

Registered AD

Ref: HZL/ Maton /MoEF/2020-21/36

Date: 28.11.2020

To,

The Director,
Ministry of Environment, Forests & Climate Change
Government of India,
Regional Office (Central Region),
Kendriya Bhawan, 5th Floor, Sector-H, Ali Ganj,
LUCKNOW (UP)- 226024.

Sub: Six Monthly Compliance Report of EC for April'20 to September'20.

Ref: Environment Clearance vide No. J-11015/169/2009-IA.II (M) dated 17.03.2010.

Sir,


Please find enclosed Compliance Status Report of the conditions of Environmental Clearance for the period of April'20 to September'20.

Also submitting above report in MS Word format on m_env@rediffmail.com for kind perusal.

Thanking you.

Yours Sincerely,

For Maton Rock Phosphate Mine


(Ravi Kumar)
Manager (Mines)
Hindustan Zinc Ltd.
Mine Manager
Maton Rock Phosphate Mines
Udaipur (Raj.)
Encl.: EC compliance report

- CC to :
1. In-Charge (Zonal Office), Central Pollution Control Board, Zonal Office (Central), 3rd Floor, Sahkar Bhawan, North T.T. Nagar, BHOPAL-(MP)-462 003
 2. Member Secretary, Rajasthan Pollution Control Board, 4 - Institutional Area, Jhalana Dungri, JAIPUR (RAJ.) - 305001.
 3. The Regional Office, Rajasthan State Pollution Control Board, F-470, Near UCC Building, Mewar Industrial Area, Udaipur (Raj.) -313001.
 4. Office Copy (Env. Cell)

Hindustan Zinc Limited

Maton Rock Phosphate Mines.

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CIN : L27204RJ1966PLC001208

Six Monthly Compliance Report of Environmental Clearance

Name of the Project : Maton Rock Phosphate Mining Project of M/s Hindustan Zinc Ltd.

Project Code :

Clearance Letter No.: J-11015/169/2009-IA.II(M) Dt. 17/03/2010

Period of Compliance Report: April'20 to September'20

Specific Conditions:

S.No.	Conditions	Compliance Status
i	Environmental clearance is granted subject to final outcome of Hon'ble supreme court of India in competent petition (c) No 412/2004 in IA No 833 in writ petition (c) no 202 in 1995, as may be applicable to this project.	The mine lease is not a part of the 261 mine leases covered in contempt petition No. 412/2004 in IA No. 833 in WP No. 202 in 1995 (Annexure 1).
ii	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.	The land was acquired under the LA Act, 1894 for mining purpose. As per the circular from GoR Dt. 1997, any land acquired under the said act for the stated purpose is deemed approved for the said purpose and need not again have to seek approval for diversion of land so acquired (Annexure 2A & 2B).
iii	The project proponent shall obtain Consent to Establish and Consent to Operate from Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein.	The consent to establish was granted by the RSPCB vide Letter No. F(Mines)/Udaipur (Girwa)/13(1)/2009-2010/8003-8007 Dt. 17.03.2011 The latest Consent to Operate, granted by RSPCB vide No. F(Mines)/Udaipur(Girwa)/1828(1)/2015-2016/973-977, Dt. 05/06/2020 is valid till 31/03/2023
iv	The project proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operations. Adequate measures shall be taken for protection of the 1 st order and 2 nd order streams, if any emanating, passing through the mine lease during the course of mining operation.	No natural watercourse or water resources are obstructed due to mining operation as on date. During the future course of operation, if any natural water course is likely to be affected, suitable measures will be taken to ensure minimum obstruction to flow. Further, there are few 1 st order streams emanating from the mine lease area that have been protected.
v	The mine working will be restricted to above water table. For working below water table, a detailed hydro – geological study shall be carried out taking into account the mine water discharge, management of discharged water and prior approval of CGWA shall be obtained. The hydro-geological study report along with approval of CGWA will be submitted to the Ministry of Environment and Forests for reviewing the conditions of environment clearance and stipulation of additional conditions, if any,	The mining operation is presently limited to above ground water level and as per IBM approved latest Scheme of Mining 2020-21 to 2024-25 it will not intersect the Ground Water Table up to 31 March 2025. Detailed hydro-geological study has been conducted to assess the hydro-geology of the area. Present depth of mining is 573 mRL the ultimate depth of mine pit is envisaged upto 520mRL where as depth of ground water table is 523 mRL & 527 mRL during pre and post monsoon respectively. It is expected that on

S.No.	Conditions	Compliance Status
	as may be required.	intersection of ground water table, the inflow to mine pit is estimated at 1.31 cum/day. Applications in advance have been filed before the CGWA for grant of NOC for groundwater intersection on 26.03.2010 (revised application submitted on 16.07.2014) and approval awaited (Annexure 3). On grant of NoC by CGWA, copy of the same will be submitted.
vi	The top soil, if any 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.	As typical of a Rock Phosphate reserves and the hilly terrain of the deposit, no top soil found in the project area. However, any top soil encountered during land disturbance for OB storage shall be conserved and used for reclamation and plantation.
vii	The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period and their phase-wise stabilization shall be carried out. There shall be three external dump(s). The OB dump(s) should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. Dump stability study shall be carried out in next six months before attaining the ultimate dump height of 50 m. The study should be carried out one of the reputed organizations like CMFRI and report submitted to the Ministry of Environment and forest. 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 Lucknow on six monthly basis	Overburden is being stacked at earmarked dump sites as shown in IBM approved Mining plan/ Scheme of Mining. Out of total activities approved in Scheme of Mining, some of mining activities have been temporarily suspended since 01.11.2015. For progressive reclamation plantation has been started on mature part of waste dump since FY 2015-16. Waste dump stabilization study has been conducted by CIMFR and the recommendations have been implemented.
viii	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from mine working, soil, OB and mineral dumps to prevent run off of water and flow of sediments directly into the Ahar River, The Udaisagar pond, the Bagdara Talav and other 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 monsoon and maintained properly.	W.r.t to collection & utilization of rain water falling on the project area, the active mine area is situated on the top of a hill and is progressing by bench formation through top slicing. The area of mine pit, which is below general ground level, is situated at toe of the hill towards south-west. Rainwater falling on active mining area is directly collected in the mine pit. Garland drain is constructed at strategic location to channelize runoff generated around pit area into mine pit/sump which is having adequate capacity to allow settling of silt. The surface runoff generated from the undisturbed slopes (hangwall) is also

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		diverted to mine pit through peripheral garland drains which prevents water to move out of ML area. The de-siltation of mine pit takes place along with mining schedule of deepening of mine.
	Garland drain, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent runoff water and flow of sediments directly into the Ahar River, the Udaisagar pond, the Bagdara Talav and other 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.	The rainwater runoff is also generated on overburden dump (OB) site. The OB dump is situated in a natural valley and so far it's lower edges/ levels is situated below the top of valley level. Hence, it has not reached to it's maximum extent towards edges. Thus the runoff is diverted through natural slopes within valley into a siltation pond cum recharging pit measuring 150m x 60m x 1.5m, situated at the lowest point of dump. The accumulated silt of this pit is removed and stacked on OB dumps before commencement of every monsoon. In addition to above, a new approved dumping and its garland drain is under progress. In order to comply with the condition, HZL applied for obtaining NoC for construction of Anicuts on dt. 10.01.2011, but during discussion, officials referring WRD order dt. 26.07.2010, suggested HZL to opt for other means of recharge (copy of letter for NoC is enclosed as Annexure -4).
ix	Dimension of the retaining wall at the toe of over burden dump and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	Since, the OB dump is situated in a natural valley and so far it's lower edges/ levels is situated below the top of valley level. Hence, it has not reached to it's maximum extent towards edges. Retainer wall is constructed at strategic location along with suitable garland drain to ensure all rain water collection into recharge pit. In addition to above, a new approved dumping and its retaining wall is under progress.
x	Plantation shall be raised in an area of 122.3 ha including a 7.5 m wide green belt in safety zone around the mining lease by planting the native species around over burden dumps, along the roads etc. in consultation with the local DFO / Agriculture Department. The density of the trees should be around 1500 plants per ha. Green belt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	Out of mine lease area of 143.13 ha, only 114.44 ha. has been acquired along & an additional land of 80.25 ha acquired outside the mine lease. Plantation has been taken up in progressive manner to cover 33% area of the total land into green belt, including at least 7.5m wide greenbelt in the safety zone. About 8000 plants, including plantation on matured part of waste dump, have been planted during running FY 2019-20. Till date about 52,000 saplings have been planted with survival rates of above 90%. Further, the progressive green belt development plan has been prepared considering further plantation over OB dumps on maturity and shall be implemented over the

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xi	Effective safe guard measures, such as regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading, unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul 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.	life of mine. Wet drilling is practiced to control dust at source. Regular sprinkling of water on all haulage roads with mobile tankers is ensured to suppress fugitive dust. The crusher has inbuilt water mist sprinkler to suppress dust during operation. The material storage and handling area is periodically water sprinkled to suppress dust.
xii	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.	A proposal for augmentation of Ground water resource has been submitted to CGWB/CGWA for compliance to CGWA guidelines and proposal is under approval. Additionally, so far site has neither intersected Ground Water Table nor abstracting ground water, hence no direct impact is envisaged on ground water.
xiii	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 piezometers 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 groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	The mining operation is presently limited to above ground level and as per IBM approved latest Scheme of Mining (2020-21 to 2024-25) it will not intersect the Ground Water Table up to 31 March 2025.. Hence, there is no impact envisaged to ground water prior to that. A network of ground water locations are sampled around the mine lease area in the buffer zone and monitored every season and the report submitted to MoEF. A network of Piezometer well locations to monitor the impact on the ground water regime has been suggested by a reputed Hydrogeologist and the report submitted to CGWB/CGWA. As recommended, piezometers have been installed to monitor the impact on ground water level due to groundwater intersection and intersection will not take place up to 31 March, 2025.
xiv	Appropriate mitigation measures shall be taken to prevent pollution of the Ahar river in consultation with the State Pollution Control Board.	The surface drainage of the lease area does not connect to the Ahar River and hence no effluents or rainwater runoff from the operations shall impact the Ahar river. Copy of updated details submitted to RSPCB on action taken for prevention of pollution in Ahar river vide letter no. HZL/Maton/RSPCB/2015-16/65 dt. 18.09.2015 is also attached for reference as Annexure – 5.

S.No.	Conditions	Compliance Status
xv	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water required for the project.	Presently water required for mining operation is sourced from the Mine pit/sump and domestic water is sourced through tankers from water suppliers. An application for withdrawal of ground water through tube well is filed before CGWA 01.01.2010 (revised application submitted on 16.07.2014) and approval awaited (Annexure - 6). Copy of the same will be submitted on receiving of the same.
xvi	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board	A proposal for augmentation of Ground water resource has been submitted to CGWB/CGWA. In the mean time of processing our application, CGWA has revised it's guidelines. On advice of CGWB, Jaipur, HZL has submitted fresh application on 16.07.2014 to CGWA/CGWB in accordance with revised guidelines & designs for augmentation of ground water resources. Recharge measures will be implemented immediately on getting nod from CGWB/CGWA.
xvii	Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	All vehicles entering the mine premises are checked for PUC certificate. All vehicles used for mining operations undergo periodic maintenance and ensure controlled emissions. All mineral transportation are carried out by covered trucks only and not overloaded.
xviii	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented	Controlled blasting is practiced and ground vibration is measured as per guidelines of DGMS & the Director Explosive. The recommendations of CIMFR for blasting is implemented and the vibrations measured are within the stipulated limits.
xix	The project proponent shall take all mitigative measures during mining operations to ensure that the buildings / structures in the nearby areas shall not be affected due to blasting	Controlled blasting is practiced and ground vibration is measured as per guidelines of DGMS & the Director Explosive. The recommendations of CIMFR for blasting is implemented and the vibrations measured are within the stipulated limits. Hence there have been no impacts on the buildings/structures in the nearby areas due to blasting. Blasting was not carried out during reporting period.
xx	Drill shall either be operated with dust extractors or equipped with water injection system.	Wet drilling is followed during mining (Annexure - 7).
xxi	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and	Loading, unloading points are sprinkled with water using mobile tanker to ensure effective dust control. At transfer points of the crusher,

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	unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	water sprinklers are installed.
xxii	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 workshop is constructed in the mine site as all mining vehicles are serviced in the nearby city of Udaipur. No colony is constructed in mine area, as the employees commute from the nearby city of Udaipur and other villages around the mine lease. The only effluent generated due to office is treated through septic tanks and soak pits for disposal complying to discharge standards.
xxiii	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	All permanent and contractor employees undergo pre-placement medical test and periodic medical test as per the DGMS rules.
xxiv	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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	No construction labour is residing in the project area, as the project is located in the outskirts of Udaipur city and it has adequate infrastructure for housing and other amenities.
xxv	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered flora and 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 Wild life Department. Necessary allocation of funds shall be included in the project cost. All the safeguard measures to the project site shall be effectively implemented copy of action plan shall be submitted to the Ministry of Environment and Forest and its Regional Office, Lucknow.	Based on the list of flora & fauna, authenticated by Deputy Conservator of Forest, Udaipur (North), GoR vide letter no. PQ/Survey/UaVS/North/6094 dt.19.12.2009, there is no schedule -I fauna & endangered flora in the project area (copy enclosed as Annexure - 8). As stated above, mine is continuously carrying out plantation and has planted 52,000 saplings within project area (8000 during FY 2019-20) and 500 plants outside project area under CSR activities. However, for fresh assessment of present status of flora & fauna in-line with suitable conservation plan, a study work was accorded to Green Future Foundation, New Delhi. GFF has completed the field study and is preparing final report, which will be further submitted to DFO / DCF office for assessment & approval, followed by implementation.
xxvi	The critical parameters such as RSPM (Particulate matter with size less than 10µm i.e., PM10), NOX in the ambient air within the impact zone, peak particle velocity at 300m distance or within the	The parameters of RSPM, NOx and SOx are periodically monitored In the core and buffer area and report submitted to RSPCB and MoEF periodically (copy of AAQ & Noise monitoring are enclosed as Annexure 9 & 10).

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	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	Blasting was not carried out during reporting period. Surface and ground water samples are monitored every season (copy enclosed as Annexure - 11). The AAQ monitoring results are displayed on the board at the gate of the mines.
xxvii	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval	The same shall be complied prior to closure.

General Conditions

S.No.	Conditions	Status
i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Complied. There is no change in mining technology.
ii	No change in the calendar plan including excavation, quantum of mineral Rockphospahte and waste should be made.	Calendar plan, as per approved mine plan, is being adhered to.
iii	At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10µm i.e., PM ₁₀) & NO _x 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.	Five monitoring locations based on Meteorological data have been established in and around the mining lease area in the core and buffer zone. The AAQ is monitored every fortnightly for PM ₁₀ , PM _{2.5} , SO _x , NO _x and the results submitted to RSPCB and MoEF.
iv	Data on ambient air quality RSPM (Particulate matter with size less than 10µm i.e., PM ₁₀) & NO _x should be regularly submitted to the Ministry including its Regional office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.	The AAQ monitoring results are submitted to MoEF every six monthly.
v	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.	Water sprinkling using mobile tankers is undertaken regularly to arrest fugitive emission.
vi	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	All machines undergo periodic maintenance. All mine workers are provided with ear plugs with at least

S.No.	Conditions	Status
	provided with ear plugs / muffs.	25dB(A) noise reduction to ensure that the exposure to noise is always below 85dB(A). Work zone noise monitoring is carried out as defined.
vii	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 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	There is no workshop in the lease area and hence no industrial effluent generated from the project site.
viii	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. 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.	All workers are provided with dust mask to ensure protection against dust related occupational hazards. Periodic medical health check-up is carried out to monitor any dust related impacts.
ix	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.	A qualified environmental professional, reporting to the Mines manager & Unit Head, thus team ensures compliance to the environmental stipulations.
x	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 and its Regional Office located at Lucknow.	Complied. The environmental expenditure are: 2010-11 - Rs. 13,76,791/- 2011-12 - Rs. 11, 80,034/- 2012-13 - Rs. 56,80,534/- 2013-14 - Rs. 36,42,879/- 2014-15 - Rs. 30,16,703/- 2015-16 - Rs. 48,07,747/- 2016-17 - Rs. 31,41,428/- 2017-18 - Rs. 31,35,354/- 2018-19 - Rs. 39,07,310/- 2019-20 - Rs. 35,72,028/-
xi	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.	Financial closure for the project was achieved in May 2010. The land development work started immediately and production of ore achieved since June 2010.
xii	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.	All necessary support shall be extended to the authorities.
Xiii	The project proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the	The report in hardcopy and emails are submitted to RO, MoEF, Lucknow. Hardcopy is sent to MoEFCC, CPCB and RSPCB.

S.No.	Conditions	Status
	Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal Office of CPCB and the SPCB. The proponent shall upload the status of compliance of the EC conditions, 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 Officer of CPCB and the SPCB.	Six monthly reports are regularly submitted in hard copies, soft copy and by e-mail. Latest compliance report was sent on 20.05.2020.
xiv	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. The clearance letter shall also be put on the website of the Company by the proponent.	Complied
xv	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.	Complied.
xvi	The environmental statement for each financial year ending 31 st 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 EC conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, at Lucknow by e-mail.	Environment statement in Form V is submitted periodically as stipulated. Environmental statement for the year 2019-20 was submitted on 26.09.2020.
xvii	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 of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	Advertised in two News papers named Dainik Bhashkar and Rajasthan Patrika on 19.03.2010 (Annexure - 12).

(Signature)
Manager (Mines)
Industries Ltd.
 Malon Rock Phosphate Mines
 Udsipur (Raj.)

सर्वसामान्य सरकार

कार्यपालक जमीने अधिनियम, खान एवं भू विज्ञान विभाग, उदयपुर जिल्हा,
उदयपुर

क्रमांक खज/उदय/सीसी-२/एमएन-०६/८९(नवी.१४/०९) दिनांक ०६/०९/१०

प्रमाण पत्र

यह प्रमाणित किया जाता है कि मैसास हिन्दुस्तान लिमिटेड के पक्ष में
सीकृत खान पट्टा संख्या ०६/८९ नवी.१४/२००९ विकट नाम पट्टा नदरील मिला
जिला उदयपुर का द्वितीय नदीनीकरण अधिनियम १९६१ के अन्तर्गत खान पट्टा मानकीय
उत्कृष्टता मापदण्डों के आदेश दिनांक १९२२०१० के अनुसार कुल २६१ खान पट्टा
की सूची में नवीं आता है।

प्रति हस्ताक्षर

अतिरिक्त निदेशक(खान)
उदयपुर-जोन, उदयपुर

११/०९/१०
जमीने अधिनियम
उदयपुर जिल्हा, उदयपुर

आयालय भूमि प्रवाप्ति अधिकारी,
उदयपुर-सतलुम्बर, राजसमन्द
क्रमांक :- 27/76

3228

सम-द्विजिन
दिनांक 25-2-80 140

अर्वाइ

(अन्तगत धारा 11, राजस्थान भूमि प्रवाप्ति अधिनियम, सन् 1953)
विषय:- हिन्दुस्तान जि.क लि० के कार्य में आने वाली भूमि को प्रवाप्त करने हेतु ।

प्रवावली प्रकलोकन की गई । हिन्दुस्तान जि.क लि०, गया फतहपुरा, उदयपुर को शाखा जावर/मट्ट/दरोवा माईन्स के लिए भूमि प्रवाप्ति वावत राज्य सरकार से राजस्थान भूमि प्रवाप्ति अधिनियम, सन् 1953 की धारा 4 को विज्ञप्ति सनिज विभाग द्वारा जरिये नम्बर जवाज 34-2 F.9 दि. 13-6-73 को प्राप्त हो जाने से भूमि प्रवाप्ति अधिकारी गिर्वा/सतलुम्बर/राजसमन्द की धोर में जरिये नं. दिनांक की सांख्यिक स्थानों पर प्रकाशित हो चुकी है और इस दमियान में काबिजान भूमि से प्राप्त समझौता पर बातचीत की गई जो प्राप्त समझौते से प्रवाप्त होने वाली भूमि का एवजाना लेने के लिए रजामन्द है ।

उपरोक्त प्रकरण में निम्नलिखित आसाभियान की भूमि प्रवाप्त हो रही है । इस भूमि की सर्वे की गई, जितका विवरण निम्नलिखित है :-

नाम गांव	नाम तहसील	खसरा नं.	रकबा		किस्म भूमि	लगान	जिगरण
			बोधा	बिस्वा			
1	2	3	4	5	6	7	8
मट्ट	जि.क	1477 1	8-	00	अग्नी	1-00	

माली कागजात से इस भूमि के मालिक और काबिजान की जास कराई गई तो पाया गया कि प्रवाप्ति होने वाली भूमि जिसका विवरण ऊपर दिया गया है श्री गुज पचापन मट्ट पिता श्री निवासी तहसील जि.क के नाम पर इन्दाज है जिसकी तस्दीक तहसीलदार सा. गिर्वा/सतलुम्बर/राजसमन्द ने की है और उन्होंने यह भी प्रमाणित किया है कि अर्वाइ थी गुज पचापन मट्ट के नाम जारी किया जाने ।

चूं कि आसाभियान प्राप्त समझौते पर एवजाना के लिए तैयार हैं । ऐसी सूरत में भूमि प्रवाप्ति अधिनियम, 1953 की धारा 6 (3) व 6 (1) के अनुसार नोटिस जारी करने की कोई आवश्यकता नहीं है ।

तहसीलदार सा. गिर्वा/सतलुम्बर/राजसमन्द ने मार्केट वेल्यू प्राप्त समझौते के आधार पर एवजाना देने के लिये स्वीकृति चाही जो फाईल संलग्न है ।

स अवाप्ति नियमावली प्रपत्र 1 0 (भूमि प्रावप्ति नियमावली अनुच्छेद 96)

राजो नामा विशाल

मैं/हम राजेश राजेश राजेश राजेश राजेश (राजो नाम पर हस्ताक्षर करने वाले पक्ष विशिष्ट) एतद् द्वारा निम्न निरवृत्त भूमि की अदायगी और मुआवजे की रकम के लिए अपनी सहमति घोषित करते हैं और किसी तरह का हमारे द्वारा उठाया हुआ दावा या हमारी कोई अधिक मांग (क्लेम) किसी कारण पर आधार की गई, सुरक्षा रद्द समझी जावे।

जिला	तहसील	गांव	जायदाद/ हक का विवरण	मुआवजे का विवरण	
				वार्षिक अदायगी लगान जो छूट होगा	नकद मुआवजा
उदुपूर	गिरा	गढ़	147/ 8.00 1 कली	1.00 अनंत 8000/- 4.00 कुल राम	7200.00 11750.00 3850.00 <hr/> 15405.80

राजेश
सहस्र

राजेश
सहस्र

PROJECT MANAGER

विशुखाना विकास लिमिटेड
(मानव संसाधन का उपक्रम)
गढ़ा रोड, जिला-उदुपूर
पिन-213028

राजेश
सहस्र

राजेश
सहस्र

यदि कोई भी व्यक्ति इस प्रपत्र में या इसके अंतर्गत अवाप्ति किये जाते हैं या जब कुछ बिना मुआवजा

भारतीय सरकार
राजस्व विभाग

प्रोपर्टी: - अनस्त जमा
कारखाना ।

क्रमांक: - प. 5 (3) राज-6/86 / 1

तारीख: - 15.2.77

विषय: - भूमि अधिग्रहण अधिनियम, 1954 के अन्तर्गत अनापत्त भूमि के लिए आवेदन करने या पुनः आवेदन करने के लिए ।

3681
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राजप. 24
26/2/77

महोदय,

केन्द्रीय भूमि अधिग्रहण अधिनियम, 1954 के अन्तर्गत राजस्व-संग्रह पर विभिन्न आर्थिक कार्यों के प्रयोजनार्थ भूमि अधिग्रहण जाता चला है । संबंधित विभाग द्वारा अधिग्रहण के प्रारम्भ में संबंधित भूमि का आवेदन जारी कर लिखित तर्कों पर भूमि का अधिग्रहण अथवा करने के पश्चात् भूमि का कब्जा संबंधित विभाग द्वारा ले लिया जाता है ।

Rev.
W.P. to H.P. R.O.S.
से 3/3

अब प्रश्न यह उत्पन्न होता है कि अनापत्त भूमि को राजस्व संग्रह-संग्रह अधिनियम, 1954 के अन्तर्गत अधिग्रहण के लिए आवेदन करने की आवश्यकता है या नहीं ।

उक्त संदर्भ में यह स्पष्ट होगा कि राजस्व संग्रह अधिनियम - भूमि अधिग्रहण अधिनियम, 1954 के अन्तर्गत अधिग्रहण की जाती है जो ऐसी भूमि को पुनः अधिग्रहण करने के लिए अधिग्रहण अधिनियम की आवश्यकता नहीं होती है । अतः अनापत्त भूमि को पुनः अधिग्रहण करने के लिए अधिग्रहण अधिनियम की आवश्यकता नहीं है ।

आपका
आपका
आपका

125
28.2.77

प्रतिक्रिया: - निम्न लिखित को आवेदन एवं अधिग्रहण कार्रवाई के अन्तर्गत :-

1. निम्नलिखित राजस्व संग्रह अधिनियम, 1954 के अन्तर्गत

आपका



HINDUSTAN ZINC LIMITED
 Maton Rock Phosphate Mine
 Tehsil - Girwa, Distt. Udaipur (Raj.) - 313003
 Phone : - 0294-2342093

Ref: HZL/Maton/CGWA/MiningNew/2014-15/ 42

Dt 14.07.2014

To,

The Member Secretary,
 Central Ground Water Authority,
 West Block-II, Wing-3 (Ground),
 Sector-1, R.K. Puram, New Delhi-110066

Sub: Application for grant of NOC to abstract 1.31m³/day quantity of groundwater by dewatering due to intersection of water table at Maton Rock Phosphate Mine of M/s Hindustan Zinc Limited near village Maton Tehsil Girwa Distt Udaipur situated in Girwa block

Ref: 1. Our applications dt. 26.03.2010 & subsequent correspondence dt 17.08.2010 & 19.01.2013
 2. Environmental Clearance, dt. 17.03.2010, granted by MoEF for 180000 TPA production capacity

Sir,

Maton Rockphosphate Mine of Hindustan Zinc Ltd is being operated for last more than 40 years. After issuance of EIA Notification, 2006, ore production capacity of the mine continued to remain at 60000 TPA, hence grant of Environmental Clearance was not required till 16.03.2010. However for further renewal of mining lease, the MoEF granted us Environmental Clearance for enhanced capacity of 1,80,000 TPA.

Due to proposed intersection of ground water table, the estimated quantity of dewatering is 1.31m³/day. HZL submitted the application for grant of permission to abstract groundwater by dewatering vide letter dt 26.03.2010 and thereafter incorporated revisions on dt 17.08.10 & 19.01.13. As per CGWA Guidelines, rainwater harvesting/recharge schemes to the tune of 2.62m³/day (200% of the abstracted quantity) was required to be implemented. In the meantime CGWA revised its guidelines on 15.11.2012 and prescribed the new proforma of application. After the incorporation of replies to CGWA queries, fresh application for grant of permission for 1.31m³/day or 480m³/year groundwater abstraction by dewatering is submitted herewith.

To optimise the groundwater recharge quantum, we engaged M/s Water Solutions, New Delhi to conduct study for undertaking the recharge measures for the runoff generated

Regd. Office: Yashad Bhawan, Udaipur (Rajasthan) - 313004
 Corporate Identity No. (CIN): L27204RJ1966PLC001208. Website: www.hzliindia.com

inside the project area. As per the report, the recharge measures for 41876m³/year quantity could be implemented. The total groundwater recharge obligation is 15560m³/year which comprises the quantities of (i) abstraction of groundwater 14600 i.e. (7300*2) m³/year and (ii) abstraction of groundwater due to dewatering 960 i.e. (480*2) m³/year. The above recharge measures of 41876m³/year are 5-6 times of 7780 m³/year of the abstracted quantity.

We humbly request you to kindly consider our application and grant us the NOC for 1.31m³/day ground water abstraction by dewatering.

With regards

(Amar Singh Gohil)
Mines Manager
Manager (Mines)
Hindustan Zinc Ltd.
Maton Rock Phosphate Mines
Udaipur (Raj.)

Encl: above application form

CC to : 1. Regional Director,
Central Ground Water Board,
Western Regional,
6A, Jhalana Doongri, Jaipur-302004

2. Office Copy (Env. Cell)

Name of Person/Firm	Hindustan Zinc Limited, Maton Rock Phosphate Mines Ghazwa Dist. Udaipur
Letter Reference No. and Date	HZL/Maton/CGWB/Mining New/2019-1542 14/7/2019
Subject	APPLs for grant of NOC to abstract 1.31 m ³ /day Village Maton Tehsil, Ghazwa Dist. Udaipur
Dated signatures of diaris/dispatcher (CGWB, WR, 6-A, Jhalana Doongri, Jaipur 302 004)	P.S.E.
Remarks if any	Chk 16/7/19

ANNEX-4

ANNEXURE - 2

HINDUSTAN ZINC LIMITED
Maton Rock Phosphate Mine
Tehsil- Girwa, Distt. Udaipur- 315004 (Raj)
Phone : +0294-2542095

January 10, 2011

To,

Executive Engineer
Irrigation Department
Udaipur (Raj)

Subject: NOC for construction of five Anicuts in respect of comply of IRC condition.
MoEF [Ref. E No. J-11015/169/2009-IX.II (M) Dated 17.03.2010]

Sir,

In order to comply with the Specific condition no. xii of the above reference (copy encl.), we have conducted study of "Rain-water harvesting program for augmentation of ground water storage of buffer zone of Maton Mines" from Hydro-Geosurvey Consultant, Jodhpur. Wherein they have proposed to construct 5 Anicuts in the buffer zone (location maps are encl) i.e.

Anicut No. 1 near village Katarwas
Anicut No. 2 near village Parota
Anicut No. 3 near village Bichhri
Anicut No. 4 near village Kanpur
Anicut No. 5 near village Danda

It is requested to kindly record the NOC for the same so that we can start construction work at site.

