

PRABODH MOHANTY

MINES OWNER

HEAD OFFICE : Weigh-Bridge Road, Post Box No.: 21, P. O.: Barbil - 758035,
Dist-Keonjhar (Odisha), Tel.: 06767-275362

Ref. : PM/BBL/ 424/2020-2021

Date 26/12/2020

To
Sri M.R. Prasad
Research Officer
Ministry of Environment, Forests & Climate change
Eastern Regional Office,
A/3, Chandrasekharapur,
Bhubaneswar-751023.

Sub:- Submission of six monthly compliance report as on Dec'2020 for KJST Iron, Mn. & Bauxite Mine of Sri Prabodh Mohanty in the district of Sundargarh.

Ref:- Ministry Letter No. J-11015/121/2011-IA.II(M), Dt.24.06.2015.

Sir,

In inviting a reference to the above, we are submitting herewith the six monthly compliance report as on **Dec'2020** for our KJST Iron, Mn. & Bauxite Mine situated under Bonai sub-division of Sundargarh District. The same is also sent by E-mail through your ID No-mef.or@nic.in.

Kindly acknowledge the receipt.

Thanking you,

Yours faithfully

For Prabodh Mohanty

T.C. Sei

Chief General Manager
KJST Iron, Mn. & Bauxite Mine

**COMPLIANCE REPORT ON STIPULATED
CONDITION IMPOSED ON
ENVIRONMENT CLEARANCE**

OF

KJST (JALDIHI) IRON, MANGANESE AND BAUXITE MINE.
(Over village Kalmang, Jaldihi, Sidimba & Tantigram)

Ref:-J-11015/121/2011.IA-II(M), Dated:-24th June'2015



**Prabodh
Mohanty**

**Lessee- Sri Prabodh Mohanty
At-Weighbridge Road, Po-Barbil,
Dist-Keonjhar, Odisha**

A. Specific Conditions.

- i. The project proponent shall obtain Consent to Establish and Consent to Operate from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.

The Consent to Establish and Consent to Operate has been duly obtained from State Pollution Control Board, Odisha vide latter No.-10952/Ind-II-NOC-5681 dated 12.06.2013 and no.-11791/IND-I-CON-4691 dated 03.07.2015 respectively for the production of 2.0169MTPA Iron ore and 0.13 MTPA of Bauxite Ore. All the stipulated conditions enshrined therein have been effectively implemented.

- ii. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.

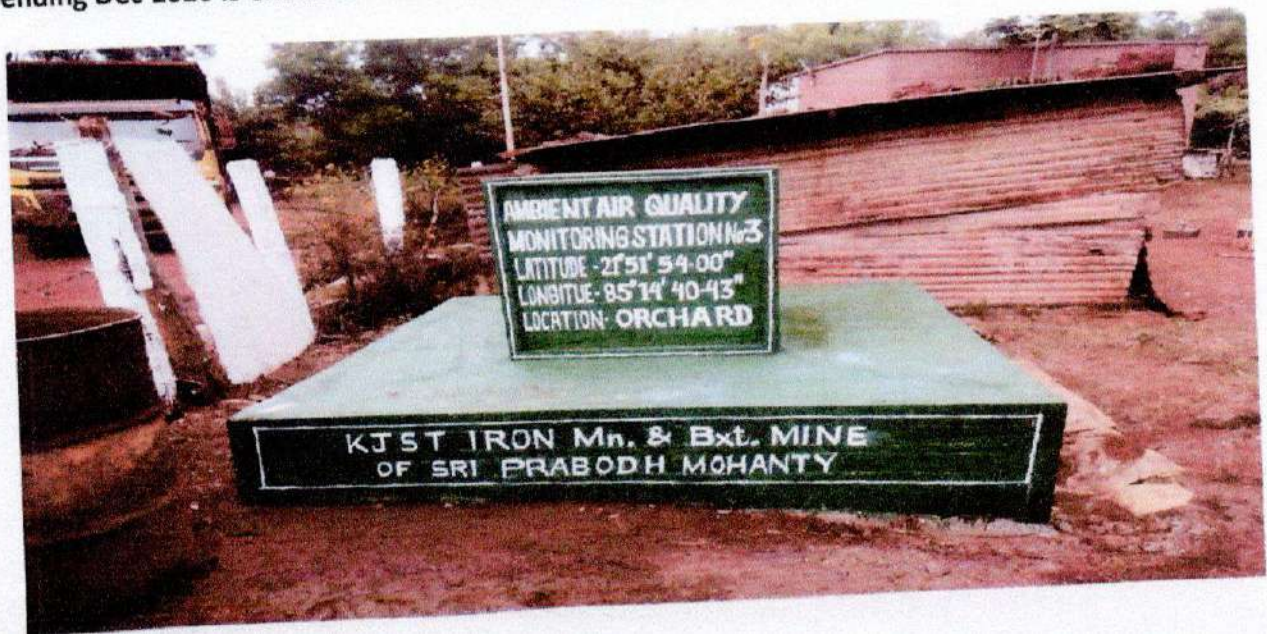
The clearance under the wildlife (Protection) Act, 1972 is not applicable to this project.

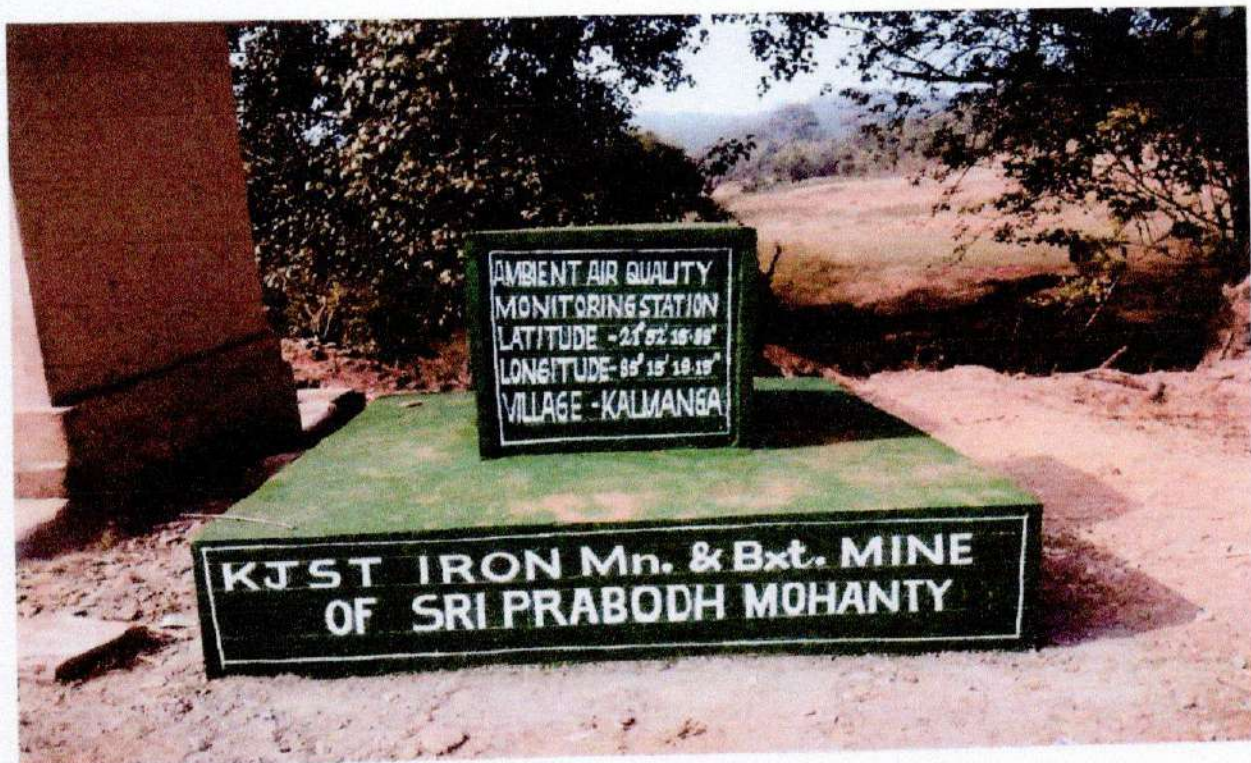
- iii. Traffic density on the rout of mineral transportation shall be regularly monitored and report shall be submitted along with compliance report.

Traffic density on the rout of mineral transportation is monitored regularly. The connecting road from the mine to the state high-way at Koira has been concretised at the project cost and to avoid congestion two nos. of vehicle parking places have been provided one within the mine and another outside the mining lease area. The project proponent has also spared a vehicle and security personnel to monitor and control traffic movement in the state highway as per the direction of the local administration.

- iv. As part of ambient air quality monitoring during operational phase of the project, the air samples shall also be analyzed for their mineralogical composition and records maintained.

The ambient air quality is being monitored by a NABL accredited public analyst as per the specific standards and the same report is submitted to State Pollution Control Board, Odisha. The Ambient Air quality parameter have been found to be within the permissible limit as specified in the consent order of SPCB, Odisha. The environmental monitoring report of quarter ending Dec'2020 is enclosed herewith as Annexure-1.





