

**BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI**

ORIGINAL APPLICATION No. 39 OF 2022 (SZ)

IN THE MATTER OF:

Gedam Dilip Kumar,
Telangana & another

Applicant(s)

Versus

The Singareni Collieries Company Ltd.,
rep by its Chairman & Managing Director,
Telangana & Others

Respondent(s)

REPORT OF THE TELANGANA STATE POLLUTION CONTROL BOARD (R4)

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Place: Hyderabad.

Date: 30-11-2022.

REPORT DATED 29.11.2022 OF THE ENVIRONMENTAL ENGINEER, REGIONAL OFFICE, NIZAMABAD (R4) ON HON'BLE NATIONAL GREEN TRIBUNAL, CHENNAI IN ORIGINAL APPLICATION NO. 39 OF 2022 FILED BY GEDAM DILIP KUMAR & ANOTHER, R/O.VULLIPITTA (V), TIRYANI (M), KOMURAM BHEEM ASIFABAD DISTRICT, TELANGANA STATE.

It is to submit that Sri Gedam Dilip Kumar & another, R/o.Vullipitta (V), Tiryani Mandal, Komuram Bheem Asifabad District have filed an application before the Hon'ble National Green Tribunal, Southern Zone, Chennai (Application No. 39 of 2022) against M/s.Singareni Collieries Company Ltd., regarding air pollution and dust nuisance caused by Khairagura Open Cast Mine at Bellampally Area of Komurambheem Asifabad District.

In this regard, Hon'ble NGT, Chennai has passed orders dated 13.10.2022 to verify the action taken by the Board after the issue of Showcause Notice dt:23.12.2021.

In this regard, it is to submit that, Board official inspected the mine, surrounding area and conducted Ambient Air quality monitoring (AAQM) near the sub-station, Khairagura Open Cast Project, Bellampally area (Down wind direction) on 29.10.2021. As per the analysis report of Ambient Air quality monitoring (AAQM), the RSPM value was found to be $112 \mu\text{g}/\text{m}^3$ against the $100 \mu\text{g}/\text{m}^3$ standard.

In this regard, the Regional Office, Nizamabad has issued notice to the industry on 23.12.2021 and directed to take necessary measures to control fugitive dust emissions to meet the prescribed standards of the Board and submit action taken report within 10 days from the receipt of notice.

M/s. Singareni Collieries Company Ltd., (R9) submitted reply dated 01.01.2022 **(Annexure-I)** to the Show Cause Notice, stating as follows: -

- The Ambient Air Quality Monitoring (AAQM) conducted on 29.10.2021 near the sub-station, Khairagura Open Cast Project falls in the Core Zone of the project and the TSPCB in the CFO Order has stipulated the coal mine standard, as per Environment (Protection) Rules, 1986 vide Notification No. GSR 742(E) dated 25.09.2000, the Respirable Suspended Particulate Matter (RSPM) standard of $250 \mu\text{g}/\text{m}^3$, in the core zone. The Project Proponent further stated that the value of RSPM monitored at Sub-station, Khairagura open cast expansion project is $112 \mu\text{g}/\text{m}^3$ within the stipulated limit of $250 \mu\text{g}/\text{m}^3$

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In this connection, it is to submit that the standard for RSPM in the core zone of coal mines is $250 \mu\text{g}/\text{m}^3$. However, due to typographical error, it was mentioned as $100 \mu\text{g}/\text{m}^3$ in the analysis report, because of which the Board issued notice to the Project Proponent.

It is to further submit that the Project Proponent has taken following air pollution control measures for mitigating fugitive dust emissions in order to meet the prescribed standards: -


- Water sprinkling and dust suppression on haul roads.
- Crusher house, Conveyors, Transfer points, Discharge hoppers, etc., are closed with GI Sheets.
- Mist sprayer is provided at Crusher of Pit Head Coal Handling Plant (CHP).
- Sensor operated wetting point is provided to wet coal loaded dumpers, before unloading into crushers.
- Coal transport trucks covered with tarpaulin for avoiding coal spillage on the transport route.
- Wet drilling is being adopted.