Thanking you

Yours truly

(Heeralal Sharma)

Mine Manager



vedanta



Ret. H/1-Maton/RSPCB/2015-16/65

Date: 18.09.2015

To,

The SEE Mines,
Rajasthan State Pollution Control Board,
4, Institutional Area,
Jhalana Doongri, Jaipur (Raj.) - 302004.

Sub: Grant of Consent to Operate under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1981 and under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 for our Major Schedule Mineral Mine at near Village - Maton, Tehsil - Girwa, District - Udaipur (M.L. No.- 06/89-R-14/09).

Ref: CTO vide no. F(Mines)/Udaipur(Girwa)/1828(1)/2015-2016/2263-2267, dtd. 08.09.2015.

Sir,

With reference to point no. 10 of above referred CTO dtd. 08.09.2015, we hereby submit that based on the hydrogeological study conducted by Hydro-Geosurvey Consultants Private Ltd., Jodhpur and the same mentioned in EIA, it was clearly mentioned that the surface drainage of the lease area does not connect to the Ahar River and hence no effluents or rainwater runoff from the operations shall impact the Ahar river. Also the hillock situated towards north, outside mine lease, ensures that no surface drainage can reach to Ahar river.

Further, Maton Mines operates on Zero discharge. Site has pollution control measures like wet drilling and water sprinkling on haul road. Extensive plantation also controls dust from passing through it and reaching to Ahar river.

Also, to control pollution in Ahar river, HZL entered into a green bridge project of Jheel Sanrakshan Samiti (JSS) Udaipur & Udaipur Chamber of Commerce and Industry (UCCI) and contributed Rs. 10 Lakh to the local administration for pollution mitigation in Ahar River. Copy of acknowledgement receipt of the same is enclosed herewith as Annexure - 1.

Further, HZL has entered into a tripartite agreement with Municipal Council Udaipur and Urban Improvement Trust Udaipur for laying of Sewage Trunk Line from Udaipur city to STP to divert sewage of city from entering into Ahar River and thereby avoiding pollution from entering into it. This 20 MLD STP is also set up by HZL at cost of Rs. 63 Crore at Manwa Kheda, Udaipur. Furthermore, 15% of treated water of above referred STP is released in Ahar River during dry season every year to maintain the water table in the area for the potential users or farmers and to conserve aquatic life of Ahar river.

Hindustan Zinc Limited

Maton Rock Phosphate Mines,
P.O - Maton, Th. - Girwa, Udaipur (Rajasthan) - 313003
Tel.: (+91-294) 2342093, Fax : + (91-294)-2342092
Registered Office - Yashud Bhawan, Udaipur (Rajasthan) - 313004
www.hzindia.com
CIN - L27204RJ1966PLC001208

Thanking you.

Yours sincerely,



(V.P. Joshi)

G.M. & Unit Head **Unit Head**
Hindustan Zinc Ltd.
Malan Rock Phosphate Mines
Encl: As above. **Udaipur (Raj.)**

CC : 1. The Member Secretary, Rajasthan State Pollution Control Board, 4, Institutional Area,
Jhalana Doongri, Jaipur (Raj.) - 302004.

2. The Regional Officer, Rajasthan State Pollution Control Board, F-470, Near UCCI
Building, Madri Industrial Area, Udaipur (Raj.) - 313003.

3. Office Copy (Env. Cell)



HINDUSTAN ZINC LIMITED
Maton Rock Phosphate Mine
 Tehsil - Girwa, Distt. Udaipur (Raj.) - 313003
 Phone :- 0294-2342093

Dt 14.07.2014

Ref: HZL/Maton/CGWA/Industry/2014-15/43

To,

The Member Secretary,
 Central Ground Water Authority,
 West Block-II, Wing-3 (Ground),
 Sector-1, R.K. Puram, New Delhi-110066

Sub: Application for grant of NOC to abstract 20m³/day quantity of groundwater for industrial use at Maton Rock Phosphate Mine of M/s Hindustan Zinc Limited near village Maton Tehsil Girwa Distt Udaipur situated in Girwa block

- Ref: 1. Our application dt 01.01.2010 & subsequent correspondences dt 11.02.2010, 17.08.2010 & 19.01.2013
 2. Environmental Clearance, dt 17.03.2010, granted by MoEF for 180000 TPA production capacity

Sir,

Maton Rockphosphate Mine of Hindustan Zinc Ltd is being operated for last more than 40 years. After issuance of EIA Notification, 2006, ore production capacity of the mine continued to remain at 60000 TPA, hence grant of Environmental Clearance was not required till 16.03.2010. However for further renewal of mining lease, the MoEF granted us Environmental Clearance for enhanced capacity of 1,80,000 TPA.

Operation of mine at enhanced capacity required 200m³/day groundwater for which HZL submitted application vide letter dt 01.01.2010 thereafter incorporated revisions on dt 11.02.10, 17.08.10 & 19.01.13. In the meantime CGWA revised its guidelines on 15.11 2012 and prescribed the new proforma of applications.

To reduce the uses of surface/groundwater for industrial purposes, HZL has entered into a tripartite agreement with UMC, Udaipur and UIT, Udaipur on 09.05.2012 for setting up of 20 MLD Sewage Treatment Plant (STP) at Udaipur with an investment of Rs 159 Cr. Now HZL has commissioned the plant and made arrangement of pumping and transportation to use the treated water in its units. Looking to the availability, it has been decided to use 180m³/day of treated water for industrial activities and 20 m³/day of groundwater for domestic purposes. Accordingly a fresh application for grant of permission for 20 m³/day or 7300m³/year groundwater abstraction is submitted herewith.

Regd. Office: Yashad Bhawan, Udaipur (Rajasthan) - 313004
 Corporate Identity No. (CIN): L27204RJ1966PLC001208. Website: www.hzllindia.com

To optimise the groundwater resources, we engaged M/s Water Solutions, New Delhi to propose rainwater harvesting/recharge schemes, for 40m³/day or 14600m³/year, equivalent to 200% of the abstracted quantity. As per the report, recharge measures to the tune of 41876 m³/year quantity could be implemented for the runoff generated inside the project area. It is pertinent to mention that out of 143.13 Ha lease, area of 116.49 Ha not covered in the above recharge schemes, will contribute to in-situ recharge of 36345m³/year.

Thus the total groundwater recharge obligation is 15560m³/year which comprises the quantities of (i) abstraction of groundwater 14600 i.e. (7300*2) m³/year and (ii) abstraction of groundwater due to dewatering 960 i.e. (480*2) m³/year. The above recharge measures of 41876m³/year are 5-6 times of 7780 m³/year of the abstracted quantity.

We humbly request you to kindly consider our application and grant us the NOC for 20m³/day ground water abstraction.

With regards

ASG
 (Amar Singh Gohil) **Manager (Mines)**
 Mines Manager **Hindustan Zinc Ltd.**
Maton Rock Phosphate Mines
Udaipur (Raj.)

Encl: above application form

CC to : 1. Regional Director,
 Central Ground Water Board,
 Western Regional,
 6A, Jhalana Doongri, Jaipur-302004

2. Office Copy (Env. Cell)

Name of Person/Firm	Hindustan Zinc Ltd. Maton Rock phosphate mine Guzera Dist. Udaipur
Letter Reference No. and Date	HZL/maton/CGWB/industry/2014-15-43 14/7/14
Subject	Application for grant of NOC, to abstract 20 m ³ /day village Maton Tehsil Guzera Dist. Udaipur
Dated signature of diary/dispatcher (CGWB, W.R. 6-A, Jhalana Doongri, Jaipur 302 004)	
Remarks if any	16/7/14



Fig : Wet Drilling

कार्यालय उष वन संरक्षक, उदयपुर (उत्तर)

क्रमांक-प () सर्व/उत्तर/ ८८१५ दिनांक १५-१२-८९

माईन्स मैनेजर
हिन्दूस्तान जिंक लिमिटेड
मटन माईन्स
उदयपुर

विषय :- Issue of certificate regarding National Parks, Sanctuaries, Biosphere Reserves, Wildlife corridors Tiger/Elephant reserves (existing as well as proposed), within 10 Km of the mine lease of Maton Mines (ML No. 089) Near village Maton, Tehsil Girwa, Distt. Udaipur (Raj.)

परम- आपका प्रार्थना पत्र क्रमांक निल HZL/Matun/env/09 दिनांक 18.11.88

महोदय,

आशंकित विषयान्तर्गत प्रासंगिक प्रार्थना पत्र के तमाम से लिखा जाता है कि आपको जिला न एमएल 06/1989 के कोर एवं वफर क्षेत्रों का 10 कि.मी. सीमा में संरक्षित प्राण संतुष्टि कार्यक्रमों के दिवस माईन्स लाइफ कॉन्सिअर उदयपुर, एनफोर्स् रिजर्व विभाजन कक्ष में है।

आपका
उष वन संरक्षक
उदयपुर (उत्तर)

कार्यालय उप वन संरक्षक, उदयपुर (उत्तर)

क्रमांक-प. () सर्वे/उवस/उत्तर/ 6095

दिनांक : 14-12-09

माईन्स मैनेजर
हिन्दूस्तान जिंक लिमिटेड
मटून माईन्स
उदयपुर

विषय :- Authentcation of flora and fauna in core & Buffer zone of Matun Mines
(ML. No. 6/89) near village Matun tehsil Girwa Distt. Udaipur (Raj.)

प्रसंग:- आपका प्रार्थना पत्र क्रमांक निल HZL/Matun/env/09/ दिनांक 18.11.2009

महोदय,

उपरोक्त विषयान्तर्गत प्रासांगिक प्रार्थना पत्र के क्रम में लिखा जाता है कि आपके लिज नं. एम.एल. 06/1989 के कोर एवं बफर क्षेत्र में पाये जाने वाले फलोरा एवं फोना की सुचीयां आवश्यक कार्यवाही हेतु संलग्न प्रस्तुत है।

संलग्न:- उपरोक्तानुसार।

भवदीय

उप वन संरक्षक
उदयपुर (उत्तर)



Report No.20200512001

Date: - 22.05.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 11.05.2020/12:19PM to 12.05.2020/11:29AM
4. Sample received On : 12.05.2020
5. Period of Analysis : 16.05.2020 to 22.05.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM ₁₀	1.155	M ³ / Min
3.	Ambient Temperature	40.1	°C
4.	Relative Humidity	38.2	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	64.62	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	36.22	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	13.24	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	17.22	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Note

- MoEFCC, New Delhi recognition under the Environment (Protection) Act 1986, vide gazette notification, dated 02.06.2016 to 01.06.2021.
- Complaint Register is available in lab / Email ID lab.offices@wolkem.com / om.shukla@wolkem.com
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Page 1 of 1

End of Report

Registered & Corporate Office :

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological TC-5941

Our Commitment.. Your Trust

Report No.20200512001

Date: - 22.05.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 11.05.2020/12:19PM to 12.05.2020/11:29AM
4. Sample received On : 12.05.2020
5. Period of Analysis : 16.05.2020 to 22.05.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM ₁₀	1.155	M ³ /Min
3.	Ambient Temperature	40.1	°C
4.	Relative Humidity	38.2	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.76	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	8.65	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.901	-

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)

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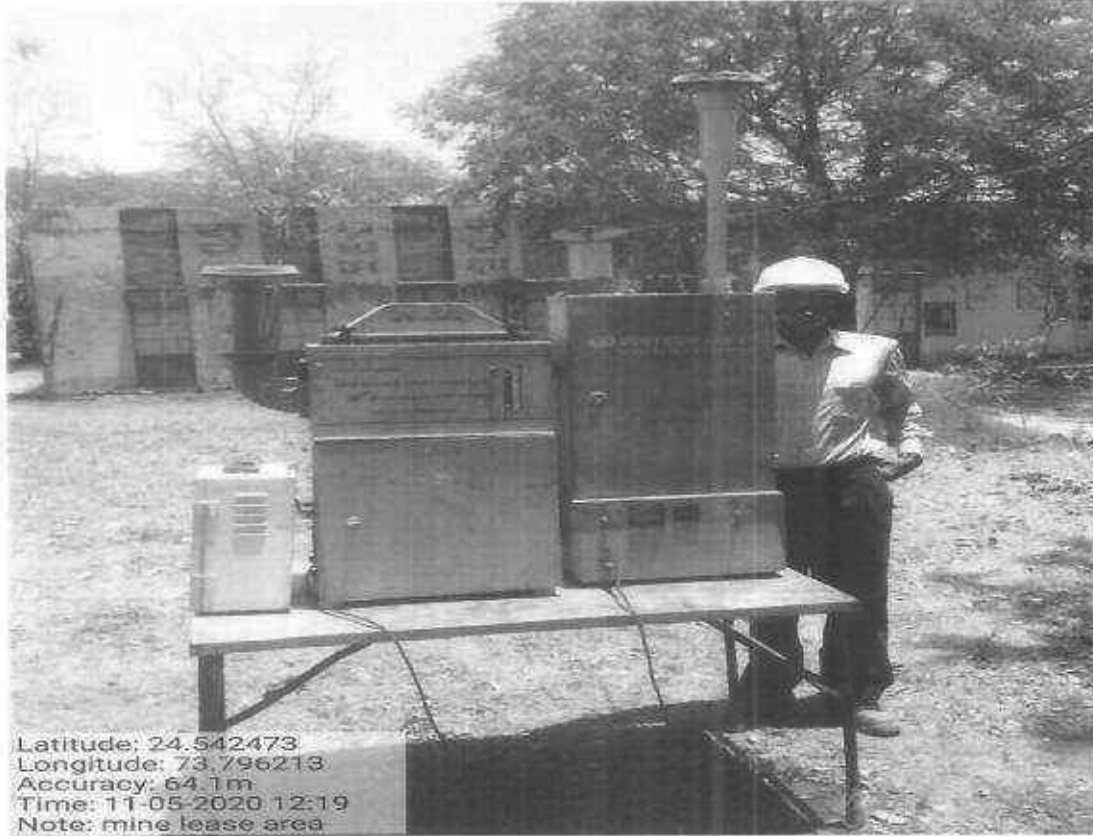
OHSAS
Certificate No:
32024-A.111

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Environmental Monitoring Photograph of Ambient Air 01st week May 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area
3. Date of Monitoring :- 11.05.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200512001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200513001

Date: - 22.05.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 12.05.2020/09:34AM to 13.05.2020/08:35AM
4. Sample received On : 13.05.2020
5. Period of Analysis : 16.05.2020 to 22.05.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

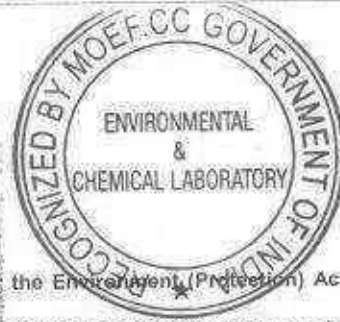
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM ₁₀	1.16	M ³ / Min
3.	Ambient Temperature	39.8	°C
4.	Relative Humidity	41	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	74.63	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	38.54	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	15.61	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	19.84	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report



Report No.20200513001

Date: - 22.05.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 12.05.2020/09:34AM to 13.05.2020/08:35AM
4. Sample received On : 13.05.2020
5. Period of Analysis : 16.05.2020 to 22.05.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

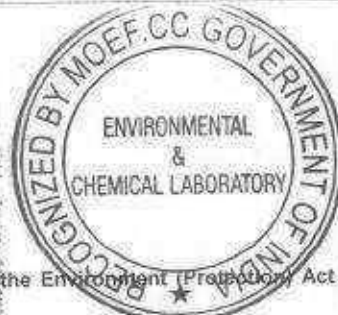
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM ₁₀	1.16	M ³ / Min
3.	Ambient Temperature	39.8	°C
4.	Relative Humidity	41	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.98	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO:WIL/AIR/TP/ 23/25	6.73	-
3.	PO ₄	µg/m ³	SOP NO:WIL/AIR/TP/ 24/25	0.820	-

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
32024-A111

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Environmental Monitoring Photograph of Ambient Air 01st week May 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umrada Village
3. Date of Monitoring :- 12.05.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200513001



Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200514001

Date: - 22.05.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 13.05.2020/08:05AM to 14.05.2020/07:00AM
4. Sample received On : 14.05.2020
5. Period of Analysis : 16.05.2020 to 22.05.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

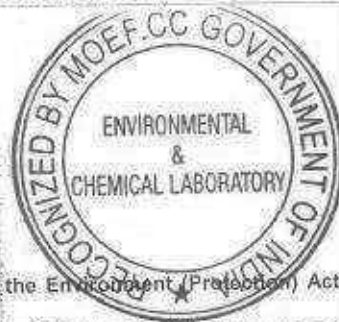
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1374	Minutes
2.	Average Flow rate for PM ₁₀	1.165	M ³ / Min
3.	Ambient Temperature	38.2	°C
4.	Relative Humidity	39	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2008 RA 2017	73.37	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	38.27	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	15.68	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	19.41	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page: 1 of 1
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Report No.20200514001

Date: - 22.05.2020

TEST REPORT

(Ambient Air Quality Monitoring)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 13.05.2020/08:05AM to 14.05.2020/07:00AM
4. Sample received On : 14.05.2020
5. Period of Analysis : 16.05.2020 to 22.05.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1374	Minutes
2.	Average Flow rate for PM ₁₀	1.165	M ³ / Min
3.	Ambient Temperature	38.2	°C
4.	Relative Humidity	39	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.88	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	8.07	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.739	-

Tested by


(Manish Khatwani)
Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

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CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
32024-A111

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Environmental Monitoring Photograph of Ambient Air 01st week May 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas Village
3. Date of Monitoring :- 13.05.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200514001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200515001

Date: - 22.05.2020

TEST REPORT (Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 14.05.2020/08:14AM to 15.05.2020/07:34AM
4. Sample received On : 15.05.2020
5. Period of Analysis : 16.05.2020 to 22.05.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

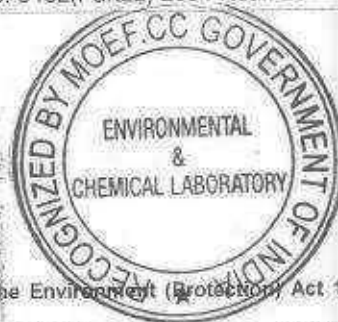
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1392	Minutes
2.	Average Flow rate for PM ₁₀	1.18	M ³ / Min
3.	Ambient Temperature	36	°C
4.	Relative Humidity	40	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	66.27	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	36.92	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	13.75	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	17.65	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
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Rockphosphate Maton Mine
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AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 14.05.2020/08:14AM to 15.05.2020/07:34AM
4. Sample received On : 15.05.2020
5. Period of Analysis : 16.05.2020 to 22.05.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

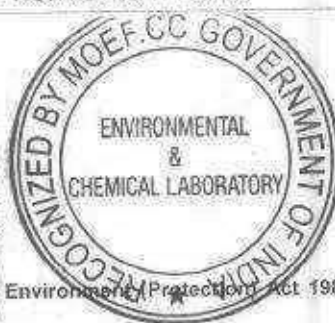
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1392	Minutes
2.	Average Flow rate for PM ₁₀	1.18	M ³ / Min
3.	Ambient Temperature	36	°C
4.	Relative Humidity	40	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.77	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	8.18	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.726	-

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
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E-102, M.I.A. UDAIPUR (Rajasthan)

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Environmental Monitoring Photograph of Ambient Air 01st week May 2020

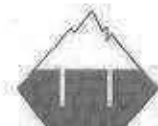
1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton Village
3. Date of Monitoring :- 14.05.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200515001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200516001

Date: - 22.05.2020

TEST REPORT


(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 15.05.2020/10:08AM to 16.05.2020/09:18AM
4. Sample received On : 16.05.2020
5. Period of Analysis : 16.05.2020 to 22.05.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM10	1.16	M ³ / Min
3.	Ambient Temperature	35.8	°C
4.	Relative Humidity	39	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	70.13	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	37.08	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.96	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	18.74	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

- MoEFCC, New Delhi recognition under the Environment (Protection) Act 1986, vide gazette notification, no. 1011/2016 dt. 02.06.2016 to 01.06.2021.
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Page 1 of 1

End of Report

Registered & Corporate Office :

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-A111 TC - 5941

Our Commitment.. Your Trust



Report No.20200516001

Date: - 22.05.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 15.05.2020/10:08AM to 16.05.2020/09:18AM
4. Sample received On : 16.05.2020
5. Period of Analysis : 16.05.2020 to 22.05.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM10	1.16	M ³ / Min
3.	Ambient Temperature	35.8	°C
4.	Relative Humidity	39	%

Results Ambient Air Quality


S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.77	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.35	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.715	-

Tested by

(Ananish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAPIPUR (Rajasthan)

Note

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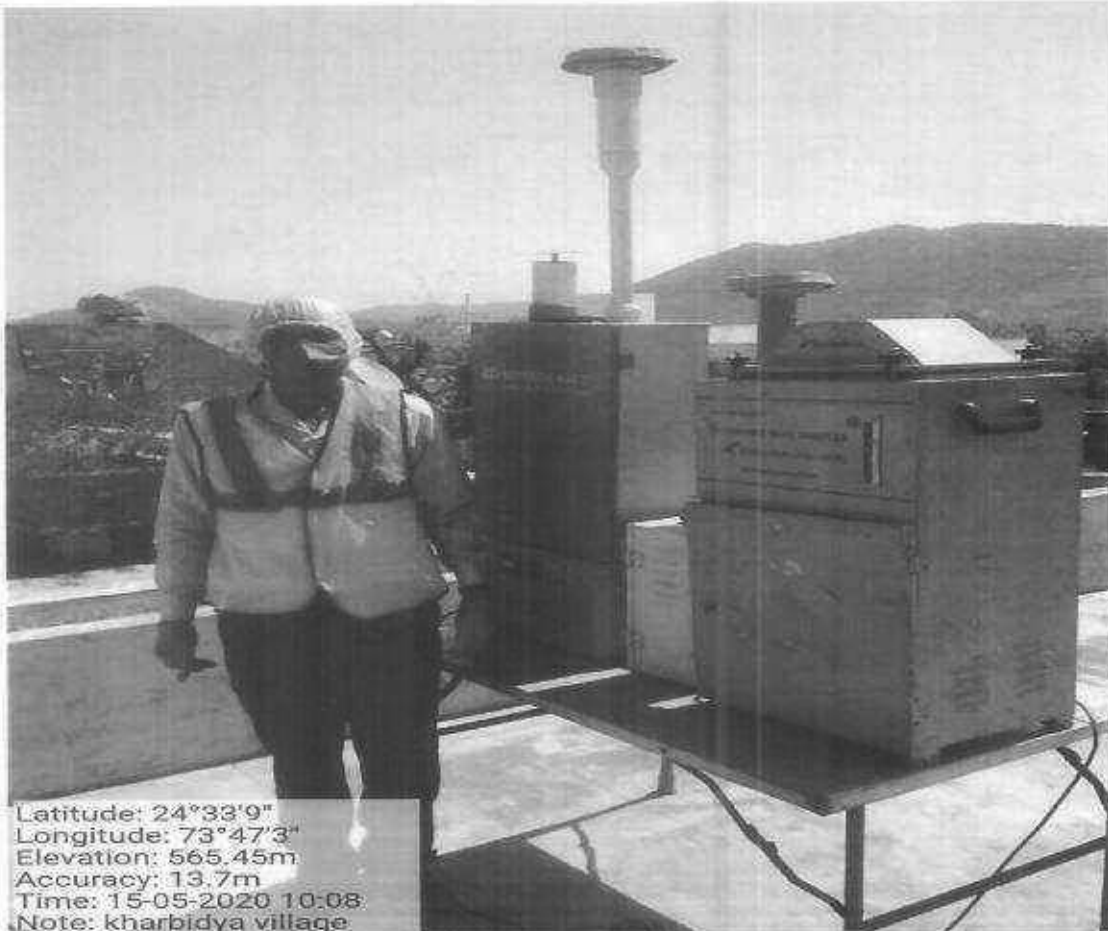
CHSAS
Certificate No.
32024-A111

Our Commitment.. Your Trust

Environmental Monitoring Photograph of Ambient Air 01st week May 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria Village
3. Date of Monitoring :- 15.05.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200516001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200526001

Date: - 02.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 25.05.2020/12:59PM to 26.05.2020/12:05PM
4. Sample received On : 26.05.2020
5. Period of Analysis : 26.05.2020 to 02.06.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

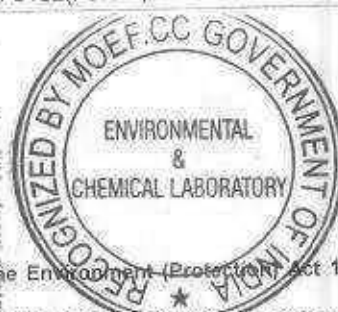
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1384	Minutes
2.	Average Flow rate for PM10	1.160	M ³ / Min
3.	Ambient Temperature	42.8	°C
4.	Relative Humidity	23	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	72.55	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	37.96	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	15.39	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	18.79	80
5.	Lead	µg/m ³	IS: 5182(Part2) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report



Date: - 02.06.2020

Report No.20200526001

TEST REPORT


(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 25.05.2020/12:59PM to 26.05.2020/12:05PM
4. Sample received On : 26.05.2020
5. Period of Analysis : 26.05.2020 to 02.06.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2, Part 6, Part23, Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1384	Minutes
2.	Average Flow rate for PM10	1.160	M ³ / Min
3.	Ambient Temperature	42.8	°C
4.	Relative Humidity	23	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.76	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.78	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.732	-

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
32024-A111

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Environmental Monitoring Photograph of Ambient Air 02nd week May 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria Village
3. Date of Monitoring :- 25.05.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200526001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200527001

Date: - 02.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016, 1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 26.05.2020/10:19AM to 27.05.2020/09:09AM
4. Sample received On : 27.05.2020
5. Period of Analysis : 27.05.2020 to 02.06.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1374	Minutes
2.	Average Flow rate for PM10	1.180	M ³ / Min
3.	Ambient Temperature	37	°C
4.	Relative Humidity	29	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	67.62	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	37.80	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.36	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	18.25	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)

Note

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Page 1 of 1

End of Report



Report No.20200527001

Date: - 02.06.2020

TEST REPORT


(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO- 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 26.05.2020/10:19AM to 27.05.2020/09:09AM
4. Sample received On : 27.05.2020
5. Period of Analysis : 27.05.2020 to 02.06.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1374	Minutes
2.	Average Flow rate for PM10	1.180	M ³ / Min
3.	Ambient Temperature	37	°C
4.	Relative Humidity	29	%


Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.66	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	8.27	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.810	-

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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End of Report

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
32024-A111

Environmental Monitoring Photograph of Ambient Air 02nd week May 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton Village
3. Date of Monitoring :- 26.05.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200527001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200528001

Date: - 02.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated - 01.01.2019
3. Date & Time of Monitoring : 27.05.2020/09:49AM to 28.05.2020/08:55AM
4. Sample received On : 28.05.2020
5. Period of Analysis : 28.05.2020 to 02.06.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM10	1.165	M ³ / Min
3.	Ambient Temperature	37.5	°C
4.	Relative Humidity	28	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	74.10	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	39.20	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	15.94	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	19.43	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.A. UDAIPUR (Rajasthan)

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Certificate No. Chemical & Biological
32024-A111 TC - 5941

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Report No.20200528001

Date: - 02.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt, Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 27.05.2020/09:49AM to 28.05.2020/08:55AM
4. Sample received On : 28.05.2020
5. Period of Analysis : 28.05.2020 to 02.06.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2, Part 6, Part23, Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM10	1.165	M ³ / Min
3.	Ambient Temperature	37.5	°C
4.	Relative Humidity	28	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.66	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	8.20	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.781	-

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.A., UDAPUR (Rajasthan)

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CIN- U29299RJ1971PLC001379



DHSAS
Certificate No.
32024-A111

Environmental Monitoring Photograph of Ambient Air 02nd week May 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas Village
3. Date of Monitoring :- 27.05.2020
4. GPS Coordinates :- Mention in Photograph
5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200528001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Report No.20200529001

Date: - 02.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 28.05.2020/10:12AM to 29.05.2020/09:15AM
4. Sample received On : 29.05.2020
5. Period of Analysis : 29.05.2020 to 02.06.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

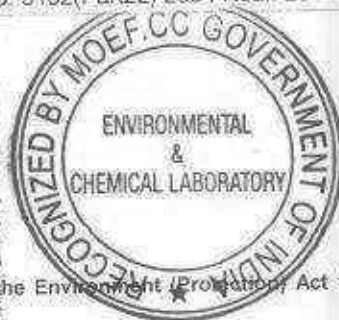
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.165	M ³ / Min
3.	Ambient Temperature	38.8	°C
4.	Relative Humidity	29	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	75.30	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 Issue date 01.05.2019	39.37	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	16.01	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	19.52	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report



Report No.20200529001

Date: - 02.06.2020

TEST REPORT


(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 28.05.2020/10:12AM to 29.05.2020/09:15AM
4. Sample received On : 29.05.2020
5. Period of Analysis : 29.05.2020 to 02.06.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.165	M ³ / Min
3.	Ambient Temperature	38.8	°C
4.	Relative Humidity	29	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.88	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.94	-
3.	PO	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.817	-

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note:

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Page 1 of 1

End of Report

Registered & Corporate Office :

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN - U29299RJ1971PLC001379



OHSAS
Certificate No.
32024-A111

Environmental Monitoring Photograph of Ambient Air 02nd week May 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umarada Village
3. Date of Monitoring :- 28.05.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200529001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200530001

Date: - 02.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 29.05.2020/12:47PM to 30.05.2020/11:07AM
4. Sample received On : 30.05.2020
5. Period of Analysis : 30.05.2020 to 02.06.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1392	Minutes
2.	Average Flow rate for PM10	1.165	M ³ / Min
3.	Ambient Temperature	37.8	°C
4.	Relative Humidity	31.2	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2008 RA 2017	66.89	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	36.88	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.74	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	18.01	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Authorized Signatory

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, Mewar Industrial Area, Madri, Udaipur (Rajasthan)

Note

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End of Report



Report No.20200530001

Date: - 02.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 29.05.2020/12:47PM to 30.05.2020/11:07AM
4. Sample received On : 30.05.2020
5. Period of Analysis : 30.05.2020 to 02.06.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1392	Minutes
2.	Average Flow rate for PM10	1.165	M ³ / Min
3.	Ambient Temperature	37.8	°C
4.	Relative Humidity	31.2	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.77	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	8.17	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.852	-

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, Maton, Udaipur (Rajasthan)

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
32024-A111

Environmental Monitoring Photograph of Ambient Air 02nd week May 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area
3. Date of Monitoring :- 29.05.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200530001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



TEST REPORT (Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 08.06.2020/10:18AM to 09.06.2020/09:05AM
4. Sample received On : 09.06.2020
5. Period of Analysis : 15.06.2020 to 19.06.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM ₁₀	1.1	M ³ / Min
3.	Ambient Temperature	37	°C
4.	Relative Humidity	46	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	70.48	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	37.94	60
3.	SO ₂	µg/m ³	IS 5182 (Part 2)2001 Reaff 2017	15.37	80
4.	NO ₂	µg/m ³	IS 5182 (Part 6)2006 Reaff 2017	19.43	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manishi Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory



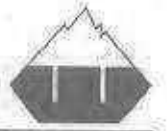
(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)

Note

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Page 1 of 1

End of Report



Report No.20200609001

Date: - 22.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 08.06.2020/10:18AM to 09.06.2020/09:05AM
4. Sample received On : 09.06.2020
5. Period of Analysis : 15.06.2020 to 19.06.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM ₁₀	1.1	M ³ / Min
3.	Ambient Temperature	37	°C
4.	Relative Humidity	46	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.88	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	8.43	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.878	-

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
32024-A111

Environmental Monitoring Photograph of Ambient Air 01st week June 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area
3. Date of Monitoring :- 08.06.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200609001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PQ No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 09.06.2020/11:03AM to 10.06.2020/10:00AM
4. Sample received On : 10.06.2020
5. Period of Analysis : 15.06.2020 to 19.06.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM ₁₀	1.155	M ³ / Min
3.	Ambient Temperature	33.5	°C
4.	Relative Humidity	45	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	77.46	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	39.84	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	17.15	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2008 Reaff 2017	20.86	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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End of Report



Report No.20200610001

Date: - 22.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 09.06.2020/11:03AM to 10.06.2020/10:00AM
4. Sample received On : 10.06.2020
5. Period of Analysis : 15.06.2020 to 19.06.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM ₁₀	1.155	M ³ / Min
3.	Ambient Temperature	33.5	°C
4.	Relative Humidity	45	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.89	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.38	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.883	-

Tested by

Authorized Signatory

(Manish Kumawat)
Asst. Officer (QC & Env.)