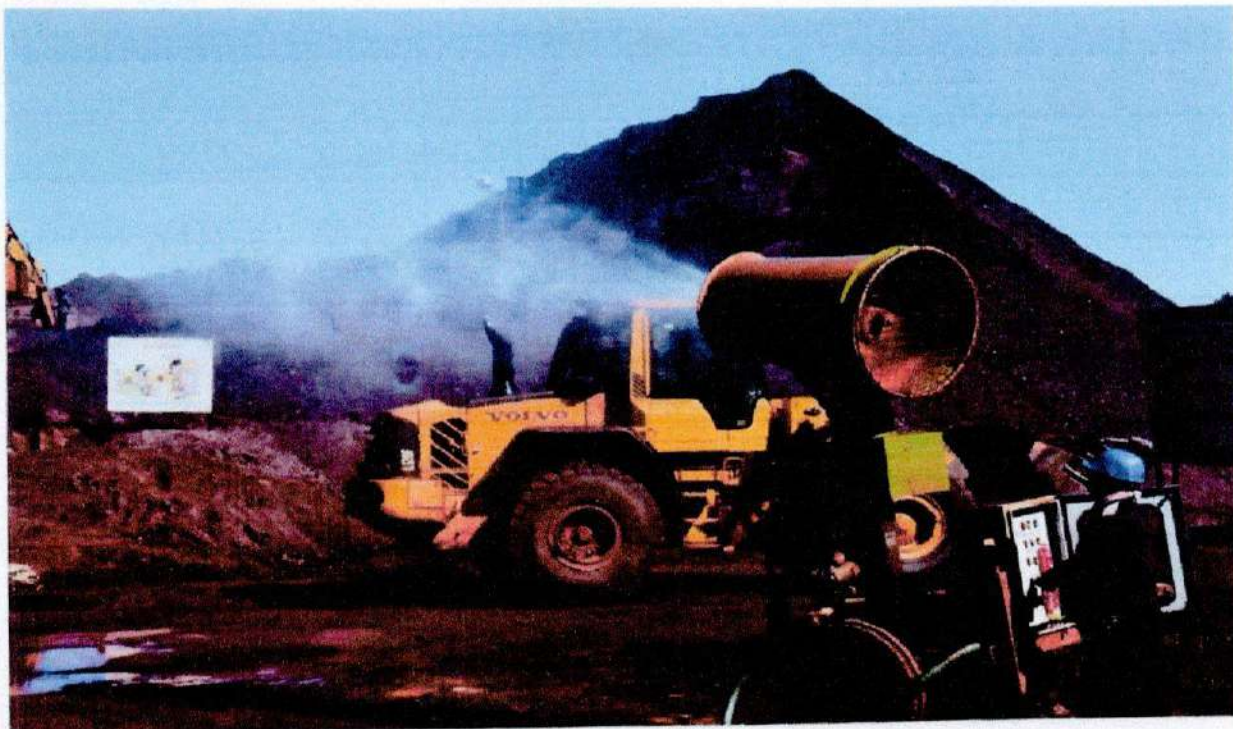
- v. Mineral handling plan shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.

All the mineral handling plants are equipped with water sprinkling system. Due care is being taken at loading and unloading point including all transporting point for reduction of dusts. Three water tankers have been deployed for the purpose. For effective control of dust two mist cannon have been installed near the mineral handling plants. Wheel washing system installed at the exits point near to main gate for washing of vehicles going outside ML area.



Exhibit-Water sprinkler fitted in water tanker and wheel washing system.





- vi. Effective safeguard measures such as conditioning of ore with water, regular water sprinkling shall be carried out in critical area prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and transfer points. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

Regular water sprinkling by water tankers are being carried out in critical area prone to air pollution and having high levels of particulate matter such as around crushing & screening unit, loading, unloading & transfer points. Ambient air quality parameters is found to be within permissible limit and such report we are submitting to Board regularly.

- vii. The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.

As per the approved hydro geological report by CGWA we have already implemented water conservation system by digging recharge pond, water recharge trench, water recharge well within the project area. It is being done in the consultation with Regional Director CGWB as suggested in the Hydro geological report to augment ground water resources in the project area.



- viii. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezo meters during the mining operation. The periodic monitoring [(at least four times in a year-pre-monsoon (April-May), monsoon (August), Post-monsoon (November) and winter (January)); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.

We are not using ground water in the project area, we have got the permission from department of water resource (DoWR) Govt. of Odisha for drawl of 100 Cum/day surface water from Teherai Nala, which we are using the purpose of water sprinkling at project area and paying the water Tax to the Department of Water Source, Govt. of Odisha for the consumed quantity at project site.

As well as we are monitoring the ground water level by installing piezo meter in existing bore well & Dug wells available in the nearby villages around our mining lease area.

- ix. The Project proponent shall regularly monitor the flow rate of the natural water streams Kurarhi Nadi and water stream flowing adjacent to the mine lease and maintain the record.

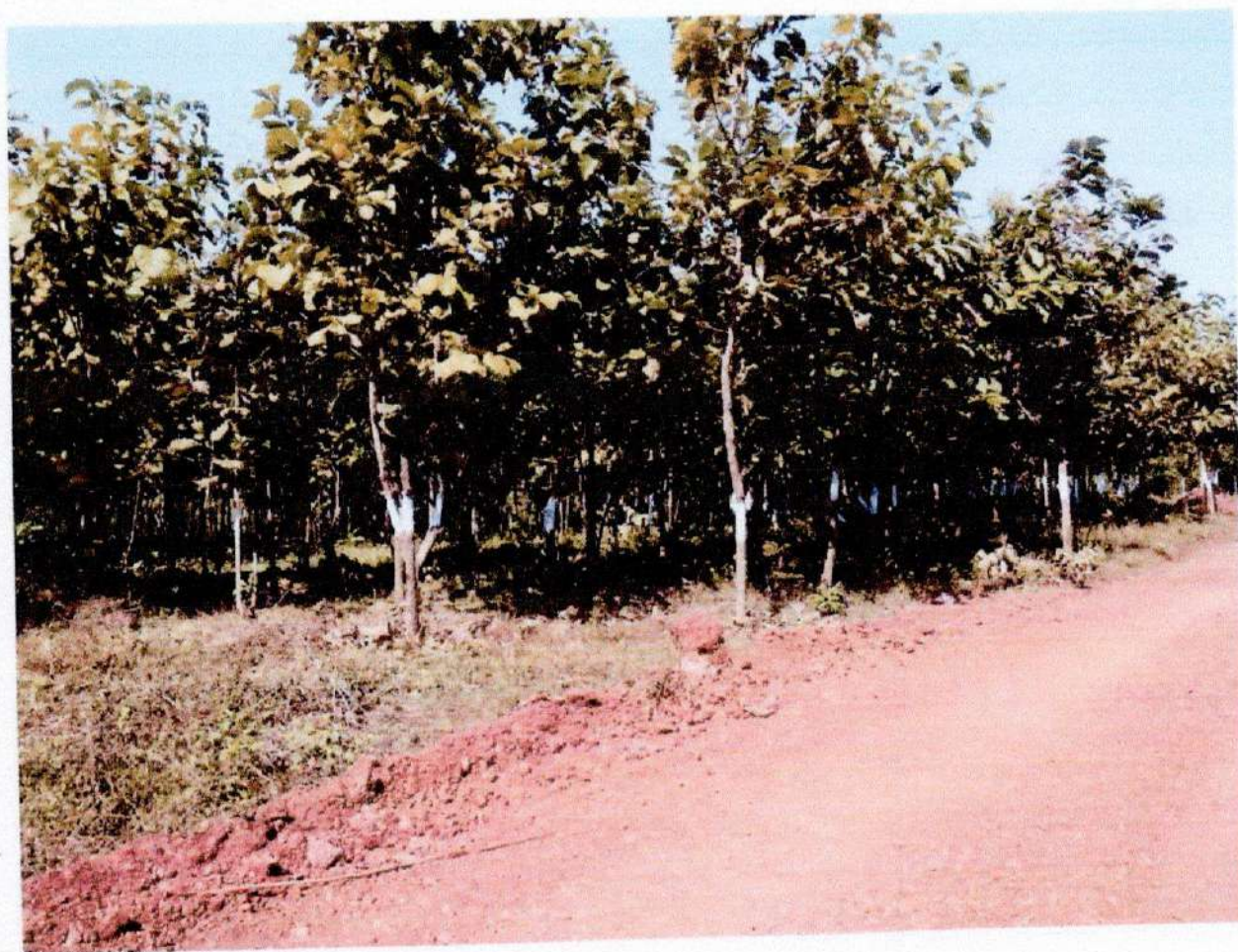
The flow rate of the natural water streams flowing 1.00km away from mining lease area e.i Teherai Nala is regularly monitored and record is properly maintained. The monitoring report submitting to the board in regular basis.

- x. The reclaimed and rehabilitated area shall be afforested. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.

We have reclaimed by means of Back filling an area of 0.423ha in the exhausted Bauxite quarry and we have already planted 8000 saplings on the reclaimed area in the year 2016-17. Presently planted saplings are under observation until the vegetation becomes self-sustaining.

