



Prakash Industries Limited

(REGIONAL OFFICE)

93, 1st Floor, Kharavel Nagar, Unit-3, Bhubaneswar- 751001 (Odisha)

CIN : L27109HR1980PLC010724

Tele : 9437561184, 9438428464

E-mail : steel.power@rediffmail.com / sirkaguttumines@prakash.com

Website - www.prakash.com

Ref: PIL/SIOM/KJR/2024-25/341

Date : 07.11.2024

To,
The Member Secretary,
State Environment Impact Assessment Authority,
Ministry of Environment Forest & CC, (GOI),
Qr. No. 5RF-2/1, Unit – IX,
Bhubaneswar – 751022 (Odisha)

Sub.: Submission of Six Monthly Compliance Report towards the conditions stipulated in the Environment Clearance issued on dated 06.01.2017 along with Monitoring Data for Ambient Air, Water, Noise, Solid Waste, etc. for the period from April 2024 to September 2024 in respect of Sirkaguttu Iron & Manganese Ore Mine of M/s. Prakash Industries Limited in Keonjhar district of Odisha.

Ref.: 1. Environment Clearance no. SEIAA/ 2401 dated 06.01.2017.

Sir,

This has reference to the above mentioned subject. As per the provisions, we are submitting herewith six monthly Compliance Report along with Environmental Monitoring Data for Ambient Air, Water, Noise, Solid Waste, Expenses incurred for Environmental Management & Corporate Social Responsibility and Green Belt development during the period April 2024 to September 2024 of Sirkaguttu Iron & Manganese Ore Mines for which Environment Clearance was granted vide above referred letter.

We hope you will find the same in order.

Thanking you,

Yours faithfully,

For PRAKASH INDUSTRIES LIMITED,

Deepak Dash
Sr. Vice President

Encl.: As above.

CC TO :

✓ The Additional Principle Chief Conservator of Forest, Environment, Forests and Climate Change, (MoEF&CC), (Govt. of India), Regional Office, East Zone (EZ), A-31, Chandrasekharpur, Bhubaneswar, (Odisha)

✓ The Member Secretary,
State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar,
Unit – III, Bhubaneswar, (Odisha) 751012

The Regional Director,
Central Pollution Control Board (CPCB), Kasba New Market, Sector E,
East Kolkata Twp, Kolkata, (West Bengal) 700107

The Regional Officer, State Pollution Control Board,
Keonjhar, (Odisha)


: For favour of
information
please.



Public Hearing Points & Compliance

Sl. No.	Public hearing issues raised on 24.06.2016	Compliance	Expenditure (In Rs.)
1	Development of Road	Initially there was a narrow kachha road connecting Sirkaguttu village with the nearby village Mithirda which is 5.0 km away from the mines. The road has been expanded and developed to a metal road by the company and the road is being maintained regularly to keep it always in motorable condition.	Rs.41,69,234/-
2	Electricity facility	Earlier, Electric power was not supplied to the Sirkaguttu village. After discussion with the electricity department by the company, the process for supply of electric power to the village was under taken and during the month of April'21, electric power was supplied to the village. In the mean time the company had provided street light & accessories to the village.	Rs.14,582/-
3	Health facility	Earlier, there was no hospital or primary health center in the village. People were traveling to nearby Government Hospital, Kalimati to get the medical treatment, which is 14 km away from the sirkaguttu village. Since April 2019 we have established a dispensary in the village with a full time pharmacist to provide medical treatment to the villagers. We are supplying free medicine to all the villagers and nearby people. Serious patients are being taken to the Kalimati and Keonjhar Hospitals with the help of company ambulance.	Rs.6,50,452/-
4	Supply of drinking water	Two water tankers have been engaged by the company for supply of drinking water to the nearby villages every day. In addition to this, drinking water is also being supplied to the Sirkaguttu village through pipeline connection from an over head tank constructed by the company.	Rs.8,58,000/-
5	Vocational education	For the promotion of education, the company has appointed Six teachers in the local schools.	Rs.2,85,204/-
6	Employment	We have appointed 122 nos. of local people for mining work in different post according to their ability and qualification. In addition to this, we are paying monthly compensation to all the families (163 Nos.) of Sirkaguttu Village @ Rs 3000/- per family for the betterment of their livelihood.	Rs.17,87,66,76/-

For Prakash industries Ltd.


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Enlisted in Construction Industry Development Council (CIDC), established by the Planning Commission (Govt. of India).
MoEF&CC, Govt. of India, Recognized Environment Laboratory under Environment (Protection) Act, 1986.

Date: 02.05.2024

Report No.: PIL/CEMC/020524/AAQ

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : April 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Air Quality
 - A1 – Near Guest House
 - A2 – Near Office
 - A3 – Near Weigh Bridge

ANALYSIS RESULTS OF AMBIENT AIR QUALITY

Sl. no.	Station Code	Date of Monitoring	Results				
			PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1	A1	01.04.2024	51	26	7.5	12.3	BDL
2	A2	01.04.2024	47	22	7.1	11.6	BDL
3	A3	01.04.2024	63	34	8.3	15.4	BDL
CPCB Standards(24 hrly)			100	60	80	80	4

Note: BDL value for CO < 0.11 mg/m³

M. Rout

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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
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For Prakash Industries Ltd
[Signature]
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Date: 02.05.2024

Report No.: PIL/CEMC/020524/NL

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : April 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Noise Level

NL1 – Near Guest house

NL2 – Near Office

NL3 – Near weigh Bridge

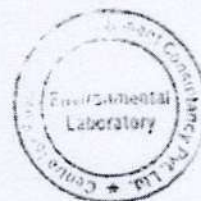
ANALYSIS RESULTS OF AMBIENT NOISE LEVEL

Sl. no.	Station code	Date of Monitoring	Results (dB(A))					
			Day (0600-2200hr)			Night (2200-0600hr)		
			Max.	Min.	Avg*	Max.	Min.	Avg*
1	NL1	02.04.2024	54.3	33.8	45.8	34.5	BDL	33.2
2	NL2	03.04.2024	47.5	31.9	41.5	31.9	BDL	30.5
3	NL3	04.04.2024	55.2	32.5	46.8	32.6	BDL	30.7

*Logarithmic Averages, BDL Limit : 30dB (A) All Values in dB (A)

MRout

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Date: 01.06.2024

Report No.: PIL/CEMC/010624/AAQ

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : May 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Air Quality
 - A1 – Near Guest House
 - A2 – Near Office
 - A3 – Near Weigh Bridge

ANALYSIS RESULTS OF AMBIENT AIR QUALITY

Sl. no.	Station Code	Date of Monitoring	Results				
			PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)
1	A1	01.05.2024	45	21	6.6	10.8	BDL
2	A2	01.05.2024	50	24	6.9	11.2	BDL
3	A3	01.05.2024	65	32	8.4	14.9	BDL
CPCB Standards(24 hrly)			100	60	80	80	4

Note: BDL value for CO-<0.11 mg/m³

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Report No.: PIL/CEMC/010624/NL

Date: 01.06.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : May 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Noise Level

NL1 – Near Guest house

NL2 – Near Office

NL3 – Near weigh Bridge

ANALYSIS RESULTS OF AMBIENT NOISE LEVEL

Sl. no.	Station code	Date of Monitoring	Results { dB(A) }					
			Day (0600-2200hr)			Night (2200-0600hr)		
			Max.	Min.	Avg*	Max.	Min.	Avg*
1	NL1	02.05.2024	59.2	33.4	51.6	34.5	BDL	31.4
2	NL2	03.05.2024	56.3	31.9	48.7	33.2	BDL	30.8
3	NL3	04.05.2024	58.1	32.4	50.3	32.1	BDL	30.6

*Logarithmic Averages, BDL Limit : 30dB (A) All Values in dB (A)

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Report No.: PIL/CEMC/010724/AAQ

Date: 01.07.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : June 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Air Quality
 - A1 – Near Guest House
 - A2 – Near Office
 - A3 – Near Weigh Bridge

ANALYSIS RESULTS OF AMBIENT AIR QUALITY

Sl. no.	Station Code	Date of Monitoring	Results				
			PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	A1	03.06.2024	48	20	6.9	11.4	BDL
2	A2	03.06.2024	54	25	7.4	13.8	BDL
3	A3	03.06.2024	62	29	8.6	16.4	BDL
CPCB Standards(24 hrly)			100	60	80	80	4

Note: BDL value for CO-<0.11 mg/m³

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Report No.: PIL/CEMC/010724/NL

Date: 01.07.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : June 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Noise Level

