case, this group fails to identify the violator, all the TPPs can be held responsible and equal penalty can be imposed through UPPCB.

Steps needs to be taken for Coal handling and Transportation

- 22.11. Every NCL mining project should install adequate number of fog cannon machines at all the strategic point inside the mining area to suppress the airborne dust. UPPCB should review the installation of the systems on periodic basis.
- 22.12. All the NCL mines should review the frequency of the water spraying on the internal roads through the tankers.
- 22.13. Every NCL mine should develop SOPs to monitor the status of fugitive emission in the mine area through existing CCTV network. The SOPs should contain guideline to take steps to control the fugitive emission.
- 22.14. NCL mines can be asked to brought down the road transportation below 10% to comply with the condition of the Environmental Clearance.
- 22.15. Every NCL mine should install the tyre cleaning facilities for the vehicles used for road transportation of coal and it should be ensure that the tyre of the vehicle reaching to the public road is free from the coal dust.
- 22.16. NCL mining projects should ensure close monitoring of the vehicle involved in the coal transportation. And at any cost the vehicle without authorized number plates and leakages in the body of vehicle should allowed for transportation.
- 22.17. Every NCL mine should collect the coal dust deposited along the public road by deploying vehicles with vacuum extraction system, and should ensure the beneficial usage od the collected coal dust. They can be asked to maintain records of the same for the verification purpose.
- 22.18. Every NCL mine should strictly comply the condition of the tarpaulin cover on the transportation vehicles as mentioned in the office memorandum issued by MoE&CC. At any cost the coverage through LDPE plastic sheets or green net should be permitted.
- 22.19. Every NCL mining project should construct a concrete approach road from the coal mine gate to the public road and should also ensure its maintenance and cleanliness.

- 22.20. Significant quantity of dust is also emitted during loading of coal/fly ash on railway wagon. It is utmost important by concern project to adopt closed loop system for minimization of the dust during loading of coal/fly ash in railway wagon at earliest.
- 22.21. As suggested for the TPPs above, a group of representatives from every NCL mining project can be formulated having with officials working as chief of the environmental cell in each project. This group can be made responsible for ensuring coal dust free public roads. And in case, this group fails to comply, equal penalty can be imposed through UPPCB on all the mining projects.
- 22.22. The TPPs receiving coal through road should ensure that the truck used for transportation is properly covered with tarpaulin. And in case of default, the same can be reported to NCL for taking necessary action.
- 22.23. Every TPP should deploy adequate number of fog canon machines to control the dust from coal storage areas.
- 22.24. UPPCB should take immediate action against the NCL mining projects wherein in coal fire incidents are observed.

Steps needs to be taken to control fugitive emission from other industrial sectors

- 22.25. M/s Hindalco should deploy adequate number of fog cannon machines to suppress the dust from the red mud storage area. UPPCB can initiate action against the unit for not taking any precautionary measure to control the fugitive emission from red mud storage areas.
- 22.26. The sever air-borne dust in the stone crusher area is matter of serious concerns.
- 22.26.1. UPPCB can be asked installed separate CAQMS on the stone crushing area i.e., in Dalla area, for regular monitoring of air quality. Till the time UPPCB should manually monitor the ambient air quality of the area at least twice a week.
- 22.26.2. Local admiration can take cognizance of the air quality data and take prompt action on it. All stone crusher plant can be closed, if, fails to complying the Ambient Air Quality Norm. Responsibility of the individual industry can also be fixed on the non-compliance of the Norms prescribed under AAQ after six months.
- 22.26.3. No further stone crushers should be allowed in these clusters as UPPCB has a stone crusher siting guidelines requiring distance between any two stone crushers.

Steps needs to be taken for betterment of public road condition

- 22.27. Setting of advance CCTV Camera network on main public roads used for the transportation of the coal, fly ash etc. for proper surveillance. In a first phase the Auri Mode to Shakti Nagar Road can be considered for installation of CCTV surveillance.
- 22.28. Each unit can be asked to deploy the adequate number of mist guns/ fog cannons to suppress the airborne dust. The required number can be calculated by UPPCB considering the capacity of the unit and number of trucks involve in road transportation.
- 22.29. To avoid the disturbance to the public transportation and to control the air pollution, Scientific Transportation Management Plane (STMP) need to be prepared by Local Administration under consultations with the UPPCB, the plan can be scientific based on the peak dust emission on the road, which can be easily assess by the data of installed CAQMS, average vehicular movement per day etc.
- 22.30. Unpaved area of road side can be paved by using fly ash block, which may substantially reduce the dust emission on the road.
- 22.31. Regular and substantial road cleaning is another way to minimize further dust emission specially from the both side of median and unpaved area of the road. The coal dust deposited along the roadside needs to be collected through the vacuum extraction system for beneficiary utilization.
- 22.32. It has been observed that the median of the national highway are without any green cover of plant, it is utmost important to create proper green cover on the median of the National Highway by concerned authority for controlling of road dust.
- 22.33. The establishment of the road green belt (RGB) is an effective means to reduce particulate matter (PM_{2.5}) emissions from road traffic. It is utmost important to execute CPCB guideline for controlling of dust emission.
- 22.34. District administration through NHAI can explore the possibility to develop green belt along the road side in accordance with the guideline developed by Indian Road Congress (IRC).

Steps required to resolve other identified issues

- 22.35. Local administration through police can controlled the unauthorized coal burning used by local people and shops. More stringent surveillance is required during winter.
- 22.36. UPPCB can ensure that the each and every industry colony will setup concrete Solid Waste Management System (SWMS) to avoid further burning of solid waste within six months.
- 22.37. Dust sequestration study of individual unit can be conducted by organization of international repute likes, BHU, NEERI, IIT etc.

22.38. Chief Medical Officer (CMO) can be asked to conduct survey among the people living side of the highway, dust prone area in light of lung related disease etc. In addition to above he may also create separate inventory for the asthmatic patient of the area in question.

22.39. The action can be initiated in under Forest Act against M/s Renusagar TPP and M/s Obra TPP for carrying out excavation/mining in the forest area.

Further, it is humbly submitted that the Hon'ble NGT in the matter of OA No 164/2018 has constituted a fly ash management and utilization Mission to be jointly headed by the Secretaries, MoEF&CC, Coal and Power, GoI, and Chief Secretaries of UP and MP. It is pertinent to note that the issues raised in the present application are closely linked to the scope of the aforementioned Mission. And hence the finding of the committee can be referred to the Mission for its consideration.

Committee member	Signature
Dr. A.K.Gupta, Scientist-E, Integrated Regional Office (CZ), MoEFF&CC, Lucknow	 1/4/23
Shri Rajendra D. Patil, Scientist-D, CPCB RD-Lucknow	 01.04.2023
*Shri Umesh Kumar Gupta, AEE, Regional Officer, UPPCB, Sonebhadra	 01/04/2023
Date: 01.04.2023	

* Additional report regarding action taken by UPPCB is being file separatory.

List of Annexure

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Information Provided by thermal power plant of district Sonbhadra

1. NTPC Shaktinagar

Sr. No.	Desired Information	Details					
A.	Project name and address	Singrauli Super Thermal Power Plant (NTPC Ltd), P.O. Shaktinagar, District Sonbhadra, UP-231222					
B.	Installed capacity in MW with date of commissioning	2000 MW (5x200 + 2x500 MW), Units Commissioned: From Feb'1982- Nov.1987					
C.	Total area of the Project in acre	1546.95 Acre (Approx.)					
D.	Total green cover developed in the project area in acre.	791.70 (approx.)					
E.	Production & Utilization of fly ash (dry ash & bottom ash) of last five years						
	Particulars	18-19	19-20	20-21	21-22	22-23 (Till Jan 2023)	Jan
	Coal Consumption (LMT)	91.86	98.73	94.84	94.20	84.503	
	Ash Generation (LMT)	28.9	32.06	29.84	30.25	26.203	
	Ash Utilization (LMT)	10.17	12.58	9.97	17.40	9.823	
	%AU	35.21	39.23	33.41	57.54	37.50	
	Road Project (Pond Ash)	0.00	0.00	5.16	3.39	8.962	
	Dyke Raising/ BA Processing for Use as Substitute of Sand/Dyke Bund Stability (Pond/ Bottom Ash)	2.1	7.00	3.60	13.92	0.82	
	Low Land Filling (Pond Ash)	8.029	5.51	1.15	0.0	0	
	Brick (Dry Fly Ash)	0.021	0.07	0.06	0.10	0.02207	
Industries (Dry Fly Ash)	0.02	0.0	0.0	0.00185	0.02374		
F.	Size of ash ponds with KML file	Area of S1 and S2 dyke: 755 acre and Khadia dyke (exhausted) area 568 acres KML File not Provided					

G.	Area of ash ponds under green covered in acre	Green covered (S1+S2): 125 acres
H.	Area of ash ponds stabilized as on date in acre.	Nil
I.	Distance of ash ponds form the power plant (in KM)	15 KM
J.	Status of the ash ponds (filled capacity/unfilled)	Total capacity: 492 LCM Unfilled Capacity: 136 LCM
K.	Coal consumption per day in MT.	approx. 26000 MT
L.	Size of Coal yard with KML file	capacity 5.0 LMT
M.	Mode of transportation of dry & bottom fly ash (Road or railway)	Dry Ash- Road transport through closed bulkers
N.	Mode of transportation of coal (Road or railway)	own MGR system
O.	Nature of vehicle (capsule and others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc.)	Dry Fly Ash- Through closed bulkers Pond Ash- Through fully covered trucks (covering with tarpaulin)
P.	How much distance travel (In general) for ash and for coal	Ash- 150-300 Kms Coal -NA
Q.	Number of trunks move per day.	Varies between 100 to 225 Trucks per day
R.	Number & Size of sweeping machine used for road sweeping in the area used for transportation of fly ash and coal	NA
S.	Number & Capacity of mist gun used for controlling of dust emissions in the area	02 nos. Fog canon to be deployed after award of contract
T.	Number of railway rack move per day/ week/ month.	Nil
U.	Area (in acre) specify for parking of trucks/ capsule involve in transportation of fly ash and coal	4500 sq. m (for ash)
V.	Man power deputed for overall work mentioned above category wise (Manger level/ middle level/ lower level)	Information not provided
W.	Expenditure done for controlling of road dust/ dust in the area for last financial year and ongoing up to 31 Jan 2023.	Water tanker PO value: 5Lakhs

X.	Average values of PM 10 and PM 2.5 For last three years (Pre-monsoon & Post-monsoon) monitored by your online instrument's setup on near road or transportation gate.	<table border="1"> <thead> <tr> <th>AAQMS-2</th> <th>PM2.5</th> <th>PM10</th> </tr> </thead> <tbody> <tr> <td>2022-23(till 31.01.23)</td> <td>32</td> <td>55</td> </tr> <tr> <td>2021-22</td> <td>26</td> <td>72</td> </tr> <tr> <td>2020-21</td> <td>26</td> <td>60</td> </tr> </tbody> </table>	AAQMS-2	PM2.5	PM10	2022-23(till 31.01.23)	32	55	2021-22	26	72	2020-21	26	60
AAQMS-2	PM2.5	PM10												
2022-23(till 31.01.23)	32	55												
2021-22	26	72												
2020-21	26	60												
Y.	Suggestion on minimization of dust including road in the area -	Nothing												

2. NTPC Rihand

Sr. No.	Desired Information	Details				
A.	Project name and address	NTPC Rihand Super Thermal Power Station, PO: Beejpur, Dist: Sonbhadra, Uttar Pradesh, Pin – 231223.				
B.	Installed capacity in MW with date of commissioning					
	Stage	Unit No.	Capacity (MW)	Date of commissioning		
	I	1	500	31.03.1988		
		2	500	05.07.1989		
	II	3	500	31.01.2005		
		4	500	24.09.2005		
	III	5	500	19.05.2012		
		6	500	30.09.2013		
	TOTAL	3000 MW				
C.	Total area of the Project in acre	3242 Acres				
D.	Total green cover developed in the project area in acre.	1350 approx.				
E.	Production & Utilization of fly ash (dry ash & bottom ash) of last five years					
	Year	Total ash generation (MT)	Ash Utilization (MT)			
			Dry fly ash utilization	Pond ash utilization	Bottom ash utilization	Total Ash Utilization
	2018 – 19	3515893	175595	1069788	59000	1304383
	2019 – 20	3901727	139465	1425482	120000	1684947
	2020 – 21	3921761	245196	1509481	285270	2039947
	2021 - 22	3708536	245887	1722461	230000	2198348
Apr22 – Jan23	3293447	214082	1400941	100000	1715023	
F.	Size of ash ponds with KML file	Central - 1	Central - 2	Methini – 1	Methini - 2	
		156 Acres	134 Acres	359 Acres	362 Acres	
G.	Area of ash ponds under green covered in acre	80 acres approx.				
H.	Area of ash ponds stabilized as on date in acre.	All ash ponds in service.				
I.	Distance of ash ponds form the power plant (in KM)	02 – 07 kms				