It is also submitted that during the inspection by the Joint Committee, the Board has conducted Ambient Air Quality Monitoring (AAQM) at two locations on 27.04.2022 & 28.04.2022 (**Annexure-II**) in the surrounding villages of the Khairagura Open Cast Expansion Project for RSPM and $\text{PM}_{2.5}$. As per the monitoring reports at two locations in the surrounding villages, the RSPM values are $68 \mu\text{g}/\text{m}^3$ & $81 \mu\text{g}/\text{m}^3$ (Standard- $100 \mu\text{g}/\text{m}^3$) and $\text{PM}_{2.5}$ values are $28 \mu\text{g}/\text{m}^3$ & $48 \mu\text{g}/\text{m}^3$ (Standard- $60 \mu\text{g}/\text{m}^3$) and within the National Ambient Air Quality Standards.

The Board will regularly monitor the above project for the compliance of the CFO conditions.

Date: 29.11.2022

Place: Nizamabad.


ENVIRONMENTAL ENGINEER
TSPCB, REGIONAL OFFICE, NIZAMABAD.

ENVIRONMENTAL ENGINEER
T.S. Pollution Control Board
Regional Office, Nizamabad.



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THE SINGARENI COLLIERIES COMPANY LIMITED
(A Govt. Company)
ENVIRONMENT DEPT. BELLAMPALLI

Ref: BPA/ENV/1/2022/ 188

Dt: 01.01.2022.

To
The Environmental Engineer,
Regional Office,
TSPCB, Nizamabad

Sub: Reply to the notice issued by TSPCB for RSPM value exceeding board standards in AAQM at Khairagura OC Bellampalli area-reg

Ref: Notice No:2087/TSPCB/RO/NZB/W&A/2021-725, Dt:23.12.2021

With reference to the subject cited, TSPCB issued a show cause notice to Khairagura Opencast project on the grounds that air quality parameter (RSPM) exceeded the stipulated norms during ambient air quality monitoring conducted by the board.

In this connection, it is to submit that TSPCB has conducted Ambient Air Quality Monitoring (AAQM) near the substation, Khairagura Opencast Expansion Project on 29.10.2021, which falls in core zone of the project. TSPCB has stipulated at Special condition no. 5 of Schedule-B of Consent Order No. TSPCB/RCP/NZB/HO/W&A/2017-854, dt. 01.06.2017, that Industry shall comply with Coal Mine Standards for the core zone. Accordingly, as per Coal Mine Standards, GSR 742(E) dated 25.09.2000, the RSPM value shall not exceed the stipulated standard of $250 \mu\text{g} / \text{m}^3$ in core zone.


Hence, the value of RSPM monitored at substation, Khairagura Opencast Expansion Project i.e., $112 \mu\text{g} / \text{m}^3$ is well within the standard stipulated for core zone.

The project authorities are adopting following air pollution control measures for mitigating fugitive dust emissions in order to meet the prescribes standards.

- 7 nos. of 28 KL & 5 no of 10 KL capacity mobile water sprinklers are being deployed in every shift for dust suppression on haul roads and approach roads, dumps, coal transport road, etc.
- The crusher house, conveyors, transfer points, discharge hoppers, etc, are closed with G.I. sheets to the extent possible to control the dust generation.
- A mist sprayer is provided at crusher of pit head coal handling plant.
- A sensor operated wetting point is provided to wet, coal loaded dumpers before unloading into crushers
- Fixed point water sprinkling arrangement is provided along permanent haul roads, crushers, around pre weigh bin.
- Coal transport trucks are being covered with tarpaulin for avoiding coal spillage on the transport route.
- Pre-weigh bin truck dispatch system is provided at this project to reduce dust during loading of trucks.
- The wet drilling is being adopted.

It is requested to consider the clarifications given for the show cause notice and condone any action in this regard.

Received
mgli
Office of the
ENVIRONMENTAL ENGINEER
T.S. Pollution Control Board
Regional Office, Nizamabad.


