



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/2024-25/93

Date : 31.05.2024

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 October 2023 to March 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 October 2023 to March 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,

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 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 116 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> <p>(7) Financial assistance is being provided</p>

		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 April 2023 to September 2023 has been submitted to the SEIAA, SPCB & RO, MoEF&CC vide letter no. PIL/SIOM/KJR/ 2023-24/384 date 18.11.2023. Presently we are submitting the compliance report from October – 2023 to March – 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 data 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 its own cost.	Project proponent has consented to the conditions. Maintenance of road is being carried out 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 data 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 accredited laboratory "Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar". Parameters 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 carried out with geo textile matting or other suitable material, and thick plantations of native	Project proponent has consented to the condition and shall be complied. 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 plantation of native trees and shrubs will be developed at the dump slopes during

	trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.	rainy season.
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 undertaken as and when required. No seasonal as well as perennial nallahs 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. PP always prefers local species for green belt development. Project proponent have 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 are to be 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 development of 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 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.	Complied. 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". Parameters 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 permissions has been taken from competent authorities for drawl of surface water of 32 KLD. Agreement done with Govt. of Odisha (Water Resources Department) for drawl of surface water. The required Government fee also paid to the department.
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 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 2022 to March 2023 has been submitted to MoEF & CC, SEIAA & SPCB vide PIL/SIOM/ENV-STATEMENT/2023-24/120 dated 29.05.2023.
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

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.	63,34,115/-
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.	35,521/-
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.	6,42,122/-
4	Supply of drinking water	Two water tankers has 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.	5,76,000/-
5	Vocational education	For the promotion of education, the company has appointed four teachers in the local schools.	3,88,988/-
6	Employment	We have appointed 127 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.	2,12,05,038/-

For Prakash Industries Ltd.


 Authorised Signatory



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.

Report No.: PIL/CEMC/011123/AAQ

Date: 01.11.2023

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : October 2023
- 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	02.10.2023	52	32	7.1	14.6	BDL
2	A2	02.10.2023	48	26	6.8	13.2	BDL
3	A3	02.10.2023	56	40	8.2	16.8	BDL
CPCB Standards(24 hrly)			100	60	80	80	4

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

M. Rout

Authorized Signatory



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.

Regd. Office: Plot No-522/3458, Near Utkal Hyundai, Opposite APEX Collage, Pahal, Bhubaneswar-752101, Odisha,
E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in, Mobile: 8763703371

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



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

Report No.: PIL/CEMC/011123/NL

Date: 01.11.2023

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : October 2023
- 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	04.10.2023	46.8	32.6	43.2	33.4	BDL	30.2
2	NL2	05.10.2023	43.4	31.2	40.4	32.6	BDL	30.1
3	NL3	06.10.2023	52.6	34.4	48.6	35.8	BDL	31.6

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

M. K. Rout

Authorized Signatory



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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



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Report No.: PIL/CEMC/011223/AAQ

Date: 01.12.2023

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : November 2023
- 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	01.11.2023	55	36	7.8	14.8	BDL
2	A2	01.11.2023	51	30	7.2	13.4	BDL
3	A3	01.11.2023	63	41	8.4	17.3	BDL
CPCB Standards(24 hrly)			100	60	80	80	4

Note: BDL value for CO < 0.11 mg/m

M. K. Rout

Authorized Signatory



Seal of Laboratory

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E-mail: ccmc_consultancy@yahoo.co.in, ccmc422@gmail.com, website: www.ccmc.in, Mobile: 8783703371

Laboratory At Plot No-806/1274, Jhal Pahal, Bhubaneswar-752101

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

Report No.: PH/CEMC/011223/NL

Date: 01.12.2023

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : November 2023
- 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	02.11.2023	45.3	31.4	40.1	32.8	BDL	30.1
2	NL2	03.11.2023	47.6	33.8	43.6	34.4	BDL	31.8
3	NL3	04.11.2023	54.2	35.6	49.1	36.3	BDL	32.4

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

Authorized Signatory



Seal of Laboratory

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RoLPCGC, Govt. of India, Recognized Environment Laboratory under Environment (Protection) Act, 1986.