J.	Status of the ash ponds (filled capacity/ unfilled)					
	Dyke	Total Area (Acres)	Ash filled in the ponds (LMT)		Balance Capacity (LMT)	
	C1	156	As on 31.03.2022 approx. 413 LMT of pond was available in the active ash ponds viz. CL – 1, CL – 2, ML – 1 & ML - 2. However as per the latest fly ash notification amendment dtd. 30.12.2022 ash stored in ash dyke till 31.03.2022 has been removed from the ambit of legacy ash utilization.		08 (at present raising)	
	C2	134			0.3 (at present raising)	
	M1	359			28 (at present raising)	
M2	362	0.8 (at present raising)				
K.	Coal consumption per day in MT.		38861 MT/ Day			
L.	Size of Coal yard with KML file		8.08 LMT of Coal Storage, KML File Provided			
M.	Mode of transportation of dry & bottom fly ash (Road or railway)		<ul style="list-style-type: none"> ➤ Dry Fly Ash: BTAP Rail wagons, Road ➤ Bottom ash: Through ash slurry pipeline to dyke. ➤ Pond ash: Through road. 			
N.	Mode of transportation of coal (Road or railway)		Through own MGR Railway System.			
O.	Nature of vehicle (capsule and others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc.)		BTAP Wagons for dry fly ash transportation		Covered Trucks for pond ash transportation	
						
			Type of ash	Mode	Type of vehicle	Make & year of manufacturing
		Dry fly ash	Majorly through rail	BTAP Rail Wagons & capsule trucks	Texmaco, year 2020. Capsule trucks are arranged by the ash users.	BTAP 60 MT Capsule: 28 MT
		Pond ash	Road	Covered trucks	Arranged by the agency	35 - 40 MT
P.	How much distance travel (In		➤ Coal through rail: 40 kms approx.			

	general) for ash and for coal	<ul style="list-style-type: none"> ➤ Dry fly ash through BTAP wagons: 350 Kms ➤ Pond ash: 100 – 250 Kms
Q.	Number of trunks move per day.	90 – 100 trucks of ash per day.
R.	Number & Size of sweeping machine used for road sweeping in the area used for transportation of fly ash and coal	Cleaning of internal roads is being done through brooming after wetting. Dust suppression using water tankers is also being done. Proposal for hiring of sweeping machine is under budget allocation.
S.	Number & Capacity of mist gun used for controlling of dust emissions in the area	<p>Following systems have been installed for control of fugitive dust emission:</p> <ol style="list-style-type: none"> i. Dry Fog Dust suppression system (DFDS) in CHP at material transfer points ii. Water mist system in wagon tippers iii. Dust extraction system in crusher house iv. Misting system in track hoppers v. Coal prewetting system vi. Covered shed for coal unloading. vii. Installation of Cold Fog Dust Suppression (CFDS) system is in progress. viii. Rain guns and mist guns for coal stock yard. ix. Details of sprinklers and mist nozzles are as under: <ul style="list-style-type: none"> ➤ Sprinklers: 424 nos. ➤ Mist spraying jets: 533 nos. ➤ Rain guns: 52 nos. ➤ Fire posts: 39 nos.
T.	Number of railway rack move per day/ week/ month.	
	No. of coal rakes moved / Day (<i>Through own MGR railway system only</i>)	15 nos.
	No. of coal rakes moved / Week (<i>Through own MGR railway system only</i>)	105 nos.
	No. of coal rakes moved / Month (<i>Through own MGR railway system only</i>)	461 nos.
	No. of fly ash BTAP rakes moved / Day (<i>Through own MGR railway system till Shaktinagar Railway Station and through Indian Railway Network afterwards</i>)	0.11 nos.
	No. of fly ash BTAP rakes moved / Week (<i>Through own MGR railway system till Shaktinagar Railway Station and through Indian Railway Network afterwards</i>)	0.82 nos.
No. of fly ash BTAP rakes moved / Month (<i>Through own MGR railway system till Shaktinagar Railway Station and through Indian Railway Network afterwards</i>)	3.27 nos.	
U.	Area (in acre) specify for parking of	➤ Coal: Empty and loaded coal rakes are being

	trucks/ capsule involve in transportation of fly ash and coal	<p>parked in the dedicated yards of MGR railway system.</p> <p>➤ Ash: Approx. 6.5 Acres.</p>																									
V.	Man power deputed for overall work mentioned above category wise (Manger level/ middle level/ lower level)	<table border="1"> <thead> <tr> <th>Area</th> <th>Manager Level</th> <th>Middle level</th> <th>Lower level</th> </tr> </thead> <tbody> <tr> <td>Coal transportation</td> <td>5</td> <td>5</td> <td>13</td> </tr> <tr> <td>Ash dyke & ash transportation</td> <td>5</td> <td>7</td> <td>12</td> </tr> </tbody> </table>	Area	Manager Level	Middle level	Lower level	Coal transportation	5	5	13	Ash dyke & ash transportation	5	7	12													
Area	Manager Level	Middle level	Lower level																								
Coal transportation	5	5	13																								
Ash dyke & ash transportation	5	7	12																								
W.	Expenditure done for controlling of road dust/ dust in the area for last financial year and ongoing up to 31 Jan 2023.	<p>Cost of dust suppression measures are included in the O&M Cost of the plant.</p> <p>Cost of dust suppression measures in pond ash transportation from the ash dykes is included in the rates of transportation agencies.</p>																									
X.	Average values of PM 10 and PM 2.5 For last three years (Pre-monsoon & Post-monsoon) monitored by your online instrument's setup on near road or transportation gate.	<table border="1"> <thead> <tr> <th>Year</th> <th></th> <th>PM₁₀</th> <th>PM_{2.5}</th> </tr> </thead> <tbody> <tr> <td rowspan="2">2020</td> <td>Pre - monsoon</td> <td>59</td> <td>29</td> </tr> <tr> <td>post monsoon</td> <td>39</td> <td>31</td> </tr> <tr> <td rowspan="2">2021</td> <td>Pre - monsoon</td> <td>50</td> <td>30</td> </tr> <tr> <td>post monsoon</td> <td>39</td> <td>26</td> </tr> <tr> <td rowspan="2">2022</td> <td>Pre - monsoon</td> <td>74</td> <td>38</td> </tr> <tr> <td>post monsoon</td> <td>69</td> <td>30</td> </tr> </tbody> </table>	Year		PM ₁₀	PM _{2.5}	2020	Pre - monsoon	59	29	post monsoon	39	31	2021	Pre - monsoon	50	30	post monsoon	39	26	2022	Pre - monsoon	74	38	post monsoon	69	30
Year		PM ₁₀	PM _{2.5}																								
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	post monsoon	39	26																								
2022	Pre - monsoon	74	38																								
	post monsoon	69	30																								
Y.	Suggestion on minimization of dust including road in the area -	<p>➤ Existing network of Indian Railways from Shaktinagar to Chunar; Shaktinagar to Katni may be strengthened by doubling the railway lines to avoid congestion in the railway network so that maximum utilization of BTAP rakes can be ensured which will further promote fly ash transportation through rail in eco-friendly manner.</p> <p>➤ Freight subsidy may be given by Indian Railways to promote ash transportation through rail.</p> <p>➤ A dedicated road may be made exclusively for transportation of coal and ash from Shaktinagar to Renukoot.</p> <p>➤ All bulk users of fly ash like cement industries may be advised to develop railway rake unloading facility for fly ash.</p>																									

3. ATPS Anpara

Sr. No.	Desired Information	Details																					
A.	Project name and address	Anpara Thermal Power Station, Anpara-Sonbhadra.																					
B.	Installed capacity in MW with date of commissioning	<table border="1"> <tr> <td>1</td> <td>210</td> <td>01.01.1987</td> </tr> <tr> <td># 2</td> <td>210</td> <td>01.08.1987</td> </tr> <tr> <td># 3</td> <td>210</td> <td>01.04.1989</td> </tr> <tr> <td># 4</td> <td>500</td> <td>01.03.1994</td> </tr> <tr> <td># 5</td> <td>500</td> <td>01.10.1994</td> </tr> <tr> <td># 6</td> <td>500</td> <td>08.05.2016</td> </tr> <tr> <td># 7</td> <td>500</td> <td>18.10.2016</td> </tr> </table>	1	210	01.01.1987	# 2	210	01.08.1987	# 3	210	01.04.1989	# 4	500	01.03.1994	# 5	500	01.10.1994	# 6	500	08.05.2016	# 7	500	18.10.2016
1	210	01.01.1987																					
# 2	210	01.08.1987																					
# 3	210	01.04.1989																					
# 4	500	01.03.1994																					
# 5	500	01.10.1994																					
# 6	500	08.05.2016																					
# 7	500	18.10.2016																					
C.	Total area of the Project in acre	Approx. 5100 acres																					
D.	Total green cover developed in the project area in acre.	Approx. 1650 acre																					
E.	Production & Utilization of fly ash (dry ash & bottom ash) of last five years	Copy enclosed																					
F.	Size of ash ponds with KML file	380 Ha.																					
G.	Area of ash ponds under green covered in acre	70.395 Ha																					
H.	Area of ash ponds stabilized as on date in acre.	173.88 acre																					
I.	Distance of ash ponds form the power plant (in KM)	Approx. 10 Km																					
J.	Status of the ash ponds (filled capacity/unfilled)	649.71 LMT/ 225 LMT																					
K.	Coal consumption per day in MT.	40,000 MT.																					
L.	Size of Coal yard with KML file	Approx. 10 LMT																					
M.	Mode of transportation of dry & bottom fly ash (Road or railway)	By Road & Proposed by Road/railway																					
N.	Mode of transportation of coal (Road or railway)	Major by Railway																					
O.	Nature of vehicle (capsule and others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc.)	BOBR wagon & Trunk																					
P.	How much distance travel (In general) for ash and for coal	5 to 16 KM																					
Q.	Number of trunks move per day.	vary as per requirement (40-50 nos.)																					
R.	Number & Size of sweeping machine used for road sweeping in the area used for transportation of fly ash and coal	Nil																					
S.	Number & Capacity of mist gun used for controlling of dust emissions in the area	Nil																					
T.	Number of railway rack move per day/	14-15 per day																					

	week/ month.	
U.	Area (in acre) specify for parking of trucks/ capsule involve in transportation of fly ash and coal	Not required
V.	Man power deputed for overall work mentioned above category wise (Manger level/ middle level/ lower level)	Approx 20
W.	Expenditure done for controlling of road dust/ dust in the area for last financial year and ongoing up to 31 Jan 2023.	Nil, by Departmental vehicle
X.	Average values of PM 10 and PM 2.5 For last three years (Pre-monsoon & Post-monsoon) monitored by your online instrument's setup on near road or transportation gate.	104 & 67
Y.	Suggestion on minimization of dust including road in the area -	<ol style="list-style-type: none"> 1. Removal of coal dust from road sides. 2. Mid night Sweeping of road

4. TPP Renuagar

Sr. No.	Desired Information	Details					
A.	Project Name and address	M/s Hindalco Industries Limited (Renuagar Power division) PO Renuagar, Distt-Sonbhadra (UP)					
B.	Installed capacity in MW with date of commissioning	829.58MW					
C.	Total area of the project in acre	508.97					
D.	Total green cover developed in the project area in acre.	179.82					
E.	Production & Utilization of fly ash (dry ash & bottom ash) of last five years						
	Year	Generation (LMT)			Utilization (LMT)		
		Bottom Ash	Fly Ash	Total Ash	Bottom Ash	Fly Ash	Total Ash
	17-18	3.17	12.68	15.85	0.51	8.48	8.99
	18-19	3.37	13.49	16.86	0.49	11.7	12.19
	19-20	3.2	12.8	16.0	0.38	9.43	9.82
	20-21	2.69	12.34	15.04	1.71	9.47	11.18
	21-22	2.21	10.79	13.01	4.42	10.05	14.47
22-23 (Jan)	2.07	10.12	12.19	8.17	6.49	14.66	
F.	Size of ash ponds with KML file	KML file Attached					
G.	Area of ash ponds under green covered in acre	36 acres					
H.	Area of ash ponds stabilized as on date in acre	NA					
I.	Distance of ash ponds from the power plant (in KM)	08 KM					
J.	Status of the ash ponds (filled capacity/unfilled)	Unfiled					
K.	Coal consumption per day in MT	11288 MT (21-22) and 12048 MT (22-23 Jan)					

