

Ref: JSL/BHL/L-Mines/2018-19/88

Date: 01.06.2019

To,

**The Secretary,  
Ministry of Environment, Forest and Climate Change,  
Government of India, Indra Paryavaran Bhawan,  
Jor Bagh Road, New Delhi, Pin-110003**

**Sub: Half Yearly compliance report of environment clearance conditions of Lampiya Iron Ore, Copper and Associated Minerals Mine (MLNo.627/05) located near Vill: Lampiya in Distt. Bhilwara (Raj).**

**Ref: Environment Clearance letter No. J-11015/460/2008-IA-II (M) dated 31.05.2011**

Dear Sir,

With reference to the above subject matter and environment clearance letter dated 31.05.2011, we are submitting herewith Half Yearly point-wise compliance report of conditions of the above environment clearance for the period from 1<sup>st</sup> Oct' 2018 to 31<sup>st</sup> Mar' 2019.

As a part of this compliance report we are enclosing summarized environment result which is based upon Environment Monitoring and analysis carried out by MoEF and NABL accredited lab. Original report (133 pages) also uploaded in company website on routine basis and will provide the same if required. The details of Summarized Monitoring reports enclosed are mentioned below:

1. **Summarized Quarterly Ambient Air Quality Monitoring Result - Annexure (I)**
2. **Summarized Fortnightly Ambient Air Quality Monitoring Result - Annexure (II)**
3. **Summarized Ground and Surface Water Quality Analysis Result - Annexure (III)**
4. **Summarized Ambient Noise Level Monitoring Result-Annexure (IV)**

This is for your kind information and record.

Thanking you,

Yours faithfully,

**For: Jindal Saw Ltd.**

  
**Dinesh Patil**

**Agent – Lampiya Iron Ore Mine**

Encl: a/a

**Copy to:**

1. Regional Office, Ministry of Environment, Forest and Climate Change, Kendriya Bhawan, 5<sup>th</sup> Floor, Sector-H, Aliganj, Lucknow- 226024 (U.P.)
2. Zonal Office, Central Pollution Control Board (CPCB), Sahkar Bhawan, 3<sup>rd</sup> Floor, North TT Nagar, Bhopal- 462003 (M.P.)
3. The Chairman, Rajasthan State Pollution Control Board, 4 Institutional Area, Jhalana Doongri, Jaipur- 302004 (Rajasthan)
4. The Regional Officer, Rajasthan State Pollution Control Board 18, Azad Nagar, Pannadhai Circle, Bhilwara-Rajasthan, Pin-311001

(EC granted vide MoEF IA Division letter No.J-11095 /460/2008 IA.II (M) Dated,31.05.2011)

Period of Report: 01<sup>st</sup> Oct' 2018 to 31<sup>st</sup> Mar' 2019

	Specific Conditions	Compliance Status
i.	The project proponent shall obtain Consent to Establish and Consent to Operate from the Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein.	a. The Consent to Establish was granted by RSPCB on 28.06.2012. b. The Consent to Operate the Mine was granted by RSPCB on 24.02.2014 which was valid upto 31.01.2017. CTO renewal granted by RPCB on 21.03.2017 which is valid upto 31.01.2022.
ii.	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India in Contempt Petition (C) 412/2004 in IA No. 833 in Writ Petition (C)No. 202 of 1995.	We shall abide by the final outcome of Hon'ble Supreme Court of India as may be applicable to this Project.
iii.	The environmental clearance is subject to approval of the State Land use Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use, as may be applicable to this project.	No mining activity will be conducted in the agricultural land without approval of State Land Use deptt.
iv.	Necessary prior permission from the Competent Authority as may be applicable for use of grazing land for mining purpose shall be obtained.	Necessary prior permission will be obtained before mining is started in grazing land.
v.	The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land.	Work is confined within Government waste/barren land. As and when required we shall develop fodder plots in non-mineralized area in lieu of use of grazing land.
vi.	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the seasonal nallahs passing through the mine lease during the course of mining operation.	No natural water course/ resources are obstructed due to mining. The seasonal nallah lies far away from the mine workings and will not be obstructed.
vii.	The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	No top soil was generated during the compliance period from 01.10.2018 to 31.03.2019.