Project Officer
Khairagura OCP
Bellampalli area

(4)

ANNEXURE - II



TELANGANA STATE POLLUTION CONTROL BOARD
ZONAL LABORATORY: R.C.PURAM
 25-35/11, Tulasi Reddy Complex, R.C.Puram, Sangareddy District.

ANALYSIS REPORT
(AMBIENT AIR)

Sample Nos. 2022 – 04400

- 1) Name & Address of the Industry : M/s. SCCL, Khairaguda OCP and Surrounding Villages (Vatti vagu, Vulipitta, Gover Guda, Chopidi, Dorli and Pathibanda) Thiriyani (M), Komaram Bheem Asifabad District.
- 2) Date of Sampling : 27/04/2022 & 28/04/2022
- 3) Sample Received on : 29/04/2022
- 4) Report issued on : 09/05/2022
- 5) Sample Collected by : Joint Committee appointed by Hon'ble NGT, South Zone, Chennai, under OA. No. 39 of 2022.

S. No.	Sampling Location	Results		
		Shift Type	RSPM µg/m ³	PM _{2.5} µg/m ³
1.	Ambient Air Quality Monitoring conducted at Residence of Shiva in Rehabilitated Dorli (Dampur) (V), Thiryani (M), Komaram Bheem Asifabad District and it is about 5.8 KM distance from M/s. SCCL, Khairaguda OCP and 1093 meters from D3 Over Burden Dump.	Shift –I 6:00 PM to 2:00 AM	62	28
		Shift –II 2:05 AM to 10:05 AM	74	
		Shift –III 10:10 AM to 3:15 PM	69	
		24 Hours Average	68	28
National Ambient Air Quality Standards for 24 Hours			100	60

Observations:

- Mining activities are being carried out during monitoring.
- Shift-III monitoring was interrupted due to power failure between 3:15 PM to 6:10 PM.

[Signature]
 9/5/22

SENIOR ENVIRONMENTAL SCIENTIST

SENIOR ENVIRONMENTAL SCIENTIST
 ZONAL LABORATORY
 T.S. POLLUTION CONTROL BOARD
 R.C.PURAM, SANGAREDDY DISTRICT

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TELANGANA STATE POLLUTION CONTROL BOARD
ZONAL LABORATORY: R.C.PURAM
25-35/11, Tulasi Reddy Complex, R.C.Puram, Sangareddy District.

ANALYSIS REPORT
(AMBIENT AIR)

Sample Nos. 2022 – 04399

- 1) Name & Address of the Industry : **M/s. SCCL, Khairaguda OCP and Surrounding Villages (Vatti vagu, Vulipitta, Gover Guda, Chopidi, Dorli and Pathibanda) Thiryan (M), Komaram Bheem Asifabad District.**
- 2) Date of Sampling : **27/04/2022 & 28/04/2022**
- 3) Sample Received on : **29/04/2022**
- 4) Report issued on : **09/05/2022**
- 5) Sample Collected by : **Joint Committee appointed by Hon'ble NGT, South Zone, Chennai, under OA. No. 39 of 2022.**

S. No.	Sampling Location	Results		
		Shift Type	RSPM µg/m ³	PM _{2.5} µg/m ³
1.	Ambient Air Quality Monitoring conducted at Residence of Athram Jaggu in Vulipitta (V), Thiryan (M), Komaram Bheem Asifabad District and it is about 5 KM distance from M/s. SCCL, Khairaguda OCP and 250 meters from D3 Over Burden Dump.	Shift –I 5:45 PM to 1:45 AM	56	24
		Shift –II 1:50 AM to 9:50 AM	63	
		Shift –III 10:00 AM to 3:00 PM	52	
		24 Hours Average	57	24
		National Ambient Air Quality Standards for 24 Hours		100

Observations:

1. Mining activities are being carried out during monitoring.
2. Shift–III monitoring was interrupted due to power failure between 3:00 PM to 5:45 PM.