In the year 2018-2019, we have planted 2000 Nos. of seedlings over the Back filled area as gap plantation within mining lease hold area. Now the vegetation of the back filled area and other reclamation by plantation in the barren land has become self sustainable hight.

Exhibit- Plantation



- xi. Dimension of the retaining wall at the toe of temporary over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.

Retaining wall of 765m (length)x1m(width)x2m(height) length has already been constructed around the waste dump of the iron ore quarry and 2462m(length)x1.00m(width)x2.0m(height) size around the waste dump of Bauxite quarry within the mine to check runoff and 351mx1.00mx2.00m size around the mineral reject area has already been constructed

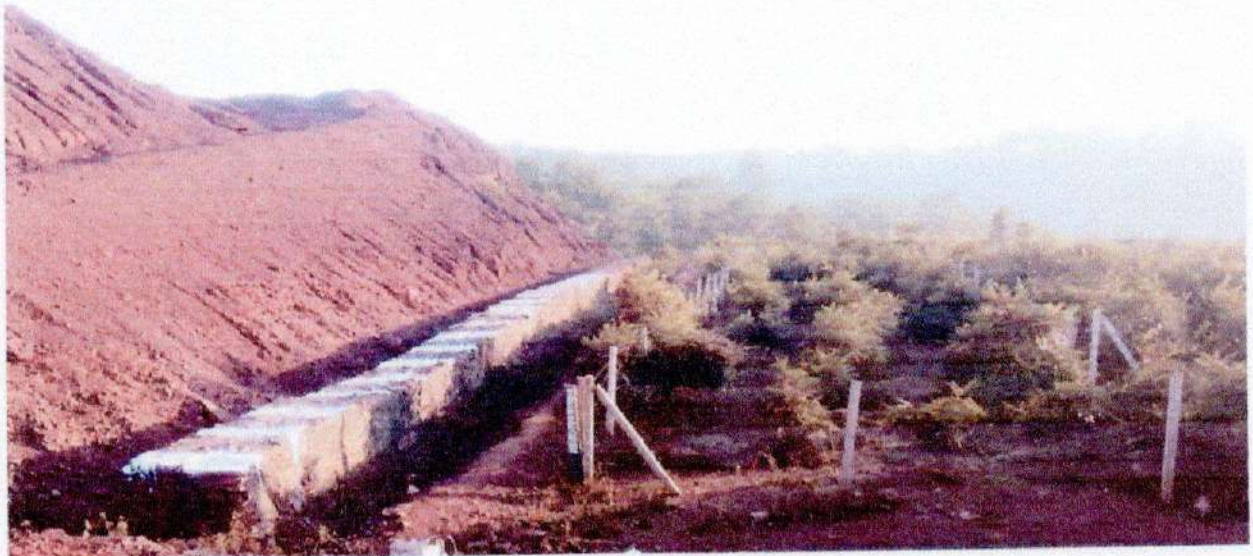
Exhibit- Retaining wall & garland drain



- xii. Plantation shall be raised in an specified area including a 7.5m wide green belt in the safety zone around the mining lease, backfield and reclaimed area , around the higher benches of excavated void to be converted in to water body, roads etc. by planting the native species in consultation with the local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per Ha.

The entire safety zone area is covered with plantation of 30000 nos. saplings. The void Bauxite quarry filled up by back filling has also been covered with plantation. Gap plantation within & outside the mining lease area also being monitored by us as per the direction local forest officials. Avenue plantation on road & leading to village is also taken into consideration for plantation. 7800 nos. of teak plantation has been developed by us in & outside of mining lease area. Moreover one orchard we have developed within the ML area on barren land. Till now we have planted 110000 no. of saplings in and around the mining lease area. The plantation detail is enclosed as Annexure -2 for your reference.

Exhibit- Plantation over Safety Zone, Back filling area, Orchard & Avenue Plantation.





- xiii. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

Regular water sprinkling is carried out in critical areas prone to air pollution and having high levels of SPM & RPM such as haul road, loading and unloading point by putting fixed sprinkler at haul road 1.5km in length and three nos. of water tanker fitted with sprinkler are engaged for water sprinkling at haul road to maintained the prescribed parameters of ambient air quality.

Exhibit- Truck mounted water sprinkler & fixed sprinkler.



- xiv. Process water discharge and/or any waste shall be properly treated to meet the prescribed standards before reuse/discharge. The runoff from temporary OB dumps and other surface runoff shall be analyzed for iron and in case its concentration is found higher than the permissible limit, the waste water should be treated before discharge/reuse.

The surface runoff water during monsoon have been channelized the settling points located at the low lying area where it has been settled. The water settled is being utilized for water sprinkling purpose. The sewerage water of canteen and from bathing places been processed at sewerage treatment plant and the processed water is being utilized in wheel washing plant as well as for sprinkling of water on haul road.

Exhibit- Series of water harvesting pond



- xv. Regular monitoring of the flow rate of the springs and perennial nallahs shall be carried out and records maintained.

Flow rate of the Teherei Nalla situated at a distance of 1.5kms. from the mine is monitored at up and down stream in quarterly intervals and the records are duly maintained.

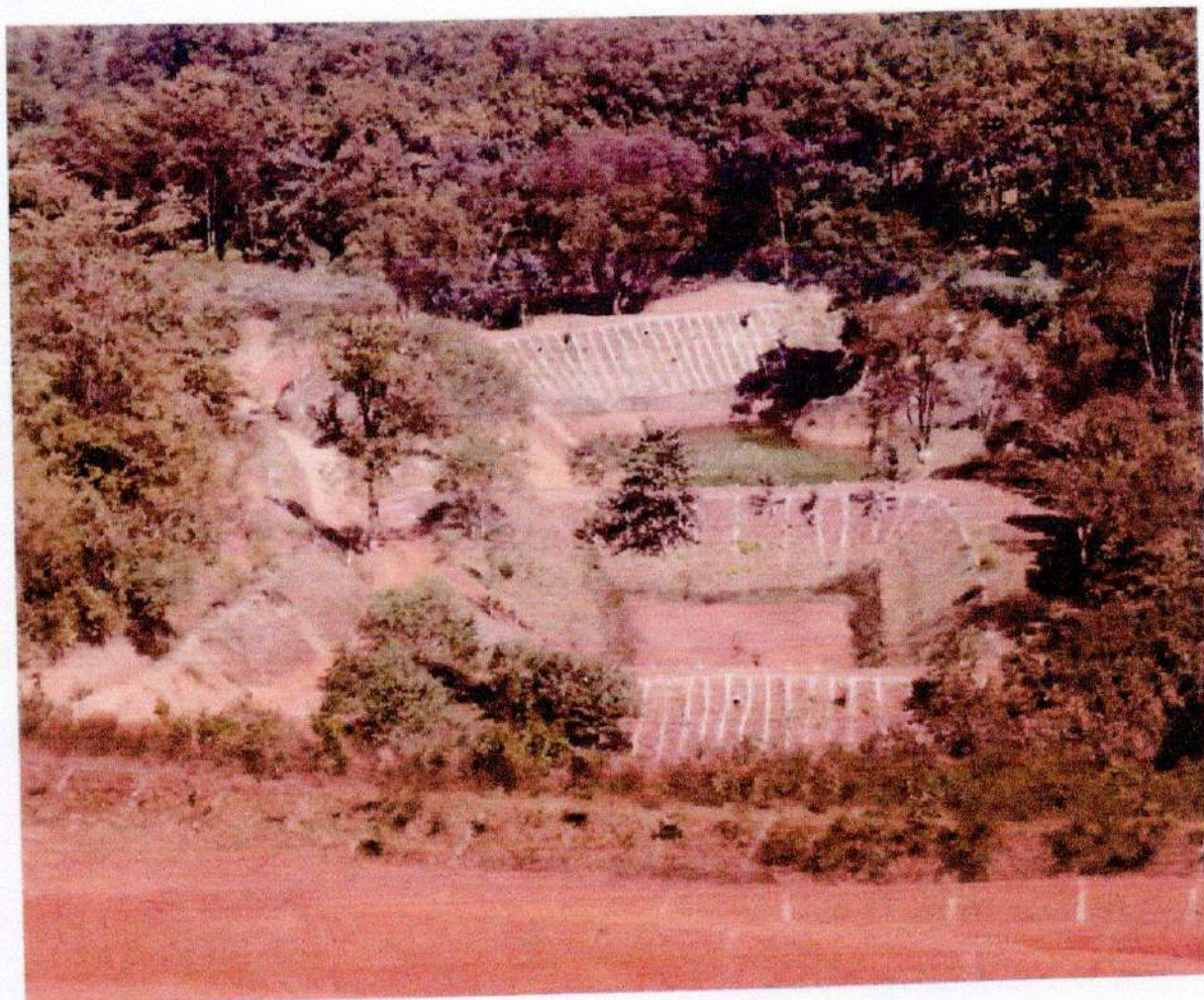
- xvi. Regular monitoring of water quality, upstream and downstream of river shall be carried out and record of monitoring data should be maintained and submitted to Ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.