NL1 – Near Guest house

NL2 – Near Office

NL3 – Near weigh Bridge

ANALYSIS RESULTS OF AMBIENT NOISE LEVEL

Sl. no.	Station code	Date of Monitoring	Results { dB(A)}					
			Day (0600-2200hr)			Night (2200-0600hr)		
			Max.	Min.	Avg*	Max.	Min.	Avg*
1	NL1	04.06.2024	58.2	31.4	51.3	35.2	BDL	31.3
2	NL2	05.06.2024	55.3	34.1	49.5	32.7	BDL	30.6
3	NL3	06.06.2024	59.3	30.6	51.7	31.4	BDL	30.3

*Logarithmic Averages, BDL Limit : 30dB (A). All Values in dB (A)

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Report No.: PIL/CEMC/010824/AAQ

Date: 01.08.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : July 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Air Quality
 - A1 – Near Guest House
 - A2 – Near Office
 - A3 – Near Weigh Bridge

ANALYSIS RESULTS OF AMBIENT AIR QUALITY

Sl. no.	Station Code	Date of Monitoring	Results				
			PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	A1	01.07.2024	44	18	6.2	10.8	BDL
2	A2	01.07.2024	49	20	7.1	12.6	BDL
3	A3	01.07.2024	54	26	8.2	15.3	BDL
CPCB Standards(24 hrly)			100	60	80	80	4

Note: BDL value for CO-<0.11 mg/m

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Date: 01.08.2024

Report No.: PIL/CEMC/010824/NL

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : July 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Noise Level

NL1 - Near Guest house

NL2 - Near Office

NL3 - Near weigh Bridge

ANALYSIS RESULTS OF AMBIENT NOISE LEVEL

Sl. no.	Station code	Date of Monitoring	Results { dB(A) }					
			Day (0600-2200hr)			Night (2200-0600hr)		
			Max.	Min.	Avg*	Max.	Min.	Avg*
1	NL1	03.07.2024	46.4	33.6	43.5	34.4	BDL	30.8
2	NL2	04.07.2024	48.6	35.2	45.2	33.8	BDL	30.4
3	NL3	05.07.2024	55.2	34.8	49.6	36.8	BDL	32.2

*Logarithmic Averages, BDL Limit : 30dB (A) All Values in dB (A)

M. Rout

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Report No.: PIL/CEMC/130824/AAQ

Date: 13.08.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : August 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Air Quality
 - A1 – Near Guest House
 - A2 – Near Office
 - A3 – Near Weigh Bridge

ANALYSIS RESULTS OF AMBIENT AIR QUALITY

Sl. no.	Station Code	Date of Monitoring	Results				
			PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	A1	08.08.2024	42	16	5.8	10.4	BDL
2	A2	09.08.2024	46	19	6.6	12.2	BDL
3	A3	10.08.2024	50	24	7.4	14.8	BDL
CPCB Standards(24 hrly)			100	60	80	80	4
Testing Method			Gravimetric ISO5182 (Part-23)RA2019	Gravimetric ISO5182 (Part-24)RA2019	Improved West and Geake method ISO5182(Part-2) RA2017	Modified Jacob & Hochheiser (Na-Arsenite)ISO5182(Part-6) RA2012	NDIR SpectroscopyISO 5182(Part 10)RA2009

Note: BDL value for CO-<0.11 mg/m³

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Report No.: PIL/CEMC/090824/NL

Date: 09.08.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : August 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Noise Level

NL1 – Near Guest house

NL2 – Near Office

NL3 – Near weigh Bridge

ANALYSIS RESULTS OF AMBIENT NOISE LEVEL

Sl. no.	Station code	Date of Monitoring	Results { dB(A) }					
			Day (0600-2200hr)			Night (2200-0600hr)		
			Max.	Min.	Avg*	Max.	Min.	Avg*
1	NL1	03.08.2024	43.8	32.4	38.6	35.6	BDL	30.4
2	NL2	05.08.2024	46.4	34.8	43.8	36.4	BDL	31.2
3	NL3	06.08.2024	52.6	35.2	46.5	37.6	BDL	32.8

*Logarithmic Averages, BDL Limit : 30dB (A). All Values in dB (A)

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Report No.: PIL/CEMC/230924/AAQ

Date: 23.09.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : September 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Air Quality
 - A1 – Near Guest House
 - A2 – Near Office
 - A3 – Near Weigh Bridge

ANALYSIS RESULTS OF AMBIENT AIR QUALITY

Sl. no.	Station Code	Date of Monitoring	Results				
			PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	A1	03.09.2024	40	14	5.2	10.1	BDL
2	A2	09.09.2024	44	17	6.3	11.4	BDL
3	A3	18.09.2024	49	22	7.1	13.6	BDL
CPCB Standards(24 hrly)			100	60	80	80	4
Testing Method			Gravimetric ISO5182 (Part-23)RA2019	Gravimetric ISO5182 (Part-24)RA2019	Improved West and Geake method ISO5182(Part-2) RA2017	Modified Jacob & Hochheiser (Na-Arsenite)ISO5182(Part-6) RA2012	NDIR SpectroscopyISO5182(Part-10)RA2009

Note: BDL value for CO-<0.11 mg/m³

M. Raut

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Report No.: PIL/CEMC/210924/NL

Date: 21.09.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : September 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ambient Noise Level

NL1 – Near Guest house

NL2 – Near Office

NL3 – Near weigh Bridge

ANALYSIS RESULTS OF AMBIENT NOISE LEVEL

Sl. no.	Station code	Date of Monitoring	Results { dB(A) }					
			Day (0600-2200hr)			Night (2200-0600hr)		
			Max.	Min.	Avg*	Max.	Min.	Avg*
1	NL1	03.09.2024	41.6	32.8	37.2	34.5	BDL	30.7
2	NL2	09.09.2024	44.8	33.4	40.6	35.2	BDL	31.4
3	NL3	18.09.2024	49.5	33.9	44.4	36.8	BDL	31.9

*Logarithmic Averages, BDL Limit: 30dB (A). All Values in dB (A)

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DETAILS OF CORPORATE SOCIAL RESPONSIBILITY EXPENSES

Sl. No.	For the period of April – 2024 to September – 2024	
	Details of important work done at site (Panchayat/ Villages) etc	Expenses (In Rs.)
1	Drinking Water Facility (Engagement of water tanker for supply of drinking water to the nearby village and expenditure for supply of drinking water through pipeline.)	Rs.8,58,000/-
2	Promotion of Education (Teacher's salary)	Rs.2,85,204/-
3	Health care (Supply of medicine, Salary paid to Pharmacist & other medical Staffs, Ambulance, etc.)	Rs.6,50,452/-
4	Environmental awareness (Plantation, solar connection and water sprinkling on transportation road for suppression of dust)	Rs.21,49,305/-
5	Family Compensation paid to the Villagers	Rs.29,34,000/-
6	Development of Village Road	Rs.41,69,234/-
7	Financial assistance to the nearby villages for religious and cultural activities, sports competition etc.	Rs.1,38,588/-
8	Miscellaneous (Infrastructure development, expenses reference to social welfare activities etc.)	Rs.1,96,920/-
	Grand Total =	Rs.1,13,81,703/-

For Prakash industries Ltd


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Report No.: PIL/CEMC/020524/FE

Date: 02.05.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : April 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Fugitive Emission

FE1 – Near Screening Plant

FE2 – Near Crushing Plant

FE3 – Near Quarry

ANALYSIS RESULTS OF FUGITIVE EMISSIONS

Sl. no.	Station Code	Date of Monitoring	Results		
			RSPM ($\mu\text{g}/\text{m}^3$)	NRSPM ($\mu\text{g}/\text{m}^3$)	TSPM ($\mu\text{g}/\text{m}^3$)
1	FE1	02.04.2024	94	388	482
2	FE2	02.04.2024	96	370	466
3	FE3	02.04.2024	95	379	474
CPCB Standards			1200		

M. Rout

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For Prakash industries Ltd

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Report No.: PIL/CEMC/020524/WZNL

Date: 02.05.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : April 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Work Zone Noise Level

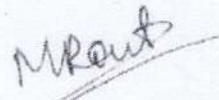
WZNL1 – Near Screening Plant

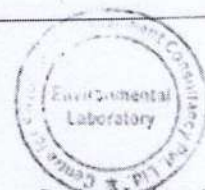
WZNL2 – Near Crushing Plant

WZNL3 – Near Quarry

ANALYSIS RESULTS OF WORK ZONE NOISE LEVEL

Sl. no.	Time(Hrs)	Results in dB(A) Leq.		
		WZNL1	WZNL2	WZNL3
		05.04.2024	06.04.2024	08.04.2024
1	8.00AM	63.1	61.4	60.3
2	9.00AM	66.6	63.1	64.1
3	10.00AM	71.8	67.2	67.5
4	11.00AM	73.2	71.4	69.9
5	12.00AN	70.1	69.1	71.1
6	1.00PM	68.4	67.7	68.3
7	2.00PM	66	64.3	65.6
8	3.00PM	59.3	61.1	60.1
Max.		73.2	71.4	71.1
Min.		59.3	61.1	60.1
Avg.		66.1	64.0	64.3
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		