viii.	<p>The over burden 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. Backfilling shall commence from the 13th years onwards. There shall be four external dumps. Proper terracing of OB dumps shall be carried out so that the overall slope of dumps shall not exceed 28 degree. The over burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment &amp; Forests and its Regional Office located at Lucknow on six monthly basis.</p>	<p>The OB generated from the mine is utilized for road making and levelling of other depressed ground within the lease area as required. OB is being stacked only at earmarked places. Compliance status is submitted to the Ministry of Environment and Forest and its Regional Office at Lucknow on six monthly basis. We assure that all conditions will be complied with, overall slope of the waste dump is being maintained at 28 degree and mature dumps will be vegetated.</p> <p><b>46880</b> Tonnes OB was generated during the compliance period from 01.10.2018 to 31.03.2019.</p>
ix.	<p>Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, soil, OB and mineral dumps to arrest flow of silt and sediment directly into the agricultural fields and water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after the monsoon and maintained properly.</p> <p>Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and the OB dumps to prevent run off of water and flow of sediments directly into the agricultural fields and water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>Garland drains, check dams and settling tanks shall be constructed as stipulated.</p> <p>At present mining is done on smaller scale, Garland drains, settling tank will be constructed and maintained as when required.</p>
x.	<p>Dimension of the retaining wall at the toe of the OB dump(s) and the OB benches within the mine to check run-off and siltation should be based on the rain fall data.</p>	<p>As per mining plan external dumps of OB have been created within the mine lease area. Retaining wall has been constructed to check runoff. The retaining wall is made around the dump 1.5 meter height 2.0 meter wide at ground level and 1.5 meter wide at top. It has been constructed with stone.</p>

xi.	Plantation shall be raised in an area of 133.03ha including a 7.5m wide green belt in the safety zone around the mining lease, OB dumps, along the roads etc. by planting the native species in consultation with the local DFO Agriculture Department. The density of the trees should be around 1000 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	<p>Stage-wise plantation programme has been raised. At present mining operation is on a small scale within limited area. We have started plantation and shall plant trees as per state govt. circular and approved mine plan.</p> <p>Plantation has been raised inside the mine lease in 3.0 hectare area by the end of Mar 2019. Photographs of plantation have been submitted to MoEF Regional Office, Lucknow on 03.08.2017.</p>
xii.	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as crusher zone, loading and unloading point and all transfer points during handling of the ore. Extensive water sprinkling shall be carried out on roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Effective water sprinkling is done to suppress the dust at the mine face, haul road and loading and unloading points.
xiii.	Continuous monitoring of the RSPM level near the crusher house shall be carried out and records maintained. If any stage the levels are found to be exceeding the prescribed limits, the necessary mitigation measures shall be implemented.	Monitoring of RSPM is done near the mining face. Crusher has not been installed. It will be implemented after crusher is installed. The AAQ monitoring reports for the period of Oct' 2018 to Mar' 2019 are enclosed in <b>Annexure- I &amp; II</b>
xiv.	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Ground water is not being abstracted. The construction of ground water recharge measures for augmenting the ground water resources of the area shall be implemented before ground water is intersected.
xv.	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 piezometer 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 Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the	<p>Monitoring of ground water quality and level has been carried out of existing wells. The quality is noted to be within permissible limits. The copies of the Reports for the period of Oct' 2018 to Mar' 2019 are enclosed as <b>Annexure-III</b></p> <p>Since the mining has been done above the ground level, the ground water has not been affected.</p>

	groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	
xvi.	Prior permission from the Competent Authority shall be obtained for use of groundwater for the project.	Prior permission has been obtained vide letter dated 21.02.2011. Ground water is not being abstracted.
xvii.	It shall be ensured that the adequate quantity of safe drinking water is provided to the villagers in the area where fluoride levels are found to be high.	Defluoridization Plant will be installed to supply drinking water to villagers.
xviii.	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	We are in consultation with the Central Ground Water Board in this regard. Construction of the ground water recharge structures will be started as stipulated.
xix.	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operation and in transportation of mineral. The vehicles carrying the mineral shall be covered with a tarpaulin and shall not be overloaded.	The stipulation is being complied with.
xx.	The dust generated during mining operation shall be scavenged.	Dust generated during mining is scavenged by water spraying.
xxi.	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Mining has been started on a very small scale without heavy blasting hence no ground vibration is caused and throw of rocks is limited by controlled blasting.
xxii.	Drills shall either be operated with dust extractors or equipped with water injection system.	The jack hammer drills are operated with dust extractors.
xxiii.	Mineral handling area shall be provided with the 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.	Mining is done on a very small scale. Water sprinkling is done in mineral handling area, at loading and unloading points. This system is found to be effective.
xxiv.	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and the wastewater generated during mining operation.	No colony or workshop has been constructed as yet. No waste water is being generated during mining.
xxv.	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to MOEF and its regional office.	Digital processing of the entire lease area using remote sensing technique has been done and submitted with EIA & EMP report. The Mine was opened on 08.04.2014 after receipt of CTO on 24.02.2014.