Sr. No.	Desired Information	Details																								
L.	Size of coal yard with KML file	KML file Attached																								
M.	Mode of transportation of dry & bottom fly ash (Road or railway)	Dry Ash- Railway wagon & closed Bulkers Bottom fly ash- Road Covered trucks.																								
N.	Mode of transportation of Coal (Road or railway)	75 % of Coal transported through Belt Pipe Conveyor (BPC) system. 25 % of coal transported through Road mode.																								
O.	Nature of vehicle (capsule and others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc)	Fly ash- Closed Bulker or Railway wagons Coal- BPC and Trucks covered with Tarpaulin.																								
P.	How much distance travel (In general) for ash and for coal?	Ash- As per NOC. Currently about 15- 20 KM Coal- 3.0 Km																								
Q.	Number of truck move per day	80 to 250 (100-150 for Fly ash & Bottom ash, 80-100 for coal)																								
R.	Number & size of sweeping machine used for road sweeping in the area used for transportation of fly ash ad coal	01 No mechanical sweeping machine (Big size) available.																								
S.	Number & capacity of mist gun used for controlling of dust emissions in the area,	NA																								
T.	Number of railway rack move per day/week/month	03 rake per month.																								
U.	Area (in acre) specify for parking of truck/capsule involve in transportation of fly ash and coal	1.25 acre.																								
V.	Man power deputed for overall work mentioned above category wise (Manger level/middle level/lower level)	Total-03 Manpower- one manpower at each level.																								
W.	Expenditure done for controlling of road dust/dust in the area for last financial year and ongoing up to 31 Jan, 2023.	Sprinklers expenditure- Road dust-15.48 lakh (21-22) -12.04 lakh (22-23 Jan) CHP dust-17.59 lakh (21-22) -16.10 lakh (22-23 Jan)																								
X.	Average values of PM10 and PM2.5 for last three years (Pre-monsoon & Post-monsoon) monitored by your online instrument's setup on near road or transportation gate	<table border="1"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">Pre-Monsoon</th> <th colspan="2">Post Monsoon</th> </tr> <tr> <th>PM₁₀</th> <th>PM_{2.5}</th> <th>PM₁₀</th> <th>PM_{2.5}</th> </tr> </thead> <tbody> <tr> <td>20-21</td> <td>25.7</td> <td>15.23</td> <td>24.20</td> <td>13.42</td> </tr> <tr> <td>21-22</td> <td>28.45</td> <td>17.19</td> <td>23.90</td> <td>15.22</td> </tr> <tr> <td>23-Jan 23</td> <td>27.24</td> <td>15.94</td> <td>21.70</td> <td>13.77</td> </tr> </tbody> </table>	Year	Pre-Monsoon		Post Monsoon		PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}	20-21	25.7	15.23	24.20	13.42	21-22	28.45	17.19	23.90	15.22	23-Jan 23	27.24	15.94	21.70	13.77
Year	Pre-Monsoon			Post Monsoon																						
	PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}																						
20-21	25.7	15.23	24.20	13.42																						
21-22	28.45	17.19	23.90	15.22																						
23-Jan 23	27.24	15.94	21.70	13.77																						

Sr. No.	Desired Information	Details
Y.	Suggestion on minimization of dust including road dust in the area	not provided

5. TPP LANCO

Sr. No.	Desired Information	Details		
A.	Project Name and address	Lanco Anpara Power Limited, Village- Anpara, District- Sonbhadra (UP) -231225		
B.	Installed capacity in MW with date of commissioning	1200 MW (2X600 MW) Unit 1 Operational since 10th December 2011 Unit 2 Operational since 18th January 2012		
C.	Total area of the project in acre	276.77 Acre		
D.	Total green cover developed in the project area in acre.	91.33 Acre		
E.	Production & Utilization of fly ash (dry ash & bottom ash) of last five years	Financial Year	Ash Generation (MT)	Ash Utilization (MT)
		FY 2017-18	1590561	110375
		FY 2018-19	1531072	337290
		FY2019-20	1577909	358340
		FY2020-21	1749337	295285
	FY2021-22	1710073	219135	
F.	Size of ash ponds with KML file	The LANPL has entered into 'Facilities and Services Agreement' with UPRVUNL for the use of ash dyke as one of the common facilities. As per agreement, the ownership of the ash dyke lies with UPRVUNL-Anpara and the owner shall operate and maintain the common facilities.		
G.	Area of ash ponds under green covered in acre			
H.	Area of ash ponds stabilized as on date in acre			
I.	Distance of ash ponds from the power plant (in KM)	11 Kms		
J.	Status of the ash ponds (filled capacity/unfilled)	The LANPL has entered into 'Facilities and Services Agreement' with UPRVUNL for the use of ash dyke as one of the common facilities. As per agreement, the ownership of the ash dyke lies with UPRVUNL-Anpara and the owner shall operate and maintain the common facilities. The existing ash pond which is being used for disposal of unused ash is operational since inception of Anpara-C.		
K.	Coal consumption per day in MT	Approx 16164 MT at 90% PLF.		

Sr. No.	Desired Information	Details
L.	Size of coal yard with KML file	67473 sqm
M.	Mode of transportation of dry & bottom fly ash (Road or railway)	Dry Ash Utilization in cement companies is being done by closed bulkers and their transportation is being done by road.
N.	Mode of transportation of Coal (Road or railway)	Khadia mine is our Linkage/FSA mine. Normally, coal is supplied from Khadia mine. To meet the full load operation of both the units, we take e-auction coal from any other mine of NCL in addition to Linkage coal from Khadia mine of NCL.
O.	Nature of vehicle (capsule and others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc)	Dry Ash Utilization in cement companies is being done by closed bulkers and their transportation is being done by road.
P.	How much distance travel (In general) for ash and for coal?	Dry Ash Utilization in cement companies situated in nearby area of Varanasi. (Within 300 Kms)
Q.	Number of truck move per day	Dry Ash Utilization in cement companies situated in nearby area of Varanasi. (Within 300 Kms) presently approx 20-25 Vehicles.
R.	Number & size of sweeping machine used for road sweeping in the area used for transportation of fly ash ad coal	Manual Sweeping is being done inside and outside of the area.
S.	Number & capacity of mist gun used for controlling of dust emissions in the area,	Water sprinkling is being done by four nos of tankers on daily basis. A. No. of sprinklers installed At Track hopper for DUST Suppression System- 673 Nos, & Pre-wetting System- 366 Nos. B. No. of Spraying jet installed- At Coal Yard- 25 Nos. C. No. of fog guns installed- At Coal yard - Fire water monitor- 06Nos
T.	Number of railway rack move per day/week/month	Currently, we are receiving 3 Rakes/day, 21 rakes/week & 90 rakes/month from Khadia silo through our own MGR rakes.
U.	Area (in acre) specify for parking of truck/capsule involve in transportation of fly ash and coal	Parking of ash bulkers are being done inside the plant premises.
V.	Man power deputed for overall work	A qualified and experienced team has been

Sr. No.	Desired Information	Details		
	mentioned above category wise (Manger level/middle level/lower level)	involved.		
W.	Expenditure done for controlling of road dust/dust in the area for last financial year and ongoing up to 31 Jan, 2023.	Approx Rs 2,75,000/month		
X.	Average values of PM10 and PM2.5 for last three years (Pre-monsoon & Post-monsoon) monitored by your online instrument's setup on near road or transportation gate	Year	PM10 (µg/m3)	PM2.5 (µg/m3)
		2021-22	47.31	15.80
		2020-21	51.80	21.50
		2019-20	63.59	27.07

6. TPP Obra

Sr. No.	Desired Information	Details		
A.	Project Name and address	M/s Obra Thermal Power Plant Obra- Sonbhadra		
B.	Installed capacity in MW with date of commissioning	Total: 1000MW • Unit no-09 COD -15.03.1980 • Unit no-10 COD -06.03.1979 • Unit no-11 COD -14.05.1978 • Unit no-12 COD -29.05.1981 • Unit no-13 COD -19.07.1982		
C.	Total area of the project in acre	2971 Acre		
D.	Total green cover developed in the project area in acre.	90 acre approx		
E.	Production & Utilization of fly ash (dry ash & bottom ash) of last five years	Year	Ash generation	Ash utilization
		FY19-20	1113500.00MT	86095.00MT
		FY 20-21	1408931.00MT	80727.00MT
		FY 21-22	1374323.00MT	75465.72MT
		FY 22-23	1367074.80MT	163644.03MT
F.	Size of ash ponds with KML file	72 hect. (KML file Not provided)		
G.	Area of ash ponds under green covered in acre	346.00 Acre (old & stabilized)		
H.	Area of ash ponds stabilized as on date in acre	346.00Acre		
I.	Distance of ash ponds from the power plant (in KM)	Aerial distance(3.50km), road distance (10 km approx.)		
J.	Status of the ash ponds (filled capacity/unfilled)	Filled capacity-78.00LMT/Unfilled capacity - 25.00LMT Approx		
K.	Coal consumption per day in MT	11900 MT/Day approx		
L.	Size of coal yard with KML file	Ist row of yard 40MX800M andII row of yard-45Mx800M(Area 85x800=68000 square meter) KML file Not provided		
M.	Mode of transportation of dry & bottom fly ash (Road or railway)	Through bulker by road		
N.	Mode of transportation of Coal (Road or railway)	Railway		

Sr. No.	Desired Information	Details
O.	Nature of vehicle (capsule and others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc)	Railway NHL wagons is used for coal transportation
P.	How much distance travel (In general) for ash and for coal?	30KM approx.
Q.	Number of truck move per day	12 truck per day approx.
R.	Number & size of sweeping machine used for road sweeping in the area used for transportation of fly ash ad coal	Manual sweeping after water spray is being done in CHP area road.
S.	Number & capacity of mist gun used for controlling of dust emissions in the area,	Water sprinkling system is being used in CHP area at the unloading point as well as the coal yard
T.	Number of railway rack move per day/week/month	03/21/90
U.	Area (in acre) specify for parking of truck/capsule involve in transportation of fly ash and coal	No vehicle is being used for coal transportation
V.	Man power deputed for overall work mentioned above category wise (Manger level/middle level/lower level)	For CHP area is 01manager/02middle level/02je along with other divisional work
W.	Expenditure done for controlling of road dust/dust in the area for last financial year and ongoing up to 31 Jan, 2023.	(In power house area Sprinkling of water approx. 10 Lakh)
X.	Average values of PM10 and PM2.5 for last three years (Pre-monsoon & Post-monsoon) monitored by your online instrument's setup on near road or transportation gate	PM ₁₀ = 105.37 PM _{2.5} = 55.62
Y.	Suggestion on minimization of dust including road dust in the area	Not Provided

Information Provided by Coal Mines of district Sonbhadra

1. NCL Krishnasila

Sr. No.	Desired Information	Details																																										
A.	Project name and address	Krishnashila Open Cast Project, NCL PO- Bina, Dist- Sonbhadra, UP-231220																																										
B.	Production capacity as per EC	7.50 MT (As per latest EC Letter J-11015/243/2011-IA.II (M) dated 26.07.2022)																																										
C.	Total lease area in acre	2104.794 Acres (851.78 Ha.)																																										
D.	Total green cover developed in the project area in acre	453.56 Acre (183.55 Ha.)																																										
E.	Coal Production of last five years	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>FY</th> <th>Coal Production (MT)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2017-18</td> <td>6.249</td> </tr> <tr> <td>2</td> <td>2018-19</td> <td>6.890</td> </tr> <tr> <td>3</td> <td>2019-20</td> <td>7.00</td> </tr> <tr> <td>4</td> <td>2020-21</td> <td>7.00</td> </tr> <tr> <td>5</td> <td>2021-22</td> <td>7.00</td> </tr> </tbody> </table>	Sr. No.	FY	Coal Production (MT)	1	2017-18	6.249	2	2018-19	6.890	3	2019-20	7.00	4	2020-21	7.00	5	2021-22	7.00																								
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3	2021-22	16.391																																										
G.	Area used for OB management	798.15 Acre (323 Ha.)																																										
H.	Are of OB stabilized as on date in acre	798.15 Acre (323 Ha.)																																										
I.	Total coal dispatch in MT in per year	<table border="1"> <thead> <tr> <th>F. Y.</th> <th>2017-18</th> <th>2018-19</th> <th>2019-20</th> <th>2020-21</th> <th>2021-22</th> </tr> </thead> <tbody> <tr> <td>a From Mine to CHP to Railway</td> <td>00</td> <td>00</td> <td>00</td> <td>0.06821</td> <td>3.600986</td> </tr> <tr> <td>b From Mine to Siding to Railway</td> <td>2.528274</td> <td>2.357094</td> <td>2.273237</td> <td>2.403181</td> <td>0.197356</td> </tr> <tr> <td>c From Mine to other location (via Road)</td> <td>0.716249</td> <td>1.618614</td> <td>1.512863</td> <td>1.060476</td> <td>1.010789</td> </tr> <tr> <td>d From Mine to Siding to other location (via Road)</td> <td>00</td> <td>00</td> <td>00</td> <td>00</td> <td>00</td> </tr> <tr> <td>e Any other (Please specify) Belt Pipe Coveyor</td> <td>3.157071</td> <td>2.919503.80</td> <td>3.217397</td> <td>3.230026</td> <td>3.120103</td> </tr> <tr> <td>Total</td> <td>6.401594</td> <td>6.895211</td> <td>7.003497</td> <td>6.754504</td> <td>7.929234</td> </tr> </tbody> </table>	F. Y.	2017-18	2018-19	2019-20	2020-21	2021-22	a From Mine to CHP to Railway	00	00	00	0.06821	3.600986	b From Mine to Siding to Railway	2.528274	2.357094	2.273237	2.403181	0.197356	c From Mine to other location (via Road)	0.716249	1.618614	1.512863	1.060476	1.010789	d From Mine to Siding to other location (via Road)	00	00	00	00	00	e Any other (Please specify) Belt Pipe Coveyor	3.157071	2.919503.80	3.217397	3.230026	3.120103	Total	6.401594	6.895211	7.003497	6.754504	7.929234
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Sr. No.	Desired Information	Details				
Despatch form Krishnashila NCL in 2022-23 (upto 31.01.2023)						
	Despatch Mode	Name of Party/ Siding Code	District	State	Approx Distance (KM)	Dispatch Qty (Tesh) % of Total Despatch
	Belt Pipe Conveyor	Renusagar Power Division	Sonbhadra	UP	10	2530258.02 33.2%
	Rail	OBRA THERMAL POWER STATION/OTPS	Sonbhadra	UP	75	308131.78 4.0%
		MP POWER GENERATION SINGAJI/PSSS	Khandwa	MP	817	664139.81 8.7%
		UP RVUNL PARICHA/ PIC	Jhansi	UP	734	349619.42 4.6%
		KOTA THERMAL POWER GENERATION/ KOTA	Kota	Rajasthan	843	156958.1 2.1%
		BAJAJ ENERGY BHOPATPUR /BFPA	Bareilly	UP	230	3987.42 0.1%
		KSK MAHANADI POWER PLANT/ MKMA	Janjgir-Champa	CG	340	24231.66 0.3%
		ARAWALI POWER/MIGK	Jhajjar	Haryana	1035	48344.48 0.6%
		BHARTIYA RAIL BIJLEE COMPANY NABINAGAR/ NBCC	Aurangabad	Bihar	210	28122.84 0.4%
		GUJRAT ELECTRICITY STATE CORP LTD/TPHS	UKAI	Gujrat	1280	19935.8 0.3%
		M/S LALITPUR POWER GENERATION COMPANY LTD /LPGU	Lalitpur	UP	550	47563.7 0.6%
		ANPARA THERMAL/ ATPS	Sonbhadra	UP	10	999067.48 13.1%
		PRAYAGRAJ POWER GENERATION/PPGS	Prayagraj	UP	225	312534.84 4.1%