Regular monitoring of water quality of Teherei Nalla at upstream and downstream is being carried out and record of the monitoring data submitting to the Regional office, MoEF Bhubaneswar as well as to state Pollution Control Board, Odisha..

- xvii. Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, Central Ground Water Board.

The mine management have planned and implemented suitable rain water harvesting measures on long term basis by constructing settling ponds at strategic points within the mine.

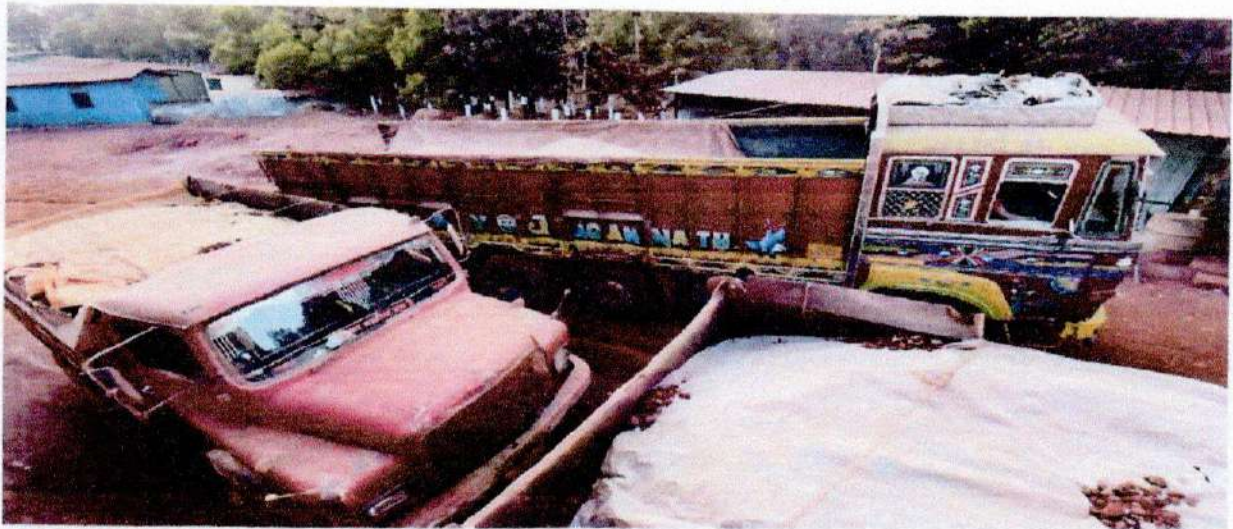
Exhibit- Series of water harvesting pond.



- xviii. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral from mine face to the beneficiation plant. The vehicles shall be covered with a tarpaulin and shall not be overloaded.

Regular maintenance of the vehicles used in mining operation is being done to control vehicular emission. No vehicle is allowed to carry load in excess of its capacity for which weighbridges have been installed within the lease hold area. Vehicles are allowed to leave the mine covered with tarpaulin.

Exhibit- Transport vehicle covered with tarpaulin.



- xix. Sewage treatment plant shall be installed for the colony. ETP shall also be provided for workshop and wastewater generated during mining operation.

No colony exists within the Lease hold area. The workers are drawn from the nearby villages and staffs are accommodated at staff colony in Koira Township. However, sewage treatment plant (STP) has been installed in the mine to treat effluent water from the workers canteen. ETP has been installed in the mine for waste water generated from workshop.





- xx. Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bhubaneswar.

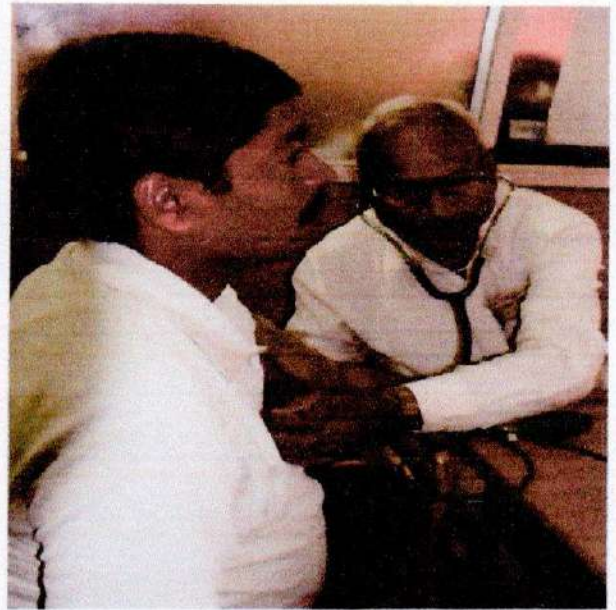
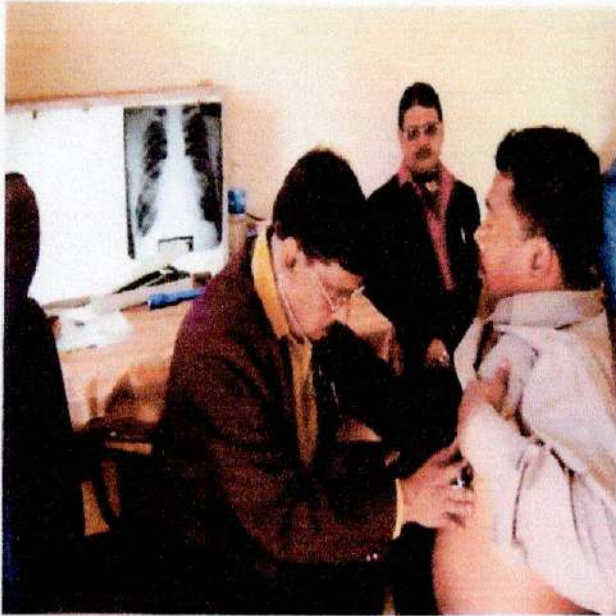
The digital processing of the entire lease hold area is taken up by ORSAC and has been completed. The map of the same is submitted to all concerned authority including Regional office of MoEF&CC, Bhubaneswar.

- xxi. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, scheduled of health examination of the workers should be drawn and followed accordingly.

Pre placement medical examination and periodical medical examination of the workers and staffs engaged in the mine is regularly conducted by the lessee through the medical team engaged by the Eastern Zone Mining Association and we are maintaining records accordingly. This is a statutory requirement as per DGMS.