Report No.: PIL/CEMC/020124/AAQ

Date: 02.01.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : December 2023
- 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	01.12.2023	52	34	7.5	14.2	BDL
2	A2	01.12.2023	48	26	6.8	12.4	BDL
3	A3	01.12.2023	60	39	8.2	16.6	BDL
CPCB Standards(24 hrly)			100	60	80	80	4

Note: BDL value for CO < 0.11 mg/m

MRout

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Seal of Laboratory

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MOEF & GO, Govt. of India, Recognized Environment Laboratory under Environment (Protection) Act, 1986.

Report No.: PIL/CEMC/020124/NL

Date: 02.01.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : December 2023
- 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	01.12.2023	44.5	30.3	40.2	32.9	BDL	30.7
2	NL2	02.12.2023	48.5	31.9	42.4	33.7	BDL	31.0
3	NL3	04.12.2023	49.4	32.8	43.1	35.5	BDL	31.6

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

M. Prakash

Authorized Signatory



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Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DMR, Wildlife Management Plan, Hazardous & Safety Studies, RS & GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, O&MS & FTS Survey

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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
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MoERCC, Govt. of India, Recognized Environment Laboratory under Environment Protection Act, 1986.

Report No.: PH/CEMC/010224/AAQ

Date: 01.02.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkagutta Iron and Manganese Ore Mine
- Period of Monitoring : January 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	02.01.2024	56	35	8.2	14.9	BDL
2	A2	02.01.2024	51	29	7.6	13.6	BDL
3	A3	02.01.2024	64	40	9.4	16.8	BDL
CPCB Standards(24 hrly)			100	60	80	80	4

Note: BDL value for CO- $<0.11 \text{ mg}/\text{m}^3$

M. K. Rout

Authorized Signatory



Seal of Laboratory

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

Report No.: PUL/CEMC/010224/NL

Date: 01.02.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : January 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	02.01.2024	48.7	30.8	41.8	31.7	BDL	30.3
2	NL2	03.01.2024	50.9	31.2	43.9	32.8	BDL	30.5
3	NL3	04.01.2024	49.3	30.6	43.0	31.5	BDL	30.3

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

M. Prakash

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Report No.: PIL/CEMC/010324/AAQ

Date: 01.03.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : February 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	01.02.2024	59	38	8.8	15.4	BDL
2	A2	01.02.2024	55	32	8.2	14.2	BDL
3	A3	01.02.2024	68	44	9.6	17.4	BDL
CPCB Standards(24 hrly)			100	60	80	80	4

Note: BDL value for CO-<0.11 mg/m³

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Laboratory At: Plot No. 800/1274, Jhal, Pahal, Bhubaneswar-752101,
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Report No.: PIL/CEMC/010324/NL

Date: 01.03.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : February 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	02.02.2024	45.4	32.6	40.2	33.8	BDL	30.6
2	NL2	03.02.2024	49.2	33.4	44.6	35.2	BDL	31.1
3	NL3	05.02.2024	53.6	32.8	48.4	34.6	BDL	31.8

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

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ISO 9001:2015, Govt. of India, Recognized Environment Laboratory under Environment (Protection) Act, 1986.

Report No.: PIL/CEMC/020424/AAQ

Date: 02.04.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : March 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	01.03.2024	54	34	8.4	14.2	BDL
2	A2	01.03.2024	50	28	7.6	12.4	BDL
3	A3	01.03.2024	65	39	8.9	16.6	BDL
CPCB Standards(24 hrly)			100	60	80	80	4

Note: BDL value for CO ~ 0.11 mg/m

M. Rout

Authorized Signatory



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Enacted in Odisha in this Industry Development Council (IDC), established by the Planning Commission, Govt. of India.
MoE (Ministry of Environment & Forests), Govt. of India, Recognized Environment Laboratory under Environment (Protection) Act, 1986.