Sr. No.	Desired Information	Details					
	SURATGARH SUPER THERMAL POWERPLANT/ SOG	Ganganagar	Rajasthan	1340	231953.92	3.0%	
	JHAJJAR POWER PLANT/ MJPJ	Jhajjar	Haryana	1035	164344.5	2.2%	
	NTPC-UPRVUNL MEJA THERMAL PLANT/ MUNU	Prayagraj	UP	210	34245.94	0.4%	
	BAJAJ ENERGY LTD KETRA/KETRA	Gonda	UP	475	3814.34	0.1%	
	LANCO POWER/LANCO	Sonbhadra	UP	10	3667.46	0.0%	
	RAJIV GANDHI THERMAL POWER PLANT/ PMRG	Hisar	Haryana	1200	112948.06	1.5%	
	M/S NABHA POWER LTD.SIDING/ NPSB	Rajpura	Punjab	1200	233591.06	3.1%	
	GUJRAT ELEC. BOARD AT PETHAPUR/ GETS	Gandhinagar	Gujrat	1350	23987.08	0.3%	
	NTPC DADRI/ DADRI	Gautambudhna gar	UP	950	66342.92	0.9%	
	S TALWANDI SABO POWER LTD/ MTSS	Mansa	Punjab	1250	56206.5	0.7%	
	NTPC GADARWAR/ NTPB	Narsinghpur	MP	550	40474.35	0.5%	
	NABINAGAR POWER GENERATING COMPANY/ NPGA	Aurangabad	Bihar	210	56286.46	0.7%	
	WANAKBORI THERMAL POWER STN, SEVALIYA/ TSWs	Mahisagar	Gujrat	1230	68631.04	0.9%	
	THERMAL PLANT (ASAN), PANIPAT/ TPAP	Panipat	Haryana	1100	44093.86	0.6%	
	TOTAL RAIL				4103224.82	53.9%	
	Road	KJS CEMENT LIMITED	Satna	MP	255	5653.59	0.1%
		HINDALCO MAHAN LINKAGE	Singaruli	MP	50	295319.12	3.9%
		E AUCTION SPOT	Sonbhadra	UP	10	306487.93	4.0%
		CHANDERIA LEAD	Udaipur	Rajasth	1110	16798.27	0.2%

Sr. No.	Desired Information	Details				
	ZINC		an			
	STAR PAPER MILL	Saharanpur	UP	1115	13028.1	0.2%
	DALLA CEMENTS	Sonbhadra	UP	60	23407.55	0.3%
	BIRLA CORPORATION SATNA	Satna	MP	240	54700.84	0.7%
	MAIHAR CEMENT WORKS	Satna	MP	255	26346.95	0.3%
	CENTURY PULP	Nainital	UK	920	12990.8	0.2%
	ACC CEMENT	Amethi	UP	380	41460.49	0.5%
	BIRLA CORPORATION RAJASTHAN	Chittorgarh	Rajasthan	1000	15617.25	0.2%
	MANGLAM CEMENT	Kota	Rajasthan	845	19681.07	0.3%
	NUTAN ISPAT	Raipur	CG	460	1808.08	0.02%
	GBTL CEMENT	Bhiwani	Haryana	1080	10671.87	0.1%
	KYMORE CEMENT	Katni	MP	295	25614.35	0.3%
	RENU SAGAR DIVISION (ROAD)	Sonbhadra	UP	10	80400.14	1.1%
	GALLANT ISPAT	Gorakhpur	UP	426	16006.26	0.2%
	MARUTI PAPERS LTD	Shamli	UP	1060	12561.82	0.2%
	TOTAL BY ROAD				978554.48	12.9%
	Total Despatch (All modes)				7612037.32	100.0%
J.	Mode of transportation of Coal (Road or railway)	Mentioned in above table				
K.	Nature of vehicle (capsule and others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc)	Trailer (Gross Weight including tare+load)= 45.5 Te Hyva (Gross Weight including tare+load) = 55 Te Tippers (Gross Weight including tare+load) =35 Te				

Sr. No.	Desired Information	Details				
L.	Coal linkage with list of TPP and its distance and mode of transportation	Coal Transportation Through (Year 2021-22)			Distance (KM)	
		TPP/ Other Consumers	Road (MT)	Railway (MT)		Other (MT) Belt Pipe Coneyor
		Renusagar Power Division M/s Hindalco	0.181994	00	3.120103	10
		OTPS Obra	00	0.325699	00	75
		PSSS	00	0.646700	00	
		PIC	00	0.116519	00	
		KOTA	00	0.206320	00	
		VSTPP	00	0.067556	00	
		ROZA	00	0.017673	00	
		MIGK	00	0.035784	00	
		LPGU	00	0.066234	00	
		ATPS	00	0.744390	00	
		NSPN	00	0.013580	00	
		APLS (ADANI POWER)	00	0.062712	00	
		PPGS NAINI	00	0.554057	00	
		SOG	00	0.087689	00	
		MJPJ	00	0.158613	00	
		MUNU	00	0.019568	00	
		NTCD	00	0.038619	00	
		HIMD	00	0.007462	00	
		PMRG	00	0.372170	00	
		NPSB	00	0.100411	00	
		GETS	00	0.004067	00	
		KEA	00	0.005726	00	
		NTPB	00	0.055834	00	
		NPGA	00	0.007676	00	
		MTSS	00	0.019758	00	
		TPAP	00	0.055464	00	
		KJS CEMENT LINKAGE	0.035620	00	00	
		HINDLACO MAHAN LINKAGE	0.180269	00	00	50
		E AUCTION SPOT	0.030424	00	00	
ULTRA TECH CEMENT	0.041852	00	00			
CHANDERIA LEAD ZINC	0.002410	00	00			
STAR PAPER MILL	0.010183	00	00			
DALLA CEMENTS	0.001362	00	00			
BIRLA CORPORATION	0.074683	00	00			
SHIVAM TRADERS	0.000117	00	00			
RPD EXCLUSIVE AUCTION BY ROAD	0.269353	00	00			
ANKIT COAL DEPO	0.000079	00	00			
RAHUL TRADING	0.000025	00	00			

Sr. No.	Desired Information	Details			
	SPECIAL SPOT E AUCTION	0.043750	00	00	
	ACC CEMENT	0.043369	00	00	
	BIRLA CORPORATION RAJASTHAN	0.016065	00	00	
	MANGLAM CEMENT	0.027578	00	00	
	SHREEJI COAL	0.000411	00	00	
	RAKESH COAL TRADERS	0.000119	00	00	
	SATYAM TRADERS	0.000240	00	00	
	GRASIM INDUSTRIES	0.030000	00	00	
	SATGURU SAI	0.000500	00	00	
	VISHAL TRADERS	0.000075	00	00	
	SRI DURGA TRADERS	0.000150	00	00	
	MARUTI PAPERS LTD	0.001504	00	00	
	BIRLA CORPORATION EXCLUSIVE	0.015943	00	00	
	TOTAL	1.008075	3.776701	3.120103	
M.	How much distance travel (In general) for ash and for coal?	Mostly within 45 Kms			
N.	Number of truck move per day	120-135 Trucks per day			
O.	Number & size of sweeping machine used for road sweeping in the area used for transportation of fly ash ad coal	01 Domestic Sweeping Machine 6.90 Cum			
P.	Number & capacity of mist gun used for controlling of dust emissions in the area,	01 12 KL truck Mounted. Apart from this sprinkling is being done through 04 nos. 28 KL departmental mobile water sprinklers, 08 Nos. 12KL+ capacity outsourced water sprinklers and 25 Nos. Fixed sprinklers			
Q.	Number of railway rack move per day/week/month	02			
R.	Area (in acre) specify for parking of truck etc in transportation of coal	6.10 Acres (2.5 Ha.)			
S.	Man power deputed for overall work mentioned above category wise (Manger level/middle level/lower level)	Executives: 76 Monthly Rated: 127 Daily Rated: 258 Outsourced: 1061			
T.	Expenditure done for controlling of road dust/dust in the area for last financial year and ongoing up to 31 Jan, 2023.	Separate Expenditure not booked as per the required information			
U.	Average values of PM10 and PM2.5 for last three years (Pre-monsoon & Post-monsoon)				
		Year	PM10 (µg/m3)	PM2.5 (µg/m3)	
		2022	159	60	

Sr. No.	Desired Information	Details			
	monitored by your online instrument's setup on near road or transportation gate	2021	190	60	
		2020	161	53	
V.	Suggestion on minimization of dust including road dust in the area				
W.	Transportation Route.	Route 1 (Bina - Audi More)- 58%age of time Route 2 (Bina -Bargawan)- 28 %age of time Route 3 (Bina- Daala)- 10 %age of time Others - 4%age of time			

2. NCL Kakri

Sr. No.	Desired Information	Details																						
A.	Project name and address	Kakri open cast project PO- kakri project, NCL, Dist. Sonbhadra UP Pin-231224																						
B.	Production capacity as per EC	3MTY																						
C.	Total lease area in acre	3694.94																						
D.	Total green cover developed in the project area in acre	434.90																						
E.	Coal Production of last five years	<table border="1"> <thead> <tr> <th>Year</th> <th>2018</th> <th>2019</th> <th>2020</th> <th>2021</th> <th>2022</th> </tr> </thead> <tbody> <tr> <td>Production (MT)</td> <td>2.08</td> <td>2.09</td> <td>2.27</td> <td>2.30</td> <td>2.38</td> </tr> </tbody> </table>					Year	2018	2019	2020	2021	2022	Production (MT)	2.08	2.09	2.27	2.30	2.38						
Year	2018	2019	2020	2021	2022																			
Production (MT)	2.08	2.09	2.27	2.30	2.38																			
F.	Total OB production	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Year</th> <th>OB Production (Mm3)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2018</td> <td>8.70</td> </tr> <tr> <td>2</td> <td>2019</td> <td>8.81</td> </tr> <tr> <td>3</td> <td>2020</td> <td>5.05</td> </tr> <tr> <td>4</td> <td>2021</td> <td>4.24</td> </tr> <tr> <td>5</td> <td>2022</td> <td>4.41</td> </tr> </tbody> </table>					Sr. No.	Year	OB Production (Mm3)	1	2018	8.70	2	2019	8.81	3	2020	5.05	4	2021	4.24	5	2022	4.41
Sr. No.	Year	OB Production (Mm3)																						
1	2018	8.70																						
2	2019	8.81																						
3	2020	5.05																						
4	2021	4.24																						
5	2022	4.41																						
G.	Area used for OB management	642.47 acre																						
H.	Are of OB stabilized as on date in acre	434.90																						
I.	Total coal dispatch in MT in per year	2.18																						
J.	Mode of transportation of Coal (Road or railway)	By Road and Rail																						
K.	Nature of vehicle (capsule and others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc)	Railway+ Trucks																						
L.	Coal linkage with list of TPP and its distance and mode of transportation	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of TPP</th> <th>Distance from Kakri OCP</th> <th>Mode of Transportation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ATPS</td> <td>4km</td> <td>MGR</td> </tr> </tbody> </table>					Sr. No.	Name of TPP	Distance from Kakri OCP	Mode of Transportation	1	ATPS	4km	MGR										
Sr. No.	Name of TPP	Distance from Kakri OCP	Mode of Transportation																					
1	ATPS	4km	MGR																					
M.	How much distance travel (In general) for ash and for coal?	200KM (Ave.)																						
N.	Number of truck move per day	100 (Ave.)																						
O.	Number & size of sweeping machine used for road sweeping in the area used for transportation of fly ash ad coal	Nil																						
P.	Number & capacity of mist gun used for controlling of dust emissions in the area,	01																						

Sr. No.	Desired Information	Details												
Q.	Number of railway rack move per day/week/month	03/20/55												
R.	Area (in acre) specify for parking of truck etc in transportation of coal	1.5 Acre (Approx.)												
S.	Man power deputed for overall work mentioned above category wise (Manger level/middle level/lower level)	Manager Level = 4 Middle Level = 8 Lower Level = 12 Outsourced = 10												
T.	Expenditure done for controlling of road dust/dust in the area for last financial year and ongoing up to 31 Jan, 2023.	13 Lakhs in current FY 22-23												
U.	Average values of PM10 and PM2.5 for last three years (Pre-monsoon & Post-monsoon) monitored by your online instrument's setup on near road or transportation gate	<table border="1"> <thead> <tr> <th>Year</th> <th>PM10 (µg/m3)</th> <th>PM2.5 (µg/m3)</th> </tr> </thead> <tbody> <tr> <td>2022</td> <td>150</td> <td>81</td> </tr> <tr> <td>2021</td> <td>88</td> <td>38</td> </tr> <tr> <td>2020</td> <td>52</td> <td>31</td> </tr> </tbody> </table>	Year	PM10 (µg/m3)	PM2.5 (µg/m3)	2022	150	81	2021	88	38	2020	52	31
Year	PM10 (µg/m3)	PM2.5 (µg/m3)												
2022	150	81												
2021	88	38												
2020	52	31												
V.	Suggestion on minimization of dust including road dust in the area	(i) Road side paving. (ii) Plantation along road. (iii) Road Sweeping. (iv) Regular Spray												
W.	Transportation Route.	1 KM from Weighbridge to NH-39												