		<p>Final Digital processing (Land Use /Land Cover study report has been submitted to MoEF&amp;CC on 21.11.2017 along with compliance report.</p>
xxvi.	<p>The project authorities should undertake sample survey to generate data on pre-project community health status within a radius of 1 km from proposed mine.</p>	<p>The Pre-project community health status within a radius of 1.0 km from the project site has been conducted and submitted to RPCB along with the application for grant of Consent to Operate.</p>
xxvii.	<p>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, schedule of health examination of the workers should be drawn and followed accordingly.</p>	<p>Pre-placement medical examination of workers is being carried out as required under Mines Rules, 1955.</p>
xxviii.	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Construction workers are from nearby villages. After end of days work they go back to their houses. Therefore, need for temporary structures have not arisen.</p>
xxix.	<p>The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM10) and NOx 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 <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in this regard for its compliance.</p>	<p>The Instructions contained in circular No. J-20012/12006-IA.II (M) dated 27.05.09 issued by MoEF&amp;CC has been noted and is being complied with.</p> <p>As per circular fortnightly AAQ monitoring is under practice in mine lease area. The monitoring reports for the period of 1<sup>st</sup> Oct' 2018 to 31<sup>st</sup> Mar' 2019 are enclosed as <b>Annexure- II</b>.</p>
xxx.	<p>A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment &amp; Forests 5 years in advance of final mine closure for approval.</p>	<p>The Final Mine Closure Plan shall be submitted as per rules.</p>

**B. General Condition :**

i.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	No change has been made in mining technology and scope of working. Opencast mining is done by mechanized mine method for upto 10m high and 15m wide benches.
ii.	No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.	No change will be made in the calendar plan.
iii.	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department.	Conservation measure detail for protection of flora and fauna in the core and buffer has been prepared in consultation with the local forest and wildlife department. Copy of the same been sent to MoEF&CC, Regional Office Lucknow on 03.08.2017.
iv.	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter size less than 10micron i.e., PM 10) & NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Ambient air quality monitoring was carried out by MoEF & GOI approved agency in Oct' 2018 to Mar' 2019 and it has been noticed that the AAQ is within permissible limits. The summarized monitoring reports are enclosed as <b>Annexure – I &amp; II</b> .  Four ambient air quality monitoring stations in each of Core zone and Buffer zone have been established as per approved plan for monitoring the AAQ.
v.	Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM 10) & NOx should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.	The summarized Ambient Air quality monitoring reports for the period of Oct' 2018 to Mar' 2019 are enclosed as <b>Annexure- I &amp; II</b> . The reports are submitted to MoEF&CC and its Regional Office located at Lucknow, RPCB and CPCB.
vi.	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	The fugitive dust emissions from all the sources are being controlled regularly. Regular water spraying arrangement on haul roads, loading and unloading points has been made and maintained properly. Fugitive emission monitoring reports are enclosed as <b>Annexure-IV</b> .
vii.	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Proper measures are being taken for control of noise in the work environment area. The monitoring reports are enclosed as <b>Annexure- V</b> . Proper PPE is being provided to the workers engaged in the operations.

viii.	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	No industrial waste water has been generated till date. Proper arrangement will be made to collect the waste water whenever it will be generated.
ix.	<p>Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.</p> <p>Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.</p>	Pre-employment Medical Tests examination is under practice. It is being repeated periodically to observe any contractions due to exposure of dust.
x.	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	The Cell has been set up under the control of a Senior Executive who reports directly to the President & Unit Head.
xi.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Lucknow.	Separate Fund has been earmarked for environment protection measures.
xii.	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The date of financial closure of the company is 31 <sup>st</sup> March of every year. The final approval of the Project as Consent to Operate has been given by RPCB on 24.02.2014. The land development was started from April' 2014.
xiii.	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	The instruction has been noted. The Regional Officer, Lucknow has been provided with all the information asked by them.
xiv.	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by email) to the Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the	The Compliance Report for the period from 01 <sup>st</sup> Oct' 2018 to 31 <sup>st</sup> Mar' 2019 is enclosed herewith.