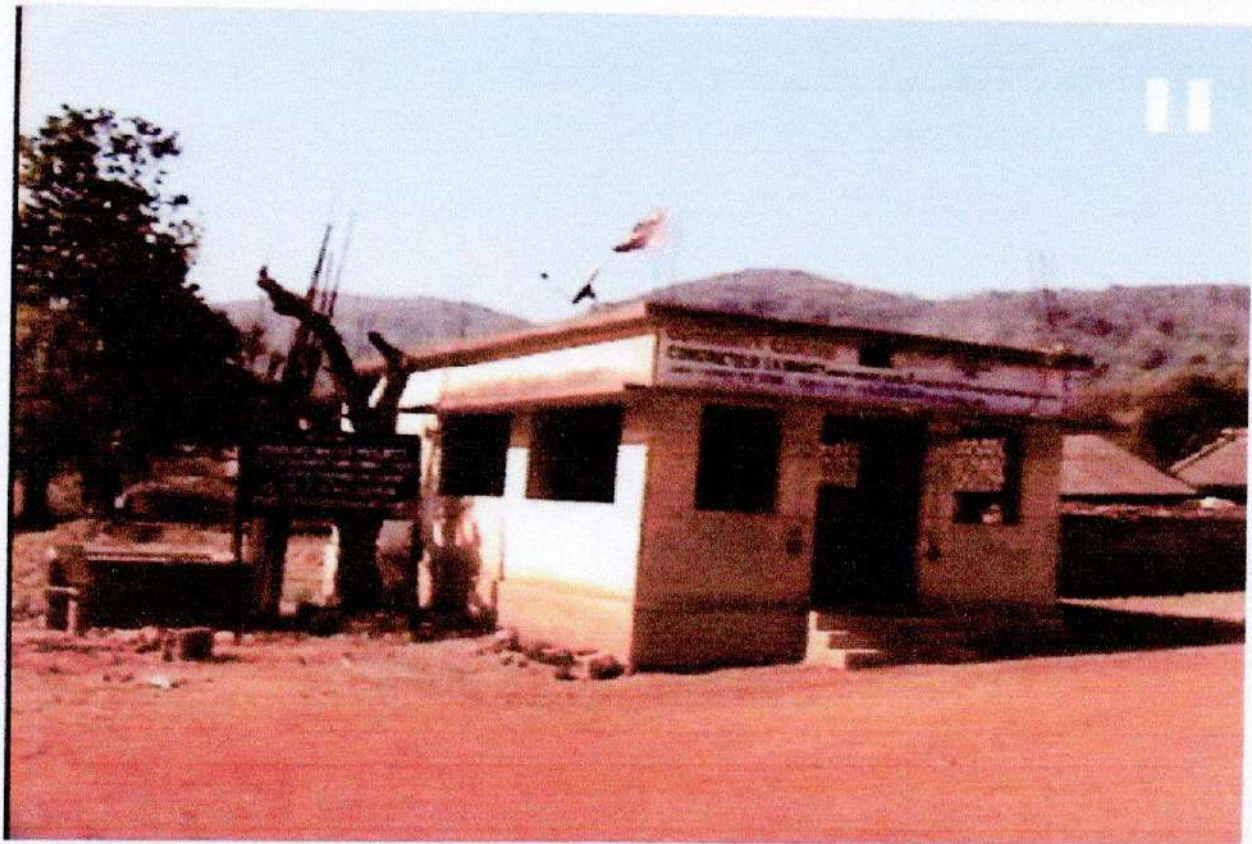
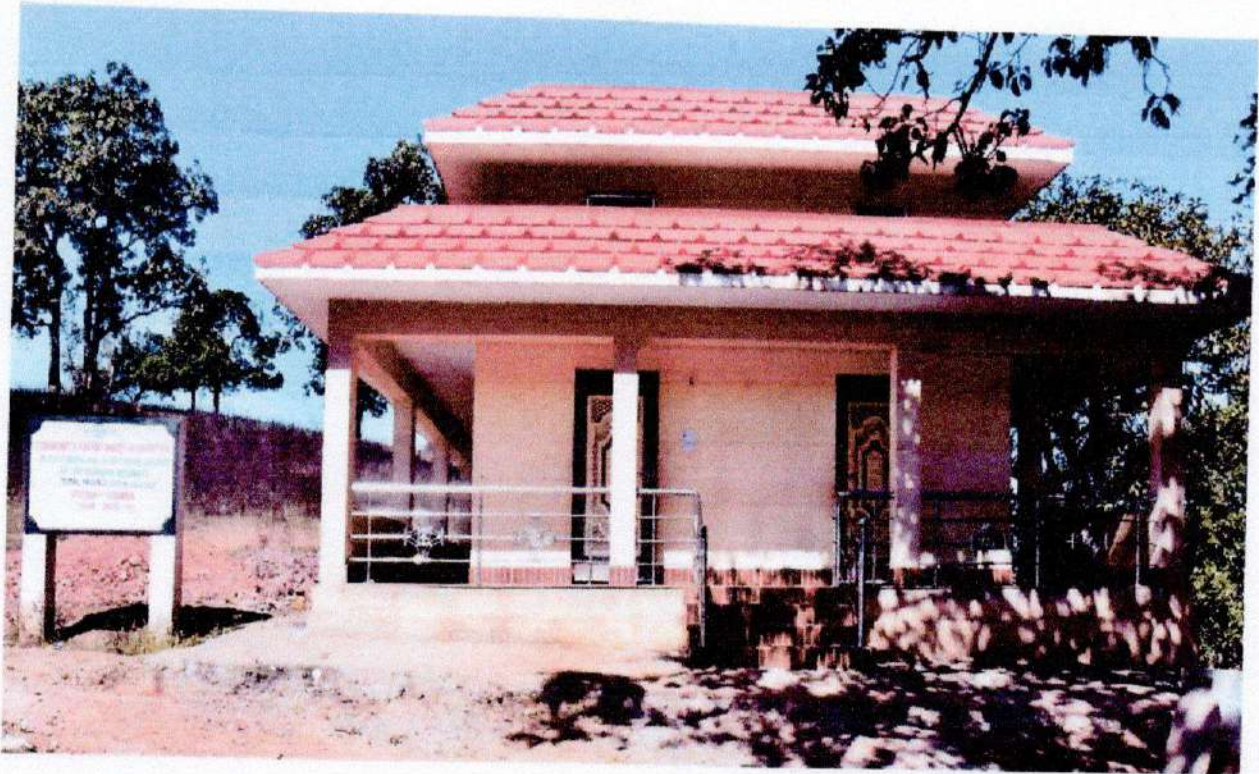
OCCUPATIONAL HEALTH TEAM OF C.E.O.H., BHUBANESWAR

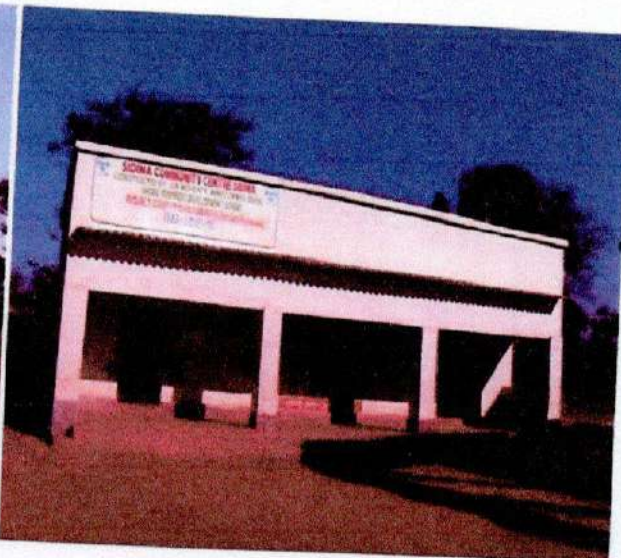


- xxii. The project proponent shall undertake all the commitments made during the public hearing and effectively address the concerns raised by the locals in the public hearing as well as during consideration of the project, while implementing the project.

We have completed all the commitments made during the public hearing for our nearby villages situated around the mine site i.e Kalmanga, Jaldihi, Sidimba and Tantigram.

Exhibit- Community center and other CSR activities





- xxiii. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its regional Office, Bhubaneswar.

As per the Regional wildlife management plan prepared by the state forest department for Keonjhar & Sundergarh district. We have already deposited Rs.81,06,489/- @ Rs.43,000.00 per Hect. for the entire lease hold area to the state forest department for the same purpose as per the demand raised by them.

A site specific wildlife conservation plan has been prepared and duly approved by CWLW, Govt. of Odisha. As per the site specific wildlife conservation plan mining lessee has to bear the cost of wildlife management and we have deposited Rs.70lakhs to CAMPA authority through state forest department. Beside this we have fenced the pit area with barbed wire and watch post with light and siren installed around the area as suggested by the State Forest Department.

- xxiv. A final Mine Closer Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closer for approval.

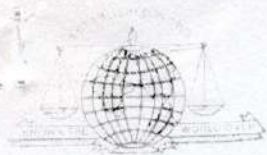
A Final Mine Closure Plan along with details of corpus found shall be submitted to the Ministry of Environment, Forest & climate Change 5years in advance of final mine closure for approval.

Yours faithfully

For Prabodh Mohanty

T.C. Sei

Chief General Manager
KJST Iron, Mn. & Bauxite Mine



R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

Annexure 1

Branch Office :

Near SBI, Barbil - 758 035
Dist : Keonjhar (Odisha)
Ph. : 9439813270, 9437047311, 9830076963
E-mail : rvbriggs_barbil@rediffmail.com
CIN : U51109WB1931PTC007007

Head Office :

Taher Mansion, 1st Floor
9, Bentinck Street, Kolkata - 700 001
Phone : 2248-3661/2698/7803
Fax : 033 2248-0447
E-mail : rvbriggs.kolkata@gmail.com
Website : www.rvbriggs.com

TEST REPORT

No. AP/11/01/20

Date: 22nd December 2020

Page 1 of 1

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Fugitive Air
Location : KJST Iron, Mn. & Bauxite Ore Mines (Quarry No. 1), Iron Ore Quarry

ENVIRONMENTAL CONDITION: Barometric Pressure: 737 - 747 mm Hg, Temperature: 18.0°C - 25.0°C

TEST FINDINGS: -

Sl. No	Test Parameters	Test Methods	Unit	Results (Time Weighted Avg.)						As per norms of Pollution Control Board, Orissa
				01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1	Suspended Particulate Matter	IS 5182 (Part-4): 1999, 1 st Revision	µg/m ³	536	534	532	530	532	534	1200

for R. V. BRIGGS & CO. (P) LTD.