3. NCL Bina

Sr. No.	Desired Information	Details																								
A.	Project name and address	Bina Extension Project, Office of General Manager, Bina, PO Bina, Sonbhadra, 231220																								
B.	Production capacity as per EC	10.5 MTPA																								
C.	Total lease area in acre	1798 ha (4442.95 acres)																								
D.	Total green cover developed in the project area in acre	422.28 ha (1043.47 acres)																								
E.	Coal Production of last five years	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Year</th> <th>Coal Production (MTPA)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>2017-18</td> <td>7.5</td> </tr> <tr> <td>2.</td> <td>2018-19</td> <td>7.5</td> </tr> <tr> <td>3.</td> <td>2019-20</td> <td>7.5</td> </tr> <tr> <td>4.</td> <td>2020-21</td> <td>8.41</td> </tr> <tr> <td>5.</td> <td>2021-22</td> <td>9.0</td> </tr> </tbody> </table>	Sr. No.	Year	Coal Production (MTPA)	1.	2017-18	7.5	2.	2018-19	7.5	3.	2019-20	7.5	4.	2020-21	8.41	5.	2021-22	9.0						
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I.	Total coal dispatch in MT in per year	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Year</th> <th>Coal Production (MTPA)</th> <th>OB Production (million m³ per annum)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>2017-18</td> <td>7.5</td> <td>25.95</td> </tr> <tr> <td>2.</td> <td>2018-19</td> <td>7.5</td> <td>29.79</td> </tr> <tr> <td>3.</td> <td>2019-20</td> <td>7.5</td> <td>38.43</td> </tr> <tr> <td>4.</td> <td>2020-21</td> <td>8.41</td> <td>36.2</td> </tr> <tr> <td>5.</td> <td>2021-22</td> <td>9.0</td> <td>44.38</td> </tr> </tbody> </table>	S. No.	Year	Coal Production (MTPA)	OB Production (million m ³ per annum)	1.	2017-18	7.5	25.95	2.	2018-19	7.5	29.79	3.	2019-20	7.5	38.43	4.	2020-21	8.41	36.2	5.	2021-22	9.0	44.38
S. No.	Year	Coal Production (MTPA)	OB Production (million m ³ per annum)																							
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Coal Transportation/ Dispatch (Million tons per annum)																										
Year	2017-18	2018-19	2019-20	2020-21	2021-22																					
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Sr. No.	Desired Information	Details																																	
	others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc)	different capacity.																																	
L.	Coal linkage with list of TPP and its distance and mode of transportation	<table border="1"> <thead> <tr> <th>Coal linkage with TPPs</th> <th>Distance (Km)</th> <th>Mode of Transportation</th> </tr> </thead> <tbody> <tr> <td>Anpara Thermal Power Station</td> <td>8</td> <td>Road cum Rail</td> </tr> <tr> <td>Prayagraj Power Generation Company</td> <td>300</td> <td>Road cum Rail</td> </tr> <tr> <td>Adani Power Rajasthan Ltd, Singrauli</td> <td>52</td> <td>Road cum Rail</td> </tr> <tr> <td>Jaypee Bina Thermal Power, Nigri</td> <td>80</td> <td>Road cum Rail</td> </tr> <tr> <td>Lalitpur Power Generation</td> <td>495</td> <td>Road cum Rail</td> </tr> <tr> <td>Bajaj Energy Ltd (Bilaspur)</td> <td>370</td> <td>Road cum Rail</td> </tr> <tr> <td>Bajaj Energy Ltd (Utraula)</td> <td>450</td> <td>Road cum Rail</td> </tr> <tr> <td>Bajaj Energy Ltd (Maqsoodpur)</td> <td>800</td> <td>Road cum Rail</td> </tr> <tr> <td>Bajaj Energy Ltd (Kundarkhi)</td> <td>770</td> <td>Road cum Rail</td> </tr> <tr> <td>Bajaj Energy Ltd (Khamberkhera)</td> <td>550</td> <td>Road cum Rail</td> </tr> </tbody> </table>	Coal linkage with TPPs	Distance (Km)	Mode of Transportation	Anpara Thermal Power Station	8	Road cum Rail	Prayagraj Power Generation Company	300	Road cum Rail	Adani Power Rajasthan Ltd, Singrauli	52	Road cum Rail	Jaypee Bina Thermal Power, Nigri	80	Road cum Rail	Lalitpur Power Generation	495	Road cum Rail	Bajaj Energy Ltd (Bilaspur)	370	Road cum Rail	Bajaj Energy Ltd (Utraula)	450	Road cum Rail	Bajaj Energy Ltd (Maqsoodpur)	800	Road cum Rail	Bajaj Energy Ltd (Kundarkhi)	770	Road cum Rail	Bajaj Energy Ltd (Khamberkhera)	550	Road cum Rail
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M.	How much distance travel (In general) for ash and for coal?	As per designated siding vehicles travel from 8 Km to 100 Km.																																	
N.	Number of truck move per day	290 trips/day																																	
O.	Number & size of sweeping machine used for road sweeping in the area used for transportation of fly ash ad coal	1 no. of Domestic Road sweeping machine is deployed in the area used for transportation of coal at Bina Project. Further 1 additional no. of Road Sweeping Machine is under hiring process for Bina Project through NCL HQ.																																	
P.	Number & capacity of mist gun used for controlling of dust emissions in the area,	a) 2 nos. of Truck mounted dust suppression system (40 m throw) with Mist Gun are deployed for controlling dust emission in the area. b) Additionally, 2 no. of Fixed Fog Canon (100 m throw) are deployed for dust suppression.																																	
Q.	Number of railway rack move per day/week/month	4 to 5 racks per day																																	
R.	Area (in acre) specify for parking of truck etc in transportation of coal	1.3 ha (3.21 acres)																																	
S.	Man power deputed for overall work mentioned above category wise (Manger level/middle level/lower level)	Manager Level = 02 Middle Level = 08 Lower Level = 03																																	

Sr. No.	Desired Information	Details																				
T.	Expenditure done for controlling of road dust/dust in the area for last financial year and ongoing up to 31 Jan, 2023.	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Environmental Protection Measures at Bina Project implemented after from 2018 till date</th> <th>Approximate Cost</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>2 nos. of Truck mounted dust suppression system with Mist Gun have been deployed for dust control in the month of January and March 2020 respectively.</td> <td>Rs. 96.64 Lakhs</td> </tr> <tr> <td>2.</td> <td>1 no. of Domestic Road sweeping Machine has been deployed for dust control and is commissioned on 30th March 2020 at Bina Project.</td> <td>Rs. 53.71 Lakhs</td> </tr> <tr> <td>3.</td> <td>Fixed sprinklers are being installed along the RCC road and CHP for stretch of 2.0 KM to further control the dust emission within mines area.</td> <td>Rs 44.35 lakhs</td> </tr> <tr> <td>4.</td> <td>2 no. of Fixed fog Canon was commissioned in the month of September 2021.</td> <td>Rs 12.46 Lakhs</td> </tr> <tr> <td>5.</td> <td>Installation of Fixed Sprinklers across Bina Wharfwall in Sept. 2022</td> <td>Rs. 1.72 crores</td> </tr> </tbody> </table>			S. No.	Environmental Protection Measures at Bina Project implemented after from 2018 till date	Approximate Cost	1.	2 nos. of Truck mounted dust suppression system with Mist Gun have been deployed for dust control in the month of January and March 2020 respectively.	Rs. 96.64 Lakhs	2.	1 no. of Domestic Road sweeping Machine has been deployed for dust control and is commissioned on 30 th March 2020 at Bina Project.	Rs. 53.71 Lakhs	3.	Fixed sprinklers are being installed along the RCC road and CHP for stretch of 2.0 KM to further control the dust emission within mines area.	Rs 44.35 lakhs	4.	2 no. of Fixed fog Canon was commissioned in the month of September 2021.	Rs 12.46 Lakhs	5.	Installation of Fixed Sprinklers across Bina Wharfwall in Sept. 2022	Rs. 1.72 crores
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V.	Suggestion on minimization of dust including road dust in the area	<ol style="list-style-type: none"> 1. Wheel washing facility is proposed in the industrial units/mines. 2. Greenbelt may be developed along Coal Transportation route to reduce the impact. 3. Road side shoulders may be covered with pavement blocks for effective sweeping of roads 																				
W.	Transportation Route.	All the trucks are transporting coal through Shaktinagar- Auri Mode State Highway via Anpara.																				

4. NCL Khadia

Sr. No.	Desired Information	Details																										
A.	Project name and address	Khadia Project & District- Sonebhadra U.P. Pin code - 231222, Thana - Shaktinagar																										
B.	Production capacity as per EC	15 MTPA																										
C.	Total lease area in acre	4052.53 Acres																										
D.	Total green cover developed in the project area in acre	867.34 Acres																										
E.	Coal Production of last five years	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Year</th> <th>Coal Production (MTPA)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>2017-18</td> <td>8.8</td> </tr> <tr> <td>2.</td> <td>2018-19</td> <td>11.4</td> </tr> <tr> <td>3.</td> <td>2019-20</td> <td>13.18</td> </tr> <tr> <td>4.</td> <td>2020-21</td> <td>14</td> </tr> <tr> <td>5.</td> <td>2021-22</td> <td>14</td> </tr> </tbody> </table>	Sr. No.	Year	Coal Production (MTPA)	1.	2017-18	8.8	2.	2018-19	11.4	3.	2019-20	13.18	4.	2020-21	14	5.	2021-22	14								
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G.	Area used for OB management	East Section=523.23 Acres West Section= 898.06 Acres Total = East + West=1421.29 Acres																										
H.	Area of OB stabilized as on date in acre	Area of OB stabilized as on date in acre is 480.61 Acres (Biologically reclaimed)																										
I.	Total coal dispatch in MT in per year	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Year</th> <th>Coal Dispatch (MTPA)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>2017-18</td> <td>8.18</td> </tr> <tr> <td>2.</td> <td>2018-19</td> <td>11.78</td> </tr> <tr> <td>3.</td> <td>2019-20</td> <td>12.81</td> </tr> <tr> <td>4.</td> <td>2020-21</td> <td>12.61</td> </tr> <tr> <td>5.</td> <td>2021-22</td> <td>14.89</td> </tr> </tbody> </table> <table border="1"> <tr> <td colspan="4">PARTY WISE ROAD DISPATCH REPORT OF KHADIA PROJECT FOR 2022-23 (FROM 1 APRIL 2022 TO TILL 23 FEB)</td> </tr> <tr> <td>S.no.</td> <td>Party Name</td> <td>Party Dest.</td> <td>SUM of LIFTED</td> </tr> </table>	S. No.	Year	Coal Dispatch (MTPA)	1.	2017-18	8.18	2.	2018-19	11.78	3.	2019-20	12.81	4.	2020-21	12.61	5.	2021-22	14.89	PARTY WISE ROAD DISPATCH REPORT OF KHADIA PROJECT FOR 2022-23 (FROM 1 APRIL 2022 TO TILL 23 FEB)				S.no.	Party Name	Party Dest.	SUM of LIFTED
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Sr. No.	Desired Information	Details	QTY
1	A B C INDUSTRIES	231001 MIRZAPUR-MIRZAPUR	98.78
2	AARAV COAL TRADERS	232101 CHANDAULI-CHANDAULI	200
3	AARTI STEELS LTD	754029 CUTTACK-CUTTACK	9736.47
4	ABHISHEK ENTERPRISES	486889 SIDHI-SIDHI	50
5	AGARWAL COAL CORP PVT LTD	221001 VARANASI-VARANASI	3721.5
6	AJAY TRADING COAL CO	232101 CHANDAULI-CHANDAULI	100
7	AMAN COAL SUPPLIERS	231313 MIRZAPUR-MIRZAPUR	1063.21
8	AMBIKA TRADE LINK	495001 BILASPUR-BILASPUR	2531.31
9	AMIT TRADING COMPANY	485001 SATNA-SATNA	100
10	ANAND CARBO PRIVATE LIMITED	486889 SINGRAULI-SINGRAULI	2000
11	ANAND COAL AGENCY	232101 CHANDAULI-CHANDAULI	1845.14
12	ANIKET RAJ GENERAL SUPPLIER	829202 LATEHAR-LATEHAR	200
13	ANKIT COAL DEPO	231001 MIRZAPUR-MIRZAPUR	80
14	ARPA FUEL PRIVATE LIMITED	495001 BILASPUR-BILASPUR	1000
15	ARTIIKA ENTERPRISES	232101 CHANDAULI-CHANDAULI	150
16	ASHOKA KRAFT PAPER MILLS LLP	781380 KAMRUP-KAMRUP	3950
17	ASHOKA PULP & PAPER PRIVATE LIMITED	201102 GHAZIABAD-GHAZI	904.78
18	ATUL COAL TRADERS	141009 LUDHIANA-LUDHIANA	1453.52
19	AWADH COAL PRIVATE LIMITED	232101 CHANDAULI-CHANDAULI	500
20	B L A POWER PVT LTD	487551 PIPRIA-NARSINGHPUR	3000
21	B.K COAL COMPANY	208002 KANPUR NAGAR-KANPUR NAGAR	100
22	BABA BARFANI TRADERS	825301 HAZARIBAG-HAZARIBAG	100
23	BABA ENTERPRISES	232101 CHANDAULI-CHANDAULI	500
24	BADEWARA NATH ENTERPRISES	231313 MIRZAPUR-MIRZAPUR	350
25	BADHYNATH FUELS INDUSTRIES	231305 MIRZAPUR-MIRZAPUR	14049.06
26	BALAJI DEVELOPERS	497001 AMBIKAPUR-SURGUJA	1052.38
27	BHAGVATI COAL MOVERS PRIVATE LIMITE	121002 FARIDABAD-FAR	188.34
28	BINNI TRADELINK	231001 MIRZAPUR-MIRZAPUR	531.78
29	BIPIN TRADERS	231001 MIRZAPUR-MIRZAPUR	300
30	BISHESHWAR COAL TRADERS	232101 CHANDAULI-CHANDAULI	2657.15
31	BOLTA WORK SWIFT PRIVATE LIMITED	486886 SINGRAULI-SINGRAU	809.79
32	BRIJESH COAL TRADERS	232101 CHANDAULI-CHANDAULI	338.96
33	CHHINMISTKA ENTERPRISES	829117 HAZARIBAG-HAZARIBAG	500
34	CHINTPURNI STEEL PVT LTD	825336 HAZARIBAG-HAZARIBAG	4778.76
35	CIMMCO LIME & MINERALS	483501 KATNI-KATNI	853.64
36	D. A. COAL AGENCY	232101 CHANDAULI-CHANDAULI	300