	status of compliance of the environmental clearance 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 the Ministry of Environment and Forests, Lucknow, the respective Zonal Office of Central Pollution Control Board and the SPCB.	
xv.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	The copy of the Clearance letter has been sent to all concerned and it has been put on the website of the Company.
xvi.	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/ Tehsildar's Office for 30 days.	It has been done by RSPCB.
xvii.	The environmental statement for each financial year ending 31 <sup>st</sup> 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 also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to Regional Office of MOEF, Lucknow by e-mail.	Annual Environment Statement for the period of 1 April' 2017 to 31 <sup>st</sup> Mar' 2018 has been submitted to RPCB, Bhilwara Jaipur office MoEF Regional Office Lucknow on 28.09.2018. The soft copy of the same was also sent to MoEF Lucknow through email and uploaded on company website.
xviii.	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	It has been advertised in three Newspapers, namely The Hindu, Rajasthan Patrika and Dainik Bhaskar.  The copies have been forwarded to the Regional Office, MOEF, Lucknow.

For: Jindal Saw Limited



Dinesh Chandra Patil  
Agent- Lampiya Iron Ore Mine

## SUMMARIZED QUARTERLY AMBIENT AIR QUALITY MONITORING RESULTS (OCT 2018 TO MAR 2019)

Lampiya Iron Ore Mines (ML No. 627/05) M/s Jindal Saw Limited

Sr. No.	Monitoring Location/ Parameters	Devpura Village		Kamalpura Village		Lampiya Village		Jaliya Village	
		14.12.2018	10.03.2019	13.12.2018	09.03.2019	13.12.2018	10.03.2019	13.12.2018	11.03.2019
1	PM 10	56.71	69.67	66.20	69.14	75.34	78.72	63.04	64.17
2	PM 2.5	27.69	24.93	24.72	19.16	29.52	22.91	24.98	26.67
3	SPM	181.83	174.19	179.36	192.53	182.54	236.99	181.68	151.13
4	SOx	4.10	6.83	5.90	7.69	6.92	5.58	5.81	6.85
5	Nox	13.51	14.65	16.18	15.19	16.87	13.77	11.77	15.26
6	CO	180.00	290.00	250.00	260.00	310.00	310.00	190.00	190.00
7	Ammonia	BDL(<2.0)	BDL(<10.0)	BDL(<2.0)	BDL(<20.0)	BDL(<2.0)	BDL(<10.0)	BDL(<2.0)	BDL(<2.0)
8	Lead	BDL(<0.1)	BDL(<1.0)	BDL(<0.1)	0.22	BDL(<0.1)	0.2	BDL(<0.1)	0.21
9	Ozone	BDL(<0.20)	BDL(<20.0)	BDL(<0.20)	BDL(<20.0)	BDL(<0.20)	BDL(<20.0)	BDL(<0.20)	BDL(<2.0)
10	Benzene	BDL(<0.1)	BDL(<1.0)	BDL(<0.1)	BDL(<1.0)	BDL(<0.1)	BDL(<1.0)	BDL(<0.1)	BDL(<1.0)
11	Benzo alfa Pyrine	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
12	Arsenic	BDL(<2.0)	BDL(2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)
13	Nickel	BDL(<2.0)	4.9	BDL(<2.0)	4.7	BDL(<2.0)	4.4	BDL(<2.0)	5.1