Authorized Signatory

Verified by



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E-mail : rvbriggs.kolkata@gmail.com

Website : www.rvbriggs.com

TEST REPORT

No. AP/11/02/20

Date: 22nd December 2020

Page 1 of 1

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty

Address : Barbil, Keonjhar, (Odisha)

Description of Sample : Fugitive Air

Location : KJST Iron, Mn. & Bauxite Ore Mines (Screening Unit)

ENVIRONMENTAL CONDITION: Barometric Pressure: 737 - 747 mm Hg, Temperature: 19.0°C - 25.0°C

TEST FINDINGS: -

Sl. No	Test Parameters	Test Methods	Unit	Results (Time Weighted Avg.)						As per norms of Pollution Control Board, Orissa
				01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1	Suspended Particulate Matter	IS 5182 (Part-4): 1999, 1 st Revision	µg/m ³	539	541	552	555	561	582	1200

Verified by

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Authorized Signatory



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TEST REPORT

No. AP/11/03/20

Date 22nd December 2020

Page 1 of 1

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Ambient Air
Location : KJST Iron, Mn. & Bauxite Ore Mines (Kalmang Village)

ENVIRONMENTAL CONDITION:

Barometric Pressure: 740 - 752 mm Hg, Temperature: 17.0°C - 25.0°C

TEST FINDINGS: -

Sl. No	Test Parameters	Test Methods	Unit	Results (Time Weighted Avg.)						Norms as per MOE & F Notification New Delhi, 16th Nov. 2009
				01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1	Particulate Matter 2.5 (PM _{2.5})	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m ³	56	53	54	52	53	52	60 (24 Hourly)
2	Particulate Matter 10 (PM ₁₀)	IS 5182 (Part - 23): 2006 Reaffirmed 2012	µg/m ³	76	76	82	84	83	82	100 (24 Hourly)
3	Sulphur dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	µg/m ³	10.2	10.7	10.0	10.5	10.5	10.2	80 (24 Hourly)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part - 6): 2006 1st Revision	µg/m ³	42.5	42.7	42.0	40.7	40.9	40.3	80 (24 Hourly)
5	Ozone as O ₃	APHA (AIR), 2nd Edition (Analytical method)	µg/m ³	33.0	33.0	34.2	36.4	38.3	34.5	180 (1 Hourly)
6	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 Indophenol method, As per CPCB Guide line	µg/m ³	10.0	10.3	10.4	10.2	10.5	10.7	400 (24 Hourly)
7	Carbon-monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	1.93	1.91	1.97	2.03	1.92	1.95	04 (1 Hourly)
8	Lead as Pb	IS 5182 (Part - 22): 2004 Reaffirmed 2009	µg/m ³	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.0 (24 Hourly)
9	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method), As per CPCB Guide line	ng/m ³	<5	<5	<5	<5	<5	<5	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method), As per CPCB Guide line	ng/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part-II): 2006, 2nd Revision	µg/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part-12): 2004, 1st Revision	ng/m ³	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0

for R. V. BRIGGS & CO. (P) LTD.

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TEST REPORT

No. AP/11/04/20

Date: 22nd December 2020

Page 1 of 1

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Ambient Air
Location : KJST Iron, Mn. & Bauxite Ore Mines (Tanti Gram Village)

ENVIRONMENTAL CONDITION:

Barometric Pressure: 741 - 750 mm Hg,

Temperature: 15.0°C - 25.0°C

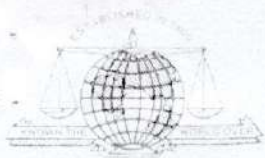
TEST FINDINGS: -

Sl. No	Test Parameters	Test Methods	Unit	Results (Time Weighted Avg.)						Norms as per MOE & F Notification New Delhi, 16th Nov. 2009
				01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1	Particulate Matter 2.5 (PM _{2.5})	USEPA 1997a, 40 CFR Part 50, Appendix L	µg/m ³	49	51	52	51	50	52	60 (24 Hourly)
2	Particulate Matter 10 (PM ₁₀)	IS 5182 (Part - 23): 2006 Reaffirmed 2012	µg/m ³	83	81	80	79	76	75	100 (24 Hourly)
3	Sulphur dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	µg/m ³	10.2	10.3	10.5	9.9	10.2	9.8	80 (24 Hourly)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part - 6): 2006 1st Revision	µg/m ³	41.0	40.2	41.2	40.8	40.6	40.3	80 (24 Hourly)
5	Ozone as O ₃	APHA (AIR), 2nd Edition (Analytical method)	µg/m ³	36.6	35.8	36.6	36.3	36.2	35.8	180 (1 Hourly)
6	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 Indophenol method, As per CPCB Guide line	µg/m ³	10.6	10.4	10.8	11.0	10.5	10.7	400 (24 Hourly)
7	Carbon-monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	2.11	2.21	2.17	2.19	2.09	1.07	04 (1 Hourly)
8	Lead as Pb	IS 5182 (Part - 22): 2004 Reaffirmed 2009	µg/m ³	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.0 (24 Hourly)
9	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method), As per CPCB Guide line	ng/m ³	<5	<5	<5	<5	<5	<5	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method), As per CPCB Guide line	ng/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part-II): 2006, 2nd Revision	µg/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part-12): 2004, 1st Revision	ng/m ³	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0

for R. V. BRIGGS & CO. (P) LTD.

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TEST REPORT

No. AP/11/05/20

Date: 22nd December 2020

Page 1 of 1

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Ambient Air
Location : KJST Iron, Mn. & Bauxite Ore Mines (Jaldihi Village)

ENVIRONMENTAL CONDITION:

Barometric Pressure: 745 - 751 mm Hg,

Temperature: 15.0°C - 25.0°C

TEST FINDINGS: -

Sl. No	Test Parameters	Test Methods	Unit	Results (Time Weighted Avg.)						Norms as per MOE & F Notification New Delhi, 16th Nov. 2009
				01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1	Particulate Matter 2.5 (PM _{2.5})	USEPA 1997a, 40 CFR Part 50, Appendix L.	µg/m ³	55	59	61	57	53	52	60 (24 Hourly)
2	Particulate Matter 10 (PM ₁₀)	IS 5182 (Part - 23): 2006 Reaffirmed 2012	µg/m ³	88	81	80	83	83	82	100 (24 Hourly)
3	Sulphur dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	µg/m ³	9.5	9.3	9.4	9.6	9.3	9.1	80 (24 Hourly)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part - 6): 2006 1st Revision	µg/m ³	41.1	40.1	40.7	40.5	41.3	40.7	80 (24 Hourly)
5	Ozone as O ₃	APHA (AIR), 2nd Edition (Analytical method)	µg/m ³	42.6	42.5	42.4	42.1	42.3	42.3	180 (1 Hourly)
6	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 Indophenol method, As per CPCB Guide line	µg/m ³	10.3	10.5	10.4	10.1	10.3	10.5	400 (24 Hourly)
7	Carbon-monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	2.14	2.10	1.98	2.11	2.07	2.00	04 (1 Hourly)
8	Lead as Pb	IS 5182 (Part - 22): 2004 Reaffirmed 2009	µg/m ³	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.0 (24 Hourly)
9	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method), As per CPCB Guide line	ng/m ³	<5	<5	<5	<5	<5	<5	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method), As per CPCB Guide line	ng/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part-II): 2006, 2nd Revision	µg/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part-12): 2004, 1st Revision	ng/m ³	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0

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TEST REPORT

No. AP/11/06/20

Date: 22nd December 2020

Page 1 of 1

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Ambient Air
Location : KJST Iron, Mn. & Bauxite Ore Mines (Sidimba Village)

ENVIRONMENTAL CONDITION: Barometric Pressure: 745 - 751 mm Hg, Temperature: 15.0°C - 25.0°C
TEST FINDINGS: -

Sl. No	Test Parameters	Test Methods	Unit	Results (Time Weighted Avg.)						Norms as per MOE & F Notification New Delhi, 16th Nov. 2009
				01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1	Particulate Matter 2.5 (PM _{2.5})	USEPA 1997a, 40 CFR Part 50, Appendix L.	µg/m ³	60	61	55	51	53	57	60 (24 Hourly)
2	Particulate Matter 10 (PM ₁₀)	IS 5182 (Part - 23): 2006 Reaffirmed 2012	µg/m ³	88	90	94	98	89	88	100 (24 Hourly)
3	Sulphur dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	µg/m ³	9.2	10.0	9.9	9.6	9.2	9.9	80 (24 Hourly)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part - 6): 2006 1st Revision	µg/m ³	41.0	40.9	40.7	41.2	41.3	40.7	80 (24 Hourly)
5	Ozone as O ₃	APHA (AIR), 2nd Edition (Analytical method)	µg/m ³	42.3	41.8	41.7	42.0	42.4	42.7	180 (1 Hourly)
6	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 Indophenol method, As per CPCB Guide line	µg/m ³	10.2	10.2	10.7	9.8	10.3	10.8	400 (24 Hourly)
7	Carbon-monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	2.11	2.17	2.01	2.15	2.01	1.99	04 (1 Hourly)
8	Lead as Pb	IS 5182 (Part - 22): 2004 Reaffirmed 2009	µg/m ³	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.0 (24 Hourly)
9	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method), As per CPCB Guide line	ng/m ³	<5	<5	<5	<5	<5	<5	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method), As per CPCB Guide line	ng/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part-II): 2006, 2nd Revision	µg/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part-12): 2004, 1st Revision	ng/m ³	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0

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TEST REPORT

No. AP/11/07/20

Date 22nd December 2020

Page 1 of 1

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Ambient Air
Location : KJST Iron, Mn. & Bauxite Ore Mines (Mechanical Garage) Near Dump.