Sr. No.	Desired Information	Details
37	DASSANI SALES	451115 WEST NIMAR-WEST NIMAR 60
38	DEVI IRON AND POWER PRIVATE LIMITED	493221 RAIPUR-RAIPUR 46623.23
39	DEVSAR TRADE LINKERS	232101 CHANDAULI-CHANDAULI 200
40	DHIRAJ TRADING CO.	208003 KANPUR NAGAR-KANPUR NAGAR 100
41	DINNU COAL TRADERS	492001 RAIPUR-RAIPUR 500
42	DURGA CHEMICALS	822131 PALAMAU-PALAMAU 2849.75
43	ENVIROCARE INFRASOLUTION PRIVATE LI	770031 ROURKELA-SUNDARGARH 1000
44	GALLANTT ISPAT LIMITED	273209 GORAKHPUR-GORAKHPUR 3000
45	GANGOTRI TRADING COMPANY	231306 MIRZAPUR-MIRZAPUR 499.99
46	GOYAL ENTERPRISES	232101 CHANDAULI-CHANDAULI 400
47	GSR ENTERPRISES	492001 RAIPUR-RAIPUR 654.45
48	GURU KIRPA COAL CO	141010 LUDHIANA-LUDHIANA 978.08
49	HANU MINERALS	495223 BILASPUR-BILASPUR 2000
50	HARBHAJAN COAL DEPOT	232101 CHANDAULI-CHANDAULI 276.17
51	HARIHAR MAHADEV ENTRPRISES	232101 CHANDASI-CHANDAULI 100
52	HARSH COAL TRADERS	211008 ALLAHABAD-ALLAHABAD 254.49
53	HARSHI ENTERPRISES	273001 GORAKHPUR-GORAKHPUR 73.78
54	HEMU ENTERPRISES	273001 GORAKHPUR-GORAKHPUR 1000
55	HI-TECH POWER AND STEEL LIMITED	492001 RAIPUR-RAIPUR 2178.39
56	HIND UNITRADE PRIVATE LIMITED	497001 SURGUJA-SURGUJA 3652.77
57	HINDALCO INDUSTRIES LIMITED	231218 SONEBHADRA-SONEBHADRA 203468.06
58	HINDALCO INDUSTRIES LIMITED	486886 SINGRAULI-SINGRAULI 53464.77
59	HIRA COAL MINES PVT LTD	211016 ALLAHABAD-ALLAHABAD 876.59
60	JAI DADIJEE ENTERPRISES	828113 DHANBAD-DHANBAD 250
61	JAI HANUMAN COAL DEPO	497001 SURGUJA-SURGUJA 400
62	JAI MAA KALI INDUSTRIES	233228 GHAZIPUR-GHAZIPUR 468.74
63	JAISHREE VANIJYA PVT. LTD	834001 RANCHI-RANCHI 500
64	JANKI COKES TRADERS PVT LTD	834001 RANCHI-RANCHI 100
65	JANKI ENTERPRISES	232101 CHANDAULI-CHANDAULI 200
66	JAYPEE BINA THERMAL POWER PLANT	470113 SAGAR-SAGAR 30700
67	JAYPEE NIGRIE SUPER THERMAL POWER	486669 SINGRAULI-SINGRAULI 76700
68	JAYPEE POWER VENTURES LTD	470113 SAGAR-SAGAR 64000
69	JEEWANI FUELS PVT LTD	224001 FAIZABAD-FAIZABAD 500
70	JHABUA POWER LTD	480997 SEONI-SEONI 89593.96
71	JP ENTERPRISES	411048 PUNE-PUNE 50
72	JUGNU INDUSTRIES	232103 VARANASI-VARANASI 299.17
73	K A I INTERNATIONAL PVT LTD	769004 SUNDERGARH-SUNDERGARH 985.27

Sr. No.	Desired Information	Details	
74	KAIMOOR COAL TRADERS	221309 SANT RAVIDAS NAGAR	500
75	KAMAL TRADING COMPANY	490026 BHILAI-DURG	410.75
76	KASHI COAL COMPANY	232101 MUGHALSARAI-CHANDAULI	50
77	KASHI INDUSTRIES	221002 VARANASI-VARANASI	813.16
78	KASHIF ASSOCIATES	232101 CHANDAULI-CHANDAULI	150
79	KIRAN COAL COMPANY	232101 CHANDAULI-CHANDAULI	500
80	KRISHNA COAL TRADERS	221401 SANT RAVIDAS NAGAR	176.01
81	KRISHNA KUMAR JAISWAL	211003 ALLAHABAD-ALLAHABAD	400
82	KUANTUM PAPERS LIMITED	144529 HOSHIARPUR-HOSHIARPUR	3900
83	KUMAR COAL TRADERS	221304 SANT RAVIDAS NAGAR	225.81
84	LANCO ANPARA POWER LTD	231225 SONBHADRA-SONBHADRA	2140269.12
85	LAXMI ENTERPRISES	829122 RAMGARH-RAMGARH	548.46
86	M P COAL TRADERS	486889 SIDHI-SIDHI	199
87	MAA AMILA COAL DEPOT	231207 SONBHADRA-SONBHADRA	700
88	MAA DEOSARWALI TRADING CO (P) LTD	829122 RAMGARH-RAMGARH	100
89	MAA DURGA TRADERS	232104 CHANDAULI-CHANDAULI	3000
90	MAA KALI COAL TRADERS	232101 CHANDAULI-CHANDAULI	434.1
91	MAA SHANTI MINERALS	495001 BILASPUR-BILASPUR	1812.61
92	MAA VINDHYAVASINI COAL TRADERS&SUPP	231001 MIRZAPUR-MIRZAPUR	200
93	MAA VINDHYAVASINI TRADERS	231001 MIRZAPUR-MIRZAPUR	418.57
94	MAHALAXMI TRADE ZONE	493773 DHAMTARI-DHAMTARI	3400
95	MAHAMAYA SPONGE IRON PRIVATE LIMITE	492001 RAIPUR-RAIPUR	6382.44
96	MAHAN ENERGEN LIMITED	486886 SINGRAULI-SINGRAULI	187538.59
97	MAHAVIR ENTERPRISES	829117 RAMGARH-RAMGARH	175.89
98	MAHESH PRASAD SINGH & COAL COMPANY	/ 497001 SURGUJA-SURGUJA	73.87
99	MARUTI COAL AND CARGO PVT LTD	492001 RAIPUR-RAIPUR	170.6
100	MARUTI MINERALS	497001 SURGUJA-SURGUJA	599.74
101	MATA ANANDMAEE ENTERPRISES	231001 MIRZAPUR-MIRZAPUR	100
102	MB POWER (MADHYA PRADESH) LIMITED	484330 ANUPPUR-ANUPPUR	111558.85
103	N.R.ISPAT AND POWER PRIVATE LIMITED	496001 RAIGARH-RAIGARH	2367.7
104	NARSIMHA IRON AND STEEL PVT. LTD	825301 HAZARIBAG-HAZARIBAG	2292.87
105	OM ENTERPRISES	221701 BALLIA-BALLIA	856.81
106	OM SAI COAL TRADERS	231001 MIRZAPUR-MIRZAPUR	150
107	OM SPONGE	492001 RAIPUR-RAIPUR	14501.05
108	OTERRA UDYOG PRIVATE LIMITED	275102 MAU-MAU	2723.17
109	PANDEY COAL DEPO	221304 SANT RAVIDAS NAGAR	200

Sr. No.	Desired Information	Details	
110	POPULAR COAL & MINERALS	829134 RAMGARH-RAMGARH	1135.86
111	PRASAD ENTERPRISES	221303 SANT RAVIDAS NAGAR	200
112	PRATAP COAL TRADING COMPANY	232101 CHANDAULI-CHANDAULI	1912.77
113	PRATAP TRANSPORT COMPANY	232101 CHANDAULI-CHANDAULI	500
114	PRAYAGRAJ POWER GENERATION COMPANY	201301 GAUTAM BUDDHA NAGAR	28357.49
115	PREETI ENTERPRISES	232104 CHANDAULI-CHANDAULI	1999.81
116	R K M POWERGEN PRIVATE LIMITED	495692 JANJGIR-CHAMPA-JANJGIR-CHAMPA	35800
117	R.G. TRADE LINK PVT. LTD	232101 CHANDAULI-CHANDAULI	3202.27
118	RAHUL TRADING COMPANY	232101 CHANDAULI-CHANDAULI	449.7
119	RAIC INTEGRATED SPONGE & POWER (P)	713336 PASCHIM BARDHAMAN-PASCHIM BARDHA	1800
120	RAIPUR ENERGEN LIMITED	493225 RAIPUR-RAIPUR	92924.84
121	RAJ COAL AND COMMISSION AGENT	232101 CHANDAULI-CHANDAULI	200
122	RAJASTHAN COAL SUPPLIERS	232101 CHANDAULI-CHANDAULI	1500
123	RAJASTHAN RAJYA VIDYUT UTPADAN NIGA	324008 KOTA-KOTA	149855
124	RAJPUT COAL TRADERS	231313 MIRZAPUR-MIRZAPUR	300
125	RAJRAPPA COAL TRADER	232101 CHANDAULI-CHANDAULI	150.43
126	RAMA COAL BENEFICIATION	495001 BILASPUR-BILASPUR	400
127	RASHMI METALIKS LIMITED	721304 KHARAGPUR-WEST MIDNAPORE	7900
128	ROHIT ENTERPRISES	232101 CHANDAULI-CHANDAULI	281.58
129	S A IRON AND ALLOYS PVT. LTD	232104 CHANDAULI-CHANDAULI	1997.77
130	S M NIRYAT PRIVATE LIMITED	700026 KOLKATA-KOLKATA	4000
131	S R TRADERS	231001 MIRZAPUR-MIRZAPUR	250
132	S.B.D.TRADERS	232101 CHANDAULI-CHANDAULI	500
133	SAGAR TRADERS	495001 BILASPUR-BILASPUR	198.69
134	SAI CHEMICALS PRIVATE LIMITED	491441 RAJNANDGAON-RAJNANDGAON	29.4
135	SAI RAM ENTERPRISES	232101 CHANDAULI-CHANDAULI	400
136	SANGITA SALES PVT LTD	440008 NAGPUR-NAGPUR	1000
137	SANTOSH TRADERS	496665 RAIGARH-RAIGARH	99.83
138	SATGURU SAI TRADERS	440008 NAGPUR-NAGPUR	1100
139	SATYAM LIME & PROCESSING WORKS	829117 RAMGARH-RAMGARH	474.11
140	SATYAM SHIVAM SUNDRAM ENTERPRISES	232101 CHANDAULI-CHANDAULI	100
141	SAUMYA TRADERS	212402 ALLAHABAD-ALLAHABAD	375.07
142	SBC MINERALS PRIVATE LIMITED	250002 MEERUT-MEERUT	3000
143	SBC MINERALS PVT. LTD	250002 MEERUT-MEERUT	500
144	SHANKAR SHAMBHU COAL TRADING COMPAN	825301 HAZARIBAG-HAZARIBAG	125.52