Report No.: PIL/CEMC/020424/NL

Date: 02.04.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : March 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	02.03.2024	51.9	30.7	44.5	32.8	BDL	30.5
2	NL2	04.03.2024	50.1	31.7	44.1	31.6	BDL	30.3
3	NL3	05.03.2024	48.5	30.5	42.2	30.9	BDL	30.1

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

M. Rout

Authorized Signatory



Seal of Laboratory

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Laboratory At Plot No. 0007274, Jhal Pahal, Bhubaneswar-752101
E-mail: ccmcLab@yahoo.in, Mobile: 7762014843

DETAILS OF CORPORATE SOCIAL RESPONSIBILITY EXPENSES**For the period of October – 2023 to March – 2024**

Sl. No.	Details of important work done at site (Panchayat/ Villages) etc	Expenses (In Rs.)
	Drinking Water Facility	
1	(Engagement of water tanker for supply of drinking water to the nearby village and expenditure for supply of drinking water through pipeline.)	5,76,000/-
	Promotion of Education	
2	(Teacher's salary)	3,85,988/-
	Health care	
3	(Supply of medicine, Salary paid to Pharmacist & other medical Staffs, Ambulance, etc.)	6,42,122/-
	Environmental awareness	
4	(Plantation, solar connection and water sprinkling on transportation road for suppression of dust)	8,58,000/-
5	Family Compensation paid to the Villagers	29,34,000/-
6	Development of Village Road	63,34,115/-
7	Financial assistance to the nearby villages for religious and cultural activities, sports competition etc.	1,40,000/-
	Miscellaneous	
8	(Infrastructure development, expenses reference to social welfare activities etc.)	26,03,941/-
Grand Total =		1,44,74,166/-

For Prakash Industries Ltd.


 Authorised Signatory



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

Report No.: PIL/CEMC/011123/WZNL

Date: 01.11.2023

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : October 2023
- 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
		07.10.2023	09.10.2023	10.10.2023
1	8.00AM	61.2	61.4	62.6
2	9.00AM	64.8	68.5	66.1
3	10.00AM	69.5	70.9	67.7
4	11.00AM	72.9	73.3	73.6
5	12.00AN	74.2	72.5	70.3
6	1.00PM	70.1	69.4	67.5
7	2.00PM	67.9	64.1	63.7
8	3.00PM	65.4	62.5	60.3
Max.		74.2	73.3	73.6
Min.		61.2	61.4	60.3
Avg.		66.9	66.6	65.3
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

M. Rout
Authorized Signatory



Seal of Laboratory

Notes:

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E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in, Mobile: 8763703371

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
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MoEF&CC, Govt. of India, Recognized Environment Laboratory under Environment (Protection) Act, 1986.

Report No.: PIL/CEMC/011123/FE

Date: 01.11.2023

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : October 2023
- 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	03.10.2023	92	246	338
2	FE2	03.10.2023	88	266	354
3	FE3	03.10.2023	93	284	377
CPCB Standards			1200		

M. K. Rout

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Report No.: PH/CEMC/011223/WZNL

Date: 01.12.2023

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkagutta Iron and Manganese Ore Mine
- Period of Monitoring : November 2023
- 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
		06.11.2023	07.11.2023	08.11.2023
1	8.00AM	61.5	62.3	63.5
2	9.00AM	65.8	68.4	65.4
3	10.00AM	72.3	70.6	68.6
4	11.00AM	78.9	75.3	71.3
5	12.00AN	70.4	73.1	73.2
6	1.00PM	65.2	72.5	65.1
7	2.00PM	63.6	69.6	61.8
8	3.00PM	60.5	64.1	60.2
Max.		78.9	75.3	73.2
Min.		60.5	62.3	60.2
Avg.		68.7	68.1	65.2
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

M. Prakash
Authorized Signatory



Seal of Laboratory

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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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e-mail: ccmc_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in, Mobile: 8763703371