ENVIRONMENTAL CONDITION:

Barometric Pressure: 745 - 751 mm Hg,

Temperature: 15.0°C - 25.0°C

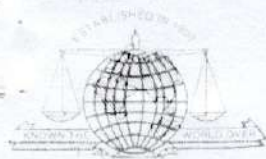
TEST FINDINGS: -

Sl. No	Test Parameters	Test Methods	Unit	Results (Time Weighted Avg.)						Norms as per MOE & F Notification New Delhi, 16th Nov. 2009
				01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1	Particulate Matter 2.5 (PM _{2.5})	USEPA 1997a, 40 CFR Part 50, Appendix L.	µg/m ³	60	61	63	65	68	69	60 (24 Hourly)
2	Particulate Matter 10 (PM ₁₀)	IS 5182 (Part - 23): 2006 Reaffirmed 2012	µg/m ³	81	80	81	86	82	86	100 (24 Hourly)
3	Sulphur dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	µg/m ³	9.2	9.3	8.9	9.0	8.2	8.8	80 (24 Hourly)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part - 6): 2006 1st Revision	µg/m ³	40.1	39.8	39.0	40.2	40.0	39.8	80 (24 Hourly)
5	Ozone as O ₃	APHA (AIR), 2nd Edition (Analytical method)	µg/m ³	42.2	42.8	41.8	41.9	41.9	42.0	180 (1 Hourly)
6	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 Indophenol method, As per CPCB Guide line	µg/m ³	10.3	10.5	10.2	10.4	9.9	10.0	400 (24 Hourly)
7	Carbon-monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	2.10	2.12	2.07	2.12	2.08	2.11	04 (1 Hourly)
8	Lead as Pb	IS 5182 (Part - 22): 2004 Reaffirmed 2009	µg/m ³	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.0 (24 Hourly)
9	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method), As per CPCB Guide line	ng/m ³	<5	<5	<5	<5	<5	<5	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method), As per CPCB Guide line	ng/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part-II): 2006, 2nd Revision	µg/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part-12): 2004, 1st Revision	ng/m ³	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0

for R. V. BRIGGS & CO. (P) LTD.

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TEST REPORT

No. AP/11/08/20

Date: 22nd December 2020

Page 1 of 1

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Ambient Air
Location : KJST Iron, Mn. & Bauxite Ore Mines (Mines Office)

ENVIRONMENTAL CONDITION:

Barometric Pressure: 745 - 751 mm Hg,

Temperature: 15.0°C - 25.0°C

TEST FINDINGS: -

Sl. No	Test Parameters	Test Methods	Unit	Results (Time Weighted Avg.)						Norms as per MOE & F Notification New Delhi, 16 th Nov. 2009
				01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1	Particulate Matter 2.5 (PM _{2.5})	USEPA 1997a, 40 CFR Part 50, Appendix L.	µg/m ³	59	55	51	53	56	50	60 (24 Hourly)
2	Particulate Matter 10 (PM ₁₀)	IS 5182 (Part - 23): 2006 Reaffirmed 2012	µg/m ³	83	81	80	79	86	82	100 (24 Hourly)
3	Sulphur dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	µg/m ³	9.0	9.3	8.3	8.7	8.5	8.3	80 (24 Hourly)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part - 6): 2006 1st Revision	µg/m ³	39.4	38.1	39.0	38.6	38.7	39.0	80 (24 Hourly)
5	Ozone as O ₃	APHA (AIR), 2nd Edition (Analytical method)	µg/m ³	42.1	42.1	41.0	41.0	40.0	39.1	180 (1 Hourly)
6	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 Indophenol method, As per CPCB Guide line	µg/m ³	9.3	10.0	10.2	10.5	9.9	9.7	400 (24 Hourly)
7	Carbon-monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	2.10	2.12	2.07	2.12	2.08	2.11	04 (1 Hourly)
8	Lead as Pb	IS 5182 (Part - 22): 2004 Reaffirmed 2009	µg/m ³	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.0 (24 Hourly)
9	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method), As per CPCB Guide line	ng/m ³	<5	<5	<5	<5	<5	<5	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method), As per CPCB Guide line	ng/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part-II): 2006, 2nd Revision	µg/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part-12): 2004, 1 st Revision	ng/m ³	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0

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TEST REPORT

No. AP/11/09/20

Date: 22nd December 2020

Page 1 of 1

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Ambient Air
Location : KJST Iron, Mn. & Bauxite Ore Mines (Orchard)

ENVIRONMENTAL CONDITION:

Barometric Pressure: 745 - 751 mm Hg,

Temperature: 15.0°C - 25.0°C

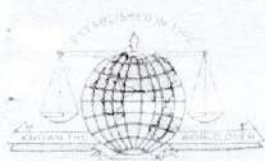
TEST FINDINGS: -

Sl. No	Test Parameters	Test Methods	Unit	Results (Time Weighted Avg.)						Norms as per MOE & F Notification New Delhi, 16th Nov. 2009
				01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1	Particulate Matter 2.5 (PM _{2.5})	USEPA 1997a, 40 CFR Part 50, Appendix L.	µg/m ³	53	55	50	58	53	54	60 (24 Hourly)
2	Particulate Matter 10 (PM ₁₀)	IS 5182 (Part - 23): 2006 Reaffirmed 2012	µg/m ³	81	84	88	83	81	84	100 (24 Hourly)
3	Sulphur dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	µg/m ³	9.0	9.0	9.2	8.9	9.1	8.8	80 (24 Hourly)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part - 6): 2006 1st Revision	µg/m ³	39.3	38.2	39.0	38.8	38.9	39.0	80 (24 Hourly)
5	Ozone as O ₃	APHA (AIR), 2nd Edition (Analytical method)	µg/m ³	41.3	40.8	40.9	40.1	40.0	39.1	180 (1 Hourly)
6	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 Indophenol method, As per CPCB Guide line	µg/m ³	10.0	10.2	10.3	9.8	9.6	9.7	400 (24 Hourly)
7	Carbon-monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	2.11	2.11	2.08	2.13	2.07	2.10	04 (1 Hourly)
8	Lead as Pb	IS 5182 (Part - 22): 2004 Reaffirmed 2009	µg/m ³	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.0 (24 Hourly)
9	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method), As per CPCB Guide line	ng/m ³	<5	<5	<5	<5	<5	<5	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method), As per CPCB Guide line	ng/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part-II): 2006, 2nd Revision	µg/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part-12): 2004, 1st Revision	ng/m ³	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0

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TEST REPORT

No. AP/11/10/20

Date 22nd December 2020

Page 1 of 1

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Ambient Air
Location : KJST Iron, Mn. & Bauxite Ore Mines (Canteen)

ENVIRONMENTAL CONDITION: TEST FINDINGS: -

Barometric Pressure: 745 - 751 mm Hg,

Temperature: 15.0°C - 25.0°C

Sl. No	Test Parameters	Test Methods	Unit	Results (Time Weighted Avg.)						Norms as per MOE & F Notification New Delhi, 16th Nov. 2009
				01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1	Particulate Matter 2.5 (PM _{2.5})	USEPA 1997a, 40 CFR Part 50, Appendix L	µg/m ³	56	55	57	57	55	52	60 (24 Hourly)
2	Particulate Matter 10 (PM ₁₀)	IS 5182 (Part - 23): 2006 Reaffirmed 2012	µg/m ³	82	80	88	85	83	87	100 (24 Hourly)
3	Sulphur dioxide as SO ₂	IS 5182 (Part - 2): 2001 Reaffirmed 2006	µg/m ³	9.0	9.1	8.3	8.5	8.4	8.1	80 (24 Hourly)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part - 6): 2006 1st Revision	µg/m ³	38.9	38.6	38.8	39.1	38.5	38.7	80 (24 Hourly)
5	Ozone as O ₃	APHA (AIR), 2nd Edition (Analytical method)	µg/m ³	40.3	40.2	41.7	40.9	40.6	40.0	180 (1 Hourly)
6	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 Indophenol method, As per CPCB Guide line	µg/m ³	9.6	9.0	10.0	10.3	9.9	10.3	400 (24 Hourly)
7	Carbon-monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	2.11	2.10	2.07	2.05	2.11	2.13	04 (1 Hourly)
8	Lead as Pb	IS 5182 (Part - 22): 2004 Reaffirmed 2009	µg/m ³	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.0 (24 Hourly)
9	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method), As per CPCB Guide line	ng/m ³	<5	<5	<5	<5	<5	<5	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method), As per CPCB Guide line	ng/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part-II): 2006, 2nd Revision	µg/m ³	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part-12): 2004, 1st Revision	ng/m ³	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0

for R. V. BRIGGS & CO. (P) LTD.