Sr. No.	Desired Information	Details
145	SHANTI GOPAL CONCAST LTD	231304 MIRZAPUR-MIRZAPUR 11318.54
146	SHITAL COAL TRADERS	221401 SANT RAVIDAS NAGAR 23.89
147	SHIV METTALICKS PVT LTD	769012 ROURKELA-SUNDERGARH 1083.39
148	SHIV SHAKTI ENTERPRISES	829202 LATEHAR-LATEHAR 100
149	SHIVAJI TRADERS	829202 LATEHAR-LATEHAR 100
150	SHIVAM TIE UP PRIVATE LIMITED	713333 BARDHAMAN-BARDHAMAN 471.13
151	SHIVANGI COAL COMPANY	232101 CHANDAULI-CHANDAULI 300
152	SHIVOHAM TRADING COMPANY	452010 INDORE-INDORE 500
153	SHOBHA ENTERPRISES	829117 RAMGARH-RAMGARH 130
154	SHREE BALAJI ENTERPRISES	834001 RANCHI-RANCHI 311.99
155	SHREE COAL ENTERPRISES	462011 BHOPAL-BHOPAL 32.67
156	SHREE ENTERPRISES	700001 KOLKATA-KOLKATA 700
157	SHREE GANESH COAL ENTERPRISES	232110 CHANDAULI-CHANDAULI 31.01
158	SHREE MANGALAM ENTERPRISES	496001 RAIGARH-RAIGARH 500
159	SHREE SAI COMPANY	232101 CHANDAULI-CHANDAULI 200
160	SHREE SAI URJA LIMITED	244001 MORADABAD-MORADABAD 29.98
161	SHREE UGRATARA TECH	835214 RANCHI-RANCHI 100
162	SHREESATYA SPONGE AND POWER PRIVATE	700091 KOLKATA-NORTH 24 PARGANAS 271.68
163	SHRI GANGA PAPER MILLS PVT. LTD	201001 GHAZIABAD-GHAZIABAD 2050
164	SHRI SHYAM ISPAT INDIA PRIVATE LIM	496001 RAIGARH-RAIGARH 907.57
165	SHRI TULSI ENERGY (INDIA)	208007 KANPUR-KANPUR NAGAR 3007.42
166	SHUBHAM MINCHEM PVT LTD	452010 INDORE-INDORE 60
167	SHUBHAM UDYOG	231313 MIRZAPUR-MIRZAPUR 200
168	SHUBHI COAL SUPPLIERS	221001 VARANASI-VARANASI 907.7
169	SHYAM COAL COMPANY	232104 CHANDAULI-CHANDAULI 250.04
170	SHYAM COAL PRIVATE LIMITED	232101 MUGHALSARAI-CHANDAULI 1500
171	SHYAM METALICS AND ENERGY LTD	768212 SAMBALPUR-SAMBALPUR 4222.6
172	SIDDHARTH ENTERPRISES	221303 SANT RAVIDAS NAGAR 100
173		232101 CHANDAULI-CHANDAULI 234.62
174	SINGH COAL TRADERS	211019 ALLAHABAD-ALLAHABAD 100
175	SINGH TRADERS	486886 SINGRAULI-SINGRAULI 1307.95
176	SINGH TRADING AGENCY	232101 CHANDAULI-CHANDAULI 100
177	SINGHAL ENTERPRISES PRIVATE LIMITED	496001 RAIGARH-RAIGARH 17115
178	SKP TRADERS	221002 VARANASI-VARANASI 300
179	SKS ISPAT AND POWER LIMITED	492001 RAIPUR-RAIPUR 10000
180	SKY ALLOYS AND POWER PRIVATE LIMITE	496661 RAIGARH-RAIGARH 5913.61

Sr. No.	Desired Information	Details	
181	SLY LOGTRADE PRIVATE LIMITED	530045 VISAKHAPATNAM-VISAKHAPATNAM	1900.5
182	SRI BABA COAL	834008 RANCHI-RANCHI	500
183	SRI VENKATESH IRON AND ALLOYS INDIA	829105 RAMGARH-RAMGARH	3000
184	SRV TRADERS	232101 MUGHALSARAI-CHANDAULI	200
185	STAR PAPER MILLS LTD	247001 SAHARANPUR-SAHARANPUR	500
186	SUBH LABH COAL TRADERS	232101 CHANDAULI-CHANDAULI	500
187	SUDAMA COAL SUPLIERS	233001 GHAZIPUR-GHAZIPUR	400
188	SUNDARAM STEELS PVT LTD	827014 BOKARO-BOKARO	6149.02
189	SUPER ENTERPRISES	212207 KAUSHAMBI-KAUSHAMBI	363.68
190	SUPER SMELTERS LTD	700017 KOLKATA-KOLKATA	4000
191	SURGUJA ENTERPRISES	497001 SURGUJA-SURGUJA	1000
192	SWASTIK SALES	835222 RANCHI-RANCHI	250
193	TANMAY ENTERPRISES	232101 CHANDAULI-CHANDAULI	396.51
194	TARANJOT RESOURCES PRIVATE LIMITED	395007 SURAT-SURAT	1574.08
195	TIRUPATI BALAJI TRADERS	495678 KORBA-KORBA	192.43
196	TIRUPATI ENTERPRISES	232101 CHANDAULI-CHANDAULI	1000
197	TRIMULA INDUSTRIES LTD	486889 SIDHI-SIDHI	35173.45
198	TULSIAN COAL SYNDICATE	232101 CHANDAULI-CHANDAULI	3000
199	UDAY ENTERPRISES	232101 CHANDAULI-CHANDAULI	525.14
200	UPADHYAY ROAD CARRIER	486889 SIDHI-SIDHI	100
201	UTTAR PRADESH RAJYA VIDYUT	231225 SONBHADRA-SONBHADRA	347631.72
202	V.K COAL TRADERS	208027 KANPUR NAGAR-KANPUR NAGAR	1376.23
203	VAIBHAV ENTERPRISES	212216 KAUSHAMBI-KAUSHAMBI	200
204	VARANASI GLASS INDUSTRIES	232103 VARANASI-VARANASI	794.5
205	VARDHMAN FABRICS	466445 SEHORE-SEHORE	1375.05
206	VIHAAN ENTERPRISES	462001 BHOPAL-BHOPAL	350
207	VIJAY COAL TRADERS	221304 SANT RAVIDAS NAGAR	290
208	VINAYAK ENTERPRISES	232101 MUGHALSARAI-CHANDAULI	200
209	VINDHYAVASANI GRAMODYOG	277208 BALLIA-BALLIA	6523.12
210	VINDHYAVASINI COAL DEPOT	232101 CHANDAULI-CHANDHASI	150
211	VINOD KUMAR GARG	829122 RAMGARH-RAMGARH	200
212	VISHAL ENTERPRISES	232101 MUGHALSARAI-CHANDAULI	200
213	VISHAL SPONGE PVT LTD	825101 RAMGARH-RAMGARH	2196.21
214	VISHAL TRADERS	231001 MIRZAPUR-MIRZAPUR	934.76
215	YASHITA TRADERS	700091 SALT LAKE-KOLKATA	386.64
Total			3967985.37

Sr. No.	Desired Information	Details
J.	Mode of transportation of Coal (Road or railway)	Coal by rail. 10.00 MT by Khadia CHP 2.19 MT by Krishnashila CHP 2.00 MT by Jhingurdah Wharfwall with mechanized RLS
K.	Nature of vehicle (capsule and others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc.)	“As of now no transportation of fly ash is taking place from Khadia project.” <ul style="list-style-type: none"> Nature of vehicle (capsule and others) used for transportation of Coal by Khadia area is majority by Merry Go Round Rail system. Remaining coal is transported through Road mode with the help of tipper
L.	Coal linkage with list of TPP and its distance and mode of transportation	Anpara Thermal Power Station (1630 MW) of UPRVUNL, Distance - 17 km Lanco Anpara TPS (1200MW) & Basket Linkage, Distance - 17 Km
M.	How much distance travel (In general) for ash and for coal?	Khadia to Anpara TPS / Lanco Anpara TPS is about 17 km.
N.	Number of truck move per day	350 Trucks move per day
O.	Number & size of sweeping machine used for road sweeping in the area used for transportation of fly ash ad coal	<ul style="list-style-type: none"> Number of sweeping machines used for road sweeping in the area used for transportation of coal=02 (1 No. Vacuum Based, 01 No. Self-propelled)
P.	Number & capacity of mist gun used for controlling of dust emissions in the area,	Number & capacity of mist gun used for controlling of dust emissions in the area=02 (Truck Mounted) & 01 Fixed, Capacity= 12 KL.
Q.	Number of railway rack move per day/week/month	<ul style="list-style-type: none"> Number of railway rack move per day =13 racks Number of railway rack move per week= 90 racks Number of railway rack move per month= 380 racks
R.	Area (in acre) specify for parking of truck etc in transportation of coal	1.5 Acres.
S.	Man power deputed for overall work mentioned above category wise (Manger level/middle level/lower level)	Manager level = 05 Middle (deputy manager) = 01 Lower level (over man) = 14

Sr. No.	Desired Information	Details																									
T.	Expenditure done for controlling of road dust/dust in the area for last financial year and ongoing up to 31 Jan, 2023.	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Activity</th> <th>Financial Year</th> <th>Expenditure incurred</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Development of Truck mounted Fog Cannon</td> <td>2019-20</td> <td>43.54 Lakhs</td> </tr> <tr> <td>2.</td> <td>Development of vacuumed based Road Sweeping Machine</td> <td>2019-20</td> <td>53.71 Lakhs</td> </tr> <tr> <td>3.</td> <td>Development of self-propelled Road Sweeping Machine</td> <td>2020-21</td> <td>138 Lakhs</td> </tr> <tr> <td>4.</td> <td>Development of additional Truck mounted Fog Cannon on hiring basis</td> <td>2022-23</td> <td>51.88 Lakhs/Annum including Diesel Cost</td> </tr> <tr> <td>5.</td> <td>Expenditure incurred on manual brooming of road Gate no. 03 over bridge</td> <td>2022-23</td> <td>19.91 Lakhs</td> </tr> </tbody> </table>	S. No.	Activity	Financial Year	Expenditure incurred	1.	Development of Truck mounted Fog Cannon	2019-20	43.54 Lakhs	2.	Development of vacuumed based Road Sweeping Machine	2019-20	53.71 Lakhs	3.	Development of self-propelled Road Sweeping Machine	2020-21	138 Lakhs	4.	Development of additional Truck mounted Fog Cannon on hiring basis	2022-23	51.88 Lakhs/Annum including Diesel Cost	5.	Expenditure incurred on manual brooming of road Gate no. 03 over bridge	2022-23	19.91 Lakhs	
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Year	PM10 (µg/m3)	PM2.5 (µg/m3)																									
2022	164	70																									
2021	131	83																									
2020	145	56																									
V.	Suggestion on minimization of dust including road dust in the area	Emphasis may be given for decrease in burning of primary fuel in nearby by areas along side road.																									
W.	Transportation Route.	Nature of vehicle (capsule and others) used for transportation of Coal by Khadia area is majority by Merry Go Round Rail system. 10.00 MT by Khadia CHP 2.19 MT by Krishnashila CHP 2.00 MT by Jhingurdah Wharfwall with mechanized RLS Remaining coal is transported through Road mode with the help of tipper																									

5. NCL Dudhichua

Sr. No.	Desired Information	Details																					
A.	Project name and address	OFFICE OF THE GENERAL MANAGER, DUDHICHUA OCP, POST-KHADIA (U.P)-231222																					
B.	Production capacity as per EC	25 MT (TOTAL PRODUCTION AS PER EC) Note : currently all coal production is in M.P																					
C.	Total lease area in acre	2390.722 Hec. (1835.722 Hec. in MP + 555 Hec. in UP)																					
D.	Total green cover developed in the project area in acre	<ul style="list-style-type: none"> • Unbroken Forest land - 522.23 Hec. • Biologically reclaimed Area - 467.65 Hec. • Green Cover developed by Project Outside Mine Lease and around colony – 163 Hec. (approx.) No. of Plants planted Year wise in OB in last 3 year- <table border="1"> <thead> <tr> <th>Year</th> <th>MP</th> <th>UP</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>35000</td> <td>40000</td> </tr> <tr> <td>2020-21</td> <td>31625</td> <td>42500</td> </tr> <tr> <td>2021-22</td> <td>42525</td> <td>55750</td> </tr> </tbody> </table>	Year	MP	UP	2019-20	35000	40000	2020-21	31625	42500	2021-22	42525	55750									
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2021-22	42525	55750																					
E.	Coal Production of last five years	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Year</th> <th>Coal Production (MTPA)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>2017-18</td> <td>15.5</td> </tr> <tr> <td>2.</td> <td>2018-19</td> <td>15.5</td> </tr> <tr> <td>3.</td> <td>2019-20</td> <td>17.7</td> </tr> <tr> <td>4.</td> <td>2020-21</td> <td>20.2</td> </tr> <tr> <td>5.</td> <td>2021-22</td> <td>22.06</td> </tr> <tr> <td>6.</td> <td>2022-23</td> <td>23 (projected)</td> </tr> </tbody> </table>	Sr. No.	Year	Coal Production (MTPA)	1.	2017-18	15.5	2.	2018-19	15.5	3.	2019-20	17.7	4.	2020-21	20.2	5.	2021-22	22.06	6.	2022-23	23 (projected)
Sr. No.	Year	Coal Production (MTPA)																					
1.	2017-18	15.5																					
2.	2018-19	15.5																					
3.	2019-20	17.7																					
4.	2020-21	20.2																					
5.	2021-22	22.06																					
6.	2022-23	23 (projected)																					
F.	Total OB production	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Year</th> <th>OB Production (Mm3)</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>2021-22</td> <td>57.590</td> </tr> <tr> <td>5</td> <td>2022-23 (Till 31.03.2022)</td> <td>1022.532</td> </tr> </tbody> </table>	Sr. No.	Year	OB Production (Mm3)	4	2021-22	57.590	5	2022-23 (Till 31.03.2022)	1022.532												
Sr. No.	Year	OB Production (Mm3)																					
4	2021-22	57.590																					
5	2022-23 (Till 31.03.2022)	1022.532																					
G.	Area used for OB management	905.63 Hec. (Total till 31.03.2022)																					
H.	Are of OB stabilized as on date in acre	905.63 Hec. (Total till 31.03.2022)																					
I.	Total coal dispatch in MT in per year	23 MT (19 MT by Rail + 4 MT by Road) approx.																					
J.	Mode of transportation of Coal (Road or railway)	19 MT by Rail + 4 MT by Road approx.																					