Sr. No.	Monitoring Location/ Parameters	Chimanpura Village		Baneda Village		Mahuakhurd Village		Mandal Village	
		14.12.2018	11.03.2019	15.12.2018	13.03.2019	14.12.2018	09.03.2019	15.12.2018	13.03.2019
1	PM 10	76.64	63.93	63.92	67.93	72.03	57.88	77.78	78.38
2	PM 2.5	27.85	28.76	24.78	26.88	22.65	27.56	27.83	31.52
3	SPM	217.59	161.92	180.55	204.60	260.81	207.14	211.36	196.66
4	SOx	5.87	5.14	4.28	6.30	5.65	5.71	6.97	7.42
5	Nox	11.32	15.38	14.54	13.63	13.98	13.95	16.39	13.72
6	CO	210.00	260.00	230.00	210.00	280.00	230.00	310.00	280.00
7	Ammonia	BDL(<2.0)	BDL(<10.0)	BDL(<2.0)	BDL(<10.0)	BDL(<2.0)	BDL(<10.0)	BDL(<2.0)	BDL(<10.0)
8	Lead	BDL(<0.1)	0.02	BDL(<0.1)	0.05	BDL(<0.1)	0.11	BDL(<0.1)	0.22
9	Ozone	BDL(<20.0)	BDL(<20.0)	BDL(<20.0)	BDL(<20.0)	BDL(<20.0)	BDL(<20.0)	BDL(<20.0)	BDL(<20.0)
10	Benzene	BDL(<0.1)	BDL(<1.0)	BDL(<0.1)	BDL(<1.0)	BDL(<0.1)	BDL(<1.0)	BDL(<0.1)	BDL(<1.0)
11	Benzo alfa Pyrine	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
12	Arsenic	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)
13	Nickel	BDL(<2.0)	BDL(<2.0)	BDL(<2.0)	4.7	BDL(<2.0)	2.4	BDL(<2.0)	5

Note: Above monitoring result is based upon Environment Monitoring carried out by MoEF and NABL Approved Agency.

## Summarized Fortnightly Ambient Air Quality Monitoring Result Oct 2018 to Mar 2019

Location/ Date of Monitoring	Lampiya Village						Location/ Date of Monitoring	Jaliya Village					
	PM10	PM 2.5	SO2	NOx	CO	SPM		PM10	PM 2.5	SO2	NOx	CO	SPM
	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3		ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
13.10.2018	72.27	29.62	7.98	10.73	270.00	276.28	14.10.2018	62.97	21.64	4.98	9.67	190.00	228.66
29.10.2018	61.52	22.61	4.22	9.65	240.00	212.89	28.10.2018	57.11	26.90	7.05	13.36	210.00	181.53
15.11.2018	80.78	29.34	3.93	11.97	340.00	295.92	15.11.2018	62.34	26.60	6.22	17.69	280.00	293.34
21.11.2018	75.52	32.81	7.48	10.81	2801.00	304.81	22.11.2018	68.74	34.30	3.82	20.10	290.00	267.15
13.12.2018	75.34	29.52	6.92	16.87	310.00	182.54	13.12.2018	63.04	24.98	5.81	11.71	190.00	181.68
25.12.2018	67.45	28.70	6.55	15.26	260.00	216.00	25.12.2018	65.70	25.17	5.28	13.25	230.00	196.00
05.01.2019	80.27	31.61	6.70	18.38	260.00	233.84	05.01.2019	74.78	33.77	5.84	18.70	300.00	257.84
25.01.2019	73.74	33.99	6.36	17.73	280.00	202.85	26.01.2018	78.84	31.95	8.72	22.15	290.00	318.24