Verified by

Authorized Signatory



R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

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TEST REPORT

No. AP/NOIS/11/01/20

Date 22nd December 2020

Page 1 of 1

NOISE LEVEL STUDY

Name of Industry : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Noise Level
Location : KJST Iron, Mn. & Bauxite Ore Mines

Temperature: 17.0°C - 25.0°C

Sl. No.	Location	Unit	Results						Limit (As per norms of Pollution Control Board, Orissa)
			01.10.20	15.10.20	01.11.20	15.11.20	01.12.20	15.12.20	
1.	Quarry No. 1 (Iron)	dB (A) Leq	72.0	72.3	72.4	72.9	73.0	73.5	85 Max.
2.	Near Screening Unit	dB (A) Leq	71.4	71.3	72.0	72.4	71.2	71.1	

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TEST REPORT

W-21/20

WATER ANALYSIS REPORT

Name of Client : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Description of Sample : Surface Water
Collection Sources : Teherai Nala Upstream - W1
Teherai Nala Downstream - W2
Date of Sample Collection : 18.12.20
Sample Received On : 19.12.20 Analysis Completed On : 22.12.20

A. PHYSICAL TEST FINDING:

1. Appearance: Clear
2. Colour: Clear
3. Odour: Unobjectionable

B. CHEMICAL TEST FINDING:

Sl. No	Test Parameter	Test Method	Unit	Results		Limit as per IS 2296 Class C
				W1	W2	
1.	pH Value	IS: 3025 (Part-11): 1983 Reaffirmed 2012	-	6.5	7.4	6.5-8.5
2.	Total Dissolved Solids	IS: 3025 (Part-16): 1984 Reaffirmed 2012	mg/l	160	171	1500 (Max.)
3.	Oil & Grease	APHA 23rd edition 5520B	mg/l	<0.1	<0.1	0.1 (Max.)
4.	Biochemical Oxygen Demand for 3 days at 27°C	I.S. 3025 (Part - 44) - 1993	mg/l	<3	<3	3.0 (Max.)
5.	Dissolved Oxygen	APHA 23rd Edition 4500 OC IS 3025 (Part 38) 1989, Reaffirmed 1999	mg/l	6.9	7.1	4.0 (Min.)
6.	Total Suspended Solids as TSS	APHA 23rd edition 2540D	mg/l	27	30	-----
7.	Chemical Oxygen Demand as COD	APHA 23rd edition 5220B	mg/l	13	17	-----

Note:

Minimum detection limit of BOD - 5.0mg/l

for R. V. BRIGGS & CO. (P) LTD.

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TEST REPORT

W-22/20

WATER ANALYSIS REPORT

Name of Client : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Location : KJST Iron, Manganese & Bauxite Ore Mines
Description of Sample : Drinking Water
Collection Sources : Bore well, Near Orchard
Date of Sample Collection : 18.12.20
Sample Received On : 19.12.20 Analysis Completed On : 22.12.20

Sl. No.	Test Parameter	Test Methods	Unit	Norms as per IS 10500-2012	Norms as per IS: 10500, 2012 2nd Rev.
1.	Coliform organism/100 ml	IS : 1622	MPN	Absent	Absent in 100ml
2.	E.coli/100 ml	IS: 1622	MPN	Absent	Absent

B. PHYSICAL TEST FINDING:

1. Appearance: Clear
2. Colour: Clear
3. Odour: Unobjectionable

C. CHEMICAL TEST FINDING:

Sl. No.	Test Parameter	Test Method	Unit	Results	Norms as per IS 10500-2012 2nd Rev.	
					Acceptable Limit	Permissible Limit
1.	Turbidity	IS: 3025 (Part-10): 1984 Reaffirmed 2012	NTU	<1	1.0 Max.	5.0 Max.
2.	pH Value	IS: 3025 (Part-11): 1983 Reaffirmed 2012	--	7.1	6.5-8.5	N.R
3.	Total Dissolved Solids	IS: 3025 (Part-16): 1984 Reaffirmed 2012	mg/l	383	500 Max.	2000 Max.
4.	Alkalinity as CaCO ₃	IS: 3025 (Part-23) 1986	mg/l	91	200 Max.	600 Max.
5.	Silica as SiO ₂	IS 3025 (Part 35) 1988	mg/l	17	--	--
6.	Iron as Fe	IS: 3025 (Part-53): 2003 Reaffirmed 2009	mg/l	0.35	0.3.0 Max.	N.R.
7.	Calcium as Ca	IS: 3025 (Part-40) - 1991 Reaffirmed 2009	mg/l	59	75 Max.	200 Max.
8.	Magnesium as Mg	IS: 3025 (Part-46): 1994 Reaffirmed 2009	mg/l	21	30 Max.	100 Max.
9.	Sulphate as SO ₄	IS: 3025 (Part-24) - 1986 Reaffirmed 2009	mg/l	8.2	200 Max.	400 Max.
10.	Chloride as Cl	IS: 3025 (Part-32): 1988 Reaffirmed 2009	mg/l	144	250 Max.	1000 Max.
11.	Nitrate as NO ₃	IS: 3025 (Part-34): 1988 Reaffirmed 2009	mg/l	0.71	45 Max.	N.R
12.	Total Hardness as CaCO ₃	IS: 3025 (Part-21) - 2009	mg/l	217	200 Max.	600 Max
	a) Temporary Hardness		mg/l	90	--	--
	b) Permanent Hardness		mg/l	127	--	--

Note:- 1. N.R- No Relaxation

Remarks:- Bacteriologically & Chemically

Satisfactory in respect of the above mentioned parameter

for R. V. BRIGGS & CO. (P) LTD.

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TEST REPORT

W-23/20

WATER ANALYSIS REPORT

Name of Client : Prabodh Mohanty, C/o. M/s. S. N. Mohanty
Address : Barbil, Keonjhar, (Odisha)
Location : KJST Iron, Manganese & Bauxite Ore Mines
Description of Sample : Drinking Water
Collection Sources : Bore well, Near Office, (Weigh Bridge No-2)
Date of Sample Collection : 18.12.20
Sample Received On : 19.12.20 Analysis Completed On : 22.12.20

Sl. No.	Test Parameter	Test Methods	Unit	Norms as per IS 10500-2012	Norms as per IS: 10500, 2012 2nd Rev.
1.	Coliform organism/100 ml	IS : 1622	MPN	Absent	Absent in 100ml
2.	E.coli/100 ml	IS: 1622	MPN	Absent	Absent

B. PHYSICAL TEST FINDING:

1. Appearance: Clear

2. Colour: Clear

3. Odour: Unobjectionable

C. CHEMICAL TEST FINDING:

Sl. No.	Test Parameter	Test Method	Unit	Results	Norms as per IS 10500-2012 2nd Rev.	
					Acceptable Limit	Permissible Limit
1.	Turbidity	IS: 3025 (Part-10): 1984 Reaffirmed 2012	NTU	<1	1.0 Max.	5.0 Max.
2.	pH Value	IS: 3025 (Part-11): 1983 Reaffirmed 2012	--	6.9	6.5-8.5	N.R
3.	Total Dissolved Solids	IS: 3025 (Part-16): 1984 Reaffirmed 2012	mg/l	372	500 Max.	2000 Max.
4.	Alkalinity as CaCO ₃	IS: 3025 (Part-23) 1986	mg/l	82	200 Max.	600 Max.
5.	Silica as SiO ₂	IS 3025 (Part 35) 1988	mg/l	12	--	--
6.	Iron as Fe	IS: 3025 (Part-53): 2003 Reaffirmed 2009	mg/l	0.21	0.3.0 Max.	N.R.
7.	Calcium as Ca	IS: 3025 (Part-40) - 1991 Reaffirmed 2009	mg/l	60	75 Max.	200 Max.
8.	Magnesium as Mg	IS: 3025 (Part-46): 1994 Reaffirmed 2009	mg/l	18	30 Max.	100 Max.
9.	Sulphate as SO ₄	IS: 3025 (Part-24) - 1986 Reaffirmed 2009	mg/l	6.6	200 Max.	400 Max.
10.	Chloride as Cl	IS: 3025 (Part-32): 1988 Reaffirmed 2009	mg/l	148	250 Max.	1000 Max.
11.	Nitrate as NO ₃	IS: 3025 (Part-34): 1988 Reaffirmed 2009	mg/l	0.72	45 Max.	N.R
12.	Total Hardness as CaCO ₃	IS: 3025 (Part-21) - 2009	mg/l	225	200 Max.	600 Max
	a) Temporary Hardness		mg/l	82	--	--
	b) Permanent Hardness		mg/l	143	--	--

Note:- 1. N.R- No Relaxation

Remarks:- Bacteriologically & Chemically

Satisfactory in respect of the above mentioned parameter

for R. V. BRIGGS & CO. (P) LTD.

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Annexure - 2

Plantation Details of KJST (Jaldihj) Iron, Manganese & Bauxite Mine of S.N. Mohanty

Year	Number of Species planted	Name of the Species Planted	Area covered (in hec.s.)
Upto 2009-10	28500		
2010-11	5000	karanj, shisha, Teak etc	7.466 ha (surrendered Mlarea)
2011-12	5000	karanj, shisha. Teak etc	Gap plantation
2012-13	5000	karanj, shisha. Teak etc	Gap plantation
		karanj, shisha. Teak etc	Gap plantation
2013-14	10000	Simbarua, Karanj, Shisha, Teak, etc	Gap plantation in safety zone over 9.778 ha area
2014-15	7500	Chakunda, Shmbarua, Teak, etc	Safety zone plantation .
2015-16	6000	Chakunda, Shmbarua, etc	Safety zone plantation .
2016-17	8000	Chakunda, Shmbarua, etc	1.00 ha backfilled area
2017-18	8000	Chakunda, Shmbarua, etc	safety zone plantation in between pillar No.17 to 18.
2018-19	5000	Neam, arjun, mango, Karang, etc	In orchard area, Gap plantation over safety zone, & in between pillar No.11,12 &13.
2019-20	14200	Neam, arjun, mango, Karang, etc	Out side the M.L area, kalmanga & jaldhi village road and School Area, Forest Land of 3.96 ha area.
2020-21	7800		Gap plantation with in safety zone and dump area.
	110000		