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Report No.: PIL/CEMC/010624/FE

Date: 01.06.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : May 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Fugitive Emission

FE1 – Near Screening Plant

FE2 – Near Crushing Plant

FE3 – Near Quarry

ANALYSIS RESULTS OF FUGITIVE EMISSIONS

Sl. no.	Station Code	Date of Monitoring	Results		
			RSPM ($\mu\text{g}/\text{m}^3$)	NRSPM($\mu\text{g}/\text{m}^3$)	TSPM ($\mu\text{g}/\text{m}^3$)
1	FE1	02.05.2024	98	396	494
2	FE2	02.05.2024	95	382	477
3	FE3	02.05.2024	96	390	486
CPCB Standards			1200		

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Report No.: PIL/CEMC/010624/WZNL

Date: 01.06.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : May 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Work Zone Noise Level

WZNL1 – Near Screening Plant

WZNL2 – Near Crushing Plant

WZNL3 – Near Quarry

ANALYSIS RESULTS OF WORK ZONE NOISE LEVEL

Sl. no.	Time(Hrs)	Results in dB(A) Leq.		
		WZNL1	WZNL2	WZNL3
		06.05.2024	07.05.2024	08.05.2024
1	8.00AM	52.8	55.2	62.3
2	9.00AM	55.6	58.6	65.8
3	10.00AM	58.2	60.3	68.2
4	11.00AM	60.6	63.4	70.3
5	12.00AN	62.4	65.8	66.1
6	1.00PM	57.6	61.2	62.1
7	2.00PM	55.1	59.4	59.4
8	3.00PM	53.6	56.7	56.3
Max.		62.4	65.8	70.3
Min.		52.8	55.2	56.3
Avg.		55.1	58.3	62.7
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

MRout

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Report No.: PIL/CEMC/010724/FE

Date: 01.07.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : June 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Fugitive Emission

FE1 – Near Screening Plant

FE2 – Near Crushing Plant

FE3 – Near Quarry

ANALYSIS RESULTS OF FUGITIVE EMISSIONS

Sl. no.	Station Code	Date of Monitoring	Results		
			RSPM ($\mu\text{g}/\text{m}^3$)	NRSPM($\mu\text{g}/\text{m}^3$)	TSPM ($\mu\text{g}/\text{m}^3$)
1	FE1	04.06.2024	94	428	522
2	FE2	04.06.2024	89	414	503
3	FE3	04.06.2024	92	406	498
CPCB Standards			1200		

M. Rout

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MoEF&CC, Govt. of India, Recognized Environment Laboratory under Environment (Protection) Act, 1986.

Report No.: PIL/CEMC/010724/WZNL

Date: 01.07.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : June 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Work Zone Noise Level

WZNL1 – Near Screening Plant

WZNL2 – Near Crushing Plant

WZNL3 – Near Quarry

ANALYSIS RESULTS OF WORK ZONE NOISE LEVEL

Sl. no.	Time(Hrs)	Results in dB(A) Leq.		
		WZNL1	WZNL2	WZNL3
		07.06.2024	08.06.2024	10.06.2024
1	8.00AM	59.4	51.3	57.3
2	9.00AM	62.8	60.8	60.4
3	10.00AM	70.6	65.4	65.8
4	11.00AM	74.2	70.3	69.2
5	12.00AN	70.6	71.8	73.1
6	1.00PM	63.3	68.3	66.4
7	2.00PM	54.2	62.4	62.7
8	3.00PM	60.1	59.1	59.7
Max.		74.2	71.8	73.1
Min.		54.2	51.3	57.3
Avg.		65.4	64.0	64.1
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

MRout

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Seal of Laboratory

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Report No.: PIL/CEMC/010824/FE

Date: 01.08.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : July 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Fugitive Emission

FE1 – Near Screening Plant

FE2 – Near Crushing Plant

FE3 – Near Quarry

ANALYSIS RESULTS OF FUGITIVE EMISSIONS

Sl. no.	Station Code	Date of Monitoring	Results		
			RSPM ($\mu\text{g}/\text{m}^3$)	NRSPM($\mu\text{g}/\text{m}^3$)	TSPM ($\mu\text{g}/\text{m}^3$)
1	FE1	02.07.2024	92	340	432
2	FE2	02.07.2024	96	310	406
3	FE3	02.07.2024	98	366	464
CPCB Standards			1200		

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Report No.: PIL/CEMC/010824/WZNL

Date: 01.08.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : July 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Work Zone Noise Level

WZNL1 – Near Screening Plant

WZNL2 – Near Crushing Plant

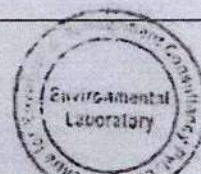
WZNL3 – Near Quarry

ANALYSIS RESULTS OF WORK ZONE NOISE LEVEL

Sl. no.	Time(Hrs)	Results in dB(A) Leq.		
		WZNL1	WZNL2	WZNL3
		06.07.2024	08.07.2024	09.07.2024
1	8.00AM	60.1	55.2	60.1
2	9.00AM	63.5	60.5	63.5
3	10.00AM	68.7	64.4	68.7
4	11.00AM	65.6	72.6	74.6
5	12.00AN	70.1	70.2	70.1
6	1.00PM	69.3	67.3	69.3
7	2.00PM	66.4	63.4	66.4
8	3.00PM	63.8	56.7	63.8
Max.		70.1	72.6	74.6
Min.		60.1	55.2	60.1
Avg.		64.0	64.1	66.1
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

M. Raut

Authorized Signatory



Seal of Laboratory

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Report No.: PIL/CEMC/140824/WZNL

Date: 14.08.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : August 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Work Zone Noise Level

WZNL1 – Near Screening Plant

WZNL2 – Near Crushing Plant

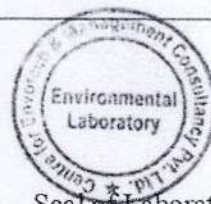
WZNL3 – Near Quarry

ANALYSIS RESULTS OF WORK ZONE NOISE LEVEL

Sl. no.	Time(Hrs)	Results in dB(A) Leq.		
		WZNL1	WZNL2	WZNL3
		07.08.2024	08.08.2024	09.08.2024
1	8.00AM	59.6	64.3	62.3
2	9.00AM	64.5	68.5	68.4
3	10.00AM	69.2	72.8	70.6
4	11.00AM	72.4	75.6	71.4
5	12.00AN	73.8	70.6	68.7
6	1.00PM	62.1	65.2	72.5
7	2.00PM	60.9	63.7	69.6
8	3.00PM	58.7	62.5	64.1
Max.		73.8	75.6	72.5
Min.		58.7	62.5	62.3
Avg.		65.5	67.2	66.5
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

M. K. Rout

Authorized Signatory



Seal of Laboratory

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Report No.: PIL/CEMC/160824/FE

Date: 16.08.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : August 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Fugitive Emission

FE1 – Near Screening Plant

FE2 – Near Crushing Plant

FE3 – Near Quarry

ANALYSIS RESULTS OF FUGITIVE EMISSIONS

Sl. no.	Station Code	Date of Monitoring	Results		
			RSPM ($\mu\text{g}/\text{m}^3$)	NRSPM($\mu\text{g}/\text{m}^3$)	TSPM ($\mu\text{g}/\text{m}^3$)
1	FE1	13.08.2024	94	242	336
2	FE2	13.08.2024	88	234	322
3	FE3	13.08.2024	89	216	305
CPCB Standards			1200 $\mu\text{g}/\text{m}^3$		
Testing Method			Gravimetric Method		

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Report No.: PIL/CEMC/230924/FE

Date: 23.09.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : September 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Fugitive Emission

FE1 – Near Screening Plant

FE2 – Near Crushing Plant

FE3 – Near Quarry

ANALYSIS RESULTS OF FUGITIVE EMISSIONS

Sl. no.	Station Code	Date of Monitoring	Results		
			RSPM ($\mu\text{g}/\text{m}^3$)	NRSPM($\mu\text{g}/\text{m}^3$)	TSPM ($\mu\text{g}/\text{m}^3$)
1	FE1	03.09.2024	92	214	306
2	FE2	09.09.2024	90	198	288
3	FE3	18.09.2024	94	170	264
CPCB Standards			1200 $\mu\text{g}/\text{m}^3$		
Testing Method			Gravimetric Method		

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Report No.: PIL/CEMC/210924/WZNL

Date: 21.09.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : September 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Work Zone Noise Level