04.02.2019	66.44	36.73	6.49	18.14	300.00	268.51	03.02.2019	88.57	40.48	6.72	17.69	260.00	243.09
27.02.2019	66.16	33.31	5.84	18.63	320.00	254.23	28.02.2019	83.07	43.98	4.04	19.80	290.00	299.36
10.03.2019	78.72	22.91	5.58	13.77	310.00	236.99	11.03.2019	64.17	26.67	6.85	15.26	190.00	151.13
17.03.2019	75.26	28.72	7.40	15.30	260.00	243.60	18.03.2019	78.47	23.05	4.40	13.77	180.00	211.70
Min	61.52	22.61	3.93	9.65	240.00	182.54	Min	57.11	21.64	3.82	9.67	180.00	151.13
Max	80.78	36.73	7.98	18.63	2801.00	304.81	Max	88.57	43.98	8.72	22.15	300.00	318.24
Avg	72.79	29.99	6.29	14.77	495.92	244.04	Avg	70.65	29.96	5.81	16.10	241.67	235.81
Location/ Date of Monitoring	Devpura Village						Location/ Date of Monitoring	Kamalpura Village					
	PM10	PM 2.5	SO2	NOx	CO	SPM		PM10	PM 2.5	SO2	NOx	CO	SPM
	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3		ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
14.10.2018	64.56	29.55	5.78	10.94	240.00	199.18	13.10.2018	66.38	28.20	6.80	9.85	230.00	228.59
28.10.2018	63.67	33.13	4.16	14.36	160.00	171.73	29.10.2018	73.17	18.03	6.87	11.72	250.00	181.36
15.11.2018	67.46	33.68	6.68	17.99	260.00	230.71	15.11.2018	75.22	29.87	6.88	14.46	300.00	248.04
22.11.2018	68.26	38.38	7.06	20.08	280.00	344.92	21.11.2018	76.08	27.22	8.49	18.12	300.00	352.34
14.12.2018	56.71	27.69	4.10	13.51	180.00	181.83	13.12.2018	66.20	24.72	5.90	16.18	250.00	179.36
25.12.2018	60.27	22.77	4.71	12.67	210.00	178.00	25.12.2018	63.74	25.37	5.61	14.62	180.00	187.00
07.01.2019	66.68	44.29	6.61	21.15	270.00	233.37	05.01.2019	84.58	48.77	6.70	21.44	290.00	301.57
26.01.2019	65.46	42.49	7.73	22.90	330.00	211.17	25.01.2019	84.18	26.44	6.62	20.65	290.00	331.12
04.02.2019	77.14	32.84	7.31	18.82	310.00	342.54	04.02.2019	65.98	33.50	6.78	21.62	280.00	346.05
28.02.2019	62.50	28.45	4.13	10.35	250.00	209.45	27.02.2019	81.25	39.81	5.10	14.79	300.00	223.63
10.03.2019	69.57	24.93	6.83	14.65	290.00	174.19	09.03.2019	69.14	19.16	7.69	15.19	260.00	192.53
18.03.2019	77.08	23.09	4.91	14.78	220.00	201.06	17.03.2019	72.75	24.87	7.04	14.29	250.00	226.16
Min	56.71	22.77	4.10	10.35	160.00	171.73	Min	63.74	18.03	5.10	9.85	180.00	179.36
Max	77.14	44.29	7.73	22.90	330.00	344.92	Max	84.58	48.77	8.49	21.62	300.00	352.34
Avg	66.61	31.77	5.83	16.02	250.00	223.18	Avg	73.22	28.83	6.71	16.08	265.00	249.81