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
32024-A111

Environmental Monitoring Photograph of Ambient Air 01st week June 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umrada Village
3. Date of Monitoring :- 09.06.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200610001

✓
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



TEST REPORT

(Ambient Air Quality Monitoring)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 10.06.2020/11:55AM to 11.06.2020/11:00AM
4. Sample received On : 11.06.2020
5. Period of Analysis : 15.06.2020 to 19.06.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1384	Minutes
2.	Average Flow rate for PM ₁₀	1.16	M ³ / Min
3.	Ambient Temperature	35.4	°C
4.	Relative Humidity	48	%

Results Ambient Air Quality


S. No	Parameters	Unit	Test Method	Results	NAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	75.65	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	39.73	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	16.53	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	20.80	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory




(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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CIN- U29299RJ1971PLC001379



Our Commitment.. Your Trust



Report No.20200611001

Date: - 22.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016 1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 10.06.2020/11:55AM to 11.06.2020/11:00AM
4. Sample received On : 11.06.2020
5. Period of Analysis : 15.06.2020 to 19.06.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1384	Minutes
2.	Average Flow rate for PM ₁₀	1.16	M ³ / Min
3.	Ambient Temperature	35.4	°C
4.	Relative Humidity	48	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.77	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	8.44	-
3.	PO _x	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.796	-

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



DHSAS
Certificate No.
32024-A111


Environmental Monitoring Photograph of Ambient Air 01st week June 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas Village
3. Date of Monitoring :- 10.06.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200611001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200612001

Date: - 22.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 11.06.2020/12:02PM to 12.06.2020/11:00AM
4. Sample received On : 12.06.2020
5. Period of Analysis : 15.06.2020 to 19.06.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1378	Minutes
2.	Average Flow rate for PM ₁₀	1.17	M ³ / Min
3.	Ambient Temperature	41.1	°C
4.	Relative Humidity	37	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	69.7	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	37.73	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	15.46	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	18.87	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological TC - 3941

Our Commitment.. Your Trust



Report No.20200612001

Date: - 22.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 11.06.2020/12:02PM to 12.06.2020/11:00AM
4. Sample received On : 12.06.2020
5. Period of Analysis : 15.06.2020 to 19.06.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1378	Minutes
2.	Average Flow rate for PM ₁₀	1.17	M ³ / Min
3.	Ambient Temperature	41.1	°C
4.	Relative Humidity	37	%

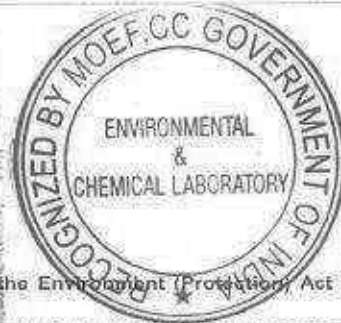
Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.76	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	8.48	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.756	-

Tested by

Authorized Signatory

(Manish Kumawat)
Asst. Officer (QC & Env.)



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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CIN: U29299RJ1971PLC001379



OHSAS
Certificate No.
32024-A111

Environmental Monitoring Photograph of Ambient Air 01st week June 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton Village
3. Date of Monitoring :- 11.06.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200612001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.J.A., UDAIPUR (Rajasthan)



TEST REPORT


(Ambient Air Quality Monitoring)

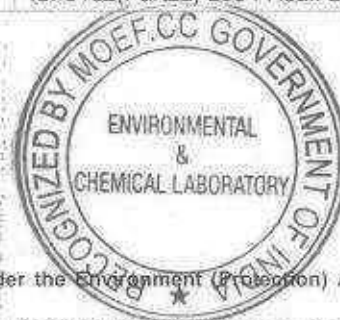
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 12.06.2020/09:23AM to 13.06.2020/08:20AM
4. Sample received On : 13.06.2020
5. Period of Analysis : 15.06.2020 to 19.06.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.16	M ³ / Min
3.	Ambient Temperature	31.7	°C
4.	Relative Humidity	50	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	70.25	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	38.11	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.87	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	17.50	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by 
(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1

End of Report



Report No.20200613001

Date : - 22.06.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016/1201/ 5100019025 Date-13.01.2016.
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 12.06.2020/09:23AM to 13.06.2020/08:20AM
4. Sample received On : 13.06.2020
5. Period of Analysis : 15.06.2020 to 19.06.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.16	M ³ / Min
3.	Ambient Temperature	31.7	°C
4.	Relative Humidity	50	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.56	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.16	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.729	-

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
32024-A111

Our Commitment.. Your Trust

Environmental Monitoring Photograph of Ambient Air 01st week June 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria Village
3. Date of Monitoring :- 12.06.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200613001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 22.06.2020/10:10AM to 23.06.2020/09:10AM
4. Sample received On : 23.06.2020
5. Period of Analysis : 29.06.2020 to 02.07.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.155	M ³ / Min
3.	Ambient Temperature	30.9	°C
4.	Relative Humidity	54	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	67.05	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	35.04	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	13.72	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	16.82	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

Manish Kumawat
Asst. Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report



Report No.20200623001

Date: - 02.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016 1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 22.06.2020/10:10AM to 23.06.2020/09:10AM
4. Sample received On : 23.06.2020
5. Period of Analysis : 29.06.2020 to 02.07.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.155	M ³ / Min
3.	Ambient Temperature	30.9	°C
4.	Relative Humidity	54	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.94	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.705	-

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
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Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



ONSAS
Certificate No.
32024-A111

Environmental Monitoring Photograph of Ambient Air 02nd week June 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria Village
3. Date of Monitoring :- 22.06.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200623001

✓
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 23.06.2020/10:24AM to 24.06.2020/09:10AM
4. Sample received On : 24.06.2020
5. Period of Analysis : 29.06.2020 to 02.07.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1375	Minutes
2.	Average Flow rate for PM10	1.170	M ³ / Min
3.	Ambient Temperature	31.7	°C
4.	Relative Humidity	51	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	66.18	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	35.60	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.92	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	17.56	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
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Page 1 of 1
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Report No.20200624001

Date: - 02.07.2020

TEST REPORT (Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2018.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO. 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 23.06.2020/10:24AM to 24.06.2020/09:10AM
4. Sample received On : 24.06.2020
5. Period of Analysis : 29.06.2020 to 02.07.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1375	Minutes
2.	Average Flow rate for PM10	1.170	M ³ / Min
3.	Ambient Temperature	31.7	°C
4.	Relative Humidity	51	%

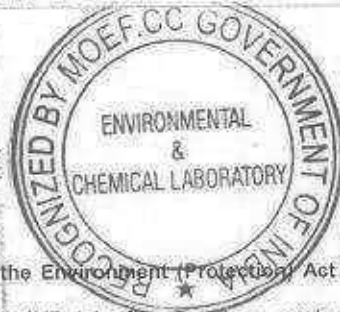
Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.83	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.693	-

Tested by

Authorized Signatory

(Mahish Kumawat)
Asst.Officer (QC & Env.)



(Dr. S. K. Yadav)
Chief Manager (Environment)
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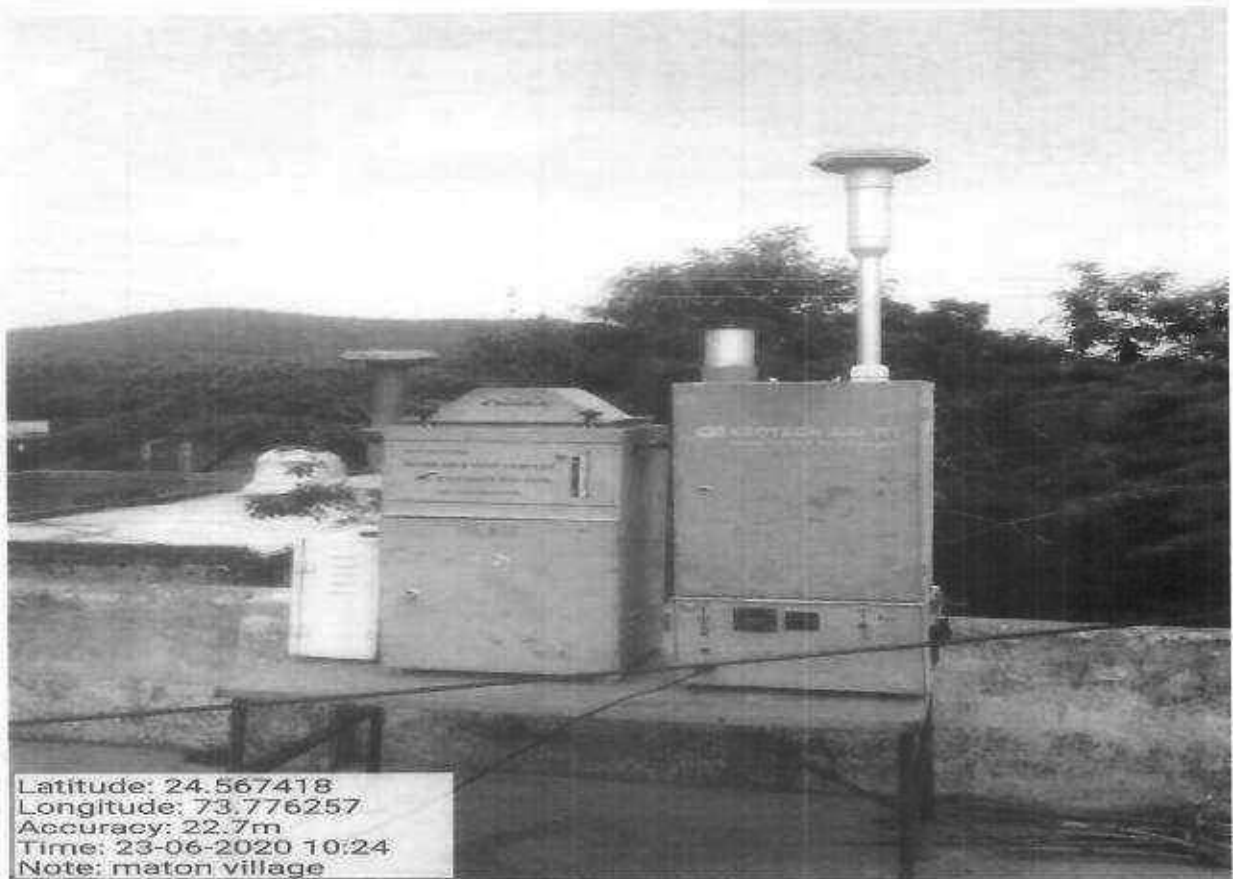


OHSAS
Certificate No.
32024-A111


Environmental Monitoring Photograph of Ambient Air 02nd week June 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton Village
3. Date of Monitoring :- 23.06.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200624001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2018.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 24.06.2020/10:05AM to 25.06.2020/09:55AM
4. Sample received On : 25.06.2020
5. Period of Analysis : 29.06.2020 to 02.07.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1378	Minutes
2.	Average Flow rate for PM10	1.160	M ³ / Min
3.	Ambient Temperature	32.4	°C
4.	Relative Humidity	50	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2008 RA 2017	70.03	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	37.69	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.89	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2008 Reaff 2017	18.87	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S.-K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report



Report No.20200625001

Date: - 02.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2018.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 24.06.2020/10:05AM to 25.06.2020/09:55AM
4. Sample received On : 25.06.2020
5. Period of Analysis : 29.06.2020 to 02.07.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1378	Minutes
2.	Average Flow rate for PM10	1.160	M ³ / Min
3.	Ambient Temperature	32.4	°C
4.	Relative Humidity	50	%

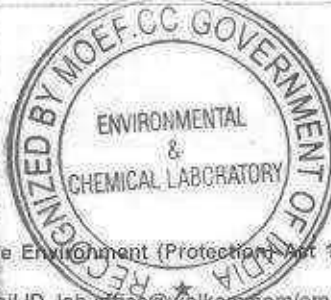
Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.56	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	8.03	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.725	-

Tested by


(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379

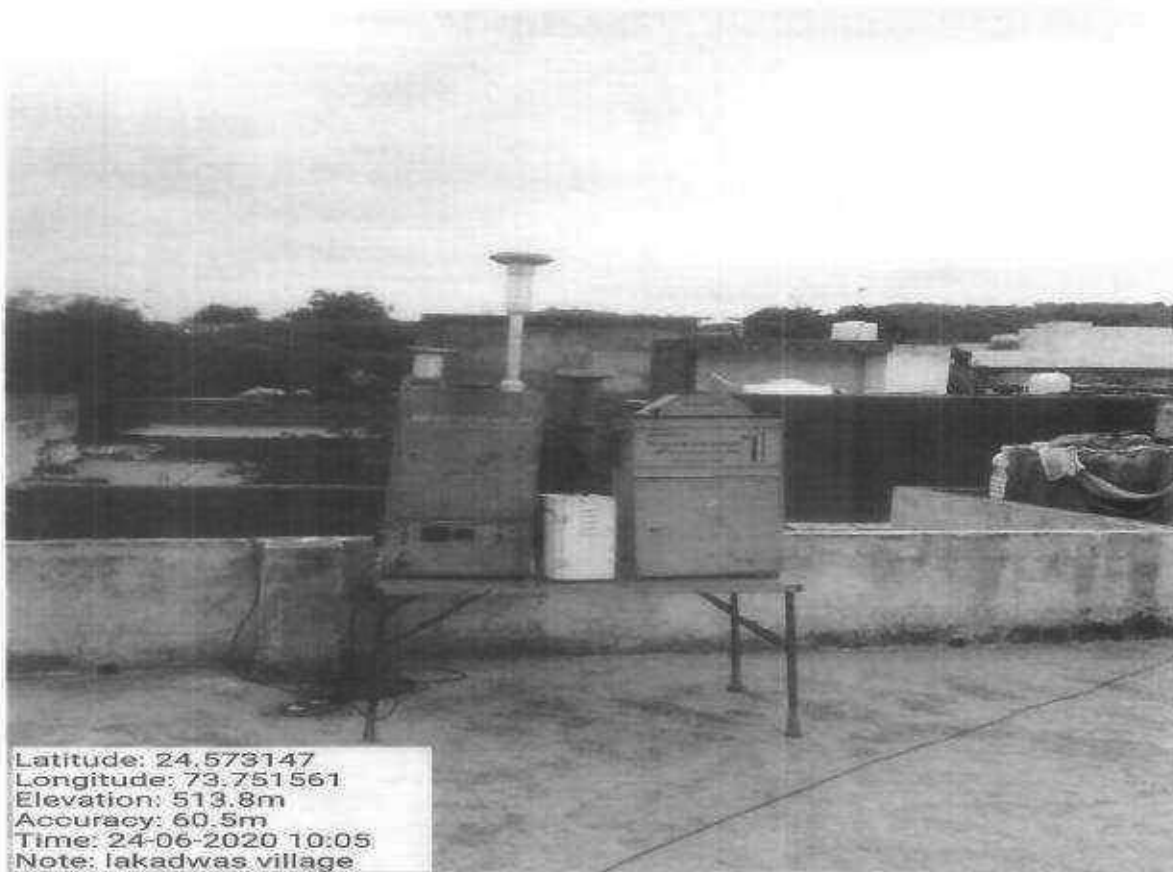


OHSAS
Certificate No
32024-A111

Environmental Monitoring Photograph of Ambient Air 02nd week June 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas Village
3. Date of Monitoring :- 24.06.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200625001

✓
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200626001

Date: - 02.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 25.06.2020/10:12AM to 26.06.2020/09:15AM
4. Sample received On : 26.06.2020
5. Period of Analysis : 29.06.2020 to 02.07.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

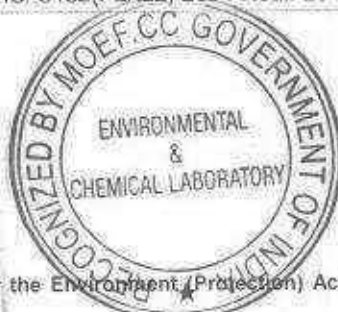
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1382	Minutes
2.	Average Flow rate for PM10	1.180	M ³ / Min
3.	Ambient Temperature	30	°C
4.	Relative Humidity	54	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	72.94	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	36.29	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.27	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	17.47	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-A111 TC - 5941

Our Commitment.. Your Trust



Report No.20200626001

Date: - 02.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 25.06.2020/10:12AM to 26.06.2020/09:15AM
4. Sample received On : 26.06.2020
5. Period of Analysis : 29.06.2020 to 02.07.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1382	Minutes
2.	Average Flow rate for PM10	1.180	M ³ / Min
3.	Ambient Temperature	30	°C
4.	Relative Humidity	54	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.79	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.14	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.768	-

Tested by

Manish Kumawat
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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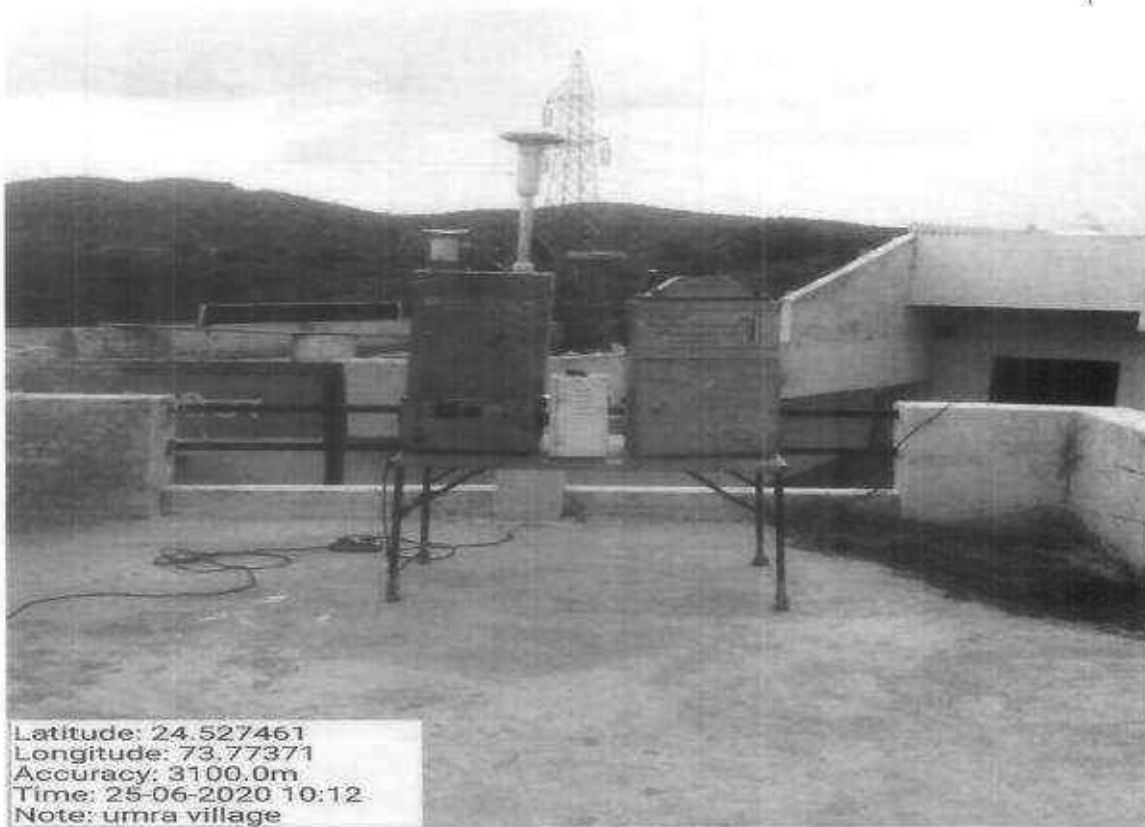
Page 1 of 1

End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week June 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umarada Village
3. Date of Monitoring :- 25.06.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200626001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200629001

Date: - 02.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 26.06.2020/03:19PM to 27.06.2020/02:05PM
4. Sample received On : 29.06.2020
5. Period of Analysis : 29.06.2020 to 02.07.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.170	M ³ / Min
3.	Ambient Temperature	30.4	°C
4.	Relative Humidity	53	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	68.28	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	37.21	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	15.44	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	18.84	80
5.	Lead	µg/m ³	IS: 5182(Part22)-2004 Reaff 2014	<0.001	1.0

Tested by

Manish Kumawat
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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End of Report



Report No.20200629001

Date: - 02.07.2020

TEST REPORT (Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 26.06.2020/03:19PM to 27.06.2020/02:05PM
4. Sample received On : 29.06.2020
5. Period of Analysis : 29.06.2020 to 02.07.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.170	M ³ / Min
3.	Ambient Temperature	30.4	°C
4.	Relative Humidity	53	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.79	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.80	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.824	-

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, Mewar Industrial Area, Madri (Rajasthan)

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Registered & Corporate Office :

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CIN- U29299RJ1971PLC001379



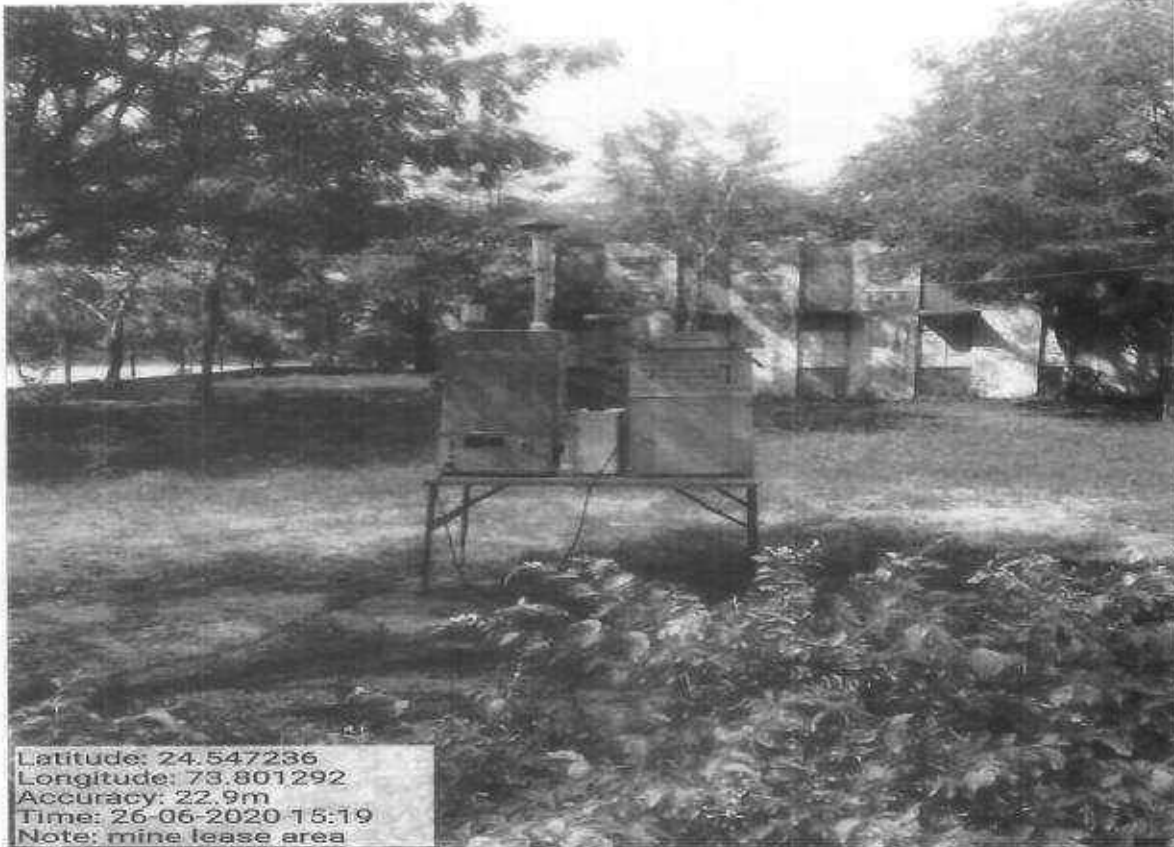
ONSAS
Certificate No.
32024-R111

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Environmental Monitoring Photograph of Ambient Air 02nd week June 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area
3. Date of Monitoring :- 26.06.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200629001


Environmental & Chemical Laboratory
Wolkem India Limited
B-102, P.O. Industrial Area, Gandhinagar



Report No.20200707001

Date: - 20.07.2020

TEST REPORT

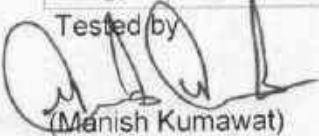
(Ambient Air Quality Monitoring)

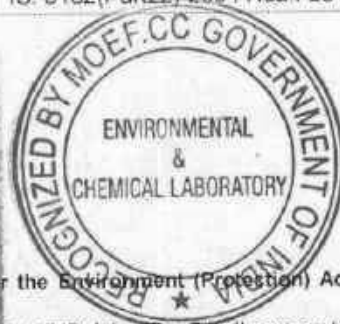
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 06.07.2020/11:48AM to 07.07.2020/10:50AM
4. Sample received On : 07.07.2020
5. Period of Analysis : 13.07.2020 to 20.07.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1384	Minutes
2.	Average Flow rate for PM ₁₀	1.165	M ³ / Min
3.	Ambient Temperature	32.4	°C
4.	Relative Humidity	51.2	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	62.92	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	36.27	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.25	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	17.45	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological
TC - 5941

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TEST REPORT

(Ambient Air Quality Monitoring)

- | | | |
|---|---|---|
| 1. Name of Customer | : | HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA |
| 2. Purchase order Number | : | PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019 |
| 3. Date & Time of Monitoring | : | 06.07.2020/11:48AM to 07.07.2020/10:50AM |
| 4. Sample received On | : | 07.07.2020 |
| 5. Period of Analysis | : | 13.07.2020 to 20.07.2020 |
| 6. Name of Location | : | Mine Lease area |
| 7. Method of Sampling | : | IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual |

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1384	Minutes
2.	Average Flow rate for PM ₁₀	1.165	M ³ / Min
3.	Ambient Temperature	32.4	°C
4.	Relative Humidity	51.2	%

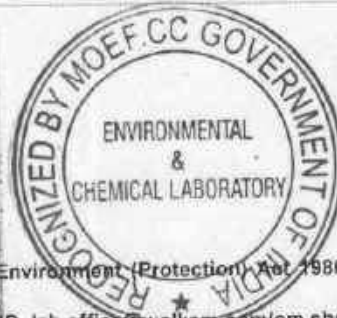
Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.78	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.14	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.788	-

Tested by

 (Manish Kumawat)
 Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
 Chief Manager (Environment)
 Environmental & Chemical Laboratory
Wolkem India Limited
 E-102, M.L.A. UDAIPUR (Rajasthan)

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Page 1 of 1
 End of Report

Environmental Monitoring Photograph of Ambient Air 01st week July 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area
3. Date of Monitoring :- 06.07.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200707001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200708001

Date: - 20.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 07.07.2020/12:03PM to 08.07.2020/11:00AM
4. Sample received On : 08.07.2020
5. Period of Analysis : 13.07.2020 to 20.07.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1382	Minutes
2.	Average Flow rate for PM ₁₀	1.155	M ³ / Min
3.	Ambient Temperature	31.6	°C
4.	Relative Humidity	53.4	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS 5182 (Part 23)2006 RA 2017	69.20	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	38.05	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	15.99	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	18.82	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India
Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological TC - 5941

Our Commitment.. Your Trust



Report No.20200708001

Date: - 20.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 07.07.2020/12:03PM to 08.07.2020/11:00AM
4. Sample received On : 08.07.2020
5. Period of Analysis : 13.07.2020 to 20.07.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1382	Minutes
2.	Average Flow rate for PM ₁₀	1.155	M ³ / Min
3.	Ambient Temperature	31.6	°C
4.	Relative Humidity	53.4	%

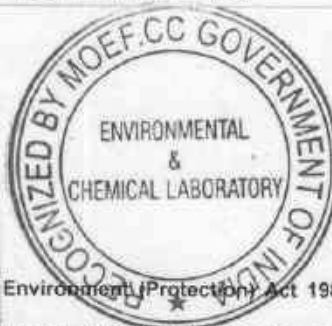
Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.78	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO. WIL/AIR/TP/ 23/25	6.72	-
3.	PO ₄	µg/m ³	SOP NO. WIL/AIR/TP/ 24/25	0.828	-