Laboratory At: Plot No-100/1274, Jhal, Pahal, Bhubaneswar-752101
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MSAFACC, Govt. of India, Recognized Environment Laboratory under Environment Protection Act, 1986

Report No.: PH/CEMC/011223/FE

Date: 01.12.2023

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : November 2023
- 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	02.11.2023	96	266	362
2	FE2	02.11.2023	94	282	376
3	FE3	02.11.2023	95	297	392
CPCB Standards			1200		

M. Prakash

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Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Rehabilitation & Safety Studies
HS & GPS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, OHS & EIS Survey

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E-mail: ccmc_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in, Mob: 8763703371

Laboratory: Plot No-800/1274, Jodai Palah, Bhubaneswar-751001
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Report No.: PIL/CEMC/020124/FE

Date: 02.01.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : December 2023
- 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	02.12.2023	88	286	374
2	FE2	02.12.2023	96	296	392
3	FE3	02.12.2023	94	316	410
CPCB Standards			1200		

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

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Report No.: PIL/CEMC/020124/WZNL

Date: 02.01.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : December 2023
- 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
		05.12.2023	06.12.2023	07.12.2023
1	8.00AM	60.8	59.3	56.3
2	9.00AM	64.3	61.5	58.9
3	10.00AM	66.9	65.7	62.4
4	11.00AM	70.3	68.3	66.4
5	12.00AM	68.4	70.3	68.9
6	1.00PM	65.8	66.4	64.1
7	2.00PM	63.1	62.8	61.3
8	3.00PM	60.5	59.6	58.9
Max.		70.3	70.3	68.9
Min.		60.5	59.3	56.3
Avg.		63.2	62.8	60.9
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

M. Prakash
Authorized Signatory



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Report No.: PIL/CEMC/010224/FE

Date: 01.02.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : January 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	02.01.2024	94	294	388
2	FE2	02.01.2024	81	337	418
3	FE3	02.01.2024	88	346	434
CPCB Standards			1200		

M. Rout

Authorized Signatory



Seal of Laboratory

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Report No.: PIL/CEMC/010224/WZNL

Date: 01.02.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : January 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

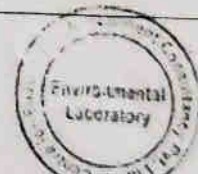
WZNL3 – Near Quarry

ANALYSIS RESULTS OF WORK ZONE NOISE LEVEL

Sl. no.	Time(Hrs)	Results in dB(A) Leq.		
		WZNL1	WZNL2	WZNL3
		08.01.2024	09.01.2024	10.01.2024
1	8.00AM	61.5	63.7	59.4
2	9.00AM	64.9	65.9	63.4
3	10.00AM	66.3	69.4	66.8
4	11.00AM	68.9	71.2	69.5
5	12.00AN	70.9	73.6	72.4
6	1.00PM	64.1	70.1	67.5
7	2.00PM	61.1	66.8	64.2
8	3.00PM	58.6	65.4	61.2
Max.		70.9	73.6	72.4
Min.		58.6	63.7	59.4
Avg.		63.2	66.4	64.4
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

M. Rout

Authorized Signatory



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

Date: 01.03.2024

Report No.: PIL/CEMC/010324/FE

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : February 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	02.02.2024	91	329	420
2	FE2	02.02.2024	89	343	432
3	FE3	02.02.2024	93	352	445
CPCB Standards			1200		

M. Rout

Authorized Signatory



Seal of Laboratory

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Regd. Office: Plot No-522/3458, Near Utkal Hyundai, Opposite APEX Collage, Pahat, 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, Pahat, Bhubaneswar 752101
E-mail: ccmc.lab@yahoo.in, Mobile: 7752014812



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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.