WZNL1 – Near Screening Plant

WZNL2 – Near Crushing Plant

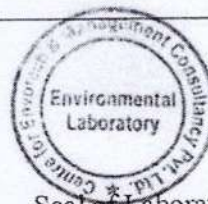
WZNL3 – Near Quarry

ANALYSIS RESULTS OF WORK ZONE NOISE LEVEL

Sl. no.	Time(Hrs)	Results in dB(A) Leq.		
		WZNL1	WZNL2	WZNL3
		03.09.2024	09.09.2024	18.09.2024
1	8.00AM	58.6	63.4	50.6
2	9.00AM	63.7	66.9	58.9
3	10.00AM	66.2	71.2	63.4
4	11.00AM	70.5	70.8	70.1
5	12.00AN	72.8	70.2	73.6
6	1.00PM	69.4	68.4	66.4
7	2.00PM	65.6	66.3	62.8
8	3.00PM	62.1	64.7	60.7
Max.		72.8	71.2	73.6
Min.		58.6	63.4	50.6
Avg.		65.1	65.5	64.4
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

M. Rout

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Notes:

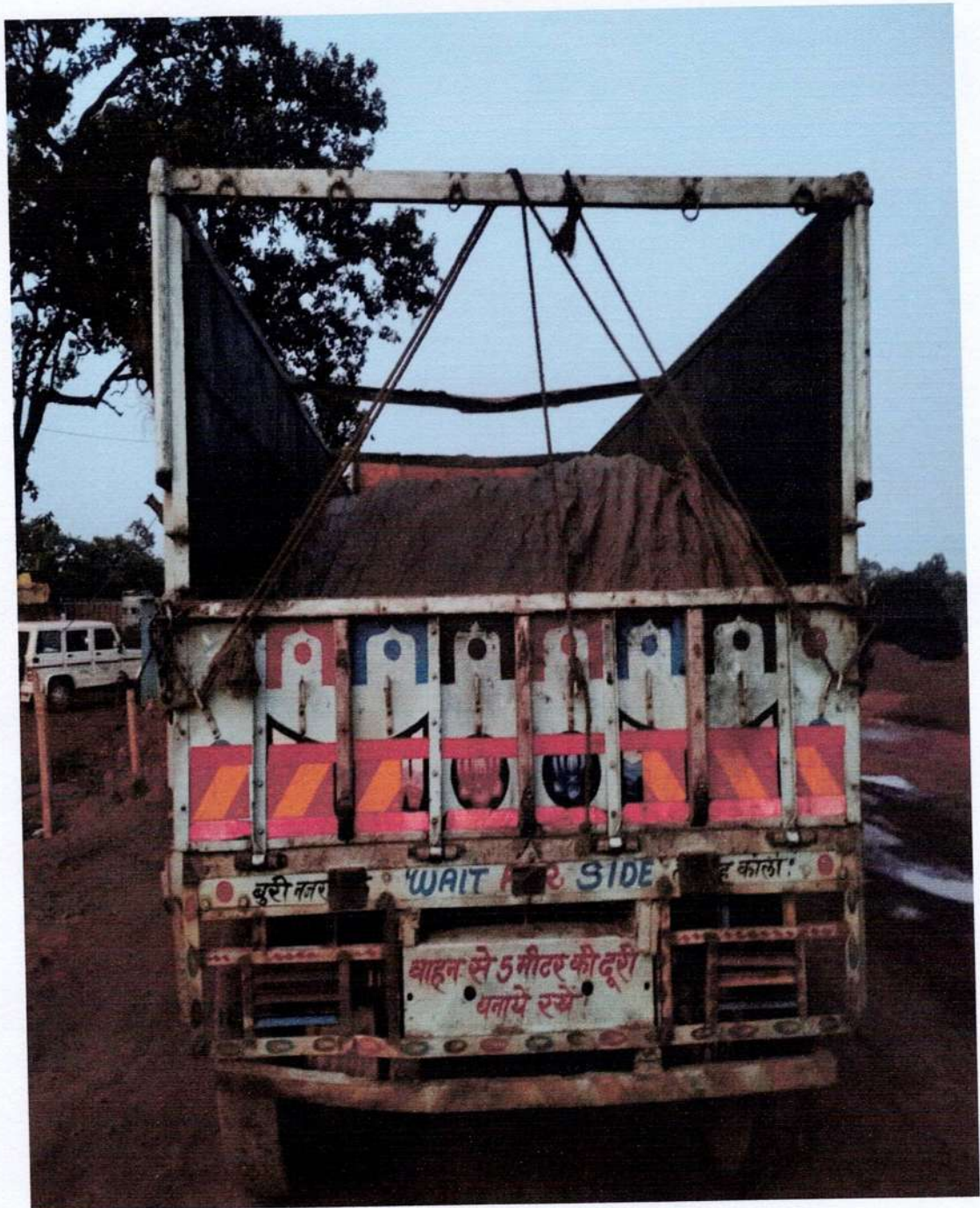
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Photographs of covered truck with tarpaulin



For Prakash Industries Ltd.

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Report No.: PIL/CEMC/020524/SW

Date: 02.05.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : April 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Surface Water
SW1 – New Sirkaguttu
SW2 – Kaijorhanala
- Date of Sampling : 01.04.2024

ANALYSIS RESULTS OF SURFACE WATER

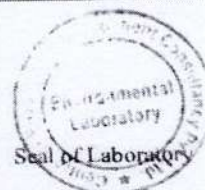
Sl. no.	Parameters	Unit	SW1	SW2
1.	pH value	----	7.48	7.42
2.	Temperature	°C	19	20
3.	Suspended Solids	mg/l	28	22
4.	Turbidity	NTU	8	6
5.	Total Dissolved Solids	mg/l	150	162
6.	Electrical Conductivity(EC)	µmhos/cm	224	232
7.	Alkalinity (as CaCO ₃)	mg/l	66	60
8.	Total Hardness (as CaCO ₃)	mg/l	52	46
9.	Calcium (as Ca)	mg/l	11.6	14.8
10.	Chloride (as Cl)	mg/l	16	20
11.	Fluoride (as F)	mg/l	<0.05	<0.05
12.	Sulfate (as SO ₄)	mg/l	8	14
13.	Magnesium (as Mg)	mg/l	5.2	4.4
14.	Nitrate (as NO ₃)	mg/l	0.03	0.02
15.	Phosphate	mg/l	0.22	0.26
16.	Dissolved Oxygen as O ₂	mg/l	5.4	5.6
17.	Sulfide (as S)	mg/l	<0.1	<0.1
18.	BOD, 3 days at 27°C	mg/l	6.4	6.8
19.	COD	mg/l	14.8	15.2
20.	Copper(as Cu)	mg/l	<0.03	<0.03
21.	Nickel (as Ni)	mg/l	<0.05	<0.05
22.	Manganese (as Mn)	mg/l	<0.05	<0.05
23.	Cadmium (as Cd)	mg/l	<0.003	<0.003
24.	Chromium(VI)	mg/l	<0.002	<0.002
25.	Total Chromium	mg/l	<0.002	<0.002
26.	Lead (as Pb)	mg/l	<0.01	<0.01
27.	Zinc (as Zn)	mg/l	<0.05	<0.05
28.	Iron (as Fe)	mg/l	0.26	0.24

M. Prakash

Authorized Signatory

Notes:

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For Prakash Industries Ltd.

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Report No.: PIL/CEMC/010624/SW

Date: 01.06.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : May 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Surface Water
SW1 – New Sirkaguttu
SW2 – Kajjorhanala
- Date of Sampling : 01.05.2024

ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	SW1	SW2
1.	pH value	---	7.56	7.48
2.	Temperature	°C	20	22
3.	Suspended Solids	mg/l	32	26
4.	Turbidity	NTU	10	8
5.	Total Dissolved Solids	mg/l	156	168
6.	Electrical Conductivity(EC)	µmhos/cm	232	244
7.	Alkalinity (as CaCO ₃)	mg/l	72	68
8.	Total Hardness (as CaCO ₃)	mg/l	56	52
9.	Calcium (as Ca)	mg/l	13.4	16.2
10.	Chloride (as Cl)	mg/l	18	24
11.	Fluoride (as F)	mg/l	<0.05	<0.05
12.	Sulfate (as SO ₄)	mg/l	10	16
13.	Magnesium (as Mg)	mg/l	5.8	4.6
14.	Nitrate (as NO ₃)	mg/l	0.04	0.03
15.	Phosphate	mg/l	0.24	0.28
16.	Dissolved Oxygen as O ₂	mg/l	5.8	6.2
17.	Sulfide (as S)	mg/l	<0.1	<0.1
18.	BOD, 3 days at 27°C	mg/l	6.6	6.4
19.	COD	mg/l	14.2	15.8
20.	Copper(as Cu)	mg/l	<0.03	<0.03
21.	Nickel (as Ni)	mg/l	<0.05	<0.05
22.	Manganese (as Mn)	mg/l	<0.05	<0.05
23.	Cadmium (as Cd)	mg/l	<0.003	<0.003
24.	Chromium(VI)	mg/l	<0.002	<0.002
25.	Total Chromium	mg/l	<0.002	<0.002
26.	Lead (as Pb)	mg/l	<0.01	<0.01
27.	Zinc (as Zn)	mg/l	<0.05	<0.05
28.	Iron (as Fe)	mg/l	0.22	0.26