Tested by

(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Nota

- MoEFCC, New Delhi recognition under the Environment Protection Act 1986, vide gazette notification no. 1357 is valid from 02.06.2016 to 01.06.2021.
- Complaint Register is available in lab / Email ID lab.office@wolkem.com / om.shukla@wolkem.com
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Page 1 of 1
End of Report

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



ONSAS
Certificate No.
32024-A111

Environmental Monitoring Photograph of Ambient Air 01st week July 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umrada Village
3. Date of Monitoring :- 07.07.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200708001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200709001

Date: - 20.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

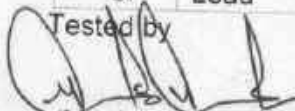
- | | | |
|------------------------------|---|---|
| 1. Name of Customer | : | HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA |
| 2. Purchase order Number | : | PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019 |
| 3. Date & Time of Monitoring | : | 08.07.2020/11:01AM to 09.07.2020/10:05AM |
| 4. Sample received On | : | 09.07.2020 |
| 5. Period of Analysis | : | 13.07.2020 to 20.07.2020 |
| 6. Name of Location | : | Lakadwas Village |
| 7. Method of Sampling | : | IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual |

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM ₁₀	1.16	M ³ / Min
3.	Ambient Temperature	33.2	°C
4.	Relative Humidity	54.6	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS 5182 (Part 23)2006 RA 2017	68.81	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	37.94	60
3.	SO ₂	µg/m ³	IS.5182 (Part 2)2001 Reaff 2017	15.37	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	18.76	80
5.	Lead	µg/m ³	IS. 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-A111 TC - 5641

Our Commitment Your Trust



Report No.20200709001

Date: - 20.07.2020

TEST REPORT

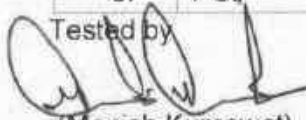
(Ambient Air Quality Monitoring)

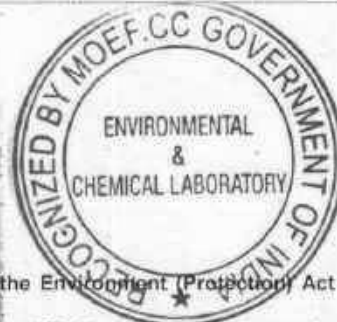
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 08.07.2020/11:01AM to 09.07.2020/10:05AM
4. Sample received On : 09.07.2020
5. Period of Analysis : 13.07.2020 to 20.07.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM ₁₀	1.16	M ³ / Min
3.	Ambient Temperature	33.2	°C
4.	Relative Humidity	54.6	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.35	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.726	-

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report


Environmental Monitoring Photograph of Ambient Air 01st week July 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas Village
3. Date of Monitoring :- 08.07.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200709001


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200710001

Date: - 20.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

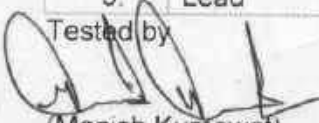
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO. 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 09.07.2020/12:26PM to 10.07.2020/11:20AM
4. Sample received On : 10.07.2020
5. Period of Analysis : 13.07.2020 to 20.07.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

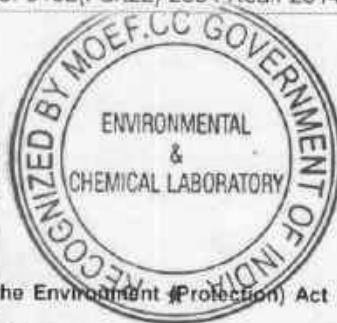
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM ₁₀	1.17	M ³ / Min
3.	Ambient Temperature	31.8	°C
4.	Relative Humidity	51.3	%

Results Ambient Air Quality


S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	63.26	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	35.94	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.29	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	17.50	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report



Report No.20200710001

Date: - 20.07.2020

TEST REPORT (Ambient Air Quality Monitoring)

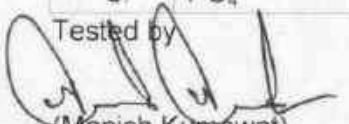
1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number	:	PO No. 2016.1201/ 5100019025 Date 13.01.2016 AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring	:	09.07.2020/12:26PM to 10.07.2020/11:20AM
4. Sample received On	:	10.07.2020
5. Period of Analysis	:	13.07.2020 to 20.07.2020
6. Name of Location	:	Maton Village
7. Method of Sampling	:	IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

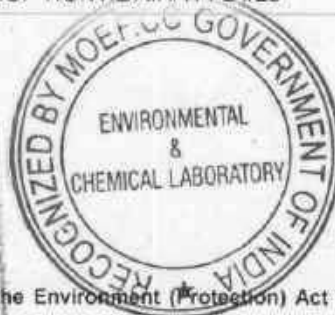
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM ₁₀	1.17	M ³ / Min
3.	Ambient Temperature	31.8	°C
4.	Relative Humidity	51.3	%

Results Ambient Air Quality


S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.95	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.723	-

Tested by


(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 01st week July 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton Village
3. Date of Monitoring :- 09.07.2020
4. GPS Coordinates :- Mentioned in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200710001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



TEST REPORT

(Ambient Air Quality Monitoring)

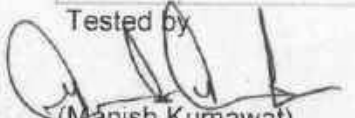
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 10.07.2020/11:50AM to 11.07.2020/10:55AM
4. Sample received On : 11.07.2020
5. Period of Analysis : 13.07.2020 to 20.07.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1382	Minutes
2.	Average Flow rate for PM10	1.16	M ³ / Min
3.	Ambient Temperature	30.6	°C
4.	Relative Humidity	50.4	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	63.91	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	36.76	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	13.70	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	16.13	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

- MoEFCC, New Delhi recognition under the Environment (Protection) Act 1986, vide gazette notification no. 4307 is valid from 02.06.2016 to 01.06.2021.
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Page 1 of 1

End of Report



TEST REPORT

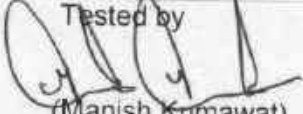
(Ambient Air Quality Monitoring)

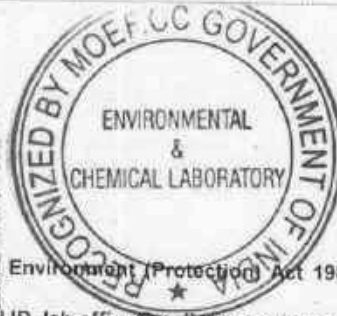
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 10.07.2020/11:50AM to 11.07.2020/10:55AM
4. Sample received On : 11.07.2020
5. Period of Analysis : 13.07.2020 to 20.07.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1382	Minutes
2.	Average Flow rate for PM10	1.16	M ³ / Min
3.	Ambient Temperature	30.6	°C
4.	Relative Humidity	50.4	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.56	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.72	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.707	-

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
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Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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End of Report

Environmental Monitoring Photograph of Ambient Air 01st week July 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria Village
3. Date of Monitoring :- 10.07.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200711001



Report No.20200721001

TEST REPORT

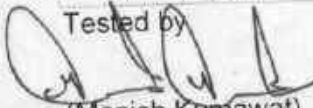
(Ambient Air Quality Monitoring)

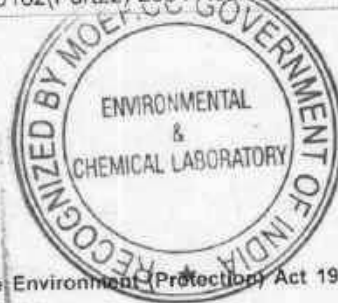
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 20.07.2020/11:02AM to 21.07.2020/10:10AM
4. Sample received On : 21.07.2020
5. Period of Analysis : 27.07.2020 to 31.07.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1382	Minutes
2.	Average Flow rate for PM10	1.175	M ³ / Min
3.	Ambient Temperature	30.2	°C
4.	Relative Humidity	50.3	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	62.47	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	33.70	60
3.	SO ₂	µg/m ³	IS 5182 (Part 2)2001 Reaff 2017	12.56	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	16.13	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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End of Report



TEST REPORT

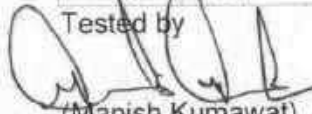
(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 20.07.2020/11:02AM to 21.07.2020/10:10AM
4. Sample received On : 21.07.2020
5. Period of Analysis : 27.07.2020 to 31.07.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1382	Minutes
2.	Average Flow rate for PM10	1.175	M ³ / Min
3.	Ambient Temperature	30.2	°C
4.	Relative Humidity	50.3	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.68	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.28	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.698	-

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

1. MoEFCC, New Delhi recognition under the Environment (Protection) Act 1986, vide gazette notification no. 1357 is valid from 02.06.2016 to 01.06.2021.
2. Complaint Register is available in lab / Email ID lab.office@wolkem.com/om.shukla@wolkem.com
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week July 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria Village
3. Date of Monitoring :- 20.07.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200721001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200722001

Date: - 31.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

- | | | |
|------------------------------|---|---|
| 1. Name of Customer | : | HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA |
| 2. Purchase order Number | : | PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019 |
| 3. Date & Time of Monitoring | : | 21.07.2020/10:19AM to 22.07.2020/09:20AM |
| 4. Sample received On | : | 22.07.2020 |
| 5. Period of Analysis | : | 27.07.2020 to 31.07.2020 |
| 6. Name of Location | : | Matoon Village |
| 7. Method of Sampling | : | IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual |

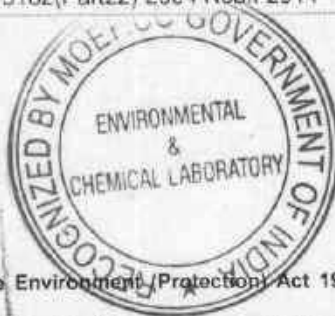
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.165	M ³ / Min
3.	Ambient Temperature	31.2	°C
4.	Relative Humidity	54.1	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	62.86	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	34.61	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	13.72	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	17.50	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India
Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No 32024-A111 Chemical & Biological TC - 5941

Our Commitment.. Your Trust



Report No.20200722001

Date: - 31.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

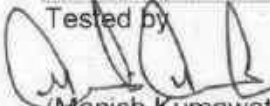
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 21.07.2020/10:19AM to 22.07.2020/09:20AM
4. Sample received On : 22.07.2020
5. Period of Analysis : 27.07.2020 to 31.07.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.165	M ³ / Min
3.	Ambient Temperature	31.2	°C
4.	Relative Humidity	54.1	%

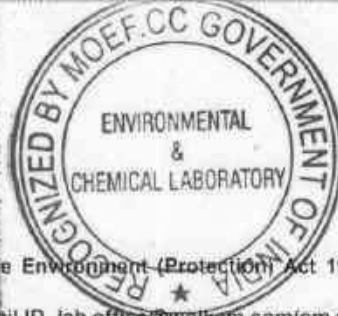
Results Ambient Air Quality


S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.79	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.37	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.705	-

Tested by


(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory




(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week July 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton Village
3. Date of Monitoring :- 21.07.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200722001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200723001

Date: - 31.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 22.07.2020/10:34AM to 23.07.2020/09:50AM
4. Sample received On : 23.07.2020
5. Period of Analysis : 27.07.2020 to 31.07.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

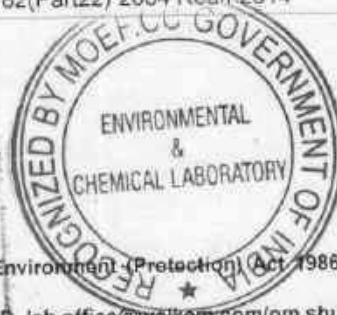
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1384	Minutes
2.	Average Flow rate for PM10	1.165	M ³ / Min
3.	Ambient Temperature	32.1	°C
4.	Relative Humidity	47.2	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	66.08	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	36.67	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.25	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	16.78	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India
Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological TC - 5941

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Report No.20200723001

Date: - 31.07.2020

TEST REPORT

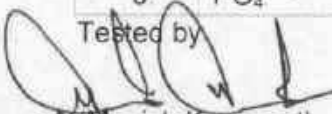
(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 22.07.2020/10:34AM to 23.07.2020/09:50AM
4. Sample received On : 23.07.2020
5. Period of Analysis : 27.07.2020 to 31.07.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

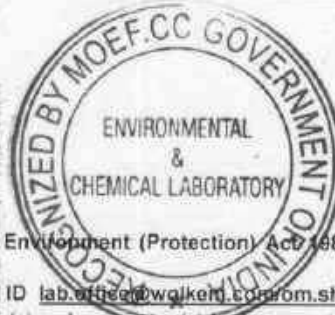
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1384	Minutes
2.	Average Flow rate for PM10	1.165	M ³ / Min
3.	Ambient Temperature	32.1	°C
4.	Relative Humidity	47.2	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.56	-
3.	PO ₄	µg/m ³	SOP NO WIL/AIR/TP/ 24/25	0.703	-

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 MIA, UDAIPUR (Rajasthan)

Note

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- Complaint Register is available in lab / Email ID lab.office@wolkem.com from shukla@wolkem.com
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week July 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas Village
3. Date of Monitoring :- 22.07.2020
4. GPS Coordinates :- Mentioned in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200723001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200724001

Date: - 31.07.2020

TEST REPORT (Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA

2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019

3. Date & Time of Monitoring : 23.07.2020/10:37AM to 24.07.2020/09:40AM

4. Sample received On : 24.07.2020

5. Period of Analysis : 27.07.2020 to 31.07.2020

6. Name of Location : Umrada Village

7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.175	M ³ / Min
3.	Ambient Temperature	32	°C
4.	Relative Humidity	47	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	67.76	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	35.47	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	14.87	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	16.82	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager, Environment
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-A111 TC - 5941

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Report No.20200724001

Date: - 31.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 23.07.2020/10:37AM to 24.07.2020/09:40AM
4. Sample received On : 24.07.2020
5. Period of Analysis : 27.07.2020 to 31.07.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1380	Minutes
2.	Average Flow rate for PM10	1.175	M ³ / Min
3.	Ambient Temperature	32	°C
4.	Relative Humidity	47	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.78	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.50	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.704	-

Tested by


(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

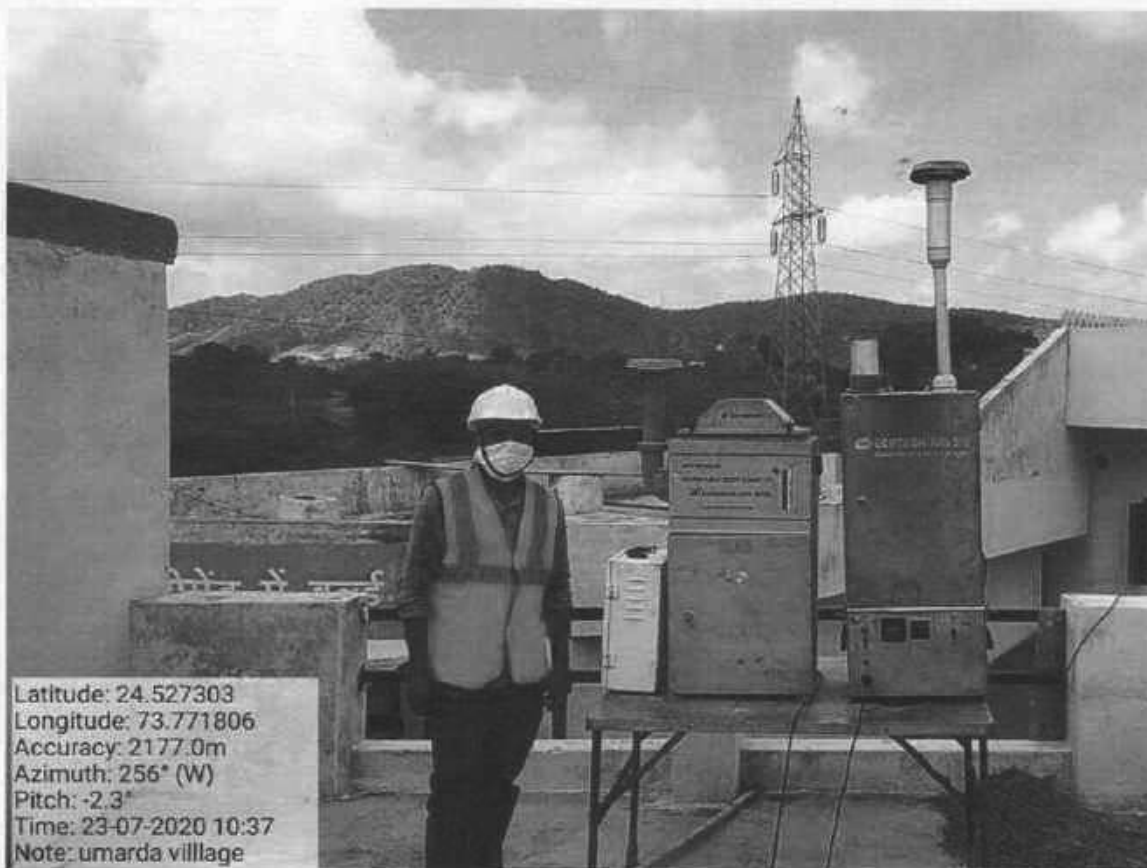
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week July 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umarada Village
3. Date of Monitoring :- 23.07.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200724001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200727001

Date: - 31.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)

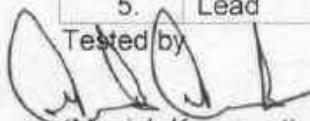
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 24.07.2020/10:41AM to 26.07.2020/09:50AM
4. Sample received On : 27.07.2020
5. Period of Analysis : 27.07.2020 to 31.07.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM10	1.155	M ³ / Min
3.	Ambient Temperature	32.2	°C
4.	Relative Humidity	49.3	%

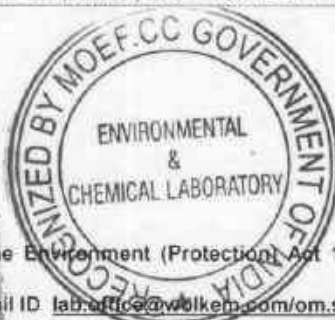
Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	63.32	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	35.75	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	15.37	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	18.09	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited

E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1

End of Report



Report No.20200727001

Date: - 31.07.2020

TEST REPORT

(Ambient Air Quality Monitoring)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 24.07.2020/10:41AM to 25.07.2020/09:50AM
4. Sample received On : 27.07.2020
5. Period of Analysis : 27.07.2020 to 31.07.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1386	Minutes
2.	Average Flow rate for PM10	1.155	M ³ / Min
3.	Ambient Temperature	32.2	°C
4.	Relative Humidity	49.3	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.91	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.697	-

Tested by


(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week July 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area
3. Date of Monitoring :- 24.07.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200727001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200805001

Date: - 17.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 04.08.2020/09:59PM to 05.08.2020/09:40AM
4. Sample received On : 05.08.2020
5. Period of Analysis : 10.08.2020 to 17.08.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1431	Minutes
2.	Average Flow rate for PM ₁₀	1.125	M ³ / Min
3.	Ambient Temperature	31	°C
4.	Relative Humidity	64	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	60.87	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	35.88	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	10.76	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	14.42	80
5.	Lead	µg/m ³	IS: 5182(Part22)-2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Bhagora)
Asst. Chemist

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India
Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-A111 TC - 5961

Our Commitment.. Your Trust



Report No.20200805001

Date: - 17.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 04.08.2020/09:59PM to 05.08.2020/09:40AM
4. Sample received On : 05.08.2020
5. Period of Analysis : 10.08.2020 to 17.08.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

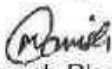
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1431	Minutes
2.	Average Flow rate for PM ₁₀	1.125	M ³ / Min
3.	Ambient Temperature	31	°C
4.	Relative Humidity	64	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.69	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.480	-

Tested by

Authorized Signatory


(Manish Bhagora)
Asst. Chemist




(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 01st week August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area
3. Date of Monitoring :- 04.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200805001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200806001

Date: - 17.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)

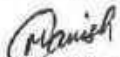
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 05.08.2020/10:42AM to 06.08.2020/10:30AM
4. Sample received On : 06.08.2020
5. Period of Analysis : 10.08.2020 to 17.08.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1435	Minutes
2.	Average Flow rate for PM ₁₀	1.145	M ³ / Min
3.	Ambient Temperature	30.6	°C
4.	Relative Humidity	60	%


Results Ambient Air Quality

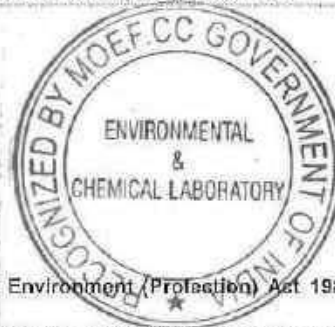
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	61.20	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	37.03	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	10.55	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	15.31	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)-
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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Page 1 of 1
End of Report



Report No.20200806001

Date: - 17.08.2020

TEST REPORT (Ambient Air Quality Monitoring)


- | | | |
|------------------------------|---|---|
| 1. Name of Customer | : | HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA |
| 2. Purchase order Number | : | PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019 |
| 3. Date & Time of Monitoring | : | 05.08.2020/10:42AM to 06.08.2020/10:30AM |
| 4. Sample received On | : | 06.08.2020 |
| 5. Period of Analysis | : | 10.08.2020 to 17.08.2020 |
| 6. Name of Location | : | Umrada Village |
| 7. Method of Sampling | : | IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual |

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1435	Minutes
2.	Average Flow rate for PM ₁₀	1.145	M ³ / Min
3.	Ambient Temperature	30.6	°C
4.	Relative Humidity	60	%

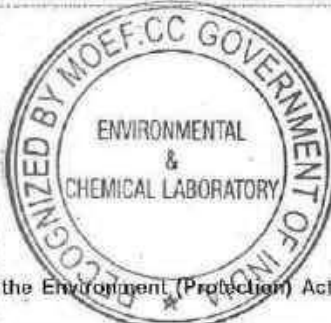
Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.90	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.09	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.418	-

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment) -
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 01st week August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umrada Village
3. Date of Monitoring :- 05.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200806001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102 MIA



Report No.20200807001

Date: - 17.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)

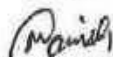
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 06.08.2020/10:42AM to 07.08.2020/10:30AM
4. Sample received On : 07.08.2020
5. Period of Analysis : 10.08.2020 to 17.08.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1420	Minutes
2.	Average Flow rate for PM ₁₀	1.140	M ³ / Min
3.	Ambient Temperature	32.3	°C
4.	Relative Humidity	70	%

Results Ambient Air Quality

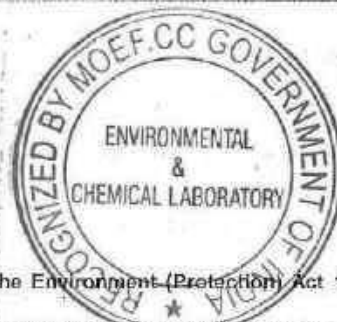
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 15 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	58.16	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	34.06	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	9.93	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	14.07	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment),
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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Page 1 of 1
End of Report



Report No 20200807001

Date: - 17.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 06.08.2020/10:42AM to 07.08.2020/10:30AM
4. Sample received On : 07.08.2020
5. Period of Analysis : 10.08.2020 to 17.08.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1420	Minutes
2.	Average Flow rate for PM ₁₀	1.140	M ³ / Min
3.	Ambient Temperature	32.3	°C
4.	Relative Humidity	70	%


Results Ambient Air Quality

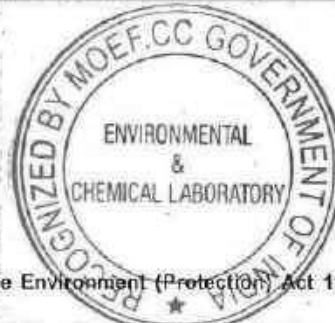
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.56	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	5.69	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.424	-

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment).
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 01st week August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas Village
3. Date of Monitoring :- 06.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200807001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200808001

Date: - 17.08.2020

TEST REPORT (Ambient Air Quality Monitoring)

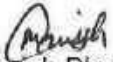
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 07.08.2020/10:37AM to 08.08.2020/10:05AM
4. Sample received On : 08.08.2020
5. Period of Analysis : 10.08.2020 to 17.08.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM ₁₀	1.150	M ³ / Min
3.	Ambient Temperature	29.9	°C
4.	Relative Humidity	62	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	55.85	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	32.07	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	9.41	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	12.71	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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Report No.20200808001

Date: - 17.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 07.08.2020/10:37AM to 08.08.2020/10:05AM
4. Sample received On : 08.08.2020
5. Period of Analysis : 10.08.2020 to 17.08.2020
6. Name of Location : Maton Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM ₁₀	1.150	M ³ / Min
3.	Ambient Temperature	29.9	°C
4.	Relative Humidity	62	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 19 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.45	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	5.07	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.353	-

Tested by

(Manish Bhagora)
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment),
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Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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End of Report

Environmental Monitoring Photograph of Ambient Air 01st week August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton Village
3. Date of Monitoring :- 07.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200808001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



TEST REPORT

(Ambient Air Quality Monitoring)

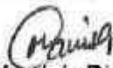
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 08.08.2020/10:46AM to 09.08.2020/10:05AM
4. Sample received On : 10.08.2020
5. Period of Analysis : 10.08.2020 to 17.08.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1414	Minutes
2.	Average Flow rate for PM10	1.150	M ³ / Min
3.	Ambient Temperature	31.4	°C
4.	Relative Humidity	68	%

Results Ambient Air Quality

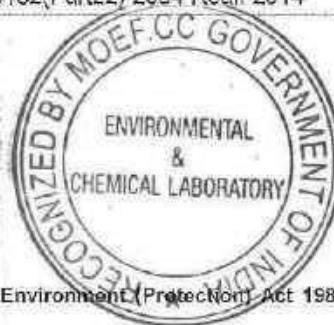
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	56.48	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	31.67	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	9.04	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	12.24	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment),
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)



Note

- MoEFCC, New Delhi recognition under the Environment (Protection) Act 1986, vide gazette notification no. 1357 is valid from 02.06.2016 to 01.06.2021.
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Page 1 of 1
End of Report



TEST REPORT

(Ambient Air Quality Monitoring)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 08.08.2020/10:46AM to 09.08.2020/10:05AM
4. Sample received On : 10.08.2020
5. Period of Analysis : 10.08.2020 to 17.08.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1414	Minutes
2.	Average Flow rate for PM10	1.150	M ³ / Min
3.	Ambient Temperature	31.4	°C
4.	Relative Humidity	68	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 19 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	4.87	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.422	-

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment),
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)



Note

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 01st week August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria Village
3. Date of Monitoring :- 08.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200810001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

E-1



TEST REPORT

(Ambient Air Quality Monitoring)

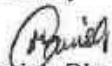
- | | | |
|------------------------------|---|---|
| 1. Name of Customer | : | HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA |
| 2. Purchase order Number | : | PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019 |
| 3. Date & Time of Monitoring | : | 17.08.2020/11:51AM to 18.08.2020/11:30AM |
| 4. Sample received On | : | 18.08.2020 |
| 5. Period of Analysis | : | 24.08.2020 to 31.08.2020 |
| 6. Name of Location | : | Kharwaria Village |
| 7. Method of Sampling | : | IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual |

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM10	1.185	M ³ / Min
3.	Ambient Temperature	29.4	°C
4.	Relative Humidity	68.4	%


Results Ambient Air Quality

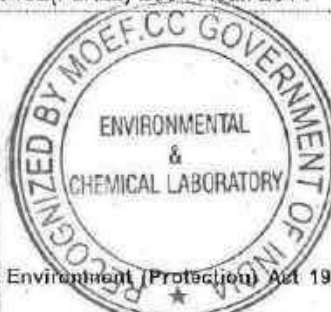
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	58.33	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	31.64	50
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	9.96	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	11.29	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)



Note

- MoEFCC, New Delhi recognition under the Environment (Protection) Act 1986, vide gazette notification no. 497 is valid from 02.06.2016 to 01.06.2021.
- Complaint Register is available in lab / Email ID lab.office@wolkem.com/om.shukla@wolkem.com
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Page 1 of 1
End of Report



Report No.20200818001

Date : - 31.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)

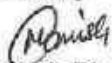
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 17.08.2020/11:51AM to 18.08.2020/11:30AM
4. Sample received On : 18.08.2020
5. Period of Analysis : 24.08.2020 to 31.08.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM10	1.185	M ³ / Min
3.	Ambient Temperature	29.4	°C
4.	Relative Humidity	68.4	%

Results Ambient Air Quality

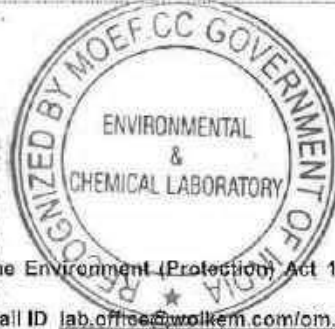
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.68	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	4.02	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.476	-

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)



Note

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Page 1 of 1
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India.
Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



OHSA
Certificate No.
32024-A11

Environmental Monitoring Photograph of Ambient Air 02nd week August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria Village
3. Date of Monitoring :- 17.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200818001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200819001

Date: - 31.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)

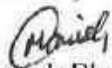
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2018
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 18.08.2020/10:40AM to 19.08.2020/10:25AM
4. Sample received On : 19.08.2020
5. Period of Analysis : 24.08.2020 to 31.08.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1417	Minutes
2.	Average Flow rate for PM10	1.160	M ³ / Min
3.	Ambient Temperature	30.3	°C
4.	Relative Humidity	62.3	%


Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	56.85	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	30.34	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	10.68	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	11.32	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Note

- MoEFCC, New Delhi recognition under the Environment (Protection) Act 1986, vide gazette notification No. 1091/1991 (Pt. II) dated 02.06.2016 to 01.06.2021.
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Page 1 of 1
End of Report