Report No.: PIL/CEMC/010324/WZNL

Date: 01.03.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : February 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
		06.02.2024	07.02.2024	08.02.2024
1	8.00AM	61.3	60.5	58.5
2	9.00AM	65.7	67.6	60.4
3	10.00AM	69.8	70.3	65.3
4	11.00AM	71.4	72.8	68.7
5	12.00AN	70.3	67.9	71.6
6	1.00PM	68.3	63.4	68.9
7	2.00PM	62.5	55.6	64.3
8	3.00PM	57.7	53.8	60.8
Max.		71.4	72.8	71.6
Min.		57.7	53.8	58.5
Avg.		64.8	64.5	63.8
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

M. Prakash

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Report No.: PH/CEMC/020424/FE

Date: 02.04.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : March 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	02.03.2024	92	384	476
2	FE2	02.03.2024	86	372	458
3	FE3	02.03.2024	94	370	464
CPCB Standards			1200		

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Member of OHSAT, Govt. of India, Management Environment Laboratory Group Environment Protection Act, 1986

Report No.: PH/CEMC/020424/WZNL

Date: 02.04.2024

- Name of the Industries : M/s Prakash Industries Ltd
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : March 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
		06.03.2024	07.03.2024	08.03.2024
1	8.00AM	52.6	55.8	60.2
2	9.00AM	55.8	60.3	63.4
3	10.00AM	62.7	65.8	65.8
4	11.00AM	73.9	74.9	70.1
5	12.00AN	70.2	70.5	72.6
6	1.00PM	62.4	66.2	67.4
7	2.00PM	60.7	58.6	64.3
8	3.00PM	58.9	55.1	61.1
Max.		73.9	74.9	72.6
Min.		52.6	55.1	60.2
Avg.		64.1	65.2	64.5
Prescribed OSHA Norm for Work Zone Area(08hrly)		90		

M. K. Rout
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Photographs of covered truck with tarpaulin



For Prakash Industries Ltd.


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

Report No.: PIL/CEMC/011123/SW

Date: 01.11.2023

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : October 2023
- Sample Collected by : M/s Centre for Envotech and Management Consultancy Pvt. Ltd.
- Type of Sample : Surface Water
SW1 - New Sirkaguttu
SW2 - Kaljorhanala
- Date of Sampling : 01.10.2023

ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	SW1	SW2
1.	pH value	----	7.42	7.64
2.	Temperature	°C	15	12
3.	Suspended Solids	mg/l	34	30
4.	Turbidity	NTU	15	12
5.	Total Dissolved Solids	mg/l	144	150
6.	Electrical Conductivity(EC)	µmhos/cm	192	208
7.	Alkalinity (as CaCO ₃)	mg/l	76	70
8.	Total Hardness (as CaCO ₃)	mg/l	62	63
9.	Calcium (as Ca)	mg/l	13.4	18.2
10.	Chloride (as Cl)	mg/l	26	32
11.	Fluoride (as F)	mg/l	<0.05	<0.05
12.	Sulfate (as SO ₄)	mg/l	16	22
13.	Magnesium (as Mg)	mg/l	6.8	6.2
14.	Nitrate (as NO ₃)	mg/l	0.03	0.02
15.	Phosphate	mg/l	0.34	0.40
16.	Dissolved Oxygen as O ₂	mg/l	5.2	5.4
17.	Sulfide (as S)	mg/l	<0.1	<0.1
18.	BOD, 3 days at 27°C	mg/l	7.2	7.6
19.	COD	mg/l	15.8	16.6
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	0.004	0.006
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	0.24	0.28

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Report No.: PIL/CEMC/011223/SW

Date: 01.12.2023

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : November 2023
- 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 : 01.11.2023

ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	SW1	SW2
1.	pH value	---	7.55	7.72
2.	Temperature	°C	14	11
3.	Suspended Solids	mg/l	32	28
4.	Turbidity	NTU	14	10
5.	Total Dissolved Solids	mg/l	140	146
6.	Electrical Conductivity(EC)	µmhos/cm	188	202
7.	Alkalinity (as CaCO ₃)	mg/l	74	66
8.	Total Hardness (as CaCO ₃)	mg/l	60	58
9.	Calcium (as Ca)	mg/l	15.2	20.4
10.	Chloride (as Cl)	mg/l	22	30
11.	Fluoride (as F)	mg/l	<0.05	<0.05
12.	Sulfate (as SO ₄)	mg/l	14	20
13.	Magnesium (as Mg)	mg/l	6.4	5.6
14.	Nitrate (as NO ₃)	mg/l	0.02	0.01
15.	Phosphate	mg/l	0.28	0.36
16.	Dissolved Oxygen as O ₂	mg/l	5.8	5.6
17.	Sulfide (as S)	mg/l	<0.1	<0.1
18.	BOD, 3 days at 27°C	mg/l	6.8	7.4
19.	COD	mg/l	14.6	16.2
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	0.003	0.005
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/020124/GW

Date: 02.01.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : December 2023
- 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 : 01.12.2023

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	7.08	7.16	6.92	6.88
4.	Conductivity	µmhos/cm	—	—	30	36	44	28
5.	Turbidity, max	NTU	1	5	<1	<1	<1	<1
6.	Total Dissolved Solids, max	mg/l	500	2000	218	236	198	216

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	110	126	132	120
2.	Total Hardness, max	mg/l	200	600	124	112	126	108
3.	Calcium, max	mg/l	75	200	22.6	28.6	24.4	30.8
4.	Chloride, max	mg/l	250	1000	40.2	32.6	28.6	36.4
5.	Fluoride, max	mg/l	1.0	1.5	0.08	0.14	0.18	0.12
6.	Sulphate, max	mg/l	200	400	40	44	36	32
7.	Iron, max	mg/l	0.3	No relaxation	0.22	0.26	0.16	0.22
8.	Zinc, max	mg/l	5	15	0.24	0.20	0.20	0.18
9.	Nitrate, max	mg/l	45	No relaxation	0.30	0.24	0.26	0.32
10.	Free Residual Chlorine, min	mg/l	0.2	1.0	NO	NO	NO	NO
11.	Phenolic Compound, max	mg/l	0.001	0.002	<0.001	<0.001	<0.001	<0.001
12.	Manganese, max	mg/l	0.1	0.3	0.008	0.010	0.016	0.020
13.	Copper, max	mg/l	0.05	1.5	<0.03	<0.03	<0.03	<0.03

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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, max	mg/l	0.02	No relaxation	<0.05	<0.05	<0.05	<0.05
2.	Cadmium, max	mg/l	0.003	No relaxation	<0.003	<0.003	<0.003	<0.003
3.	Cyanide, max	mg/l	0.05	No relaxation	ND	ND	ND	ND
4.	Total Chromium, max	mg/l	0.05	No relaxation	<0.002	<0.002	<0.002	<0.002
5.	Hexavalent Chromium	mg/l	\$	\$	<0.002	<0.002	<0.002	<0.002
6.	Lead, max	mg/l	0.01	No relaxation	<0.01	<0.01	<0.01	<0.01

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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Report No.: PII/CEMC/020124/SW

Date: 02.01.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : December 2023
- 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 : 01.12.2023

ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	SW1	SW2
1.	pH value	---	7.62	7.68
2.	Temperature	°C	12	10
3.	Suspended Solids	mg/l	30	24
4.	Turbidity	NTU	12	9
5.	Total Dissolved Solids	mg/l	136	142
6.	Electrical Conductivity(EC)	µmhos/cm	184	196
7.	Alkalinity (as CaCO ₃)	mg/l	72	62
8.	Total Hardness (as CaCO ₃)	mg/l	56	52
9.	Calcium (as Ca)	mg/l	14.6	18.6
10.	Chloride (as Cl)	mg/l	20	26
11.	Fluoride (as F)	mg/l	<0.05	<0.05
12.	Sulfate (as SO ₄)	mg/l	12	16
13.	Magnesium (as Mg)	mg/l	5.8	5.2
14.	Nitrate (as NO ₃)	mg/l	0.03	0.02
15.	Phosphate	mg/l	0.26	0.32
16.	Dissolved Oxygen as O ₂	mg/l	5.4	5.2
17.	Sulfide (as S)	mg/l	<0.1	<0.1
18.	BOD, 3 days at 27°C	mg/l	6.4	7.2
19.	COD	mg/l	13.8	16.1
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	0.20	0.24