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Report No.: PIL/CEMC/010724/SW

Date: 01.07.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : June 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Surface Water
SW1 – New Sirkaguttu
SW2 – Kaijorhanala
- Date of Sampling : 03.06.2024

ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	SW1	SW2
1.	pH value	---	7.42	7.52
2.	Temperature	°C	19	21
3.	Suspended Solids	mg/l	36	30
4.	Turbidity	NTU	12	10
5.	Total Dissolved Solids	mg/l	164	172
6.	Electrical Conductivity(EC)	µmhos/cm	248	266
7.	Alkalinity (as CaCO ₃)	mg/l	76	70
8.	Total Hardness (as CaCO ₃)	mg/l	60	54
9.	Calcium (as Ca)	mg/l	15.2	18.4
10.	Chloride (as Cl)	mg/l	22	28
11.	Fluoride (as F)	mg/l	<0.05	<0.05
12.	Sulfate (as SO ₄)	mg/l	14	18
13.	Magnesium (as Mg)	mg/l	6.4	5.2
14.	Nitrate (as NO ₃)	mg/l	0.05	0.04
15.	Phosphate	mg/l	0.26	0.30
16.	Dissolved Oxygen as O ₂	mg/l	5.4	5.8
17.	Sulfide (as S)	mg/l	<0.4	<0.4
18.	BOD, 3 days at 27°C	mg/l	6.2	6.6
19.	COD	mg/l	13.6	14.8
20.	Copper(as Cu)	mg/l	<0.005	<0.005
21.	Nickel (as Ni)	mg/l	<0.005	<0.005
22.	Manganese (as Mn)	mg/l	<0.005	<0.005
23.	Cadmium (as Cd)	mg/l	<0.005	<0.005
24.	Chromium(VI)	mg/l	<0.05	<0.05
25.	Total Chromium	mg/l	<0.005	<0.005
26.	Lead (as Pb)	mg/l	<0.005	<0.005
27.	Zinc (as Zn)	mg/l	<0.005	<0.005
28.	Iron (as Fe)	mg/l	0.24	0.28

M. Raut

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Report No.: PIL/CEMC/010724/GW

Date: 01.07.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : June 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Ground Water
GW1 – Malangtoli
GW2 – Kadakala
GW3 – Sirkaguttu
GW4 - Kaijorha
- Date of Sampling : 03.06.2024

ANALYSIS RESULTS OF GROUND WATER

Ground Water Quality- Organoleptic and Physical Parameters

Sl. no.	Parameters	Unit	Norms		GW1	GW2	GW3	GW4
			Acceptable Limit	Permissible Limit				
1.	Color, max	Hazen	5	15	<5	<5	<5	<5
2.	Taste		Agreeable	Agreeable	Agr.	Agr.	Agr.	Agr.
3.	pH value	--	6.5-8.5	No relaxation	7.06	7.18	7.14	7.08
4.	Conductivity	µmhos/cm	--	--	36	40	44	38
5.	Turbidity, max	NTU	1	5	<1	<1	<1	<1
6.	Total Dissolved Solids, max	mg/l	500	2000	232	246	226	230

Ground Water Quality- General Parameters Concerning substances Undesirable in Excessive Amounts

Sl. no.	Parameters	Unit	Norms		GW1	GW2	GW3	GW4
			Acceptable Limit	Permissible Limit				
1.	Total Alkalinity, max	mg/l	200	600	126	122	134	128
2.	Total Hardness, max	mg/l	200	600	142	156	146	138
3.	Calcium, max	mg/l	75	200	22.6	28.2	24.6	30.2
4.	Chloride, max	mg/l	250	1000	38.6	42.8	36.4	40.4
5.	Fluoride, max	mg/l	1.0	1.5	0.14	0.12	0.18	0.08
6.	Sulphate, max	mg/l	200	400	46	52	42	50
7.	Iron, max	mg/l	0.3	No relaxation	0.22	0.24	0.18	0.20
8.	Zinc, max	mg/l	5	15	0.26	0.14	0.24	0.18
9.	Nitrate, max	mg/l	45	No relaxation	0.26	0.30	0.34	0.28
10.	Free Residual Chlorine, min	mg/l	0.2	1.0	ND	ND	ND	ND
11.	Phenolic Compound, max	mg/l	0.001	0.002	<0.01	<0.01	<0.01	<0.01
12.	Manganese, max	mg/l	0.1	0.3	0.008	0.010	0.016	0.014
13.	Copper, max	mg/l	0.05	1.5	<0.005	<0.005	<0.005	<0.005
14.	Boron, max	mg/l	0.5	1.0	<0.2	<0.2	<0.2	<0.2

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Ground Water Quality - Parameters Concerning Toxic Substances

Sl. no.	Parameters	Unit	Norms		GW1	GW2	GW3	GW4
			Acceptable Limit	Permissible Limit				
1.	Nickel, <i>max</i>	mg/l	0.02	No relaxation	<0.005	<0.005	<0.005	<0.005
2.	Cadmium, <i>max</i>	mg/l	0.003	No relaxation	<0.005	<0.005	<0.005	<0.005
3.	Cyanide, <i>max</i>	mg/l	0.05	No relaxation	ND	ND	ND	ND
4.	Total Chromium, <i>max</i>	mg/l	0.05	No relaxation	<0.005	<0.005	<0.005	<0.005
5.	Hexavalent Chromium	mg/l	\$	\$	<0.05	<0.05	<0.05	<0.05
6.	Lead, <i>max</i>	mg/l	0.01	No relaxation	<0.005	<0.005	<0.005	<0.005

Ground Water Quality- Bacteriological Quality of Drinking Water

Sl. no.	Parameters	Unit	Norms	GW1	GW2	GW3	GW4
1.	Coliform Organism(E.Coli)	MPN/100ml	Shall not be detectable in any 100ml sample	Absent	Absent	Absent	Absent
2.	Fecal Coliform	MPN/100ml	Shall not be detectable in any 100ml sample	Absent	Absent	Absent	Absent
3.	Total Coliform	MPN/100ml	Shall not be detectable in any 100ml sample	Absent	Absent	Absent	Absent

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Report No.: PIL/CEMC/010824/SW

Date: 01.08.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : July 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Surface Water
SW1 – New Sirkaguttu
SW2 – Kaijorhanala
- Date of Sampling : 01.07.2024

ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	SW1	SW2
1.	pH value	---	7.38	7.46
2.	Temperature	°C	18	20
3.	Suspended Solids	mg/l	42	36
4.	Turbidity	NTU	14	12
5.	Total Dissolved Solids	mg/l	174	180
6.	Electrical Conductivity(EC)	µmhos/cm	256	270
7.	Alkalinity (as CaCO ₃)	mg/l	80	74
8.	Total Hardness (as CaCO ₃)	mg/l	62	56
9.	Calcium (as Ca)	mg/l	16.8	20.2
10.	Chloride (as Cl)	mg/l	24	30
11.	Fluoride (as F)	mg/l	<0.05	<0.05
12.	Sulfate (as SO ₄)	mg/l	16	20
13.	Magnesium (as Mg)	mg/l	7.2	6.8
14.	Nitrate (as NO ₃)	mg/l	0.06	0.05
15.	Phosphate	mg/l	0.28	0.32
16.	Dissolved Oxygen as O ₂	mg/l	5.2	5.6
17.	Sulfide (as S)	mg/l	<0.4	<0.4
18.	BOD, 3 days at 27°C	mg/l	6.6	6.8
19.	COD	mg/l	13.8	15.2
20.	Copper(as Cu)	mg/l	<0.005	<0.03
21.	Nickel (as Ni)	mg/l	<0.005	<0.05
22.	Manganese (as Mn)	mg/l	8.4	8.2
23.	Cadmium (as Cd)	mg/l	<0.005	<0.003
24.	Chromium(VI)	mg/l	<0.005	<0.05
25.	Total Chromium	mg/l	<0.005	<0.005
26.	Lead (as Pb)	mg/l	<0.005	<0.01
27.	Zinc (as Zn)	mg/l	<0.005	<0.05
28.	Iron (as Fe)	mg/l	0.26	0.22

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Report No.: PIL/CEMC/240824/SW

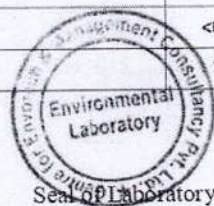
Date: 24.08.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : August 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Surface Water(SW1 – New Sirkaguttu, SW2 – Kaijorhanala)
- Date of Sampling : 17.08.2024

ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	Testing Methods	SW1	SW2
1.	pH value	----	pH Meter APHA24th Ed 4500-H-B: 2023	7.44	7.52
2.	Temperature	°C	By Thermometer APHA24th Ed 2550 B: 2023	16	15
3.	Suspended Solids	mg/l	Gravimetric Method APHA24th Ed 2540 D: 2023	44	40
4.	Turbidity	NTU	Nephelometric Method APHA24th Ed 2130B: 2023	16	14
5.	Total Dissolved Solids	mg/l	Gravimetric Method APHA24th Ed 2540 C: 2023	184	188
6.	Electrical Conductivity(EC)	µmhos/cm	Conductivity Meter APHA24th Ed 2510B: 2023	268	275
7.	Alkalinity (as CaCO ₃)	mg/l	Titration Method APHA24th Ed 2320B: 2023	84	78
8.	Total Hardness (as CaCO ₃)	mg/l	EDTA Titrimetric Method APHA24th Ed 2340C: 2023	66	60
9.	Calcium (as Ca)	mg/l	EDTA Titrimetric Method APHA24th Ed 3500-Ca-B: 2023	14.4	18.6
10.	Chloride (as Cl)	mg/l	Argentometric Method APHA24th Ed 4500-Cl-B: 2023	26	34
11.	Fluoride (as F)	mg/l	Distillation followed by Spectrophotometric Method APHA24th Ed 4500-F-D: 2023	<0.05	<0.05
12.	Sulfate (as SO ₄)	mg/l	Turbidimetric Method APHA24th Ed 4500-SO ₄ -E: 2023	18	22
13.	Magnesium (as Mg)	mg/l	Calculation Method APHA24th Ed 3500Mg-B: 2023	7.8	7.2
14.	Nitrate (as NO ₃)	mg/l	By UV -Screen Method APHA24th Ed 4500-NO ₃ -B: 2023	0.07	0.06
15.	Phosphate	mg/l	Stannous Chloride Method APHA24th Ed 4500-P-D: 2023	0.30	0.34
16.	Dissolved Oxygen as O ₂	mg/l	Modified Winkler Method APHA24th Ed 4500-OC: 2023	5.4	5.8
17.	Sulfide (as S)	mg/l	By Iodometric Method APHA24th Ed 4500-S ₂ -F: 2023	<0.4	<0.4
18.	BOD, 3 days at 27°C	mg/l	Oxygen Depletion Method IS 3025(P-44):1993	6.8	7.2
19.	COD	mg/l	Open Reflux Method APHA24th Ed 5220 B: 2023	14.4	16.6
20.	Copper(as Cu)	mg/l	By ICP Method APHA24th Ed 3120B: 2023	<0.005	<0.005
21.	Nickel (as Ni)	mg/l	By ICP Method APHA24th Ed 3120B: 2023	<0.005	<0.005
22.	Manganese (as Mn)	mg/l	ICP Method APHA24th Ed 3120B: 2023	8.9	8.6
23.	Cadmium (as Cd)	mg/l	ICP Method APHA24th Ed 3120B: 2023	<0.005	<0.005
24.	Chromium(VI)	mg/l	By Diphenyl Carbazide Method APHA24th Ed 3500-CrB: 2023	<0.05	<0.05
25.	Total Chromium	mg/l	By ICP Method APHA24th Ed 3120B: 2023	<0.005	<0.005
26.	Lead (as Pb)	mg/l	By ICP Method APHA24th Ed 3120B: 2023	<0.005	<0.005
27.	Zinc (as Zn)	mg/l	By ICP Method APHA24th Ed 3120B: 2023	<0.005	<0.005
28.	Iron (as Fe)	mg/l	By ICP Method APHA24th Ed 3120B: 2023	0.28	0.24

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Report No.: PIL/CEMC/250924/GW

Date: 25.09.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : September 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Date of Sampling : 18.09.2024
- Type of Sample : Ground Water
GW1 – Malangtoli
GW2 – Kadakala
GW3 – Sirkaguttu
GW4 – Kaijorha

ANALYSIS RESULTS OF GROUND WATER

Ground Water Quality- Organoleptic and Physical Parameters

Sl. no.	Parameters	Unit	Norms		GW1	GW2	GW3	GW4
			Acceptable Limit	Permissible Limit				
1.	Color, <i>max</i>	Hazen	5	15	<5	<5	<5	<5
2.	Taste		Agreeable	Agreeable	Agr.	Agr.	Agr.	Agr.
3.	pH value	--	6.5-8.5	No relaxation	7.12	7.06	7.16	7.05
4.	Conductivity	µmhos/cm	--	--	54	66	58	46
5.	Turbidity, <i>max</i>	NTU	1	5	<1	<1	<1	<1
6.	Total Dissolved Solids, <i>max</i>	mg/l	500	2000	228	242	234	236

Ground Water Quality- General Parameters Concerning Substances Undesirable in Excessive Amounts

Sl. no.	Parameters	Unit	Norms		GW1	GW2	GW3	GW4
			Acceptable Limit	Permissible Limit				
1.	Total Alkalinity, <i>max</i>	mg/l	200	600	132	128	122	136
2.	Total Hardness, <i>max</i>	mg/l	200	600	124	142	152	128
3.	Calcium, <i>max</i>	mg/l	75	200	18.4	22.6	20.8	26.4
4.	Chloride, <i>max</i>	mg/l	250	1000	44.8	34.4	30.8	36.2
5.	Fluoride, <i>max</i>	mg/l	1.0	1.5	0.06	0.10	0.16	0.12
6.	Sulphate, <i>max</i>	mg/l	200	400	38	46	34	42
7.	Iron, <i>max</i>	mg/l	0.3	No relaxation	0.16	0.22	0.24	0.14
8.	Zinc, <i>max</i>	mg/l	5	15	0.18	0.26	0.16	0.20
9.	Nitrate, <i>max</i>	mg/l	45	No relaxation	0.22	0.36	0.26	0.24
10.	Free Residual Chlorine, <i>min</i>	mg/l	0.2	1.0	ND	ND	ND	ND
11.	Phenolic Compound, <i>max</i>	mg/l	0.001	0.002	<0.01	<0.01	<0.01	<0.01
12.	Manganese, <i>max</i>	mg/l	0.1	0.3	0.006	0.012	0.008	0.016
13.	Copper, <i>max</i>	mg/l	0.05	1.5	<0.005	<0.005	<0.005	<0.005
14.	Boron, <i>max</i>	mg/l	0.5	1.0	<0.2	<0.2	<0.2	<0.2

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS & GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: Plot No-522/3458, Near Utkal Hyundai, Opposite APEX Collage, Pahal, Bhubaneswar-752101, Odisha,
E-mail- ccmc_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in, Mobile: 8763703371

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: cemclab@yahoo.in, Mobile: 7752014842



CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001:2015 & BS OHSAS 45001:2018 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha
Enlisted in Construction Industry Development Council (CIDC), established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognized Environment Laboratory under Environment (Protection) Act, 1986.

Ground Water Quality - Parameters Concerning Toxic Substances

Sl. no.	Parameters	Unit	Norms		GW1	GW2	GW3	GW4
			Acceptable Limit	Permissible Limit				
1.	Nickel, max	mg/l	0.02	No relaxation	<0.005	<0.005	<0.005	<0.005
2.	Cadmium, max	mg/l	0.003	No relaxation	<0.005	<0.005	<0.005	<0.005
3.	Cyanide, max	mg/l	0.05	No relaxation	ND	ND	ND	ND
4.	Total Chromium, max	mg/l	0.05	No relaxation	<0.005	<0.005	<0.005	<0.005
5.	Hexavalent Chromium	mg/l	\$	\$	<0.05	<0.05	<0.05	<0.05
6.	Lead, max	mg/l	0.01	No relaxation	<0.005	<0.005	<0.005	<0.005

Ground Water Quality- Bacteriological Quality of Drinking Water

Sl. no.	Parameters	Unit	Norms		GW1	GW2	GW3	GW4
			Acceptable Limit	Permissible Limit				
1.	Coliform Organism(E.Coli)	MPN/100ml	--	--	Nil	Nil	Nil	Nil
2.	Fecal Coliform	MPN/100ml	--	--	Nil	Nil	Nil	Nil
3.	Total Coliform	MPN/100ml	--	--	Nil	Nil	Nil	Nil

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Seal of Laboratory

Notes:

- The results relate only to the sample tested.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS & GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Report No.: PIL/CEMC/250924/SW

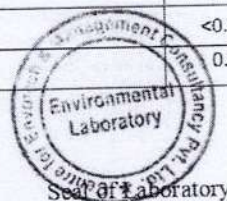
Date: 25.09.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : September 2024
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Surface Water(SW1 – New Sirkaguttu, SW2 – Kaijorhanala)
- Date of Sampling : 18.09.2024

ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	Testing Methods	SW1	SW2
1.	pH value	----	pH Meter APHA24th Ed 4500-H+B: 2023	7.48	7.56
2.	Temperature	oC	By Thermometer APHA24th Ed 2550 B: 2023	14	12
3.	Suspended Solids	mg/l	Gravimetric Method APHA24th Ed 2540 D: 2023	46	42
4.	Turbidity	NTU	Nephelometric Method APHA24th Ed 2130B: 2023	20	16
5.	Total Dissolved Solids	mg/l	Gravimetric Method APHA24th Ed 2540 C: 2023	190	194
6.	Electrical Conductivity(EC)	µmhos/cm	Conductivity Meter APHA24th Ed 2510B: 2023	274	289
7.	Alkalinity (as CaCO ₃)	mg/l	Titration Method APHA24th Ed 2320B: 2023	86	82
8.	Total Hardness (as CaCO ₃)	mg/l	EDTA Titrimetric Method APHA24th Ed 2340C: 2023	70	64
9.	Calcium (as Ca)	mg/l	EDTA Titrimetric Method APHA24th Ed 3500-Ca-B: 2023	16.2	20.6
10.	Chloride (as Cl)	mg/l	Argentometric Method APHA24th Ed 4500-Cl-B: 2023	28	36
11.	Fluoride (as F)	mg/l	Distillation followed by Spectrophotometric Method APHA24th Ed 4500-F-D: 2023	<0.05	<0.05
12.	Sulfate (as SO ₄)	mg/l	Turbidimetric Method APHA24th Ed 4500-SO4-E: 2023	20	24
13.	Magnesium (as Mg)	mg/l	Calculation Method APHA24th Ed 3500-Mg-B: 2023	8.4	7.6
14.	Nitrate (as NO ₃)	mg/l	By UV –Screen Method APHA24th Ed 4500-NO3-B: 2023	0.08	0.07
15.	Phosphate	mg/l	Stannous Chloride Method APHA24th Ed, 4500 P.D: 2023	0.32	0.36
16.	Dissolved Oxygen as O ₂	mg/l	Modified Winkler Method APHA24th Ed 4500-OC: 2023	5.2	5.6
17.	Sulfide (as S)	mg/l	By Iodometric Method APHA24th Ed 4500-S2-F: 2023	<0.4	<0.4
18.	BOD, 3 days at 27°C	mg/l	Oxygen Depletion Method IS 3025(P-44):1993	6.4	7.6
19.	COD	mg/l	Open Reflux Method APHA24th Ed 5220 B: 2023	14.8	16.8
20.	Copper(as Cu)	mg/l	By ICP Method APHA24th Ed, 3120B: 2023	<0.005	<0.005
21.	Nickel (as Ni)	mg/l	By ICP Method APHA24th Ed, 3120B: 2023	<0.005	<0.005
22.	Manganese (as Mn)	mg/l	ICP Method APHA24th Ed, 3120B: 2023	0.028	0.024
23.	Cadmium (as Cd)	mg/l	ICP Method APHA24th Ed, 3120B: 2023	<0.005	<0.005
24.	Chromium(VI)	mg/l	By Diphenyl Carbazide Method APHA24th Ed 3500-CrB: 2023	<0.05	<0.05
25.	Total Chromium	mg/l	By ICP Method APHA24th Ed 3120B: 2023	<0.005	<0.005
26.	Lead (as Pb)	mg/l	By ICP Method APHA24th Ed, 3120B: 2023	<0.005	<0.005
27.	Zinc (as Zn)	mg/l	By ICP Method APHA24th Ed, 3120B: 2023	<0.005	<0.005
28.	Iron (as Fe)	mg/l	By ICP Method APHA24th Ed 3120B: 2023	0.32	0.26

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EXPENSES INCURRED FOR ENVIRONMENTAL MANAGEMENT
(For the Period of April 2024 to September 2024)

Sl. No.	Details of Measures Taken	Allocated Budget (In Rs.)	Expenses (In Rs.)
A.	Water Pollution Control/Water Management		
	Construction of retaining wall, Garland drain, Settling pond around the dump & stock yard.	Rs.3,19,700/-	Rs.3,19,700/-
	(A) Sub Total Rs.	Rs.3,19,700/-	Rs.3,19,700/-
B.	Air Pollution Control/Air Management		
1.	Water sprinkling on haul road and our working plants by movable water tanker, dry fog system in screen plant & crusher plant.	Rs.8,58,000/-	Rs.8,58,000/-
2.	Wheel washer construction work (Already constructed)		
	(B) Sub Total Rs.	Rs.8,58,000/-	Rs.8,58,000/-
C.	Solid/Hazardous Waste Management		
1	Disposal of Solid Waste	Rs.49,35,000/-	Rs.49,35,000/-
	(C) Sub Total Rs.	Rs.49,35,000/-	Rs.49,35,000/-
D.	Other Areas		
1	Environmental consultant for Environmental monitoring	Rs.1,41,600/-	Rs.1,41,600/-
2	Maintenance of Plants	Rs.95,133/-	Rs.95,133/-
3	Housekeeping work.	Rs.1,44,000/-	Rs.1,44,000/-
	(D) Sub Total Rs.	Rs.3,80,733/-	Rs.3,80,733/-
	GRAND TOTAL (A+B+C+D) Rs.	Rs.64,93,433/-	Rs.64,93,433/-

For Prakash Industries Ltd

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SIRKAGUTTU IRON & MANGANESE ORE MINES

Compliance status on Environmental Clearance vide letter No. SEIAA/2401 dated. 06.01.2017
for Production of Iron & Manganese Ore -1.325 MTPA

Sl. No.	Condition as per Environmental Clearance dated. 06.01.2017	Current status of Compliance
1	The applicant (Project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by him in Form-1, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.	Project proponent has consented to the conditions.
2	The applicant will take necessary steps for socio-economic development of the people of the area on need based assessment for providing employment, education, health care, drinking water and sanitation, road and communication facilities etc.	Project proponent is taking all necessary steps for socio-economic development of the people of the area on need based assessment for the overall development of the affected village & nearby villages.
3	The applicant will comply to the points, concerns and issues raised by the people during public hearing on 24.06.2016 in accordance with the commitments made by him thereon.	<p>As per the commitment made during the public hearing, the Project Proponent has under taken following works: (1) Medical treatment & Supply of medicines to the people of nearby villages and workers of the mine is being provided in free of cost regularly by establishing a Health Care centre at the mine with full time Pharmacist.</p> <p>(2) Drinking Water is being supplied to the nearby villages with the help of water tankers.</p> <p>(3) More than 122 local personnel's have been engaged in the mine for the Mining Operations.</p> <p>(4) 6 Nos. of Teachers have been appointed in the local schools for promotion of Education.</p> <p>(5) Connecting road to the villages are being maintained regularly to keep it always in motorable condition.</p> <p>(6) Sprinkling of water is being carried out with the help of water tankers for suppression of dust on transportation road as well as inside Mine Roads.</p>

For Prakash Industries Ltd.


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		(7) Financial assistance is being provided to the village people for promotion of social & cultural programme etc. Family Compensation to 163 families @ Rs. 3000/- per family per month is being paid. Compliance of the same is attached as Annexure – I.
4	The applicant will take statutory clearance/ approval/ permissions from the concerned authorities in respect of his project as and when required.	Project proponent has consented to the conditions.
5	For post environmental clearance monitoring, the applicant will submit half-yearly compliance report in respect of the stipulated terms and conditions of Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Odisha, State Pollution Control Board (SPCB), Odisha & Regional Office of the Ministry of Environment & Forest, Odisha on 1st June and 1st December of each calendar year.	Complied. Six monthly compliance report for the period from October 2023 to March 2024 has been submitted to the SEIAA, SPCB & RO, MoEF&CC vide letter no. PIL/SIOM/KJR/2024-25/93, date 31.05.2024. Presently we are submitting the compliance report from April – 2024 to September – 2024.
6	The core zone should be monitored intensively with no. of stations as prescribed by CPCB, Delhi and unit of pollutant level should be expressed as NAAQ of CPCB, Delhi. The detailed methodology adopted for analysis of samples shall be clearly indicated.	Complied. Project Proponent has installed two AAQ stations within the core zone. Monitoring and analysis are carried out regularly and parameters are within the prescribed norms. Environmental monitoring is being carried out by MOEF&CC accredited laboratory, "Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar" and analysis report & the monitoring reports are being submitted to SPCB regularly. Details of monitoring datas are given as Annexure – II.
7	The proponent shall submit baseline data on flora & fauna and CSR activities already carried out within three months to the SEIAA.	Complied. The list of CSR activities undertaken is enclosed as Annexure – III.
8	Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.	Project Proponent has installed one AAQ station in buffer zone Monitoring and analysis are carried out regularly.
9	The following shall be implemented viz. (a) dump run-off should be diverted into settling ponds (b) adequate rain water harvesting and ground water recharging facilities should be developed in the core zone; (c) attempt should be made to achieve zero water balance.	Project proponent has consented to the conditions. Project proponent has provided settling pond & garland drain as per requirement. The location of rainwater harvesting system have been identified and recharge pits have been constructed. Project is maintaining zero discharge condition.
10	Maintenance of roads through which transportation of ores are undertaken shall be carried out by the project proponent regularly at	Project proponent has consented to the conditions. Maintenance of road is being carried out