Report No.20200819001

Date: - 31.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 18.08.2020/10:40AM to 19.08.2020/10:25AM
4. Sample received On : 19.08.2020
5. Period of Analysis : 24.08.2020 to 31.08.2020
6. Name of Location : Maton Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1417	Minutes
2.	Average Flow rate for PM10	1.160	M ³ / Min
3.	Ambient Temperature	30.3	°C
4.	Relative Humidity	62.3	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.56	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	4.22	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.324	-

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Note

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton Village
3. Date of Monitoring :- 18.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200819001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200820001

Date: - 31.08.2020

TEST REPORT (Ambient Air Quality Monitoring)

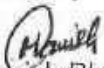
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 19.08.2020/01:11PM to 20.08.2020/12:55PM
4. Sample received On : 20.08.2020
5. Period of Analysis : 24.08.2020 to 31.08.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1420	Minutes
2.	Average Flow rate for PM10	1.190	M ³ / Min
3.	Ambient Temperature	32.1	°C
4.	Relative Humidity	65.1	%


Results Ambient Air Quality

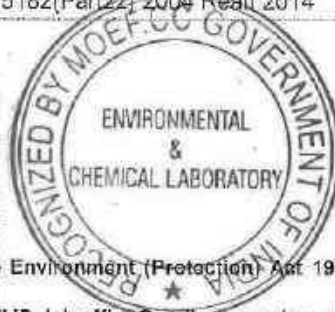
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 16 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	59.14	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05 2019	32.79	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	9.01	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	12.19	80
5.	Lead	µg/m ³	IS: 5182(Part 22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Note

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Page 1 of 1

End of Report



Report No.20200820001

Date: - 31.08.2020

TEST REPORT (Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Dist. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2018.1201/ 5100019025 Date 13.01.2018
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 19.08.2020/01:11PM to 20.08.2020/12:55PM
4. Sample received On : 20.08.2020
5. Period of Analysis : 24.08.2020 to 31.08.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1420	Minutes
2.	Average Flow rate for PM10	1.190	M ³ / Min
3.	Ambient Temperature	32.1	°C
4.	Relative Humidity	65.1	%

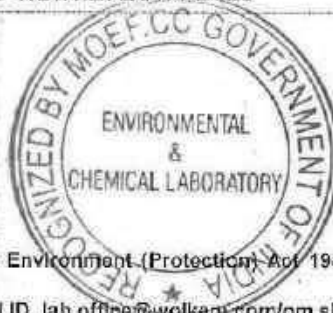
Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) Now Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	5.06	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.361	-

Tested by

(Manish Bhagora)
Asst. Chemist

Authorized Signatory



(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas Village
3. Date of Monitoring :- 19.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200820001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200821002

Date: - 31.08.2020

TEST REPORT (Ambient Air Quality Monitoring)

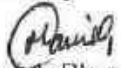
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 20.08.2020/10:25AM to 21.08.2020/09:15AM
4. Sample received On : 21.08.2020
5. Period of Analysis : 24.08.2020 to 31.08.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S: No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM10	1.180	M ³ / Min
3.	Ambient Temperature	30.1	°C
4.	Relative Humidity	66.8	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 16 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	60.60	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	35.44	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	11.44	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	13.65	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)



Note

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Page 1 of 1
End of Report



Report No.20200821002

Date: - 31.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 20.08.2020/10:12AM to 21.08.2020/09:15AM
4. Sample received On : 21.08.2020
5. Period of Analysis : 24.08.2020 to 31.08.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM10	1.180	M ³ / Min
3.	Ambient Temperature	30.1	°C
4.	Relative Humidity	66.8	%

Results Ambient Air Quality

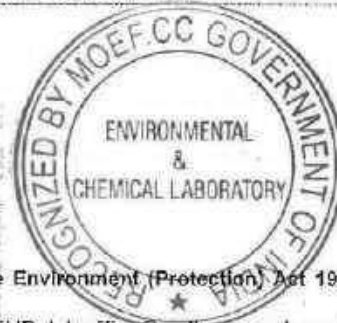
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.90	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.76	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.344	-

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)



Note

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umarada Village
3. Date of Monitoring :- 20.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200821002

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200824001

Date: - 31.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)

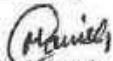
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO. 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 21.08.2020/11:35PM to 22.08.2020/11:20AM
4. Sample received On : 24.08.2020
5. Period of Analysis : 24.08.2020 to 31.08.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1413	Minutes
2.	Average Flow rate for PM10	1.150	M ³ / Min
3.	Ambient Temperature	30.4	°C
4.	Relative Humidity	62	%

Results Ambient Air Quality

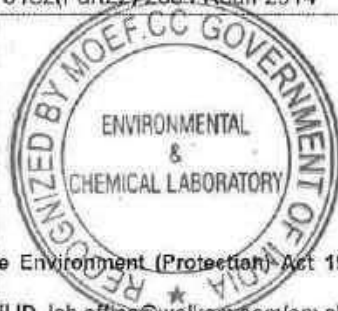
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	59.24	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	34.65	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	11.36	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	12.82	80
5.	Lead	µg/m ³	IS: 5182(Part22)-2004 Reaff 2014	<0.001	1.0

Tested by


(Manish Bhagora)
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment),
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.A. UDAIPUR (Rajasthan)



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Page 1 of 1
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. CHEMICAL & Biological
32024-A111 TC - 5941

Our Commitment.. Your Trust



Report No.20200824001

Date: - 31.08.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2018
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 21.08.2020/11:35PM to 22.08.2020/11:20AM
4. Sample received On : 24.08.2020
5. Period of Analysis : 24.08.2020 to 31.08.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1413	Minutes
2.	Average Flow rate for PM10	1.150	M ³ / Min
3.	Ambient Temperature	30.4	°C
4.	Relative Humidity	62	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.79	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.14	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.475	-

Tested by

(Manish Bhagora)
Asst. Chemist

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment),
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A, UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area
3. Date of Monitoring :- 21.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200824001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M I A, 1105/1119 (Belaethan)



Report No. 20200908001

Date: - 21.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

- | | | |
|------------------------------|---|---|
| 1. Name of Customer | : | HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA |
| 2. Purchase order Number | : | PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019 |
| 3. Date & Time of Monitoring | : | 07.09.2020/12:18PM to 08.09.2020/12:05PM |
| 4. Sample received On | : | 08.09.2020 |
| 5. Period of Analysis | : | 14.09.2020 to 21.09.2020 |
| 6. Name of Location | : | Mine Lease area |
| 7. Method of Sampling | : | IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual |

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1435	Minutes
2.	Average Flow rate for PM ₁₀	1.170	M ³ / Min
3.	Ambient Temperature	31.2	°C
4.	Relative Humidity	71	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	58.27	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	32.03	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	10.91	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	12.06	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

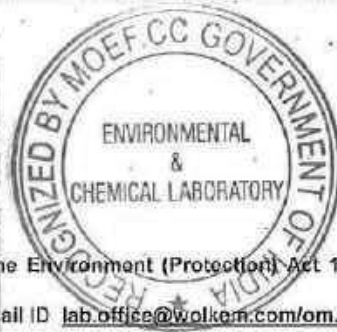
Tested by

(Manish Bhagora)
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited



Note

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Page 1 of 1
End of Report

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Our Commitment.. Your Trust



Report No. 20200908001

Date: - 21.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

- | | | |
|------------------------------|---|---|
| 1. Name of Customer | : | HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA |
| 2. Purchase order Number | : | PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019 |
| 3. Date & Time of Monitoring | : | 07.09.2020/12:18PM to 08.09.2020/12:05PM |
| 4. Sample received On | : | 08.09.2020 |
| 5. Period of Analysis | : | 14.09.2020 to 21.09.2020 |
| 6. Name of Location | : | Mine Lease area |
| 7. Method of Sampling | : | IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual |

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1435	Minutes
2.	Average Flow rate for PM ₁₀	1.170	M ³ / Min
3.	Ambient Temperature	31.2	°C
4.	Relative Humidity	71	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.56	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.67	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.455	-

Tested by

Manish

(Manish Bhagora)
Asst.Chemist

Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)

Environmental & Chemical Laboratory

Wolkem India Limited

E-102, M.I.A. UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report



Environmental Monitoring Photograph of Ambient Air 01st week September 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area
3. Date of Monitoring :- 07.09.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



Latitude: 24.542569
Longitude: 73.796455
Elevation: 577.32m
Accuracy: 3.2m
Azimuth: 74° (E)
Pitch: -4.1° (-2.5°)
Time: 07-09-2020 12:18
Note: mine lease area

REFERANCE: REPORT NO. 20200908001

Rashmi

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200909001

Date: - 21.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 08.09.2020/11:03AM to 09.09.2020/9:49AM
4. Sample received On : 09.09.2020
5. Period of Analysis : 14.09.2020 to 21.09.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1427	Minutes
2.	Average Flow rate for PM ₁₀	1.185	M ³ / Min
3.	Ambient Temperature	30.8	°C
4.	Relative Humidity	70	%

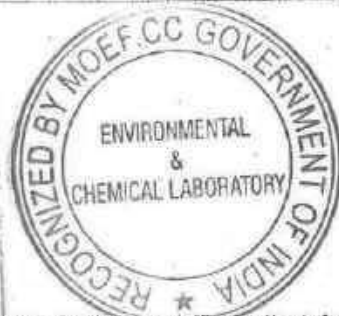
Results Ambient Air Quality

S. No.	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	59.13	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	34.31	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	10.79	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	12.37	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish)

(Manish Bhagora)
Asst.Chemist



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report



Report No.20200909001

Date: - 21.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 08.09.2020/11:03AM to 09.09.2020/9:49AM
4. Sample received On : 09.09.2020
5. Period of Analysis : 14.09.2020 to 21.09.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1427	Minutes
2.	Average Flow rate for PM ₁₀	1.185	M ³ / Min
3.	Ambient Temperature	30.8	°C
4.	Relative Humidity	70	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	7.13	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.325	-

Tested by

Manish

(Manish Bhagora)
Asst.Chemist

Authorized Signatory



(Dr. S. K. Yadav)

Chief Manager (Environment)

Environmental & Chemical Laboratory

Wolkem India Limited

E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 01st week September 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umrada Village
3. Date of Monitoring :- 08.09.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200909001

Rashmi

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200910001

Date: - 21.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 09.09.2020/11:08AM to 10.09.2020/09:43AM
4. Sample received On : 10.09.2020
5. Period of Analysis : 14.09.2020 to 21.09.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM ₁₀	1.170	M ³ / Min
3.	Ambient Temperature	31.6	°C
4.	Relative Humidity	64	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	60.21	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	30.38	80
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	8.67	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	11.76	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

Manish

(Manish Bhagora)
Asst.Chemist

Authorized Signatory



(Dr. S. K. Yadav)

Chief Manager (Environment)

Environmental & Chemical Laboratory

Wolkem India Limited

E-102, M.I.A. UDAPIUR (Rajasthan)

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Page 1 of 1

End of Report



Report No.20200910001

Date: - 21.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 09.09.2020/11:08AM to 10.09.2020/09:43AM
4. Sample received On : 10.09.2020
5. Period of Analysis : 14.09.2020 to 21.09.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM ₁₀	1.170	M ³ / Min
3.	Ambient Temperature	31.6	°C
4.	Relative Humidity	64	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.90	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	5.71	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.378	-

Tested by

(Manish Bhagora)
Asst.Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Note

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 01st week September 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas Village
3. Date of Monitoring :- 09.09.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200910001

Rashmi

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No. 20200911001

Date: - 21.09.2021

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 10.09.2020/11:04AM to 11.09.2020/09:41AM
4. Sample received On : 11.09.2020
5. Period of Analysis : 14.09.2020 to 21.09.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1418	Minutes
2.	Average Flow rate for PM ₁₀	1.190	M ³ / Min
3.	Ambient Temperature	32.4	°C
4.	Relative Humidity	67	%

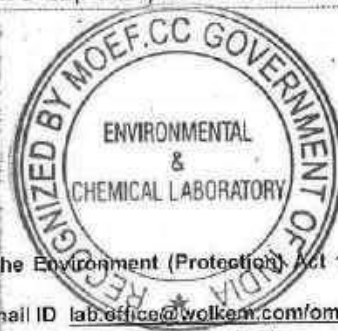
Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	54.80	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	30.73	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	11.04	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	14.56	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

Manish

(Manish Bhagora)
Asst.Chemist



Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited

Note

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Page 1 of 1
End of Report

Registered & Corporate Office :

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological
TC - 5941

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Report No. 20200911001

Date: - 21.09.2021

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 10.09.2020/11:04AM to 11.09.2020/09:41AM
4. Sample received On : 11.09.2020
5. Period of Analysis : 14.09.2020 to 21.09.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1418	Minutes
2.	Average Flow rate for PM ₁₀	1.190	M ³ / Min
3.	Ambient Temperature	32.4	°C
4.	Relative Humidity	67	%

Results Ambient Air Quality

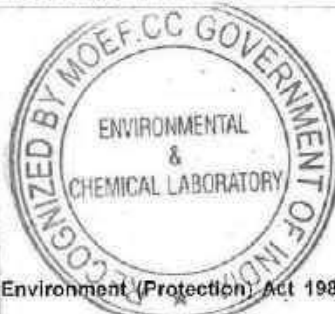
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.67	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	5.06	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.305	-

Tested by

Manish

(Manish Bhagora)
Asst.Chemist

Authorized Signatory



(Dr. S. K. Yadav)

Chief Manager (Environment)

Environmental & Chemical Laboratory

Wolkem India Limited

E-102, M.J.A. UDAIPUR (Rajasthan)

Note

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN - U29299RJ1971PLC001379



OHSAS

Certificate No. 32024-A111

Our Commitment.. Your Trust

Environmental Monitoring Photograph of Ambient Air 01st week September 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton Village
3. Date of Monitoring :- 10.09.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200911001

Rashmi

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 8 Dated: - 01.01.2019
3. Date & Time of Monitoring : 11.09.2020/10:44AM to 12.09.2020/09:30AM
4. Sample received On : 14.09.2020
5. Period of Analysis : 14.09.2020 to 21.09.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1	Duration of Survey	1424	Minutes
2	Average Flow rate for PM10	1.190	M ³ / Min
3	Ambient Temperature	30.9	°C
4	Relative Humidity	66	%

Results Ambient Air Quality

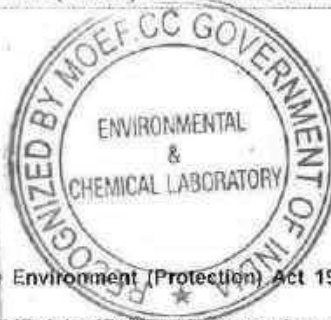
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	58.84	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	31.02	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	9.15	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	10.75	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

Manish

(Manish Bhagora)
Asst.Chemist

Authorized Signatory



(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory

Wolkem India Limited

E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report



Report No.20200914001

Date: - 21.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 11.09.2020/10:44AM to 12.09.2020/09:30AM
4. Sample received On : 14.09.2020
5. Period of Analysis : 14.09.2020 to 21.09.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1424	Minutes
2.	Average Flow rate for PM10	1.190	M ³ / Min
3.	Ambient Temperature	30.9	°C
4.	Relative Humidity	66	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.79	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	4.83	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.466	-

Tested by

(Manish Bhagora)
Asst.Chemist

Authorized Signatory



(Dr. S.K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited

E-102, M.I.A. UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 01st week September 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria Village
3. Date of Monitoring :- 11.09.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200914001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 21.09.2020/12:00AM to 22.09.2020/10:34AM
4. Sample received On : 22.09.2020
5. Period of Analysis : 22.09.2020 to 30.09.2020
6. Name of Location : Kharwaria Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM10	1.185	M ³ /Min
3.	Ambient Temperature	29.4	°C
4.	Relative Humidity	68.4	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	58.33	100
2.	PM _{2.5}	µg/m ³	WIL/SCP No. 10/25 issue date 01.05.2019	31.64	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	9.96	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	11.29	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

Manish

(Manish Bhagora)
Asst. chemist

Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)

Environmental & Chemical Laboratory

Wolkem India Limited

E-102, M.I.A., UDAIPUR (Rajasthan)



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Page 1 of 1

End of Report



Report No.20200922001

Date: - 30.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

- | | | |
|------------------------------|---|---|
| 1. Name of Customer | : | HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA |
| 2. Purchase order Number | : | PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019 |
| 3. Date & Time of Monitoring | : | 21.09.2020/12:00AM to 22.09.2020/10:34AM |
| 4. Sample received On | : | 22.09.2020 |
| 5. Period of Analysis | : | 22.09.2020 to 30.09.2020 |
| 6. Name of Location | : | Kharwaria Village |
| 7. Method of Sampling | : | IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual |

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM10	1.185	M ³ / Min
3.	Ambient Temperature	29.4	°C
4.	Relative Humidity	68.4	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.68	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	4.02	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.476	-

Tested by

Manish

(Manish Bhagora)
Asst. chemist

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week September 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria Village
3. Date of Monitoring :- 21.09.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200922001

Rashmi

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200923001

Date: - 30.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2015.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 22.09.2020/11:04AM to 22.07.2020/09:52AM
4. Sample received On : 23.09.2020
5. Period of Analysis : 23.09.2020 to 30.09.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1417	Minutes
2.	Average Flow rate for PM10	1.160	M ³ / Min
3.	Ambient Temperature	30.3	°C
4.	Relative Humidity	62.3	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) Now Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	56.85	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 Issue date 01.05.2019	30.34	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	10.68	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	11.32	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

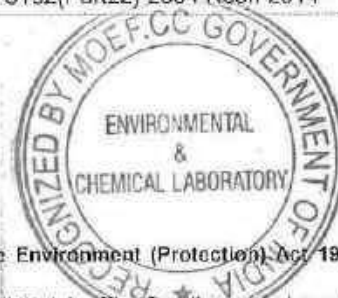
Manish

(Manish Bhagora)
Asst. chemist

Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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Registered & Corporate Office :

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-A111 TC - 8041

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Report No.20200923001

Date: - 30.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

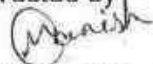
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 22.09.2020/11:04AM to 22.07.2020/09:52AM
4. Sample received On : 23.09.2020
5. Period of Analysis : 23.09.2020 to 30.09.2020
6. Name of Location : Matoon Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1417	Minutes
2.	Average Flow rate for PM10	1.160	M ³ / Min
3.	Ambient Temperature	30.3	°C
4.	Relative Humidity	62.3	%

Results Ambient Air Quality

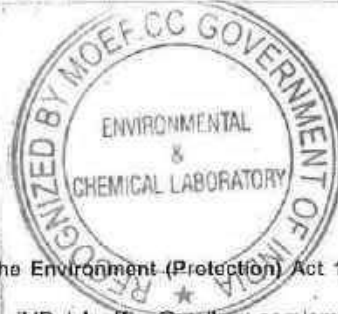
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.56	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	4.22	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.324	-

Tested by


(Manish Bhagora)
Asst. chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week September 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton Village
3. Date of Monitoring :- 22.09.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200923001

Rashmi

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200924001

Date: - 30.09.2020

TEST REPORT (Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 23.09.2020/10:56AM to 24.09.2020/09:35AM
4. Sample received On : 24.09.2020
5. Period of Analysis : 24.09.2020 to 30.09.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1420	Minutes
2.	Average Flow rate for PM10	1.190	M ³ / Min
3.	Ambient Temperature	32.1	°C
4.	Relative Humidity	65.1	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	59.14	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	32.79	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	9.01	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	12.19	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

Manish

(Manish Bhagora)
Asst. chemist



Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)

Environmental & Chemical Laboratory

Wolkem India Limited

E-102 M.I.A. UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report



Report No.20200924001

Date: - 30.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 23.09.2020/10:56AM to 24.09.2020/09:35AM
4. Sample received On : 24.09.2020
5. Period of Analysis : 24.09.2020 to 30.09.2020
6. Name of Location : Lakadwas Village
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1420	Minutes
2.	Average Flow rate for PM10	1.190	M ³ / Min
3.	Ambient Temperature	32.1	°C
4.	Relative Humidity	65.1	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.87	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	5.06	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.361	-

Tested by

Manish
(Manish Bhagora)
Asst. chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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Page | of |
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week September 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas Village
3. Date of Monitoring :- 23.09.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200924001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200925001

Date : - 30.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

- | | | |
|------------------------------|---|---|
| 1. Name of Customer | : | HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA |
| 2. Purchase order Number | : | PQ No. 2015.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019 |
| 3. Date & Time of Monitoring | : | 24.09.2020/11:23AM to 25.09.2020/09:57AM |
| 4. Sample received On | : | 24.07.2020 |
| 5. Period of Analysis | : | 27.09.2020 to 30.09.2020 |
| 6. Name of Location | : | Umrada Village |
| 7. Method of Sampling | : | IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual |

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM10	1.180	M ³ / Min
3.	Ambient Temperature	30.1	°C
4.	Relative Humidity	66.8	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS 5182 (Part 23)2006 RA 2017	60.60	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	35.44	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	11.44	80
4.	NO ₂	µg/m ³	IS 5182 (Part 6)2006 Reaff 2017	13.65	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Bhagora)
Asst. chemist

Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)



Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India
Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-A111 TC - 5941

Our Commitment.. Your Trust

Report No.20200925001

Date: - 30.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

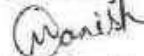
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 24.09.2020/11:23AM to 25.09.2020/09:57AM
4. Sample received On : 24.07.2020
5. Period of Analysis : 27.09.2020 to 30.09.2020
6. Name of Location : Umrada Village
7. Method of Sampling : IS.5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1415	Minutes
2.	Average Flow rate for PM10	1.180	M ³ / Min
3.	Ambient Temperature	30.1	°C
4.	Relative Humidity	66.8	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.90	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.76	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.344	-

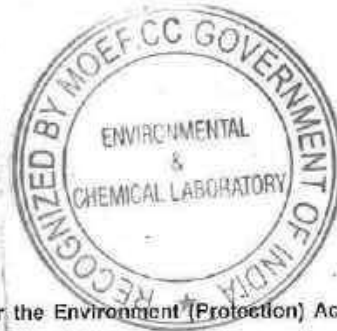
Tested by


(Manish Bhagora)
Asst. chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Note

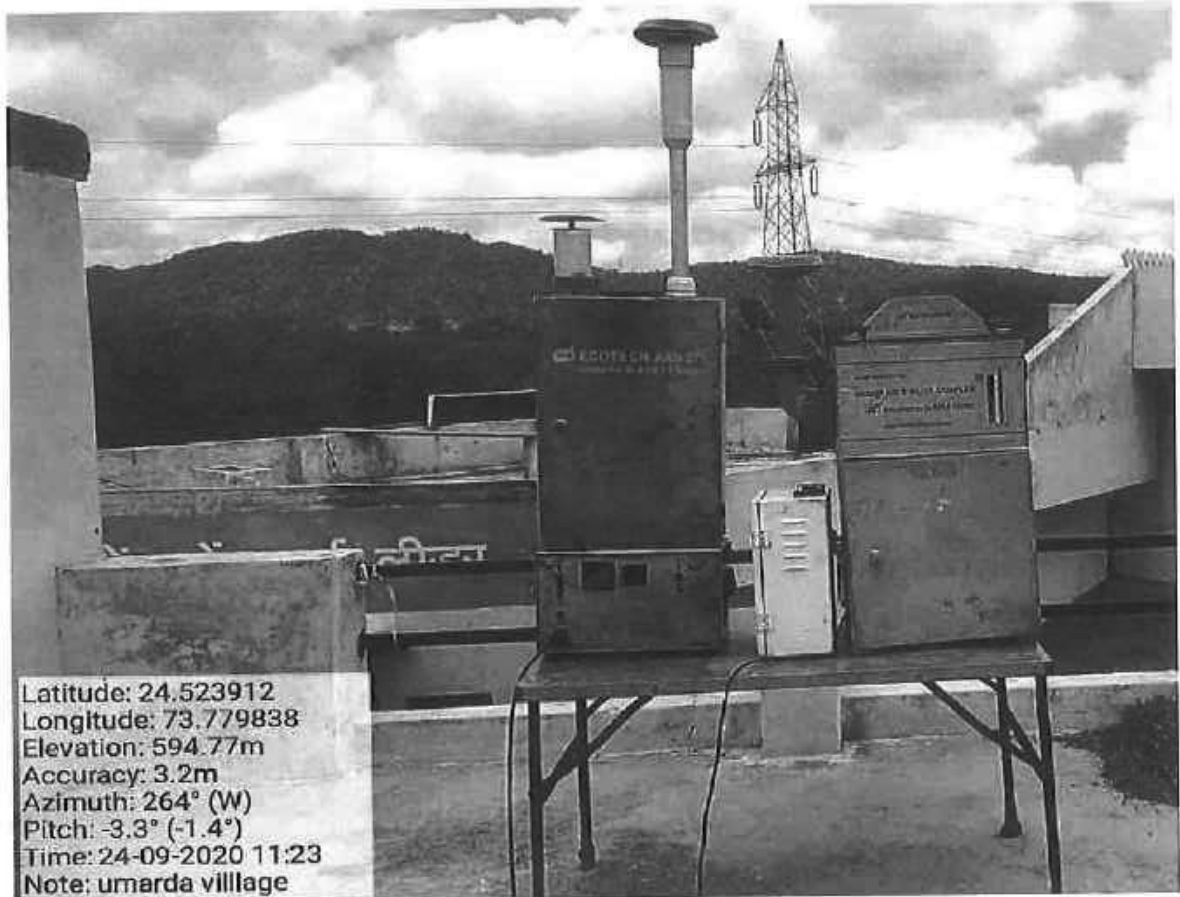
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week September 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umarada Village
3. Date of Monitoring :- 24.09.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERANCE: REPORT NO. 20200925001

Rashmi

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200928001

Date: - 30.09.2020

TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 25.09.2020/10:49AM to 26.09.2020/09:22AM
4. Sample received On : 28.09.2020
5. Period of Analysis : 28.09.2020 to 30.09.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1413	Minutes
2.	Average Flow rate for PM10	1.150	M ³ / Min
3.	Ambient Temperature	30.4	°C
4.	Relative Humidity	62	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	PM ₁₀	µg/m ³	IS:5182 (Part 23)2006 RA 2017	59.24	100
2.	PM _{2.5}	µg/m ³	WIL/SOP No. 10/25 issue date 01.05.2019	34.65	60
3.	SO ₂	µg/m ³	IS:5182 (Part 2)2001 Reaff 2017	11.36	80
4.	NO ₂	µg/m ³	IS:5182 (Part 6)2006 Reaff 2017	12.82	80
5.	Lead	µg/m ³	IS: 5182(Part22) 2004 Reaff 2014	<0.001	1.0

Tested by

(Manish Bhagora)
Asst. chemist



Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Our Commitment.. Your Trust

Report No.20200928001

Date: - 30.09.2020

TEST REPORT (Ambient Air Quality Monitoring)

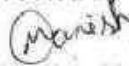
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Rockphosphate Maton Mine
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2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO: 6 Dated: - 01.01.2019
3. Date & Time of Monitoring : 25.09.2020/10:49AM to 26.09.2020/09:22AM
4. Sample received On : 28.09.2020
5. Period of Analysis : 28.09.2020 to 30.09.2020
6. Name of Location : Mine Lease area
7. Method of Sampling : IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1413	Minutes
2.	Average Flow rate for PM10	1.150	M ³ /Min
3.	Ambient Temperature	30.4	°C
4.	Relative Humidity	62	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
1.	CO	mg/m ³	By CO meter	0.79	04 (1 hour)
2.	SiO ₂	µg/m ³	SOP NO.WIL/AIR/TP/ 23/25	6.14	-
3.	PO ₄	µg/m ³	SOP NO.WIL/AIR/TP/ 24/25	0.475	-

Tested by


(Manish Bhagora)
Asst. chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)



Note

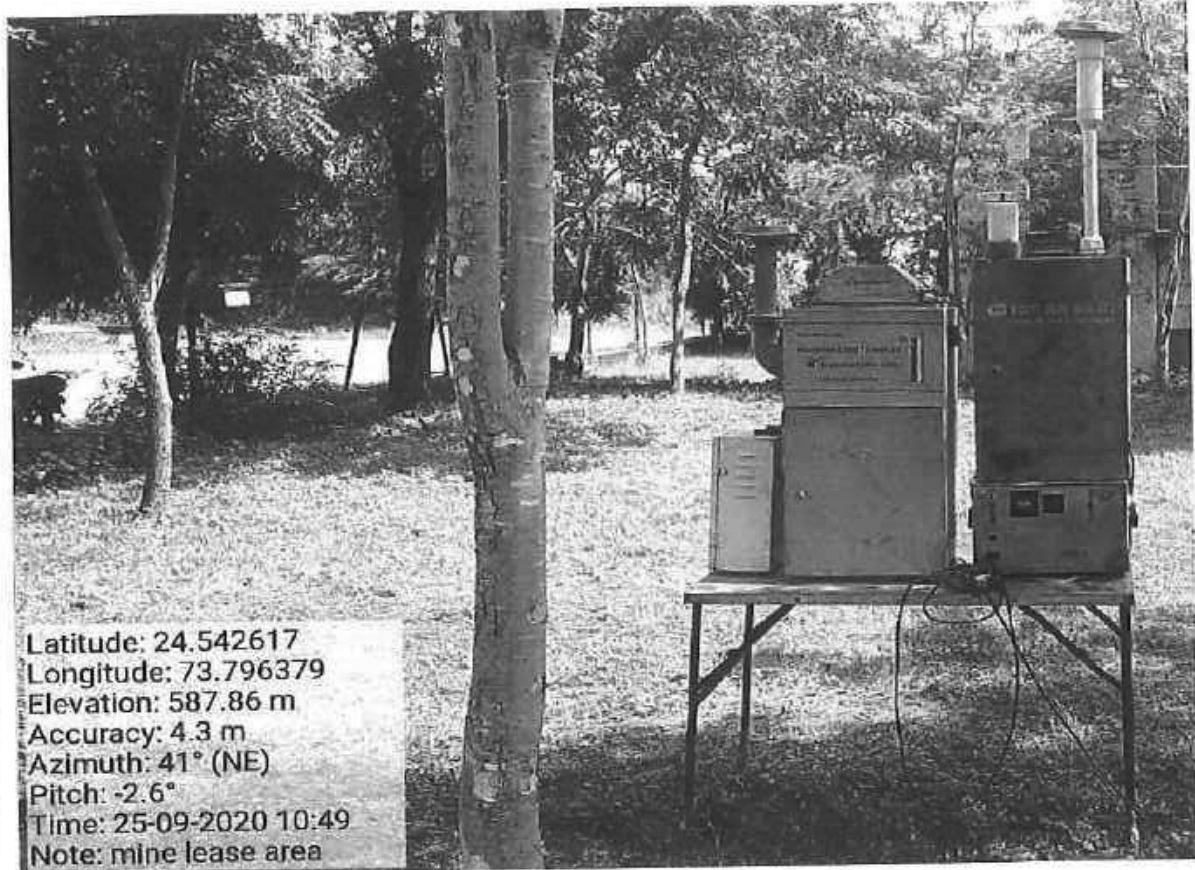
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ambient Air 02nd week September 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area
3. Date of Monitoring :- 25.09.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ambient Air Monitoring :-