Note: Above monitoring result is based upon Environment Monitoring carried out by MoEF & NABL Approved Agency.

Ground Water Quality Monitoring Results (Oct 2018 to Mar 2019)									
Lampiya Iron Ore Mines, Jindal Saw Limited, Bhilwara									
Sampling Location:		Jaliya Village		Kamalpuria Village		Lampiya Village		Devpura Village	
Sr. No.	Monitoring Period/ Parameters	Dec-18	Mar-19	Dec-18	Mar-19	Dec-18	Mar-19	Dec-18	Mar-19
	Date of Monitoring	13.12.2018	11.03.2019	13.12.2018	15.03.2019	13.12.2018	11.03.2019	14.12.2018	11.03.2019
1	Color ( Hazen)	Less than 5	Less than 5	Less than 5	Less than 5	Less than 5	Less than 5	Less than 5	Less than 5
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity (NTU)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)
5	pH	7.55	7.13	7.87	7.64	7.45	7.1	7.53	7.31
6	Total Hardness (mg/l)	520	530	240	304	380	348	484	420
7	Iron (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
8	Chloride (mg/l)	180.03	194.76	68.49	76	52.83	45.6	127.19	106.41
9	Total Dissolved Solids (mg/l)	1387	1512	369	609	643	684	940	841
10	Calcium (mg/l)	152	144	54.4	56	83.2	107.2	108.8	99.2
11	Copper (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
12	Magnesium (mg/l)	34.02	41.31	25.27	39.85	41.8	19.44	51.52	58.12
13	Manganese (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
14	Sulphate (mg/l)	163.75	170.5	32.5	37.75	41	29.75	65	58.12
15	Nitrate (mg/l)	34.37	36.7	7.82	23.1	24.28	36.6	29.82	27
16	Fluoride (mg/l)	0.5	0.87	0.96	1.1	0.35	0.6	0.58	0.73
17	Cadmium (mg/l)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
18	Arsenic (mg/l)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
19	lead (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
20	Zinc (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
21	Total Alkalinity (mg/l)	378	390	229.5	216	256	243	310.5	284
22	Aluminium (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
23	Boron (mg/l)	0.42	0.44	0.41	0.35	0.43	0.4	0.39	0.37
24	E Coli, MPN/100 ml	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
25	Total coliform, MPN/100ml	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26	Total Chromium (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
27	Selenium (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
28	Residual Free chlorine (mg/l)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)
29	Mercury (mg/l)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
30	Phenolic Compound (mg/l)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
31	Mineral Oil (mg/l)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
32	Cyanide (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
33	Anionic surface detergents (mg/l)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)
34	Polynuclear aromatic hydrocarbon (mg/l)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)
35	Calcium Hardness (mg/l)	380	360	130	140	268	208	272	248
36	Pesticides, mg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Ground Water Quality Monitoring Results (Oct 2018 to Mar 2019)									
Lampiya Iron Ore Mines, Jindal Saw Limited, Bhilwara									
Sampling Location:		Mahuakhurd Village		Banera Village		Chimpanpura Village		Mandal Village	
Sr. No.	Monitoring Period/ Parameters	Dec-18	Mar-19	Dec-18	Mar-19	Dec-18	Mar-19	Dec-18	Mar-19
	Date of Sampling	15.12.2018	15.03.2019	14.12.2018	11.03.2019	14.12.2018	15.03.2019	15.12.2018	15.03.2019
1	Color ( Hazen)	Less than 5	Less than 5	Less than 5	Less than 5	Less than 5	Less than 5	Less than 5	Less than 5
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity (NTU)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)
5	pH	7.9	7.3	7.66	6.98	7.3	7.38	7.7	7.34
6	Total Hardness (mg/l)	390	480	490	572	240	208	410	424
7	Iron (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
8	Chloride (mg/l)	118.5	123.51	85.53	70.3	38.85	20.9	139.87	144.41
9	Total Dissolved Solids (mg/l)	805	811	712	766	401	396	841	902
10	Calcium (mg/l)	92	113.6	54.4	121.6	40	35.2	132	113.6
11	Copper (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
12	Magnesium (mg/l)	31.59	56.38	14.58	65.12	34.02	29.16	19.44	34.02
13	Manganese (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
14	Sulphate (mg/l)	57.5	74.37	69.37	70.62	13.12	24.12	134.37	158.25
15	Nitrate (mg/l)	23.84	35.4	31.78	27.1	2.35	2.75	11.6	33.2
16	Fluoride (mg/l)	0.67	0.41	0.29	0.45	0.65	0.85	0.64	1.18
17	Cadmium (mg/l)	BDL(<0.001)	BDL(<0.01)	BDL(<0.001)	BDL(<0.01)	BDL(<0.001)	BDL(<0.01)	BDL(<0.001)	BDL(<0.001)
18	Arsenic (mg/l)	BDL(<0.001)	BDL(<0.01)	BDL(<0.001)	BDL(<0.01)	BDL(<0.001)	BDL(<0.01)	BDL(<0.001)	BDL(<0.001)
19	lead (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
20	Zinc (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
21	Total Alkalinity (mg/l)	351	224	334.8	208	135	260	229.5	304
22	Aluminium (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
23	Boron (mg/l)	0.42	0.38	0.42	0.38	0.41	0.45	0.4	0.45
24	E Coli, MPN/100 ml	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
25	Total coliform, MPN/100ml	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26	Total Chromium (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
27	Selenium (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
28	Residual Free chlorine (mg/l)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)
29	Mercury (mg/l)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
30	Phenolic Compound (mg/l)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
31	Mineral Oil (mg/l)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
32	Cyanide (mg/l)	BDL(<0.01)	BDL(<0.10)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
33	Anionic surface detergents (mg/l)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)
34	Polynuclear aromatic hydrocarbon (mg/l)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)
35	Calcium Hardness (mg/l)	230	284	136	304	100	88	330	284
36	Pesticides, mg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Note: Above monitoring result is based upon Environment Monitoring carried out by MoEF and NABL Approved Agency.