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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
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Report No.: PIL/CEMC/010224/SW

Date: 01.02.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : January 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 : 02.01.2024

ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	SW1	SW2
1.	pH value	---	7.58	7.42
2.	Temperature	°C	10	9
3.	Suspended Solids	mg/l	28	20
4.	Turbidity	NTU	10	7
5.	Total Dissolved Solids	mg/l	132	136
6.	Electrical Conductivity(EC)	µmhos/cm	180	192
7.	Alkalinity (as CaCO ₃)	mg/l	70	58
8.	Total Hardness (as CaCO ₃)	mg/l	54	50
9.	Calcium (as Ca)	mg/l	13.8	18.2
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	14
13.	Magnesium (as Mg)	mg/l	5.5	4.6
14.	Nitrate (as NO ₃)	mg/l	0.02	0.01
15.	Phosphate	mg/l	0.24	0.30
16.	Dissolved Oxygen as O ₂	mg/l	5.8	5.6
17.	Sulfide (as S)	mg/l	<0.1	<0.1
18.	BOD, 3 days at 27°C	mg/l	6.2	6.8
19.	COD	mg/l	13.5	14.6
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	0.004	0.003
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	0.18	0.22

M. Rout

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Report No.: PIL/CEMC/010324/SW

Date: 01.03.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : February 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 : 02.02.2024

ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	SW1	SW2
1.	pH value	---	7.44	7.38
2.	Temperature	°C	12	10
3.	Suspended Solids	mg/l	34	26
4.	Turbidity	NTU	12	10
5.	Total Dissolved Solids	mg/l	144	148
6.	Electrical Conductivity(EC)	µmhos/cm	215	232
7.	Alkalinity (as CaCO ₃)	mg/l	74	66
8.	Total Hardness (as CaCO ₃)	mg/l	58	56
9.	Calcium (as Ca)	mg/l	14.6	20.4
10.	Chloride (as Cl)	mg/l	20	26
11.	Fluoride (as F)	mg/l	<0.05	<0.05
12.	Sulfate (as SO ₄)	mg/l	12	18
13.	Magnesium (as Mg)	mg/l	6.4	5.2
14.	Nitrate (as NO ₃)	mg/l	0.03	0.02
15.	Phosphate	mg/l	0.28	0.34
16.	Dissolved Oxygen as O ₂	mg/l	6.2	5.8
17.	Sulfide (as S)	mg/l	<0.1	<0.1
18.	BOD, 3 days at 27°C	mg/l	6.2	7.2
19.	COD	mg/l	14.4	16.4
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	0.24	0.26

M. Prakash

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MCA/SCC, Unit: 01/101, Newspaper Environment Laboratory under Environment Protection Act, 1986.

Report No.: PH/CEMC/020424/SW

Date: 02.04.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : March 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 : 02.03.2024

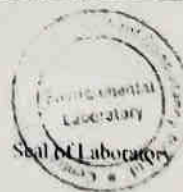
ANALYSIS RESULTS OF SURFACE WATER

Sl. no.	Parameters	Unit	SW1	SW2
1.	pH value	---	7.52	7.46
2.	Temperature	°C	16	14
3.	Suspended Solids	mg/l	30	24
4.	Turbidity	NTU	9	7
5.	Total Dissolved Solids	mg/l	152	164
6.	Electrical Conductivity(EC)	µmhos/cm	228	238
7.	Alkalinity (as CaCO ₃)	mg/l	70	64
8.	Total Hardness (as CaCO ₃)	mg/l	54	50
9.	Calcium (as Ca)	mg/l	12.8	16.2
10.	Chloride (as Cl)	mg/l	18	22
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	4.8
14.	Nitrate (as NO ₃)	mg/l	0.02	0.01
15.	Phosphate	mg/l	0.24	0.30
16.	Dissolved Oxygen as O ₂	mg/l	5.6	5.2
17.	Sulfide (as S)	mg/l	<0.1	<0.1
18.	BOD, 3 days at 27°C	mg/l	6.8	7.4
19.	COD	mg/l	15.2	17.8
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	0.28	0.22