REFERENCE: REPORT NO. 20200928001

Rashmi

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Date: 25.05.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 11.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Mine Lease Area

S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	41.5	42.1	40.7	42.1
2.	7-8 AM	41.9	42.6	41.3	42.6
3.	8-9 AM	44.0	45.3	41.8	45.4
4.	9-10 AM	44.0	44.7	43.1	44.7
5.	10-11 AM	50.7	51.6	50.0	51.6
6.	11-12 AM	53.2	54.8	50.6	54.9
7.	12-13 PM	53.9	57.5	49.9	57.7
8.	13-14 PM	49.2	50.0	48.2	50.0
9.	14-15 PM	49.8	50.6	49.0	50.6
10.	15-16 PM	52.2	53.7	49.6	53.8
11.	16-17 PM	54.3	55.2	52.8	55.3
12.	17-18 PM	43.7	46.6	40.9	46.7
13.	18-19 PM	40.2	40.8	39.4	40.8
14.	19-20 PM	40.6	41.3	40.1	41.3
15.	20-21 PM	39.4	40.0	38.6	40.0
16.	21-22 PM	39.9	40.5	39.3	40.5
Leq Day (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² /60])					47.4



Note

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End of Report



Date: 25.05.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 11.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Mine Lease Area

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	33.3	34.3	32.1	34.3
2.	23-24PM	34.0	35.0	32.7	35.0
3.	0-1 AM	34.0	35.0	32.7	35.0
4.	1-2 AM	34.7	35.6	33.3	35.7
5.	2-3 AM	32.4	33.4	31.7	33.4
6.	3-4 AM	35.7	36.8	34.9	36.8
7.	4-5 AM	35.0	36.1	34.2	36.1
8.	5-6 AM	33.3	34.3	32.1	34.3
Leq Night (Leq - L50 + [(L10 - L90) ² /60])					35.1
Day-Night Sound Level (Ldn) = 10 log { 1/24 [16 (10(Lday/10)) + 8 (10(Lnight + 10)/10)] }					
Ldn					46.7

CPCB Norms

S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory

Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Note

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Page 2 of 2

End of Report



Date: 25.05.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 12.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Umrada village

S.No.	Time hours	Sound Pressure Level dB(A) Day Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	37.0	37.6	36.2	37.6
2.	7-8 AM	37.4	38.0	36.9	38.0
3.	8-9 AM	39.2	40.4	37.3	40.4
4.	9-10 AM	40.8	41.5	39.7	41.5
5.	10-11 AM	43.9	45.5	41.4	45.6
6.	11-12 AM	49.1	53.2	45.0	53.5
7.	12-13 PM	50.8	54.2	47.1	54.4
8.	13-14 PM	50.3	52.8	47.0	53.0
9.	14-15 PM	49.0	54.3	46.2	54.5
10.	15-16 PM	51.7	54.7	47.8	54.9
11.	16-17 PM	52.3	56.3	47.3	56.7
12.	17-18 PM	33.5	35.7	31.4	35.8
13.	18-19 PM	34.0	36.8	31.6	36.9
14.	19-20 PM	37.3	38.9	29.1	40.0
15.	20-21 PM	35.6	37.3	29.8	37.9
16.	21-22 PM	33.5	34.6	30.4	34.8
Leq Day (Leq = 1.50 + [(L ₁₀ - L ₉₀) ² /60])					44.7

Note

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- Complaint Register is available in lab / Email ID lab.office@wolkem.com / m.shukla@wolkem.com
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Page 1 of 2

End of Report



Date: 25.05.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 12.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Umrada village

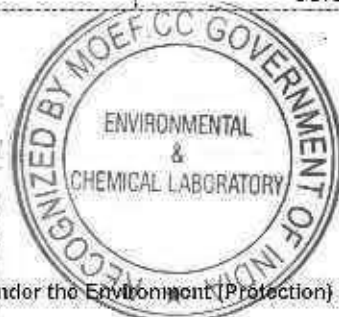
S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	34.0	35.0	33.2	35.0
2.	23-24PM	32.6	33.7	31.9	33.7
3.	0-1 AM	32.1	32.7	31.7	32.7
4.	1-2 AM	32.7	33.7	32.0	33.7
5.	2-3 AM	32.2	32.8	31.7	32.8
6.	3-4 AM	32.8	33.8	32.1	33.8
7.	4-5 AM	32.6	33.7	31.9	33.7
8.	5-6 AM	32.1	32.7	31.7	32.7
Leq Night (Leq = 1.50 - [(L ₁₀ - L ₉₀) ² /60])					33.5
Day-Night Sound Level (L _{dn}) = 10 log {1/24 [16 (10 ^{L_{day}/10}) + 8 (10 ^{(L_{night} + 10)/10})]}					
L _{dn}					44.4

CPCB Norms

S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. - UDAIPUR (Rajasthan)

Note

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Page 2 of 2

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1071PLC001379



Certificate No. 32024-A311 Chemical & Biological TC - 5541

Our Commitment.. Your Trust



Date: 25.05.2020

TEST REPORT

(Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 13.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Lakadwas village

S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		Day Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	41.2	41.8	40.4	41.9
2.	7-8 AM	41.7	42.3	41.1	42.3
3.	8-9 AM	43.7	45.0	41.6	45.1
4.	9-10 AM	45.5	46.3	44.2	46.3
5.	10-11 AM	52.8	54.7	49.7	54.8
6.	11-12 AM	50.0	54.2	45.8	54.5
7.	12-13 PM	52.8	56.3	48.9	56.6
8.	13-14 PM	52.3	54.9	48.8	55.1
9.	14-15 PM	50.9	56.5	48.0	56.6
10.	15-16 PM	53.8	56.8	49.6	57.1
11.	16-17 PM	53.3	57.4	48.2	57.8
12.	17-18 PM	50.4	53.8	47.2	53.9
13.	18-19 PM	38.1	38.7	37.4	38.8
14.	19-20 PM	38.6	39.2	38.0	39.2
15.	20-21 PM	40.5	41.7	38.5	41.7
16.	21-22 PM	42.1	42.8	40.9	42.9
Leq Day (Leq - L50 + [(L10 - L90)/60])					49.0

Note

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Page 1 of 2

End of Report

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"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Our Commitment.. Your Trust



Date: 25.05.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 13.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Lakadwas village

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	35.0	36.1	34.2	36.1
2.	23-24PM	34.4	35.0	33.9	35.1
3.	0-1 AM	35.0	36.1	34.2	36.1
4.	1-2 AM	34.4	35.0	33.9	35.1
5.	2-3 AM	35.0	36.1	34.2	36.1
6.	3-4 AM	33.7	34.7	33.0	34.7
7.	4-5 AM	33.2	33.8	32.7	33.8
8.	5-6 AM	34.5	35.1	34.0	35.1
Leq Night (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² /60])					35.2
Day-Night Sound Level (L _{dn}) = 10 log { 1/24 [16 (10 ^{L_{day}/10}) + 8 (10 ^{(L_{night} + 10)/10})] }					
L _{dn}					48.1

CPCB Norms

S. No.	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory

Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)



Note

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Page 2 of 2

End of Report



Date: 25.05.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 14.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Maton village

S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		Day Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	41.5	42.3	40.6	42.3
2.	7-8 AM	42.4	43.2	41.5	43.2
3.	8-9 AM	43.9	45.1	43.1	45.1
4.	9-10 AM	49.4	50.4	48.4	50.4
5.	10-11 AM	50.8	52.0	49.3	52.0
6.	11-12 AM	55.0	56.1	54.1	56.1
7.	12-13 PM	54.4	55.2	53.2	55.3
8.	13-14 PM	54.1	54.8	53.2	54.9
9.	14-15 PM	55.3	56.0	54.7	56.0
10.	15-16 PM	54.9	55.8	54.1	55.8
11.	16-17 PM	55.9	57.0	55.1	57.0
12.	17-18 PM	53.3	54.2	52.4	54.2
13.	18-19 PM	48.7	50.0	46.7	50.0
14.	19-20 PM	44.6	45.5	43.7	45.5
15.	20-21 PM	42.0	42.8	41.1	42.8
16.	21-22 PM	39.8	41.1	38.8	41.2
Leq Day (Leq = L50 + [(L10 - L90) / 60])					50.1

Note

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Page 1 of 2

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 52024-A1111 Chemical & Biological TC - 5041



Date: 25.05.2020

TEST REPORT

(Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 14.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Maton village

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	35.6	36.5	34.3	36.6
2.	23-24PM	34.7	35.3	34.2	35.3
3.	0-1 AM	34.0	35.0	32.5	35.0
4.	1-2 AM	33.2	34.0	32.4	34.0
5.	2-3 AM	32.8	34.0	31.9	34.0
6.	3-4 AM	35.4	36.4	33.8	36.4
7.	4-5 AM	34.5	35.3	33.7	35.3
8.	5-6 AM	34.0	35.3	32.3	35.4
Leq Night (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² /60])					35.3
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10L _{day} /10) + 8 (10(L _{night} + 10)/10)]}					
Ldn					49.0

CPCB Norms

S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By

(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory

Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited

Note

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Page 2 of 2

End of Report



Date: 25.05.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 15.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Kharwaria village

S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		Day Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	46.0	47.0	45.1	47.0
2.	7-8 AM	43.3	44.2	42.4	44.2
3.	8-9 AM	41.0	42.5	40.1	42.5
4.	9-10 AM	43.8	44.7	43.0	44.7
5.	10-11 AM	41.2	42.1	40.4	42.1
6.	11-12 AM	61.8	62.8	60.5	62.8
7.	12-13 PM	61.5	62.4	60.5	62.4
8.	13-14 PM	62.9	63.7	62.1	63.7
9.	14-15 PM	62.4	63.5	61.5	63.5
10.	15-16 PM	63.6	64.8	62.7	64.8
11.	16-17 PM	60.6	61.6	59.6	61.6
12.	17-18 PM	46.9	47.9	46.0	47.9
13.	18-19 PM	44.2	45.1	43.2	45.1
14.	19-20 PM	41.9	43.3	40.9	43.3
15.	20-21 PM	44.7	45.6	43.9	45.6
16.	21-22 PM	42.1	42.9	41.2	42.9
Leq Day (Leq - L50 + ((L10 - L90) ² /60))					51.5

Note

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Page 1 of 2

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India
Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com
CIN- U29299RJ1971PLC001379



Certificate No. 32024-A-11 Chemical & Biological TC - 5841



Date: 25.05.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 15.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Kharwaria village

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	37.1	38.0	35.7	38.1
2.	23-24PM	36.1	36.7	35.6	36.8
3.	0-1 AM	36.9	37.5	36.3	37.5
4.	1-2 AM	37.7	39.0	36.8	39.1
5.	2-3 AM	35.4	36.0	34.9	36.0
6.	3-4 AM	38.5	39.8	37.6	39.8
7.	4-5 AM	39.3	40.6	38.3	40.6
8.	5-6 AM	37.7	39.0	36.8	39.1
Leq Night (Leq = 1.50 + [(L ₁₀ - 1.90) ² /60])					38.4
Day-Night Sound Level (L _{dn}) = 10 log {1/24 [16 (10 ^{L_{day}/10}) + 8 (10 ^{(L_{night} + 10)/10})]}					
L _{dn}					50.7

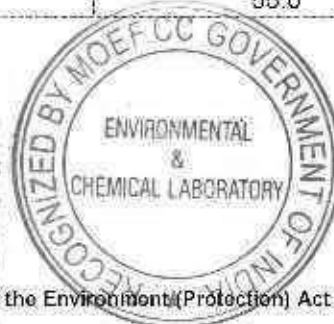
CPCB Norms

S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By


(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory



Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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End of Report

Registered & Corporate Office :

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CIN- U29299RJ1971PLC001379



Certificate No. 32074-A111 Chemical & Biological TC - 3611

Our Commitment.. Your Trust



Date: 25.05.2020

TEST REPORT

(Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 16.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Near Udaisagar

S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		Day Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	42.9	43.8	41.7	43.8
2.	7-8 AM	44.7	45.6	43.7	45.6
3.	8-9 AM	46.6	47.5	45.6	47.5
4.	9-10 AM	47.5	49.1	46.7	49.1
5.	10-11 AM	48.2	49.6	46.6	49.6
6.	11-12 AM	60.3	61.3	59.3	61.3
7.	12-13 PM	57.1	58.7	55.8	58.7
8.	13-14 PM	58.9	60.4	57.3	60.4
9.	14-15 PM	61.5	63.2	59.4	63.3
10.	15-16 PM	60.4	61.4	58.3	61.5
11.	16-17 PM	58.6	59.3	57.8	59.3
12.	17-18 PM	56.4	57.3	55.1	57.3
13.	18-19 PM	49.9	50.5	49.2	50.6
14.	19-20 PM	48.5	49.3	47.1	49.3
15.	20-21 PM	46.0	47.6	44.6	47.6
16.	21-22 PM	44.9	46.7	42.9	46.8
Leq Day (Leq = L ₅₀ + [(L ₁₀ - L ₉₀)/60])					53.2

Note

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End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological 1C - 5941

Our Commitment.. Your Trust



Date: 25.05.2020

TEST REPORT

(Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 16.05.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location : Near Udaisagar

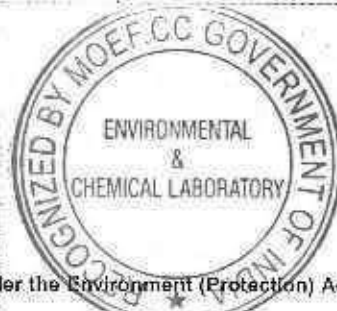
S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	41.2	42.2	40.1	42.3
2.	23-24PM	39.8	40.6	38.8	40.6
3.	0-1 AM	36.0	36.9	35.0	36.9
4.	1-2 AM	35.2	35.7	34.6	35.7
5.	2-3 AM	33.9	34.6	33.0	34.6
6.	3-4 AM	34.5	35.5	33.1	35.6
7.	4-5 AM	35.9	37.3	34.7	37.3
8.	5-6 AM	37.0	38.5	36.3	38.5
Leq Night (Leq = L50 + [(L10 - L90) ² /60])					37.7
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10(Lnight + 10)/10)]}					
Ldn					52.1

CPCB Norms

S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 2 of 2

End of Report





Date: 28.08.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated.- 01.01.2019
3. Date of Monitoring : 17.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Kharwaria village

S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		Day Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	46.5	47.5	46.1	47.5
2.	7-8 AM	43.5	45.2	42.3	45.2
3.	8-9 AM	41.9	43.2	40.7	43.2
4.	9-10 AM	38.9	46.2	4.3	66.2
5.	10-11 AM	41.6	42.3	40.3	42.3
6.	11-12 AM	62.7	63.5	61.5	63.5
7.	12-13 PM	62.4	64.3	61.3	64.3
8.	13-14 PM	63.6	64.5	61.4	64.6
9.	14-15 PM	54.4	63.5	6.5	101.8
10.	15-16 PM	63.6	64.5	63.1	64.5
11.	16-17 PM	61.2	62.3	60.4	62.3
12.	17-18 PM	46.8	47.6	46.1	47.6
13.	18-19 PM	44.6	46.2	42.3	46.3
14.	19-20 PM	42.5	44.1	41.2	44.1
15.	20-21 PM	45.6	46.5	44.5	46.5
16.	21-22 PM	42.5	43.5	41.5	43.5
Leq Day (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² /60])					55.8

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Page 1 of 2

End of Report



Date: 28.08.2020

TEST REPORT (Noise Level Monitoring)

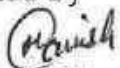
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 17.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Kharwaria village

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	37.6	39.5	36.5	39.5
2.	23-24PM	36.1	36.7	35.6	36.8
3.	0-1 AM	37.1	38.6	34.5	38.7
4.	1-2 AM	38.2	39.5	36.5	39.5
5.	2-3 AM	35.4	36.0	34.9	36.0
6.	3-4 AM	39.6	40.6	38.2	40.6
7.	4-5 AM	39.9	40.6	39.5	40.6
8.	5-6 AM	38.3	39.8	36.5	39.9
Leq Night (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² /60])					39.0
Day-Night Sound Level (L _{dn}) = 10 log {1/24 [16 (10L _{day} /10) + 8 (10(L _{night} + 10)/10)]}					
L _{dn}					54.5


CPCB Norms

S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By


(Manish Bhagora)
Asst. Chemist

Authorized Signatory


Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)



Note

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Page 2 of 2

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological TC - 0941

Our Commitment.. Your Trust



Date: 28.08.2020

TEST REPORT

(Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.12017/5100019026 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 18.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Maton village

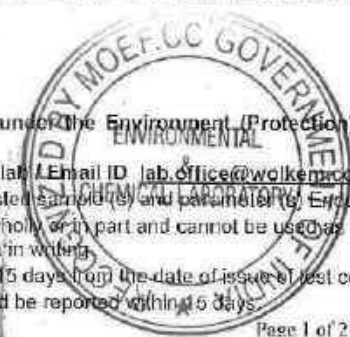
S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		Day Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	42.5	43.6	41.3	43.6
2.	7-8 AM	44.3	46.5	43.2	46.5
3.	8-9 AM	45.4	47.2	44.3	47.2
4.	9-10 AM	51.3	52.6	50.3	52.6
5.	10-11 AM	52.5	54.3	51.2	54.3
6.	11-12 AM	56.0	58.9	54.3	58.9
7.	12-13 PM	55.7	56.9	54.6	56.9
8.	13-14 PM	55.0	55.6	54.3	55.6
9.	14-15 PM	55.4	57.6	54.6	57.6
10.	15-16 PM	56.2	56.8	55.6	56.8
11.	16-17 PM	56.6	57.4	55.4	57.4
12.	17-18 PM	53.6	55.2	51.3	55.3
13.	18-19 PM	49.3	51.3	47.5	51.4
14.	19-20 PM	45.5	46.2	44.2	46.2
15.	20-21 PM	44.3	52.6	41.9	52.7
16.	21-22 PM	40.9	42.3	40.1	42.3
Leq Day (Leq = L50 + [(L10 - L90) ² /60])					52.2

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Page 1 of 2

End of Report





Date: 28.08.2020

TEST REPORT

(Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.12017/5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 18.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Maton village

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	35.7	36.5	34.5	36.5
2.	23-24PM	35.9	36.6	35.4	36.6
3.	0-1 AM	34.7	36.5	33.2	36.5
4.	1-2 AM	33.9	35.6	32.6	35.6
5.	2-3 AM	33.9	35.6	32.6	35.6
6.	3-4 AM	35.4	36.5	33.6	36.6
7.	4-5 AM	35.2	36.6	33.6	36.6
8.	5-6 AM	34.7	36.2	32.6	36.3
Leq Night (Leq = L50 + [(L10 - L90) ² /60])					36.3
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10(Lnight + 10)/10)]}					
Ldn					51.0

CPCB Norms

S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By

(Manish)
(Manish Bhagora)
Asst. Chemist

Authorized Signatory

Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Note

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Page 2 of 2

End of Report



Date: 28.08.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 8 Dated:- 01.01.2019
3. Date of Monitoring : 19.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Lakadwas village

S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		Day Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	41.2	42.6	40.2	42.6
2.	7-8 AM	42.5	43.6	41.3	43.6
3.	8-9 AM	43.9	45.3	42.1	45.4
4.	9-10 AM	46.3	47.5	45.3	47.5
5.	10-11 AM	53.9	55.9	50.3	56.1
6.	11-12 AM	50.6	55.3	46.2	55.6
7.	12-13 PM	52.8	56.3	48.9	56.6
8.	13-14 PM	51.2	55.2	46.3	55.6
9.	14-15 PM	52.0	55.8	49.6	55.9
10.	15-16 PM	54.8	57.8	50.6	58.1
11.	16-17 PM	54.1	58.4	49.7	58.7
12.	17-18 PM	51.1	54.9	48.0	55.1
13.	18-19 PM	38.3	39.5	37.4	39.5
14.	19-20 PM	39.9	40.6	39.4	40.6
15.	20-21 PM	40.9	42.3	38.6	42.4
16.	21-22 PM	43.3	44.3	42.5	44.3
Leq Day (Leq = 1.50 + [(L ₁₀ - 1.90)/60])					49.9

Note

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Page 1 of 2

End of Report



Date: 28.08.2020

TEST REPORT

(Noise Level Monitoring)

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Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016 1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 5 Dated:- 01.01.2019
3. Date of Monitoring : 19.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Lakadwas village

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	35.8	37.5	34.1	37.5
2.	23-24PM	35.9	36.5	34.5	36.5
3.	0-1 AM	35.7	36.5	34.6	36.5
4.	1-2 AM	35.7	39.5	34.5	39.5
5.	2-3 AM	35.2	36.5	34.1	36.5
6.	3-4 AM	34.5	36.2	33.5	36.2
7.	4-5 AM	33.9	34.6	33.1	34.6
8.	5-6 AM	35.6	36.5	34.3	36.5
Leq Night (Leq = 1.50 + [(L10 - L90)/60])					36.8
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10(Lnight + 10)/10)]}					
Ldn					49.0

CPCB Norms

S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By

(Manish Bhagora)
(Manish Bhagora)
Asst. Chemist

Authorized Signatory

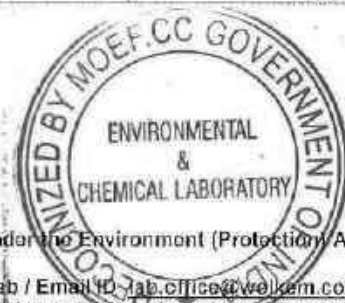
Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 2 of 2

End of Report





Date: 28.08.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 8 Dated:- 01.01.2019
3. Date of Monitoring : 20.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Umrada village

S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	37.0	37.6	36.2	37.6
2.	7-8 AM	37.4	38.0	36.9	38.0
3.	8-9 AM	39.2	40.4	37.3	40.4
4.	9-10 AM	47.7	49.2	45.6	49.3
5.	10-11 AM	43.9	45.5	41.4	45.6
6.	11-12 AM	49.4	53.2	45.0	53.5
7.	12-13 PM	51.0	55.3	46.2	55.7
8.	13-14 PM	51.7	55.6	48.5	55.8
9.	14-15 PM	49.7	53.2	47.6	53.3
10.	15-16 PM	52.8	55.6	48.6	55.9
11.	16-17 PM	53.0	57.8	48.6	58.1
12.	17-18 PM	34.9	37.5	32.4	37.6
13.	18-19 PM	34.8	37.6	32.6	37.7
14.	19-20 PM	37.3	38.9	29.1	40.0
15.	20-21 PM	36.1	38.7	29.7	39.4
16.	21-22 PM	33.6	34.7	31.6	34.8
Leq Day (Leq = L50 + [(L10 - L90) ² /60])					45.8

Note

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Page 1 of 2

End of Report





Date: 28.08.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO.6 Dated:- 01.01.2019
3. Date of Monitoring : 20.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Umrada village

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	33.7	36.5	32.4	36.5
2.	23-24PM	32.6	33.8	31.4	33.8
3.	0-1 AM	32.3	33.1	31.2	33.1
4.	1-2 AM	32.7	33.6	31.6	33.6
5.	2-3 AM	32.3	33.5	30.6	33.5
6.	3-4 AM	33.1	34.6	32.4	34.6
7.	4-5 AM	32.7	33.7	31.9	33.7
8.	5-6 AM	32.3	33.6	31.5	33.6
Leq Night (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² /60])					34.1
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10L _{day} /10) + 8 (10(L _{night} + 10)/10)]}					
Ldn					45.3

CPCB Norms

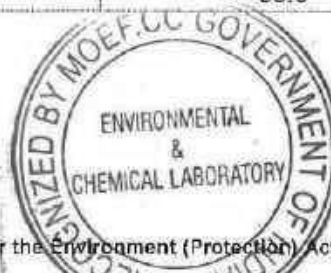
S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By

(Manish Bhagora)
Asst. Chemist

Authorized Signatory

Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, Mewar Industrial Area, Udaipur (Rajasthan)



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Page 2 of 2

End of Report



Date: 28.08.2020

TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019 .
3. Date of Monitoring : 21.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Mine Lease Area

S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		Day Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	42.2	44.2	40.2	44.3
2.	7-8 AM	42.3	44.2	41.3	44.2
3.	8-9 AM	45.0	47.5	43.6	47.5
4.	9-10 AM	45.2	45.8	44.6	45.8
5.	10-11 AM	52.1	53.4	51.3	53.4
6.	11-12 AM	54.0	55.4	51.2	55.5
7.	12-13 PM	53.8	56.8	49.9	57.0
8.	13-14 PM	50.3	51.3	49.5	51.3
9.	14-15 PM	50.9	52.3	50.3	52.3
10.	15-16 PM	53.2	54.6	51.3	54.7
11.	16-17 PM	55.2	56.3	53.6	56.3
12.	17-18 PM	44.6	47.5	41.2	47.7
13.	18-19 PM	42.5	41.5	40.2	41.6
14.	19-20 PM	42.2	42.6	41.3	42.6
15.	20-21 PM	40.5	42.3	39.5	42.3
16.	21-22 PM	40.7	41.3	40.3	41.3
Leq Day (Leq = L50 + [(L10 - L90) ² /60])					48.6



Note

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Page 1 of 2

End of Report



Date: 28.08.2020

TEST REPORT (Noise Level Monitoring)

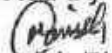
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 21.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Mine Lease Area

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	33.6	34.8	32.6	34.8
2.	23-24PM	34.1	35.8	32.4	35.8
3.	0-1 AM	34.2	35.6	32.6	35.6
4.	1-2 AM	34.7	35.9	33.5	35.9
5.	2-3 AM	32.4	33.3	31.2	33.3
6.	3-4 AM	35.8	37.2	34.6	37.2
7.	4-5 AM	35.0	36.3	32.2	36.4
8.	5-6 AM	33.2	34.2	32.5	34.2
Leq Night (Leq = L50 + [(L10 - L90) ² /60])					35.4
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10(Lnight + 10)/10)]}					
Ldn					47.8

CPCB Norms

S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By


(Manish Bhagora)
Asst. Chemist

Authorized Signatory

Dr. S. K. Yadav
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Note

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Page 2 of 2

End of Report



Date: 28.08.2020

TEST REPORT (Noise Level Monitoring)

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Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 22.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Near Udaisagar

S.No.	Time hours	Sound Pressure Level dB(A)			Leq
		L ₁₀	L ₅₀	L ₉₀	
1.	6-7 AM	43.6	44.6	42.5	44.6
2.	7-8 AM	45.9	46.5	44.6	46.5
3.	8-9 AM	47.2	49.2	43.6	49.4
4.	9-10 AM	48.2	48.8	47.6	48.8
5.	10-11 AM	48.1	48.9	46.2	49.0
6.	11-12 AM	62.0	62.5	61.3	62.5
7.	12-13 PM	58.2	61.4	56.4	61.5
8.	13-14 PM	60.1	61.4	58.1	61.5
9.	14-15 PM	61.5	62.5	60.3	62.5
10.	15-16 PM	60.6	61.4	58.3	61.5
11.	16-17 PM	58.6	59.3	57.8	59.3
12.	17-18 PM	56.4	57.3	54.6	57.4
13.	18-19 PM	50.4	51.4	49.2	51.4
14.	19-20 PM	49.4	51.6	47.4	51.7
15.	20-21 PM	47.1	48.9	45.7	48.9
16.	21-22 PM	45.4	46.7	43.6	46.8
Leq Day (Leq = L50 + [(L10 - L90) ² /60])					54.0

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Page 1 of 2

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494800 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological
TC - 8041

Our Commitment.. Your Trust



Date: 28.08.2020

TEST REPORT

(Noise Level Monitoring)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2018.1201/ 5100019025 Date 13.01.2016
AMENDMENT NO 6 Dated:- 01.01.2019
3. Date of Monitoring : 22.08.2020
4. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)
5. Name of location : Near Udaisagar

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		Night Time			
		L ₁₀	L ₅₀	L ₉₀	
1.	22-23PM	42.2	43.5	41.5	43.5
2.	23-24PM	41.4	42.8	40.2	42.8
3.	0-1 AM	38.1	40.6	36.4	40.6
4.	1-2 AM	31.6	36.8	3.6	49.9
5.	2-3 AM	34.6	36.5	33.5	36.5
6.	3-4 AM	34.8	36.5	33.5	36.5
7.	4-5 AM	36.7	38.9	33.6	39.1
8.	5-6 AM	37.7	39.7	36.5	39.7
Leq Night (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² /60])					41.1
Day-Night Sound Level (L _{dn}) = 10 log {1/24 [16 (10L _{day} /10) + 8 (10(L _{night} + 10)/10)]}					
L _{dn}					53.2


CPCB Norms

S. No	Category of area	6 A.M. to 10 P.M.	10 P.M to 6 A.M
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Tested By


(Manish Bhagora)
Asst. Chemist

Authorized Signatory


Dr. S. K. Yadav
Chief Manager (Environment),
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-A111 TC - 6941

Our Commitment.. Your Trust



TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
 Rockphosphate Maton Mine
 P.O. Maton, Distt. Udaipur (Rajasthan), INDIA.
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
 AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/12:43PM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Kharwaria village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	36
2.	Relative Humidity	%	42