	its own cost.	properly for transportation of Minerals.
11	Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records shall be submitted to the SEIAA, Odisha.	Project proponent has consented to the conditions. Project proponent has provided dry fog system at crushing & screening plants for control of fugitive dust generations. Apart from this, regular water sprinkling on haul roads is being carried out. Plantation programme has also been initiated in zone of the mine. Monitoring of dust emission is being carried out regularly and datas are being submitted to the SEIAA, Odisha. Details of monitoring data given as Annexure – IV .
12	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Complied. There is no any material handling points inside the mine. However, water tankers fitted with sprinklers have been engaged for control of dust at loading and unloading area. Maintenance of dust control system is also being carried out regularly to keep those always operational.
13	Transportation of ore shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore / dust takes place.	Complied. All the transporting trucks are covered with tarpaulin to prevent spillage of materials & emission of dust during transportation. The photographs of trucks with tarpaulin cover is enclosed as per Annexure – V .
14	Rain water harvesting shall be undertaken to recharge the ground water source.	Project proponent has consented to the conditions. The recharge pits have been constructed.
15	Monitoring of ground and surface water quality shall be regularly conducted and records should be maintained and data shall be submitted regularly to the SEIAA, Odisha.	Complied. The regular monitoring and analysis of surface water is being carried out by the MOEF&CC's accredited laboratory "Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar" All the parameters of the monitoring and analysis report are within the prescribed norms. The analysis reports are being submitted to SEIAA, Odisha regularly and details of analysis data given as per Annexure – VI .
16	The proponent shall ensure that no silt originating due to mining activity is transported in the surface water course. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be	Project proponent has consented to the condition. All precautions are being taken to check the silt & soil erosion. Construction of Retaining wall around the dump has been constructed for its protection. Thick

	carried out with geo textile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.	plantation of native trees and have been developed at the dump slopes.
17	Trenches / garland drains shall be constructed at foot of dumps to arrest silt from being carried to water bodies. Adequate number of Check Dams shall be constructed across seasonal/perennial nallahs (if any) flowing through the ML area and silts be arrested. De-silting at regular intervals shall be carried out.	Project proponent has consented to the conditions. Garland drains have been provided around dump area followed by settling pond at the end and de-silting of Garland drains & settling tank are being under taken as and when required. No seasonal as well as perennial nallas are flowing through the ML Area.
18	Provision shall be made for the housing of the labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied. Since all the labours are from the nearby villages, there is no need to provide infrastructural facilities within the ML area. Mobile toilets, mobile STP, safe drinking water, medical health care has been provided to the labours & workers. However, all facilities under Mines Act has been provided.
19	Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. The Proponent shall engage a full time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years or less) shall be conducted followed by follow up action wherever required. Occupational Health Centre shall be established near the mine site itself.	Project proponent has consented to the conditions. Project proponent has established a Health Care Centre at Mine with full time Pharmacist for checking health of workers and employees. Regular health check up and free medicine supply to workers is going on and records are being maintained. Initial Medical Examination of employees has been undertaken and all records of IME are kept at mines office.

20	Shelter belt i.e. Wind Break of 15 m width and consisting of at least 5 tiers around lease facing the human habitation, school / agricultural fields etc. (if any in the vicinity), in the safety zone/ back-filled & reclaimed areas, around voids & roads shall be raised. Green belt development and selection of plant species shall be as per CPCB guidelines. Density of the trees has to be around 2500 plants per hectare. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation. Help & guidance of local DFO may be sought in the matter. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the SEIAA, Odisha within six months.	Project proponent has consented to the conditions. Necessary steps have been initiated for development of green belt as per CPCB guidelines. Always prefers local species for green belt development. Project proponent has purchased 4590 nos. of seedlings from Forest department and these plants have been planted at mines and nearby areas till the month of December 2023. In this year 750 Plants have been planted.
21	This Environmental Clearance is subject to Forest Clearance under the Forest (Conservation) Act, 1980.	Complied. Forest Clearance (Stage II) has been obtained vide letter no. 5-ORB217/2014-BHU dated 12.02.2019.
22	The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table.	Project proponent has consented to the conditions.
23	The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long (not more than 3 years). The topsoil shall be used for land reclamation and plantation.	Project proponent has consented to the conditions. The top soil so generated is being kept over an identified area and is being used for plantation purpose in the safety zone.
24	The over burden (OB) generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and its phase-wise stabilization shall be carried out. Proper terracing of OB dump shall be carried out so that the overall slope shall not exceed 28°. Backfilling shall be done as per approved mining plan. Back-filling to start from 3rd year onwards of the mining operation & the entire quantity of waste generated shall be backfilled & liquidated within five years. There shall be no external over-burden dumps after the 6th year of the mining operation. The backfilled area shall be afforested. Back-filling has to be done in a manner that it is restored to the normal ground level. Monitoring & management of rehabilitated areas should continue till the vegetation is established & becomes self-generating. Compliance status to be reported to the appropriate authorities.	Project proponent has consented to the conditions. The operations of the mine started from November 2019. OB recovered till March 2024 is being dumped at the earmarked area. It will be used for back filling in proper manner after complete extraction of the mineral from the quarry area.
25	The funds earmarked for the environment	Complied.

	protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes. Year-wise expenditure for this fund should be reported to the SEIAA, Odisha.	Project proponent is keeping separate funds for implementation of various environmental protection measures. The funds earmarked for the environmental protection measures are not diverted for any other purposes. Fund allocated for environmental protection measures and expenses incurred are enclosed herewith as Annexure – VII .
26	The critical parameters in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, pH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	Project proponent has consented to the conditions. The regular monitoring of ambient air is being carried out by the MOEF&CC accredited laboratory, "Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar". All the parameters of the monitoring report are within the prescribed norms. The monitored data has been uploaded on the website of the company and displayed on a display board near main gate.
27	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the SEIAA 5 years in advance of final mine closure for approval.	Project proponent has consented to the conditions and shall be complied.
28	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) required for the project.	Complied. Necessary permission has been obtained from competent authorities for drawl of surface water of 32 KLD. Agreement with Govt. of Odisha (Water Resources Department) for drawl of surface water has been made. The required Government fee is being paid to the department regularly.
29	The project proponent shall prepare wild life conservation plan in consultation with DFO and adequate safety and mitigation measures should be incorporated to protect the wild life, flora, fauna to mitigate adverse impact.	Complied. The Site Specific WLCP has been approved on dated 25.07.2017 for protection of wild life, Flora & Fauna.
30	The Proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copy of the clearance letter is available in the website of the SEIAA, Odisha and the Odisha State Pollution	Complied. Project proponent has published it on 14.01.2017.

	Control Board (OSPCB) and may also be seen on the website of the Board. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of MoEF & CC, Bhubaneswar.	
31	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	Complied. The copy of environment clearance letter has been sent to concerned Panchayats, Zila Parisad/ Municipal Corporation, Urban Local Body.
32	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tahsildar's Office for 30 days.	Complied.
33	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall be put on the website of the company along with the status of compliance of Environmental Clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment, Forests and Climate Change, Bhubaneswar and SEIAA, Odisha by e-mail.	Complied. Environmental statement for the period of April 2023 to March 2024 has been submitted to MoEF & CC, SEIAA & SPCB vide PIL/SIOM/ENV-STATEMENT/ 2024/141 dated 12.06.2024.
34	The Proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Bhubaneswar, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied.
35	No change in mining technology and scope of working should be made without prior approval of the SEIAA, Odisha.	Project proponent has consented to the conditions.
36	No change in the calendar plan including excavation, quantum of mineral and waste should be made.	Project proponent has consented to the conditions.
37	The SEIAA, Odisha reserves the right to alter and modify the conditions and add additional safeguard measures or stipulate any further	Project proponent has consented to the conditions.

	condition subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner. The SEIAA, Odisha may revoke or suspend the order, if implementation of any of the stipulated conditions is not satisfactory.	
38	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Odisha and any other Court of Law relating to the subject matter.	Project proponent has consented to the conditions.
39	That the grant of this Environment Clearance is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time being in force, rests with the project proponent.	Project proponent has consented to the conditions.
40	Any appeal against the clearance lies with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Project proponent has consented to the conditions.

For Prakash Industries Ltd.

 Authorised Signatory