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Laboratory At Plot No. 800/1274, Jhal, Pahal, Bhubaneswar-752101,
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Report No.: PH/CEMC/020424/GW

Date: 02.04.2024

- Name of the Industries : M/s Prakash Industries Ltd.
- Name of the Mine : Sirkaguttu Iron and Manganese Ore Mine
- Period of Monitoring : March 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 – Kajjorha
- Date of Sampling : 01.03.2024

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	7.18	7.06	7.12	6.96
4	Conductivity	µmhos/cm	--	--	38	42	36	32
5	Turbidity, max	NTU	1	5	<1	<1	<1	<1
6	Total Dissolved Solids, max	mg/l	500	2000	226	242	210	228

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	114	136	126	132
2	Total Hardness, max	mg/l	200	600	132	144	138	134
3	Calcium, max	mg/l	75	200	20.4	24.2	28.8	32.4
4	Chloride, max	mg/l	250	1000	44.8	36.4	32.2	34.8
5	Fluoride, max	mg/l	1.0	1.5	0.12	0.08	0.14	0.16
6	Sulphate, max	mg/l	200	400	38	40	44	48
7	Iron, max	mg/l	0.3	No relaxation	0.18	0.28	0.24	0.16
8	Zinc, max	mg/l	5	15	0.14	0.12	0.20	0.16
9	Nitrate, max	mg/l	45	No relaxation	0.30	0.24	0.26	0.32
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	<0.001	<0.001	<0.001	<0.001
12	Manganese, max	mg/l	0.1	0.3	0.012	0.014	0.018	0.010
13	Copper, max	mg/l	0.05	1.5	<0.03	<0.03	<0.03	<0.03

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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, max	mg/l	0.02	No relaxation	<0.05	<0.05	<0.05	<0.05
2.	Cadmium, max	mg/l	0.003	No relaxation	<0.003	<0.003	<0.003	<0.003
3.	Cyanide, max	mg/l	0.05	No relaxation	ND	ND	ND	ND
4.	Total Chromium, max	mg/l	0.05	No relaxation	<0.002	<0.002	<0.002	<0.002
5.	Hexavalent Chromium	mg/l	\$	\$	<0.002	<0.002	<0.002	<0.002
6.	Lead, max	mg/l	0.01	No relaxation	<0.01	<0.01	<0.01	<0.01

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

M. K. Rout

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EXPENSES INCURRED FOR ENVIRONMENTAL MANAGEMENT
(For the Period of October 2023 to March 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.	75,000/-	75,000/-
	(A) Sub Total Rs.	75,000/-	75,000/-
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.	8,58,000/-	8,58,000/-
2.	Wheel washer construction work (Already constructed)		
	(B) Sub Total Rs.	8,58,000/-	8,58,000/-
C.	Solid/Hazardous Waste Management		
1	Disposal of Solid Waste	23,31,000/-	23,31,000/-
	(C) Sub Total Rs.	23,31,000/-	23,31,000/-
D.	Other Areas		
1	Environmental consultant for Environmental monitoring	1,41,600/-	1,41,600/-
2	Maintenance of Plants	1,77,302/-	1,77,302/-
3	Housekeeping work.	1,62,000/-	1,62,000/-
	(D) Sub Total Rs.	4,80,902/-	4,80,902/-
	GRAND TOTAL (A+B+C+D) Rs.	37,44,902/-	37,44,902/-

For Prakash Industries Ltd.


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