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff:2017	-	7.27	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff:2019	µs	182.1	-	-
3.	Color	IS:3025(Pt14)1983, Reaff:2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff:2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff:2017	mg/L	1170	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff:2017	mg/L	16	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff:2019	mg/L	496	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff:2019	mg/L	116.8	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1991 Reaff:2019	mg/L	18.86	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff:2019	mg/L	300	200	600
12.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff:2019	mg/L	338	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff:2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500 SiO ₂ Page 4-175 to 177	mg/L	8.0	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff:2019	mg/L	6.3	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff:2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff:2019	mg/L	BDL(<1)	-	-


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TEST REPORT

(Water/Waste water)

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Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 25.05.2020/12:43PM
4. Sample received on : 25.05.2020
5. Period of Analysis : 25.05.2020 to 02.06.2020
6. Name of sample & Location : Kharwaria village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/l.	BDL(<0.1)	0.05	1.5
20.	Fluoride as F ⁻	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.80	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.12	-	-
22.	Sulphate as SO ₄	IS:3025(Pt24)1986, Reaff.2019	mg/L	142.3	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	15.7	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.27	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APIA 23 rd Edition,2017 Part 3500-k (3-88 to 3-90)	mg/L	4.92	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500-Na(3-99 to 3-90)	mg/L	64.8	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Reaff.2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff.2019	mg/L	0.16	0.3	No Relaxation

BDL-Below Detection Limit

Tested By

(Manish Kumawat)
Asst.Office(QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 2 of 2

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-A111 TC - 5041



Report No.20200525005

Date: - 02.06.2020

TEST REPORT

(Water/Waste water)

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Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/12:43PM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Kharwaria village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	36
2.	Relative Humidity	%	42

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APIA 23 rd Edition 2017	-	Agreeable	Agreeable	Agrocable

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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TEST REPORT

(Water/Waste water)

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Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 25.05.2020/12:37PM
4. Sample received on : 25.05.2020
5. Period of Analysis : 25.05.2020 to 02.06.2020
6. Name of sample & Location : Maton village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	36
2.	Relative Humidity	%	42

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.32	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(P114) Reaff.2019	ms	2.068	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	1398	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	10	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	458	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	86.4	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1994 Reaff.2019	mg/L	57.8	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	380	200	600
12.	Chlorides as Cl ⁻	IS:3025(Pt32)1988, Reaff.2019	mg/L	262	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APIIA 23 rd Edition2017, 4500-SiO2 Page 4-175 to 177	mg/L	7.2	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.6	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-

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TEST REPORT

(Water/Waste water)

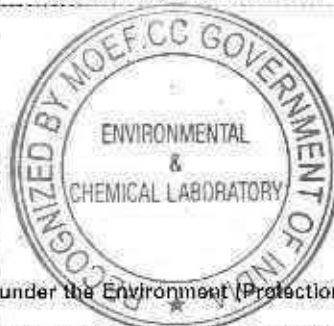
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AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 25.05.2020/12:37PM
4. Sample received on : 25.05.2020
5. Period of Analysis : 25.05.2020 to 02.06.2020
6. Name of sample & Location : Maton village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff 2017	mg/L	BDL(<=5)	-	-
19.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.50	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.2/	-	-
22.	Sulphate as SO ₄	IS:3025(Pt24)1986, Reaff.2019	mg/L	214.4	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	5.65	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.48	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition 2017 Part 3500-k (3-89 to 3-90)	mg/L	5.8	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500-Na(3-88 to 3-90)	mg/L	82.6	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Reaff.2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2009, Reaff.2019	mg/L	0.14	0.3	No Relaxation

BDL-Below Detection Limit

Tested By

(Manish Kumawat)
Asst. Office(QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

1. MoEFCC, New Delhi recognition under the Environment (Protection) Act 1986, vide gazette notification no. 1357 is valid from 02.06.2016 to 01.06.2021.
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Page 2 of 2
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological TC - 5841



Report No.20200525006

Date: - 02.06.2020

TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/12:37PM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Maton village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	36
2.	Relative Humidity	%	42

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agroceable	Agroceable	Agroceable

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report





TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 25.05.2020/12:20PM
4. Sample received on : 25.05.2020
5. Period of Analysis : 25.05.2020 to 02.06.2020
6. Name of sample & Location : Lakarwas village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	36
2.	Relative Humidity	%	42

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt1)1983, Reaff.2017	-	7.21	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	2.713	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	1758	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	12	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	488	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt10)1991, Reaff.2019	mg/L	144	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt18)1994 Reaff.2019	mg/L	30.72	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	360	200	600
12.	Chlorides as Cl ⁻	IS:3025(Pt32)1988, Reaff.2019	mg/L	498	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APIA 23 rd Edition2017, 4500-SiO2 Page 4-175 to 177	mg/L	7.7	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.4	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-

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TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 25.05.2020/12:20PM
4. Sample received on : 25.05.2020
5. Period of Analysis : 25.05.2020 to 02.06.2020
6. Name of sample & Location : Lakarwas village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(P158)2006 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(P142)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F ⁻	IS:3025(P160)2008 Reaff 2019	mg/L	0.70	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	1.01	-	-
22.	Sulphate as SO ₄	IS:3025(P124)1986, Reaff.2019	mg/L	218.6	200	400
23.	Nitrate as NO ₃	IS:3025(P134-3-B)1988 Reaff 2019	mg/L	15.4	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.91	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition,2017 Part 3500-k (3-89 to 3-91)	mg/L	4.9	-	-
27.	Sodium as Na	APHA 23 rd Edition,2017 Part 3500-Na(3-89 to 3-90)	mg/L	49.1	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Reaff.2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(P153)2003, Reaff.2019	mg/L	0.16	0.3	No Relaxation

BDL-Below Detection Limit

Tested By

(Manish Kumawat)
Asst. Office(QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

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Page 2 of 2
End of Report





Report No.20200525007

Date: - 02.06.2020

TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/12:20PM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Lakarwas village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	36
2.	Relative Humidity	%	42

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
	Taste	APHA 23 rd Edition 2017	-	Agroccable	Agroccable	Agroccable

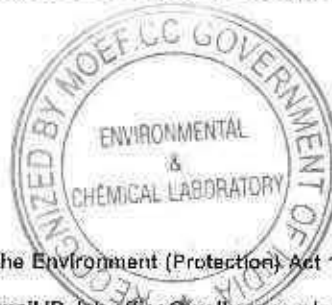
Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)



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Page 1 of 1
End of Report



TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 25.05.2020/12:05PM
4. Sample received on : 25.05.2020
5. Period of Analysis : 25.05.2020 to 02.06.2020
6. Name of sample & Location : Umrada village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results		
1.	Ambient Temperature	°C	36		
2.	Relative Humidity	%	42		

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	6.98	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2018	ms	1.168	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	746	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	10	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	432	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt10)1981, Reaff.2019	mg/L	81.6	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1994 Reaff.2019	mg/L	54.7	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	284	200	600
12.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	122	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500-SiO2 Page 4-175 to 177	mg/L	8.4	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.5	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-


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TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/12:05PM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Umrada village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F ⁻	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.60	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.20	-	-
22.	Sulphate as SO ₄	IS:3025(Pt24)1986, Reaff.2019	mg/L	69.3	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	13.6	45	No Relaxation
24.	Zinc	IS 3025(P49)1884 RA 2019(a) AAS	mg/L	0.21	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition,2017 Part 3500-k (3-89 to 3-90)	mg/L	8.31	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500-Na(3-99 to 3-90)	mg/L	29.4	-	-
28.	Manganese as Mn	IS 3025 (P 59) 2006 Reaff.2017 AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff.2019	mg/L	BDL(<0.1)	0.3	No Relaxation

BDL Below Detection Limit
Tested By

(Manish Kumawat)
Asst. Office(QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 2 of 2
End of Report

Registered & Corporate Office :

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-M11 TC- 5941



Report No.20200525008

Date: - 02.06.2020

TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/12:05PM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Umrada village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	36
2.	Relative Humidity	%	42

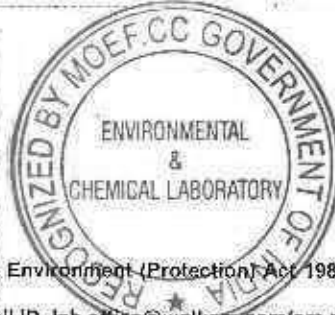
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agreeable	Agreeable	Agreeable

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



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Page 1 of 1
End of Report





TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
 Rockphosphate Maton Mine
 P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PD No. 2016.1201/5100019025 Date 13.01.2016
 AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/02:30PM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Kanpur village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	38
2.	Relative Humidity	%	46

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.26	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	1.932	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS:3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	1254	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	6	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	392	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	104	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1994 Reaff.2019	mg/L	31.68	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	352	200	600
12.	Chlorides as Cl ⁻	IS:3025(Pt32)1988, Reaff.2019	mg/L	382	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500-SiO ₂ Page 4 175 to 177	mg/L	8.5	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.4	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL (<1)	-	-

Note

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Registered & Corporate Office :

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CIN- U29299RJ1971PLC001379

 Certificate No
 32024-A111 Chemical & Biological
 TC - 5841

Our Commitment.. Your Trust



TEST REPORT

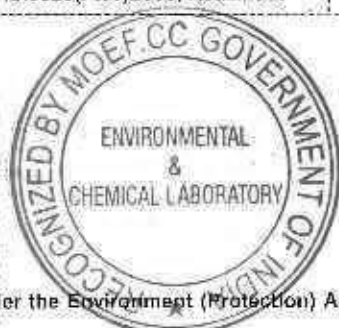
(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 25.05.2020/02:30PM
4. Sample received on : 25.05.2020
5. Period of Analysis : 25.05.2020 to 02.06.2020
6. Name of sample & Location : Kanpur village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDI (<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.40	1.0	1.5
21.	Phosphate	IS:3025-1988(Pt31) Reprint & Reaff 2019	mg/L	0.25	-	-
22.	Sulphate as SO ₄ ²⁻	IS:3025(Pt24)1986, Reaff.2019	mg/L	173.2	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	16.5	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	1.16	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	API IA 23 rd Edition,2017 Part 3500-k (3-89 to 3-90)	mg/L	6.23	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500-Na(3-99 to 3-90)	mg/L	20.6	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Reaff.2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff 2019	mg/L	0.15	0.3	No Relaxation

BDL-Below Detection Limit
Tested By

(Manish Kumawat)
Asst. Office(QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

1. MoEFCC, New Delhi recognition under the Environment (Protection) Act 1986, vide gazette notification no. 1357 is valid from 02.06.2016 to 01.06.2021.
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Page 2 of 2

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. Chemical & Biological
32024-A111 TC - 5941



Report No.20200525009

Date: - 02.06.2020

TEST REPORT

(Water/Waste water)

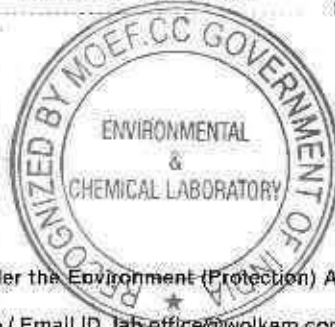
- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/02:30PM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Kanpur village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	38
2.	Relative Humidity	%	48

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agreeable	Agreeable	Agreeable

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report



TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
 Rockphosphate Maton Mine
 P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
 AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/11:32AM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Nakoli village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results		
1.	Ambient Temperature	°C	32		
2.	Relative Humidity	%	41.4		

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.21	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1984(Pt14) Reaff.2019	ms	1.181	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS:3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	798	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	12	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	364	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	89.6	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1994 Reaff.2019	mg/L	33.6	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	292	200	600
12.	Chlorides as Cl ⁻	IS:3025(Pt32)1988, Reaff.2019	mg/L	356	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition2017, 4500-SiO ₂ Page 4-175 to 177	mg/L	7.01	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	8.6	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-


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TEST REPORT

(Water/Waste water)

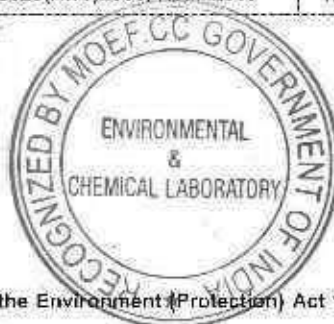
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 25.05.2020/11:32AM
4. Sample received on : 25.05.2020
5. Period of Analysis : 25.05.2020 to 02.06.2020
6. Name of sample & Location : Nakoli village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F ⁻	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.60	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.54	-	-
22.	Sulphate as SO ₄	IS:3025(Pt24)1986, Reaff.2019	mg/L	127.8	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	7.9	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.33	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL (<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition, 2017 Part 3500-k (3-19 to 3-10)	mg/L	6.13	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500-Na(3-99 to 3-90)	mg/L	62.4	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Reaff.2017 /AAS	mg/L	BDL (<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff 2019	mg/L	0.15	0.3	No Relaxation

BDL-Below Detection Limit

Tested By

(Manish Kumawat)
Asst. Office (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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End of Report



Report No.20200525010

Date: - 02.06.2020

TEST REPORT

(Water/Waste water)

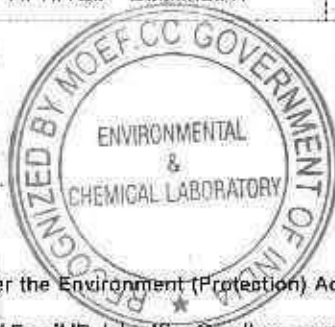
- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/11:32AM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Nakoli village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	32
2.	Relative Humidity	%	41.4

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agreeable	Agreeable	Agreeable

Tested By

(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report



TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 25.05.2020/10:52AM
- 4. Sample received on** : 25.05.2020
- 5. Period of Analysis** : 25.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Bagdara Talav (Surface water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	32.1
2.	Relative Humidity	%	40.1

S. No.	Parameters	Test Method	Unit	Results
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.48
2.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	1054
3.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	14
4.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff 2019	mg/L	388
5.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	68.8
6.	Magnesium as Mg ²⁺	IS:3025(Pt46)1994 Reaff.2019	mg/L	51.84
7.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	328
8.	B.O.D. 3 days @ 27°C	IS:3025(Pt14)1993, Reaff.2019	mg/L	3.6
9.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	3.82
10.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	16.9
11.	Iron as Fe	IS:3025(Pt53)2003, Reaff.2019	mg/L	0.13

BDL-Below Detection Limit

Tested By


(Manish Kumawat)
Asst.Officer (QC & Env.)



Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report



Report No.20200525011

Date: - 02.06.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 25.05.2020/10:52AM
4. Sample received on : 25.05.2020
5. Period of Analysis : 25.05.2020 to 02.06.2020
6. Name of sample & Location : Bagdara Talav (Surface water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

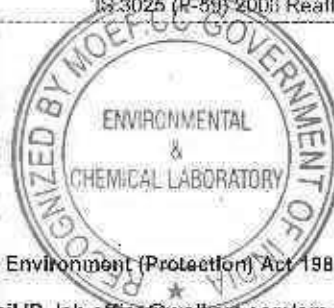
S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	32.1
2.	Relative Humidity	%	40.1

S. No.	Parameters	Test Method	Unit	Results
1.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	1.612
2.	Color	IS:3025(Pt4)1983. Reaff.2017	Hazen	<5
3.	Odour	IS:3025 (Part- 5)198 Reaff.2018	-	Agreeable
4.	Taste	APHA 23 rd Edition2017	-	Agreeable
5.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	280
6.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)
7.	Silica as SiO ₂	APHA 23 rd Edition/2017, 4500-SiO2 Page 4-175 to 177	mg/L	8.6
8.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.7
9.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<0.01)
10.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff.2017	mg/L	16.13
11.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDL(<0.1)
12.	Fluoride as F	IS:3025(Pt60)2008 Reaff.2019	mg/L	0.50
13.	Sulphate as SO ₄ ⁻	IS:3025(Pt24)1986, Reaff.2019	mg/L	222.7
14.	Zinc	IS:3025(P49)1994 RA 2019(a) AAS	mg/L	1.31
15.	Lead	IS:3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)
16.	Potassium as K	APHA 23 rd Edition,2017 Part 3500-k (3-88 to 3-90)	mg/L	9.2
17.	Sodium as Na	APHA 23 rd Edition2017 Part 3500 Na(3-99 to 3-90)	mg/L	89.2
18.	Manganese as Mn	IS:3025 (Pt-59)2008 Reaff.2017 IAAS	mg/L	BDL(<0.01)

BDL Below Detection Limit

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory

Wolkem India Limited

E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



DH989
Certificate No.
32024-A111



TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 26.05.2020/11:30AM
4. Sample received on : 26.05.2020
5. Period of Analysis : 26.05.2020 to 02.06.2020
6. Name of sample & Location : Mine Lease Area (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	31.2
2.	Relative Humidity	%	40.6

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.61	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	1.907	-	-
3.	Color	IS:3025(Pt14)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	588	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	BDL(<=5)	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	282	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	71.2	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt16)1984 Reaff.2019	mg/L	24.96	30	100
11.	Alkalinity	IS 3025(Pt23)1988, Reaff.2019	mg/L	198	200	600
12.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	198	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<=4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500 SiO ₂ Page 4-175 to 177	mg/L	5.6	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.2	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<=0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<=1)	-	-

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TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 26.05.2020/11:30AM
4. Sample received on : 26.05.2020
5. Period of Analysis : 26.05.2020 to 02.06.2020
6. Name of sample & Location : Mine Lease Area (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt18)2006 Reaff 2017	mg/L	BDL (<5)	-	-
19.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.10	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.15	-	-
22.	Sulphate as SO ₄ ⁻	IS:3025(Pt24)1986, Reaff.2019	mg/L	22.3	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	6.8	45	No Relaxation
24.	Zinc	IS 3025(P49)1884 RA 2019(a) AAS	mg/L	0.26	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition, 2017 Part 3500-k (3-89 to 3-90)	mg/L	4.6	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500-Na(3-89 to 3-90)	mg/L	66.1	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Reaff 2017 AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff 2019	mg/L	BDL(<0.1)	0.3	No Relaxation

BDL Below Detection Limit
Tested By

(Manish Kumawat)
Asst.Office(QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Envi. Chief Manager (Environment),
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 2 of 2
End of Report



Report No.20200526008

Date: - 02.06.2020

TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 26.05.2020/11:30AM
- 4. Sample received on** : 26.05.2020
- 5. Period of Analysis** : 26.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Mine Lease Area (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	31.2
2.	Relative Humidity	%	40.6

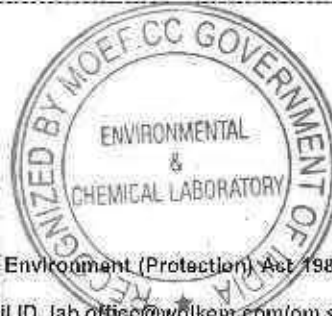
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agreeable	Agreeable	Agreeable

Tested By

(Manish Kumawat)
Asst.Officer (QC & Env.)

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Note:

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Page 1 of 1
End of Report

Report No.20200526009

Date: - 02.06.2020

TEST REPORT

(Water/Waste water)

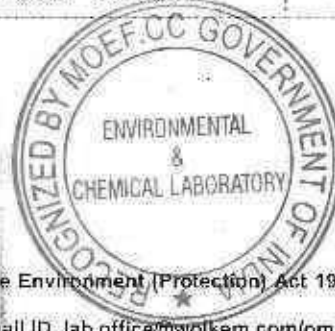
- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 26.05.2020/12:28PM
- 4. Sample received on** : 26.05.2020
- 5. Period of Analysis** : 26.05.2020 to 02.06.2020
- 6. Name of sample & Location** : ADM Office Site (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	34.6
2.	Relative Humidity	%	41.2

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agreeable	Agreeable	Agreeable

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note:

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Page 1 of 1
End of Report



TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 28.05.2020/07:07PM
4. Sample received on : 29.05.2020
5. Period of Analysis : 29.05.2020 to 02.06.2020
6. Name of sample & Location : Dhoonimata village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	32
2.	Relative Humidity	%	39

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.37	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	1.561	-	-
3.	Color	IS:3025(Pt1)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	1058	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	14	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	392	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	75.2	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1994 Reaff.2019	mg/L	48.96	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	142	200	600
12.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	308	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500-SiO2 Page 4-175 to 177	mg/L	8.2	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.3	-	-
16.	Residual Chlorine	IS:3025(Pt28)1988 Reaff.2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-

Note

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TEST REPORT

(Water/Waste water)

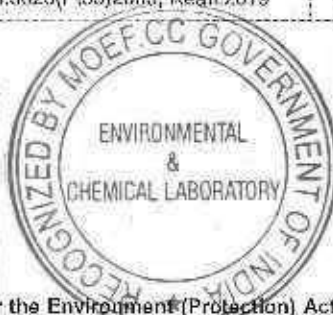
- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 28.05.2020/07:07PM
- 4. Sample received on** : 29.05.2020
- 5. Period of Analysis** : 29.05.2020 to 02.06.2020
- 6. Name of sample & Location** : Dhoonimata village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff 2017	mg/L	BDL (<5)	-	-
19.	Copper as Cu	IS:3025(Pt12)1992, Reaff.2019	mg/L	BDL (<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.50	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.11	-	-
22.	Sulphate as SO ₄ ²⁻	IS:3025(Pt24)1986, Reaff.2019	mg/L	34.6	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff. 2019	mg/L	17.4	45	No Relaxation
24.	Zinc	IS 3025(Pt49)1994 RA 2019(a) AAS	mg/L	0.33	5	15
25.	Lead	IS 3025(Pt47)1994 RA 2019(a) AAS	mg/L	BDL (<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition 2017 Part 3500-k (3-89 to 3-90)	mg/L	7.31	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500-Na (3-89 to 3-90)	mg/L	60.3	-	-
28.	Manganese as Mn	IS 3025 (Pt 59) 2006 Reaff.2017 /AAS	mg/L	BDL (<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2008, Reaff 2019	mg/L	0.13	0.3	No Relaxation

BDL Below Detection Limit

Tested By

(Manish Kumawat)
Asst. Office (QC & Env.)



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 2 of 2

End of Report

Report No.20200529002

Date: - 02.06.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 28.05.2020/07:07PM
4. Sample received on : 29.05.2020
5. Period of Analysis : 29.05.2020 to 02.06.2020
6. Name of sample & Location : Dhoonimata village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	32
2.	Relative Humidity	%	39

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agreeable	Agreeable	Agreeable

Tested By

(Manish Kumawat)
Asst. Officer (QC & Env.)

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note:

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Page 1 of 1
End of Report



Report No.20200820002

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/01:49PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Kharwaria village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	28.5
2.	Relative Humidity	%	52

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	6.59	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	2.161	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt10)1984, Reaff.2017	mg/L	1468	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	18	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	552	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	137.6	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1994 Reaff.2019	mg/l	49.92	30	100
11.	Alkalinity	IS:3025(Pt23)1983, Reaff.2019	mg/L	484	200	600
12.	Chlorides as Cl ⁻	IS:3025(Pt32)1988, Reaff.2019	mg/L	410	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500-SiO ₂ Page 4-1/5 to 1/7	mg/L	8.4	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.4	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-

Note

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Page 1 of 2

Continue

Registered & Corporate Office :

 "Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India
 Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379


 Certificate No. Chemical & Biological
 32024-A111 IC - 5841

Our Commitment.. Your Trust



Report No.20200820002

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

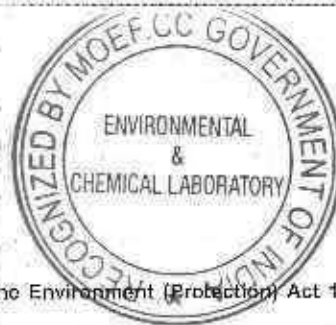
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Rockphosphate Maton Mine
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2. Purchase order Number : PO No. 2016.1201/5100019025 Date 13.01.2018
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/01:49PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Kharwaria village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Paramotors	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(P142)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(P160)2008 Reaff 2019	mg/L	0.50	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.14	-	-
22.	Sulphate as SO ₄ ⁻	IS:3025(P124)1986, Reaff.2019	mg/L	144.9	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-5-B)1988 Reaff 2019	mg/L	16.4	45	No Relaxation
24.	Zinc	IS 3025(P49)1984 RA 2019(a) AAS	mg/L	0.29	5	15
25.	Lead	IS 3025(P47)1984 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition,2017 Part 3500 k (3-89 to 3-90)	mg/L	6.71	-	-
27.	Sodium as Na	APHA 23 rd Edition,2017 Part 3500-Na(3-99 to 3-90)	mg/L	76.1	-	-
28.	Manganese as Mn	IS 3025 (P-89) 2006 Reaff.2017 AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff.2019	mg/L	0.15	0.3	No Relaxation

NDL -Below Detection Limit

Tested By

(Gyanvati Shukla)
Chemist



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)

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Page 2 of 2
End of Report



Report No.20200820002

Date: - 31.08.2020

TEST REPORT


(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2018
AMENDMENT No: 6 Dated: -01.01.2019
3. Date & Time of Sampling : 19.08.2020/01:49PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Kharwaria village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

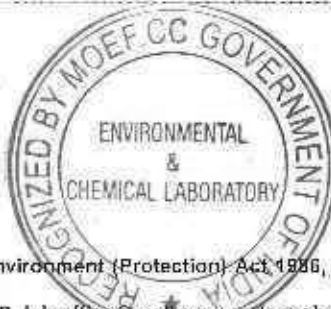
S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	28.5
2.	Relative Humidity	%	52

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 ^d Edition2017	-	Agreeable	Agreeable	Agreeable

Tested By


(Gyanvati Shukla)
Chemist

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)

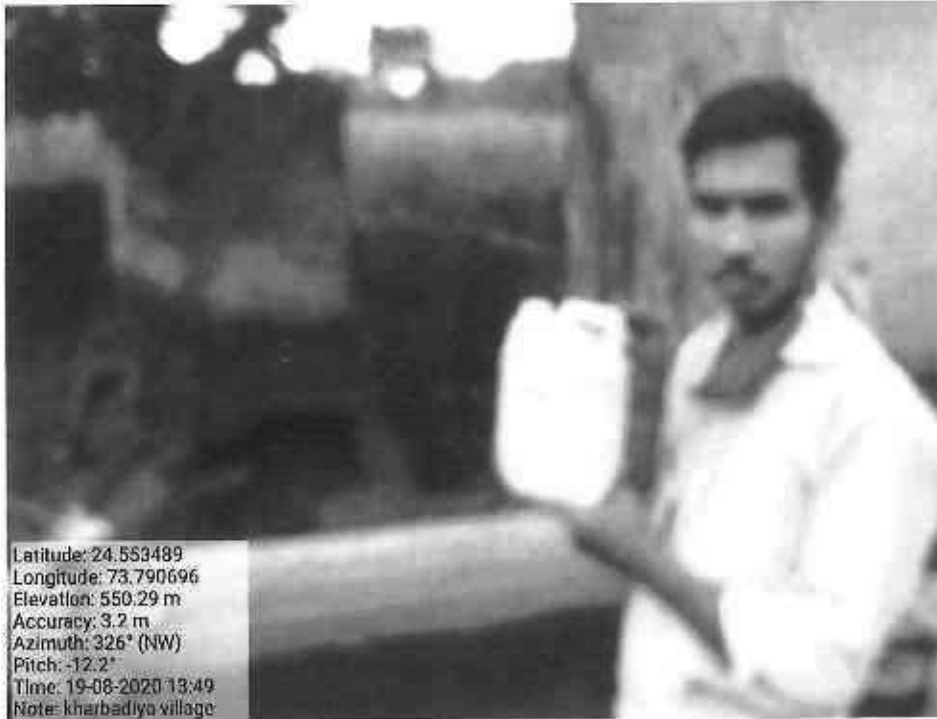
Note

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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ground & Surface water August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kharwaria village (Ground water)
3. Date of Monitoring :- 19.08.2020
4. GPS Coordinates :- Mention in Photograph
5. Photograph of Ground water sampling :-



REFERENCE: REPORT NO. 20200820002

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200820003

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
 Rockphosphate Maton Mine
 P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019025 Date 13.01.2016
 AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 19.08.2020/01:42PM
- 4. Sample received on** : 20.08.2020
- 5. Period of Analysis** : 20.08.2020 to 31.08.2020
- 6. Name of sample & Location** : Maton village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	28.6
2.	Relative Humidity	%	54

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.32	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1984(Pt14) Reaff.2019	ms	1.895	-	-
3.	Color	IS:3025(Pt1)1883, Reaff.2017	Hazen	<5	5	16
4.	Odour	IS 3025 (Part- 5) 198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	1282	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	12	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	528	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	110.4	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt48)1994 Reaff.2019	mg/L	60.5	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	420	200	600
12.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	334	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<1)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500-SiO ₂ Page 4-175 to 177	mg/L	8.1	-	-
15.	Dissolve Oxygen	IS:3025(Pt36)1989, Reaff.2019	mg/l	8.4	-	-
16.	Residual Chlorine	IS:3025(Pt26)1988 Reaff.2019	mg/L	BDL (<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/l.	BDL(<1)	-	-

Note

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Page 1 of 2

Continue

Registered & Corporate Office :

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 Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379


 Certificate No. Chemical & Biological
 32324-A111 TC - 5941

Our Commitment.. Your Trust



Report No.20200820003

Date: - 31.08.2020

TEST REPORT


(Water/Waste water)

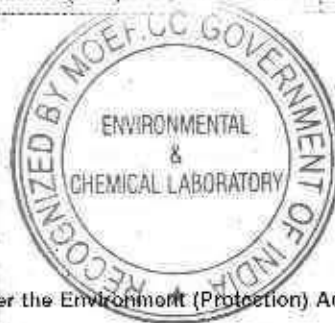
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/01:42PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Maton village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2008 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(Pt12)1992, Reaff 2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.60	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt131) Reprint & Reaff 2019	mg/L	0.27	-	-
22.	Sulphate as SO ₄	IS:3025(Pt24)1986, Reaff 2019	mg/L	212.2	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	6.3	45	No Relaxation
24.	Zinc	IS 3025(P49)1984 RA 2019(a) AAS	mg/L	0.46	5	15
25.	Lead	IS 3025(P47)1984 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition 2017 Part 3500-k (3-89 to 3-90)	mg/L	5.1	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500 Na(3-99 to 3-90)	mg/L	81.2	-	-
28.	Manganese as Mn	IS 3025 (P 59) 2006 Reaff 2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt59)2003, Reaff.2019	mg/L	0.13	0.3	No Relaxation