**Surface Water Quality Monitoring Results (Oct 2018 to Mar 2019)**  
**Lampiya Iron Ore Mines, Jindal Saw Limited, Bhilwara**

Sampling Location:		Mandal Pond		Chamanpura Pond		Jaliya Canal		Lampiya Pond	
Sr. No.	Monitoring Period/ Parameters	Dec-18	Mar-19	Dec-18	Mar-19				
	Date of Sampling	15.12.2018	15.03.2019.	15.12.2018	15.03.2019				
1	Color ( Hazen)	Less than 5	Less than 5	Less than 5	Less than 5				
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable				
3	Tastè	Agreeable	Agreeable	Agreeable	Agreeable				
4	Turbidity (NTU)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)				
5	pH	7.73	8.06	7.7	7.56				
6	Total Hardness (mg/l)	150	124	90	116				
7	Iron (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)				
8	Chloride (mg/l)	58.28	64.6	18.6	20.9				
9	Total Dissolved Solids (mg/l)	302	310	143	203				
10	Calcium (mg/l)	56	33.6	20	30.4				
11	Copper (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)				
12	Magnesium (mg/l)	2.43	9.72	9.72	9.72				
13	Manganese (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)				
14	Sulphate (mg/l)	20.37	21.62	10.3	20.75				
15	Nitrate (mg/l)	8.75	5.98	5.22	6.91				
16	Fluoride (mg/l)	0.46	0.54	0.4	0.79				
17	Cadmium (mg/l)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)				
18	Arsenic (mg/l)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)				
19	lead (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	Dry	Dry	Dry	Dry
20	Zinc (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)				
21	Total Alkalinity (mg/l)	140.5	124	100	100				
22	Aluminium (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)				
23	Boron (mg/l)	0.45	0.4	0.4	0.36				
24	E Coli, MPN/100 ml	BDL	BDL	BDL	BDL				
25	Total coliform, MPN/100ml	BDL	BDL	BDL	BDL				
26	Total Chromium (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)				
27	Selenium (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)				
28	Residual Free chlorine (mg/l)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)				
29	Mercury (mg/l)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)				
30	Phenolic Compound (mg/l)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)				
31	Mineral Oil (mg/l)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)				
32	Cyanide (mg/l)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)				
33	Anionic surface detergents (mg/l)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)				
34	Polynuclear aromatic hydrocarbon (mg/l)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)	BDL(<0.0001)				
35	Calcium Hardness (mg/l)	140	84	50	76				
36	Pesticides, mg/l	Not Detected	Not Detected	Not Detected	Not Detected				

Note: Above monitoring result is based upon Environment Monitoring carriedout by MoEF and NABL Approved Agency.

Annexure-III

**Summarized Openwell (Apr 2018 to Mar 2019)**

<b>Sr. No.</b>	<b>Location Name</b>	<b>Dec-18</b>	<b>Mar-19</b>
1	Lampiya Village	22.2	21.09
2	Devpura Village	10.48	17.21
3	Jaliya Village	19.17	19.17
4	Kamalpura Village	12.11	10.2
5	Mahuakhurd Village	12.5	16.85
6	Baneda Village	19.2	19.05
7	Chimanpura Village	6.82	12.15
8	Mandal Village	10.13	16.85

Fugitive Emission Monitoring Results (Oct 2018 to Mar 2019)		
Lampiya Iron Ore Mines, Jindal Saw Limited, Bhilwara		
Period	Name of Locations	
	Haul Road	Material (Ore) Storage Yard
	Monitoring Parameter SPM (ug/m3)	
Dec-18	373.45	441.96
Mar-19	463.25	488.88
Min	373.45	441.96
Max	463.25	488.88
Avg	418.35	465.42

### AMBIENT NOISE LEVEL MEASUREMENT REPORT (Oct 2018 to Mar 2019)

Sr. No.	Month/ Location of Sampling	Dec-18		Mar-19	
		Results in dB(A) (Day Time)	Results in dB(A) (Night Time)	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
	<b>Permissible Limits</b>	<b>75.0</b>	<b>70.0</b>	<b>75.0</b>	<b>70.0</b>
01.	Lampiya Village	52.3	43.4	53.2	40.5
02.	Jaliya Village	48.7	37.5	50.7	38.6
03.	Baneda Village	51.7	41.2	50.6	39.6
04.	Chimanpura Village	51.9	43.7	52.3	40.5
05.	Devpura Village	51.2	43.6	52.4	41.3
06.	Kamalpura Village	50.6	40.3	48.5	37.8
07.	Mahuakhurd Village	53.5	41.4	52.8	43.5
08.	Mandal Village	49.3	39.4	53.5	42.8
09.	Ore Storage Yard	61.3	52.7	60.7	51.5
10.	Haul Road	63.3	54.6	65.4	57.3

Note: Above monitoring result is based upon Environment Monitoring carriedout by MoEF, NABL Approved Agency.