SENIOR ENVIRONMENTAL SCIENTIST

ENVIRONMENTAL SCIENTIST
ZONAL LABORATORY
POLLUTION CONTROL BOARD
V.P.P., SANGAREDDY DISTRICT

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TELANGANA STATE POLLUTION CONTROL BOARD
ZONAL LABORATORY: R.C.PURAM
25-35/11, Tulasi Reddy Complex, R.C.Puram, Sangareddy District.

ANALYSIS REPORT
(AMBIENT AIR)

Sample Nos. 2022 – 04402

- 1) Name & Address of the Industry : **M/s. SCCL, Khairaguda OCP and Surrounding Villages (Vatti vagu, Vulipitta, Gover Guda, Chopidi, Dorli and Pathibanda) Thiryan (M), Komaram Bheem Asifabad District.**
- 2) Date of Sampling : **27/04/2022 & 28/04/2022**
- 3) Sample Received on : **29/04/2022**
- 4) Report issued on : **09/05/2022**
- 5) Sample Collected by : **Joint Committee appointed by Hon'ble NGT, South Zone, Chennai, under OA. No. 39 of 2022.**

S. No.	Sampling Location	Results		
		Shift Type	RSPM µg/m ³	PM _{2.5} µg/m ³
1.	Ambient Air Quality Monitoring conducted at Residence of Tekkam Paggu in Chopidi (V), Thiryan (M), Komaram Bheem Asifabad District and it is about 900 meters distance from M/s. SCCL, Khairaguda OCP and 550 meters from D1 Stabilized Over Burden Dump.	Shift –I 6:15 PM to 2:15 AM	72	48
		Shift –II 2:20 AM to 10:20 AM	84	
		Shift –III 10:25 AM to 3:15 PM	88	
		24 Hours Average	81	48
		National Ambient Air Quality Standards for 24 Hours		100

Observations:

1. Mining activities being carried out during monitoring.
2. Shift–III monitoring was interrupted due to power failure between 3:15 PM to 6:25 PM.

[Handwritten Signature]
9/5/22

SENIOR ENVIRONMENTAL SCIENTIST

ZONAL ENVIRONMENTAL
POLLUTION CONTROL BOARD
R.C.PURAM, SANGAREDDY DISTRICT



TELANGANA STATE POLLUTION CONTROL BOARD
ZONAL LABORATORY: R.C.PURAM
 25-35/11, Tulasi Reddy Complex, R.C.Puram, Sangareddy District.

ANALYSIS REPORT
(AMBIENT AIR)


Sample Nos. 2022 – 04401

- 1) Name & Address of the Industry : **M/s. SCCL, Khairaguda OCP and Surrounding Villages (Vatti vagu, Vulipitta, Gover Guda, Chopidi, Dorli and Pathibanda) Thiryani (M), Komaram Bheem Asifabad District.**
- 2) Date of Sampling : **27/04/2022 & 28/04/2022**
- 3) Sample Received on : **29/04/2022**
- 4) Report issued on : **09/05/2022**
- 5) Sample Collected by : **Joint Committee appointed by Hon'ble NGT, South Zone. Chennai, under OA. No. 39 of 2022.**

S. No.	Sampling Location	Results		
		Shift Type	RSPM µg/m ³	PM _{2.5} µg/m ³
1.	Ambient Air Quality Monitoring conducted at Residence of A. Nagu in Gover Guda (V), Thiryani (M), Komaram Bheem Asifabad District and it is about 1.2 Kms distance from M/s. SCCL, Khairaguda OCP.	Shift –I 6:05 PM to 2:05 AM	85	45
		Shift –II 2:10 AM to 10:10 AM	80	
		Shift –III 10:10 AM to 3:15 PM	95	
		24 Hours Average	87	45
		National Ambient Air Quality Standards for 24 Hours	100	60

Observations:

- The Mining activities are being carried out during monitoring.
- Shift–III monitoring was interrupted due to power failure between 3:15 PM to 6:10 PM.


SENIOR ENVIRONMENTAL SCIENTIST
 ZONAL LABORATORY
 POLLUTION CONTROL BOARD
 R.C.PURAM, SANGAREDDY DISTRICT