Sr. No.	Desired Information	Details		
K.	Nature of vehicle (capsule and others) used for transportation of fly ash and coal (with specification and photograph and year of manufacturing, capacity etc.)	Truck Tipper/ Dala Body with Tarpoline Cover (of various approved capacity by RTO)		
L.	Coal linkage with list of TPP and its distance and mode of transportation			
	S.No.	Consumer Name	District and State	Distance from DUDHICHUA (km)
	1	Essar Power M.P. Ltd.	Singrauli, M.P	39
	2	Hindalco Industries Ltd. Mahan	Singrauli, M.P	38
	3	Lanco Anpara Power Ltd	Sonebhadra, U.P	24
	4	Hindalco Industries Ltd. Renusagar	Sonebhadra, U.P	19
	5	Lalitpur Power Gen. Co. Ltd.	Lalitpur, U.P	504
	6	Jaypee Nigrie Super Thermal Power Project	Singrauli, M.P	104
	7	MB Power (MP) Ltd.	Anuppur, M.P	261
	8	Prayagraj Power G.Co. Ltd.	Prayagraj, U.P	218
	9	Jhabua Power Limited	Seoni, M.P	473
	10	Grasim Industries Limited (Chemical Division Rehla)	Palamu, Jharkhand	159
	11	Jindal Power Ltd.	Raigarh, Chattisgarh	345
	12	Sangita Sales Pvt. Ltd.	Nagpur, Maharashtra	687
	13	Sri Singaji Thermal Power Project Khandwa	Khandwa, M.P	903
	14	Bajaj Energy Ltd. (Khambharkhera)	Lakhimpur Kheri, U.P	667
	15	Bajaj Energy Ltd. (Kundarkhi)	Gonda, U.P	476
	16	Bajaj Energy Ltd. (Maqsoodpur)	Shahjahanpur, U.P	746
	17	Bajaj Energy Ltd. (Pilibhit)	Pilibhit, U.P	681
	18	Bajaj Energy Ltd. (Utraula)	Balrampur, U.P	510
		Jaypee Bina Thermal Power	Sagar, M.P	614

Sr. No.	Desired Information	Details
	19	Plant
	20	NTPC Ltd. (Solapur)
	21	Talwandi Sabo Power Ltd.
	22	Nabha Power Limited
	23	Khargone Super Thermal Power Station NTPC
	24	Rajiv Gandhi Thermal Power Station HPGCL
M.	How much distance travel (In general) for ash and for coal?	30 -40 Km
N.	Number of truck move per day	300-400 trucks /day
O.	Number & size of sweeping machine used for road sweeping in the area used for transportation of fly ash ad coal	<ul style="list-style-type: none"> 1 No. vacuum operated Road Dust sweeping Machine (in Industrial area and Colony)
P.	Number & capacity of mist gun used for controlling of dust emissions in the area,	2 No. Mobile type fog cannon (from Jayant More to Khadia Colony) (Throw-50m) 1 Fixed fogger (Throw 100m) on Wharf wall 8 Fixed Fogger to be installed by June 2023
Q.	Number of railway rack move per day/week/month	12-14 racks /day
R.	Area (in acre) specify for parking of truck etc in transportation of coal	2 Hec. approx.
S.	Man power deputed for overall work mentioned above category wise (Manger level/middle level/lower level)	Will have to be accessed

Sr. No.	Desired Information	Details														
T.	Expenditure done for controlling of road dust/dust in the area for last financial year and ongoing up to 31 Jan, 2023.	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Financial Year</th> <th colspan="2">Expenditure incurred</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2020-21</td> <td colspan="2">687.86 Lakhs</td> </tr> <tr> <td>2</td> <td>2021-22</td> <td colspan="2">640.52 Lakhs</td> </tr> </tbody> </table> <p>Further the costs of some machines are listed below - 1 No. Water Tanker with sprinkler – 12.91 Lakhs 1 Road Dust Sweeping Machine - 43.22 Lakhs 1 Fixed Fog cannon - 06.23 Lakhs 2 Truck Mounted Fog Cannon - 81.90 Lakhs</p>			S. No.	Financial Year	Expenditure incurred		1	2020-21	687.86 Lakhs		2	2021-22	640.52 Lakhs	
S. No.	Financial Year	Expenditure incurred														
1	2020-21	687.86 Lakhs														
2	2021-22	640.52 Lakhs														
U.	Average values of PM10 and PM2.5 for last three years (Pre-monsoon & Post-monsoon) monitored by your online instrument's setup on near road or transportation gate	Year	PM10 (µg/m3)	PM2.5 (µg/m3)												
		2022	117	37												
		2021	212	126												
		2020	152	55												
V.	Suggestion on minimization of dust including road dust in the area	Shouldering of Roads <ul style="list-style-type: none"> • More Fogging on Road • Fixed Sprinkling at Wharf wall • More Transportation by Rail • Curtain wall in certain areas to curtail dust 														
W.	Transportation Route.	All trucks in UP transporting coal through Shakti Nagar –Auri Mode state Highway via Anpara														

Details of Permission given to Fly Ash filling in low lying area by UPPCB

Sr. No.	Name Of Party	Date of Issue of CTE	Ash Quantity (in MT)
1.	M/s Super Logistic, Vill. Kota, Agori, Obra District Sonbhadra -01	04.06.2022	175548
2.	M/s Maa Ban Devi Construction, Vill labhri, Dudhi, Sonbhadra	30.03.2022	33875
3.	M/s Narayani Technos Pvt. Ltd.	19.05.2022	189000
4.	M/s Super Logistic, Vill. Kota, Agori, Obra Sonbhadra - 02	17.12.2022	800000
5.	M/s Singrauli Construction Pvt. Ltd. Vill- Auri, Singrauli Sonbhadra	21.06.2022	962607
6.	M/s Hardev Singh, Vill. – Vairpaan, Post- Anpara, Dudhi Sonbhadra	30.06.2022	138460
7.	M/s Hardev Singh, Vill. - Karhiya Post- Anpara, Dudhi Sonbhadra	30.06.2022	115501
8.	M/s Super Transport Company	23.07.2022	731374
9.	M/s National Prestige Construction Company	22.11.2022	350000
10.	M/s B.K. Singh Stone	04.11.2022	397500
11.	M/s S. B. Construction	26.06.2022	8539
	Total		3902404

कार्यालय सहायक सम्भागीय परिवहन अधिकारी (प्रशासन), सोनभद्र ।

पत्रांक 1537 / सा0प्रशा0 / एन0जी0टी0 / 2023

दिनांक 28/02/23

सेवा में,

क्षेत्रीय निदेशक,
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,
क्षेत्रीय निदेशालय लखनऊ।

महोदय,

आपके पत्रांक CM-13011/1/2023 दिनांक 17.02.2023 के अनुपालन में निम्नांकित सूचना आवश्यक कार्यवाही हेतु प्रेषित है।

बिन्दु संख्या 01- जनपद में कुल व्यवसायिक वाहन (आनरोड) 25423 है।

बिन्दु संख्या 02- 10 चक्का ट्रक का माल सहित वजन 28500 किग्रा0 है।

12 चक्का ट्रक का माल सहित वजन 36000 किग्रा0 है।

14 चक्का ट्रक का माल सहित वजन 43500 किग्रा0 है।

18 चक्का ट्रक का माल सहित वजन 46000 किग्रा0 है।

22 चक्का ट्रक का माल सहित वजन 55000 किग्रा0 है।

बिन्दु संख्या 03- परिवहन विभाग से सम्बन्धित नहीं है।

बिन्दु संख्या 04- 2021-22 और 2022-23 (28 फरवरी 2023 तक) में कुल चालान 2547 प्रशमन शुल्क 150354 (लाख) है।

रजिस्टर 28/02/23

सहायक सम्भागीय परिवहन अधिकारी
(प्रवर्तन) सोनभद्र

प्रेषक,

जिलाधिकारी
सोनभद्र।

सेवा में,

क्षेत्रीय निदेशक,
केन्द्रीय प्रदूषण नियन्त्रण बोर्ड
क्षेत्रीय निदेशालय, लखनऊ

पत्रांक:- 365 / डी0एम0एफ0 / 2022-23

दिनांक- 01.03.2023

विषय :-

Hon'ble NGT order in the matter of OA No. 862/2022 in the matter of Pankaj
Kumar Mishra Vs Union of India and Ors.- Regarding

महोदय,

कृपया अपने पत्र संख्या-CM-13011/1/2023-TECH-RD-LUCKNOW-RD-LUCKNOW/L/3922/2023 दिनांक 17.02.2023 का सन्दर्भ ग्रहण करने का कष्ट करे। जिसके द्वारा मा0 राष्ट्रीय हरित प्राधिकरण में योजित Original Application No.-862/2022 में उठाये गये प्रश्न transportation of fly ash by various thermal power stations located at Singrauli and sonbhadra region are causing huge air pollution on the roads and local residential areas and the authorities responsible for monitoring and supervising such transportation are not acting in accordance with provisions of law and 2013 and 2019 Guidelines laid down in this regard by Central Pollution Control Board. के सम्बन्ध में 02 बिन्दुओं पर आख्या की अपेक्षा की गयी है।

जनपद-सोनभद्र में अवस्थित थर्मल पावर स्टेशन से उत्सर्जित फ्लाई ऐश के परिवहन से स्थानीय आवासीय एवं सड़क पर उत्पन्न वायु प्रदूषण पर इन क्षेत्रों में सुधार हेतु एक्शन प्लान सम्बन्धित थर्मल पावर स्टेशन से सम्बन्धित है।

प्रश्नगत प्रकरण खनन अथवा जिला खनिज फाउन्डेशन न्यास, सोनभद्र से सम्बन्धित नहीं है। कृपया तदनुसार अवगत होने का कष्ट करे।

भवदीय

(चन्द्र विजय सिंह)
जिलाधिकारी
सोनभद्र।

त्रांक: / दिनांकित :-

प्रतिलिपि:- निम्नलिखित को सूचनार्थ एवं आवश्यक कार्य हेतु प्रेषित।

1. क्षेत्रीय अधिकारी, उ0प्र0 प्रदूषण नियन्त्रण बोर्ड, सोनभद्र।
2. ज्येष्ठ खान अधिकारी, सोनभद्र।

जिलाधिकारी
सोनभद्र।

Please speak

Rafiq
13.03.2023

Faisal, SSA

PHOTOGRAPHS TAKEN DURING THE VISIT OF THE COMMITTEE



Coal Dust Deposited along the Auri – Shakti Nagar Road



Naked Road without Barrier of Plantation in middle passage



Fly Ash Dumped in Hap-hazard manner by M/s Renusagar TPP at the Krishnshila Rilway siding



Fly Ash Dump in Hap-hazard manner by M/s Renusagar TPP

PHOTOGRAPHS TAKEN DURING THE VISIT OF THE COMMITTEE



Fly Ash Dump in Hap-hazard manner by M/s Renusagar TPP



Coal illegally Store near Krishnashila Railway Siding



Coal illegally Store near Krishnashila Railway Siding



Status Of vehicles used for Coal Transportation (With out Number Plate and Broken siding)



Coal Transported without proper cover



With out Number Plate Vehicles involved in Coal Transportation



Non-Operational Fog- Cannon Machine at M/s NCL Bina

Coal Fire at M/s NCL Bina



Huge Dust Deposition on approach road to Khadia Ash Dike of M/s NTPC Shakti Nagar



Ash Dike of M/s Renusagar TPP



Fly Ash Transported by M/s Renusagar TPPs from Ash Dike



Illegal Dumping of Ash in Forest Area



Illegal Dumping of Ash in along the Road Side



Low lying Area filled by Pond Ash of M/s Renusagar TPP

PHOTOGRAPHS TAKEN DURING THE VISIT OF THE COMMITTEE



Storage of Evacuated Soil/Minerals form low Lying Area



Disposal of Fly Ash in Hap-hazard manner by M/s Anpara



Breaching of Ash Slurry Pipe line of M/s Anpara



Red Mud Storage without any measures by M/s Hindalco



Red Mud Storage without any measures by M/s Hindalco



Red Mud Dust emitt due to movement of Trucks



Ash Slurry Disposed in the River Sone by M/s Obra TPP



Naked Road without Barrier of Plantation in middle passage at Stone Crusser Area

PHOTOGRAPHS TAKEN DURING THE VISIT OF THE COMMITTEE



Impact of visibility due to dust pollution caused by Stone Crusser



Stone Crusher Dust Deposited on Road Side



Fugitive emission due to Stone Crusher



Huge Dust Deposited on nearby Plants