BDL-Below Detection Limit

Tested By


(Gyanvati Shukla)
Chemist



Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

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Page 2 of 2
End of Report



Report No.20200820003

Date: - 31.08.2020

TEST REPORT

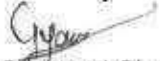
(Water/Waste water)

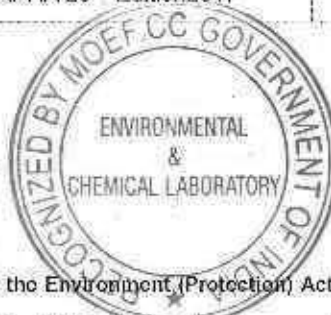
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No. 6 Dated: -01.01.2019
3. Date & Time of Sampling : 19.08.2020/01:42PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Maton village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	28.6
2.	Relative Humidity	%	54


S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APIA 23 rd Edition 2017	-	Agreeable	Agreeable	Agreeable

Tested By


(Gyanvati Shukla)
Chemist



Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment) -
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Registered & Corporate Office :

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

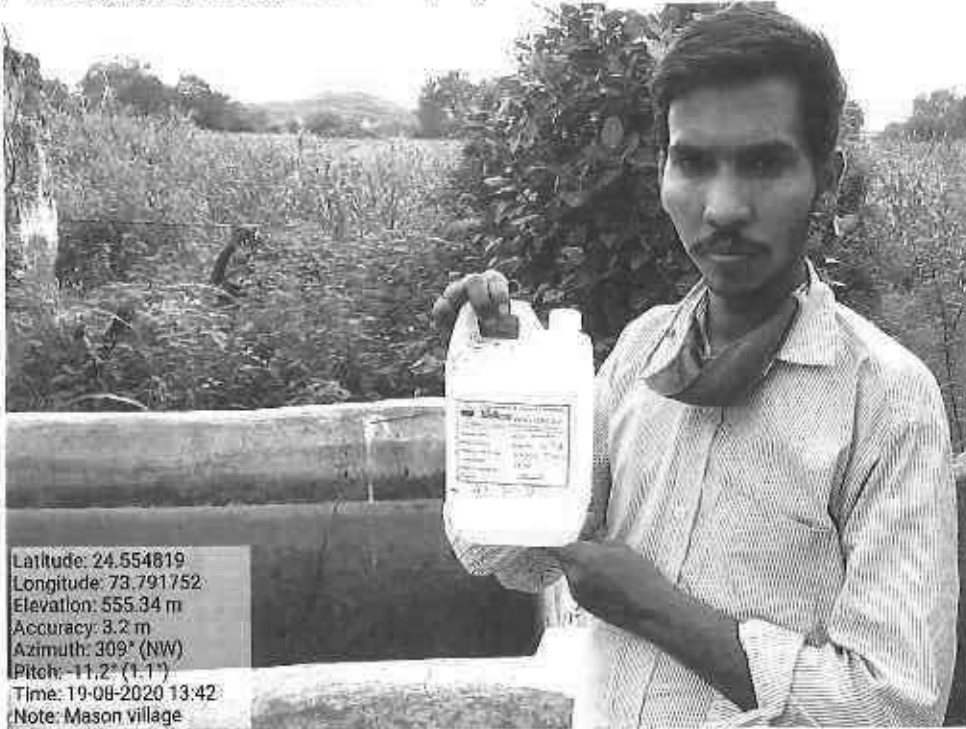
CIN- U29299RJ1971PLC001379




OHSAS
Certificate No.
32024-A111

Environmental Monitoring Photograph of Ground & Surface water August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Maton village (Ground water)
3. Date of Monitoring :- 19.08.2020
4. GPS Coordinates :- Mention in Photograph
5. Photograph of Ground water sampling :-



REFERENCE: REPORT NO. 20200820003


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200820004

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2018.1201/ 5100019025 Date 13.01.2018
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/01:04PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Lakarwas village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	28.6
2.	Relative Humidity	%	51

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	6.97	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1984(Pt14) Reaff.2019	ms	2.819	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable.
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	1862	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	14	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	584	200	800
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	177.6	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt16)1994 Reaff.2019	mg/L	33.6	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/l	536	200	600
12.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	805	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500-SiO ₂ Page 4-175 to 177	mg/L	8.2	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/l	8.2	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-

Note

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Page 1 of 2

Continue

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CIN- U29299RJ1971PLC001379



Certificate No. 32021-A111 Chemical & Biological TC - 5941

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Report No.20200820004

Date: - 31.08.2020

TEST REPORT

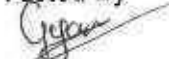
(Water/Waste water)

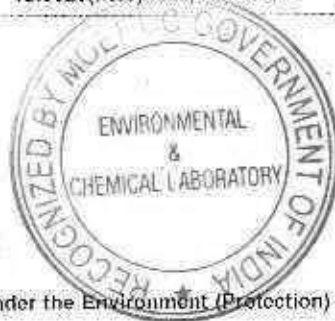
1. Name of Customer : HINDUSTAN ZINC LIMITED
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2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date: 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/01:04PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Lakarwas village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2008 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDL (<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.70	1.0	1.5
21.	Phosphate	IS:3025-1988(I't31) Reprint & Reaff 2019	mg/L	1.0	-	-
22.	Sulphate as SO ₄	IS:3025(Pt24)1986, Reaff.2019	mg/L	236.7	200	400
23.	Nitrate as NO ₃	IS:3025(I't34-3-B)1988 Reaff 2019	mg/L	14.5	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.01	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APIIA 23 rd Edition, 2017 Part 3500-K (3-89 to 3-90)	mg/L	5.6	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500-Na(3-99 to 3-30)	mg/L	52.0	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2008 Reaff.2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff.2019	mg/L	0.14	0.3	No Relaxation

BDL-Below Detection Limit

Tested By


(Gyanvati Shukla)
Chemist



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

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Page 2 of 2
End of Report

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CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological TC - 5941

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Report No.20200820004

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No: 2016.1261/ 510001902S Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/01:04PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Lakarwas village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	28.6
2.	Relative Humidity	%	51

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 ^d Edition 2017	-	Agreeable	Agreeable	Agreeable

Tested By

(Gyanvati Shukla)
Chemist

Authorized Signatory



(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

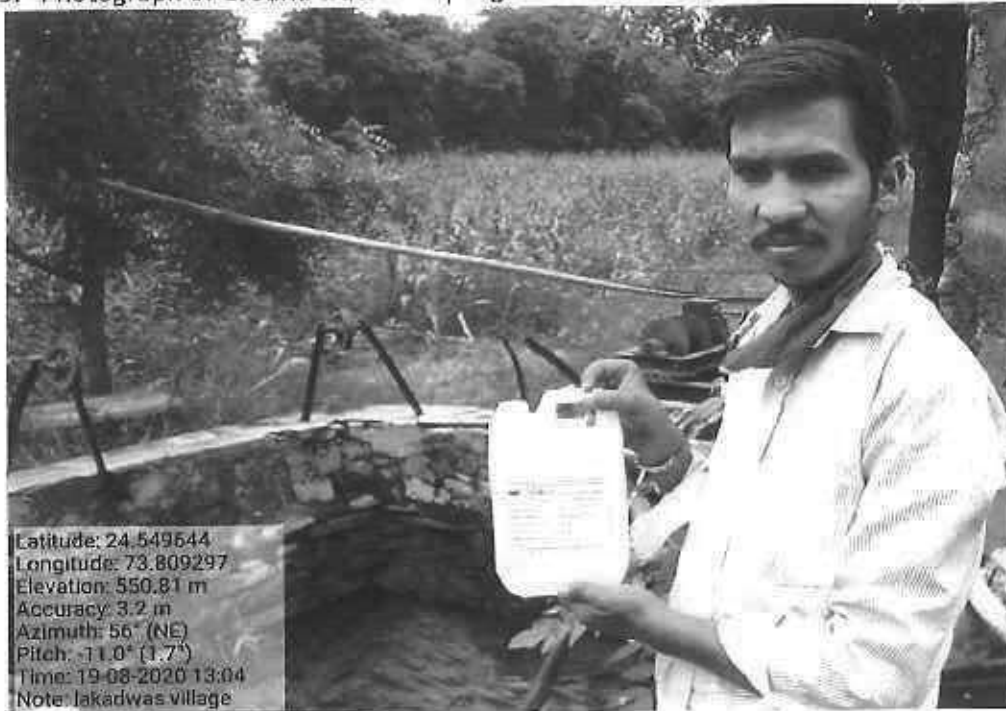
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ground & Surface water August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Lakadwas village (Ground water)
3. Date of Monitoring :- 19.08.2020
4. GPS Coordinates :- Mention in Photograph

5. Photograph of Ground water sampling :-



REFERENCE: REPORT NO. 20200820004

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200820005

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/11:45AM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Umrada village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	26.9
2.	Relative Humidity	%	53

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	6.81	8.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1984(Pt14) Reaff.2019	ms	1.252	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS:3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	821	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	12	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	516	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2018	mg/L	108.8	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1994 Reaff.2019	mg/L	58.6	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	340	200	800
12.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	108	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL (<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APIIA 23 rd Edition 2017, 4500-SiO ₂ Page 4-175 to 177	mg/L	8.2	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.5	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL (<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL (<1)	-	-



Note

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Page 1 of 2

Continue

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India
Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No. 32024-A111 Chemical & Biological TC - 5941

Our Commitment.. Your Trust



Report No.20200820005

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

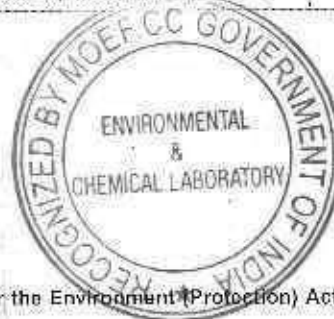
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2018.1201/ 5100019025 Date 13.01.2018
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/11:45AM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Umrada village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(Pt80)2008 Reaff 2019	mg/L	0.70	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff.2019	mg/L	0.18	-	-
22.	Sulphate as SO ₄	IS:3025(Pt24)1986, Reaff.2019	mg/L	68.8	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	12.4	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.23	5	15
25.	Lead	IS:3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition 2017 Part 3500-k (3-99 to 3-90)	mg/L	6.34	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500-Na(3-99 to 3-90)	mg/L	28.1	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Reaff.2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff.2019	mg/L	BDL(<0.1)	0.3	No Relaxation

BDL Below Detection Limit

Tested By

(Gyanvati Shukla)
Chemist



Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

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End of Report

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Certificate No. 32024-A111 Chemical & Biological TC - 5941

Our Commitment.. Your Trust



Report No.20200820005

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2016.1201/ 5100019029 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 19.08.2020/11:45AM
- 4. Sample received on** : 20.08.2020
- 5. Period of Analysis** : 20.08.2020 to 31.08.2020
- 6. Name of sample & Location** : Umrada village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	26.9
2.	Relative Humidity	%	53

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agreeable	Agreeable	Agreeable

Tested By

(Gyanvati Shukla)
Chemist

Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



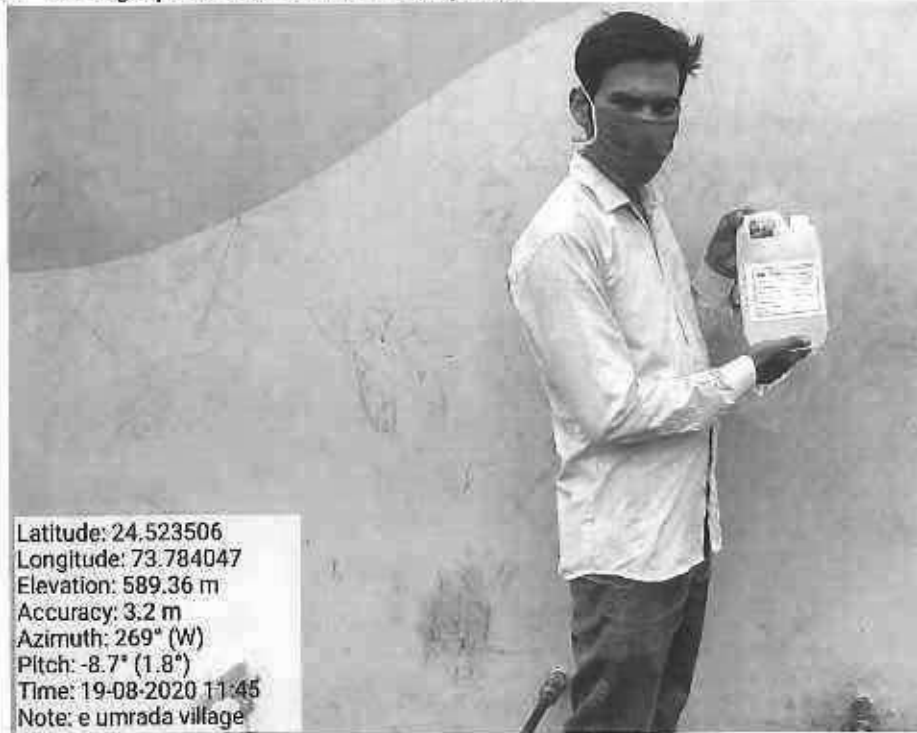
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ground & Surface water August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Umarada village (Ground water)
3. Date of Monitoring :- 19.08.2020
4. GPS Coordinates :- Mention in Photograph
5. Photograph of Ground water sampling :-



REFERENCE: REPORT NO. 20200820005

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200820006

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/02:03PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Kanpur village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	29
2.	Relative Humidity	%	50

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.74	8.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	1.671	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agroccable	Agroccable	Agroccable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	1124	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	8	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2008 Reaff.2019	mg/L	388	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	104	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1991 Reaff.2019	mg/L	30.7	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	352	200	1000
12.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	344	250	1000
13.	Oil & Grease	IS:3025(Pt39)1981, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500-SiO ₂ Page 4-175 to 177	mg/L	7.8	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.5	-	-
16.	Residual Chlorine	IS:3025(Pt28)1986 Reaff.2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-

Note

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Page 1 of 3

Continue

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CIN - U29299RJ1971PLC001379



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Report No.20200820006

Date: - 31.08.2020

TEST REPORT


(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/02:03PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Kanpur village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits : IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Cooper as Cu	IS:3025(Pt42)1992. Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F ⁻	IS:3025(Pt60)2008 Reaff.2019	mg/L	0.50	1.0	1.5
21.	Phosphate	IS:3025-1988(Pt31) Reprint & Reaff.2019	mg/l.	0.23	-	-
22.	Sulphate as SO ₄ ⁻	IS:3025(Pt24)1986. Reaff.2019	mg/l.	165.3	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff.2019	mg/L	16.5	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	1.18	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APIIA 23 rd Edition 2017 Part 3500-k (3-89 to 3-90)	mg/L	5.1	-	-
27.	Sodium as Na	APHA 23 rd Edition 2017 Part 3500-Na(3-88 to 3-90)	mg/L	19.9	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Reaff.2017 AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003. Reaff.2019	mg/L	0.13	0.3	No Relaxation

BDL Below Detection Limit

Tested By


(Gyanvati Shukla)
Chemist



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 2 of 2
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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC004379



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Report No.20200820006

Date: - 31.08.2020

TEST REPORT

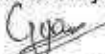
(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2018.1201/ 6100019025 Date 13.01.2018
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/02:03PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Kanpur village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	38
2.	Relative Humidity	%	46

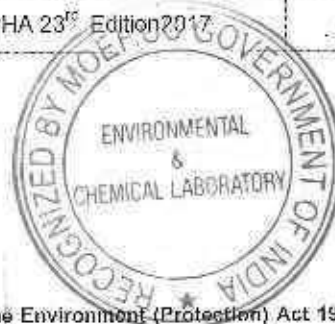
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017		Agreeable	Agreeable	Agreeable

Tested By


(Gyanvati Shukla)
Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)



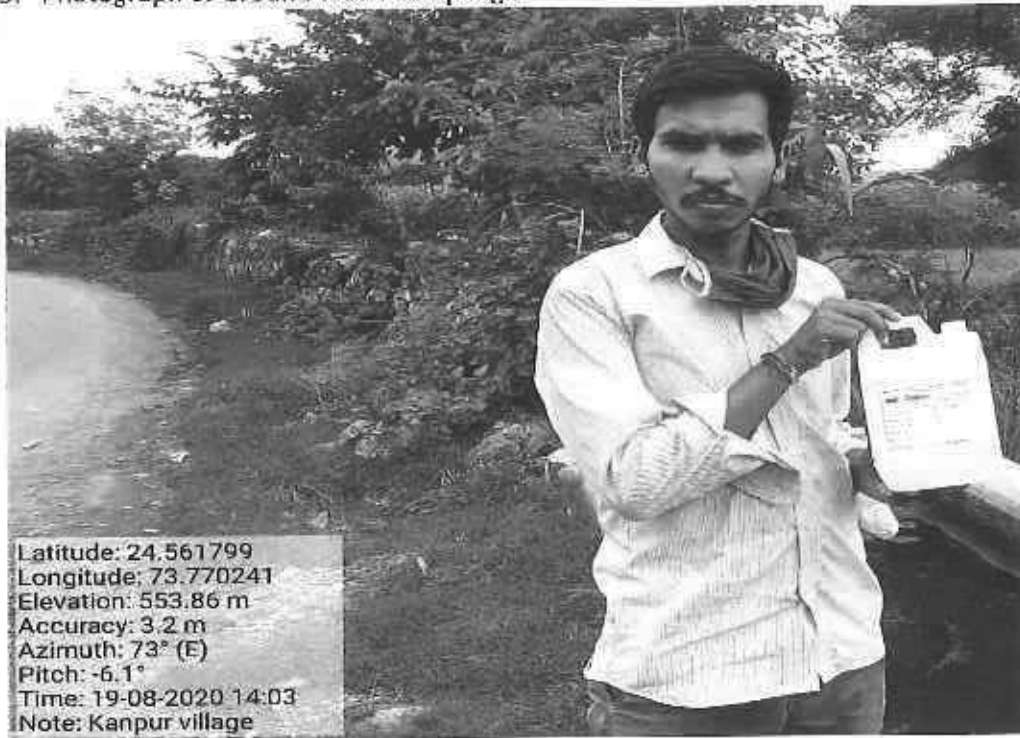
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ground & Surface water August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Kanpur village (Ground water)
3. Date of Monitoring :- 19.08.2020
4. GPS Coordinates :- Mention in Photograph
5. Photograph of Ground water sampling :-



REFERANCE: REPORT NO. 20200820006


Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200820007

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016/1201/5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/11:09AM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Nakoli village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	^o C	32
2.	Relative Humidity	%	41.4

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	6.86	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	µs	996.8	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Plazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
5.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/l.	738	500	2000
6.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	10	-	-
7.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/l.	356	200	600
8.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	92.8	75	200
9.	Magnesium as Mg ²⁺	IS:3025(Pt46)1991 Reaff.2019	mg/L	29.8	30	100
10.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L.	288	200	600
11.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	210	250	1000
12.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
13.	Silica as SiO ₂	APIA 23 rd Edition 2017, 4500-3/02 Page 4-175 to 177	mg/L	6.2	-	-
14.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.4	-	-
15.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDI (<0.01)	0.2	1
16.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-

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Page 1 of 2

Continue



Report No.20200820007

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/11:09AM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Nakoli village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff 2017	mg/L	BDL(<5)		-
19.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.60	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.37	-	-
22.	Sulphate as SO ₄ ²⁻	IS:3025(Pt24)1066, Reaff.2019	mg/L	87.8	200	400
23.	Nitrate as NO ₃	IS.3025(Pt34-3-B)1988 Reaff 2019	mg/L	5.3	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.29	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition 2017 Part 3500-k (3-89 to 3-90)	mg/L	4.3		-
27.	Sodium as Na	APIIA 23 rd Edition 2017 Part 3500-Na(3-99 to 3-90)	mg/L	43.8		-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Reaff.2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff 2019	mg/L	0.16	0.3	No Relaxation

BDL - Below Detection Limit

Tested By

(Gyanvati Shukla)
Chemist



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

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Page 2 of 3
End of Report



Report No.20200820007

Date: - 31.08.2020

TEST REPORT

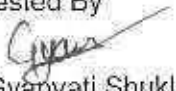
(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.12017/5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/11:09AM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Nakoli village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	32
2.	Relative Humidity	%	41.4

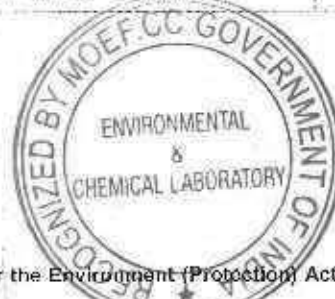
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agreeable	Agreeable	Agroccable

Tested By


(Gyanvati Shukla)
Chemist

Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)



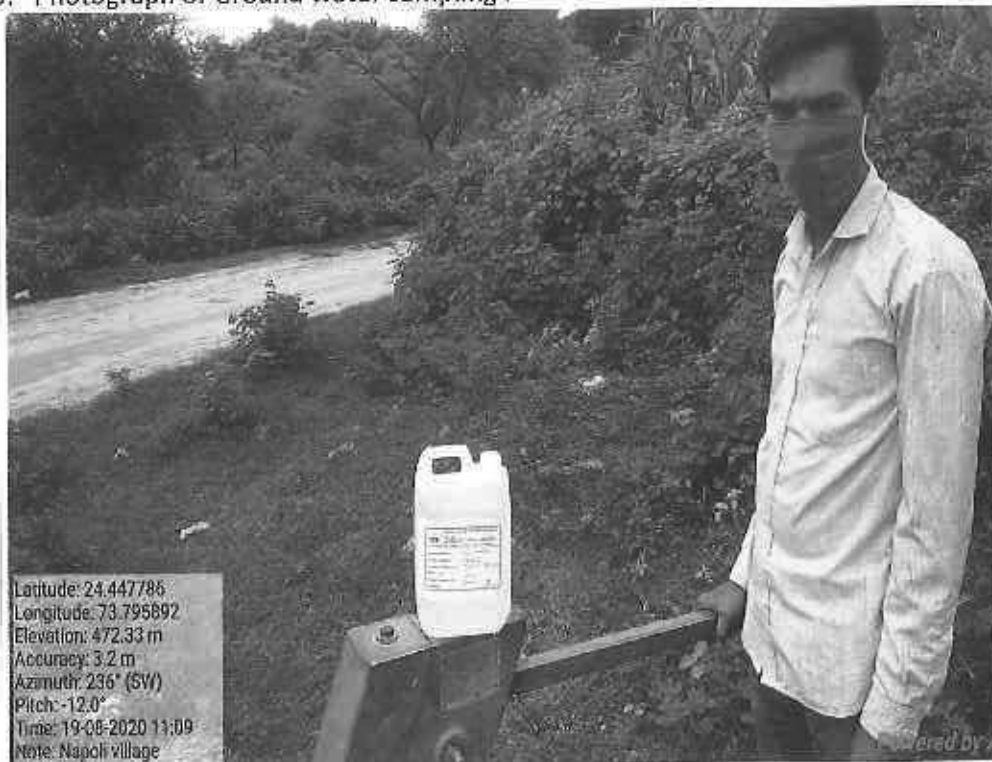
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ground & Surface water August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Nakoli village (Ground water)
3. Date of Monitoring :- 19.08.2020
4. GPS Coordinates :- (Mention in Photograph)
5. Photograph of Ground water sampling :-



REFERENCE: REPORT NO. 20200820007

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200820008

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)


1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/12:14PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Bagdara Talav (Surface water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	34
2.	Relative Humidity	%	56.4

S. No.	Parameters	Test Method	Unit	Results
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.42
2.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	1262
3.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/l	18
4.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff 2019	mg/L	456
5.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/l	92.8
6.	Magnesium as Mg ²⁺	IS:3025(Pt16)1994 Reaff 2019	mg/L	53.8
7.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	316
8.	B.O.D. 3 days @ 27°C	IS:3025(Pt14)1993, Reaff.2019	mg/L	3.1
9.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	3.91
10.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	18.7
11.	Iron as Fe	IS:3025(Pt33)2003, Reaff.2019	mg/L	0.16

BDL Below Detection Limit

Tested By


(Gyanvati Shukla)
Chemist



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment),
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report



Report No.20200820008

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date: 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 19.08.2020/12:14PM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Bagdara Talav (Surface water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	34
2.	Relative Humidity	%	56.4

S. No.	Parameters	Test Method	Unit	Results
1.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	1.854
2.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5
3.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable
4.	Taste	APIA 23 rd Edition2017	-	Agreeable
5.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	270
6.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/l	BDL(<4)
7.	Silica as SiO ₂	APIA 23 rd Edition2017, 4500-SiO ₂ Page 4 175 to 177	mg/L	9.5
8.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.5
9.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<0.01)
10.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff.2017	mg/L	8.0
11.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	RDI (<0.1)
12.	Fluoride as F	IS:3025(Pt60)2008 Reaff.2019	mg/l	0.80
13.	Sulphate as SO ₄	IS:3025(Pt24)1986, Reaff.2019	mg/l	285.3
14.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	1.81
15.	Lead	IS 3025(P47)1984 RA 2019(a) AAS	mg/L	RDI (<0.01)
16.	Potassium as K	APHA 23 rd Edition,2017 Part 3500-K (3-89 to 3-90)	mg/l	12.3
17.	Sodium as Na	APHA 23 rd Edition2017 Part 3500-Na(3-99 to 3-90)	mg/L	98.6
18.	Manganese as Mn	IS 3025 (P 59) 2006 Reaff.2017 /AAS	mg/L	RDI (<0.01)

BDL-Below Detection Limit

Tested By

(Gyanvati Shukla)
Chemist



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

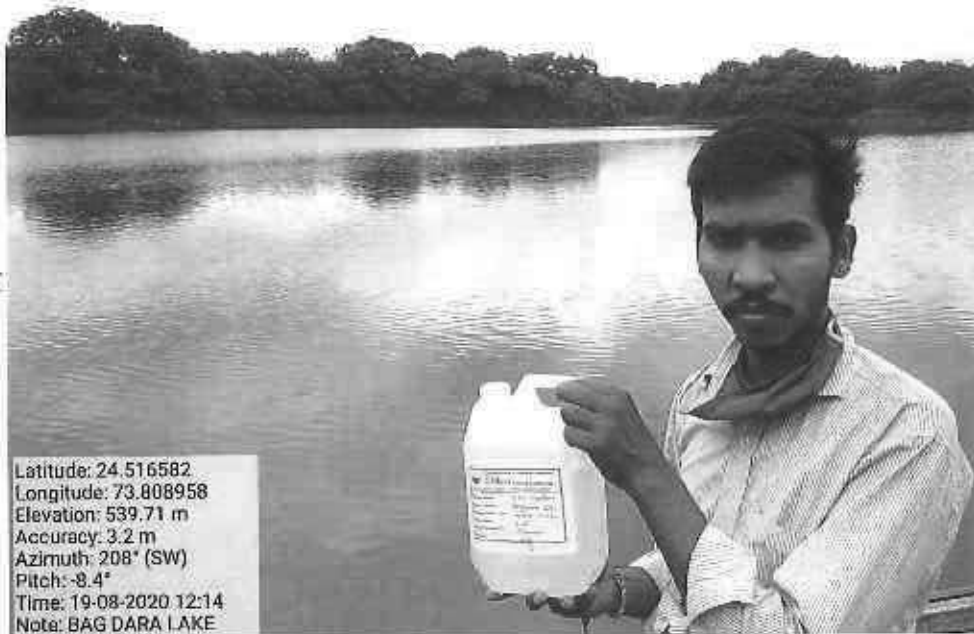
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ground & Surface water August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Bagdara Talav (Surface water)
3. Date of Monitoring :- 19.08.2020
4. GPS Coordinates :- Mention in Photograph
5. Photograph of Surface water sampling :-



REFERENCE: REPORT NO. 20200820008

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200820009

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 20.08.2020/11:50AM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Mine Lease Area (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	29.4
2.	Relative Humidity	%	51.2

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.50	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025 1964(Pt14) Reaff.2019	µs	538.7	-	-
3.	Color	IS:3025(Pt1)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part-5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	392	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	BDL(<5)	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	152	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/L	48	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1994 Reaff.2019	mg/L	7.7	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	194	200	600
12.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/L	112	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500-SiO ₂ Page 4-175 to 177	mg/L	5.3	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.3	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/l.	BDL(<0.01)	0.2	-
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-

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Page 1 of 2

Continue



Report No.20200820009

Date: - 31.08.2020

TEST REPORT


(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No: 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 20.08.2020/11:50AM
4. Sample received on : 20.08.2020
5. Period of Analysis : 20.08.2020 to 31.08.2020
6. Name of sample & Location : Mine Lease Area (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt158)2006 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(Pt60)2008 Reaff 2019	mg/L	0.10	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.15	-	-
22.	Sulphate as SO ₄ ²⁻	IS:3025(Pt24)1986, Reaff.2019	mg/L	22.3	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	0.8	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.26	5	15
25.	Lead	IS:3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition,2017 Part 3500-K (3-89 to 3-90)	mg/L	4.6	-	-
27.	Sodium as Na	APHA 23 rd Edition,2017 Part 3500-Na(3-99 to 4-90)	mg/L	66.1	-	-
28.	Manganese as Mn	IS 3025 (P-58) 2006 Reaff.2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff.2019	mg/L	BDL(<0.1)	0.3	No Relaxation

BDL-Below Detection Limit

Tested By


(Gyanvati Shukla)
Chemist



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)

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Page 2 of 2

End of Report



Report No.20200820009

Date: - 31.08.2020

TEST REPORT


(Water/Waste water)

- 1. Name of Customer** : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- 2. Purchase order Number** : PO No. 2018.1201/ 5100019025 Date 13.01.2018
AMENDMENT No. 6 Dated: - 01.01.2019
- 3. Date & Time of Sampling** : 20.08.2020/11:50AM
- 4. Sample received on** : 20.08.2020
- 5. Period of Analysis** : 20.08.2020 to 31.08.2020
- 6. Name of sample & Location** : Mine Lease Area (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987


S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	29.4
2.	Relative Humidity	%	51.2

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agreeable	Agreeable	Agreeable

Tested By


(Gyanvati Shukla)
Chemist

Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)



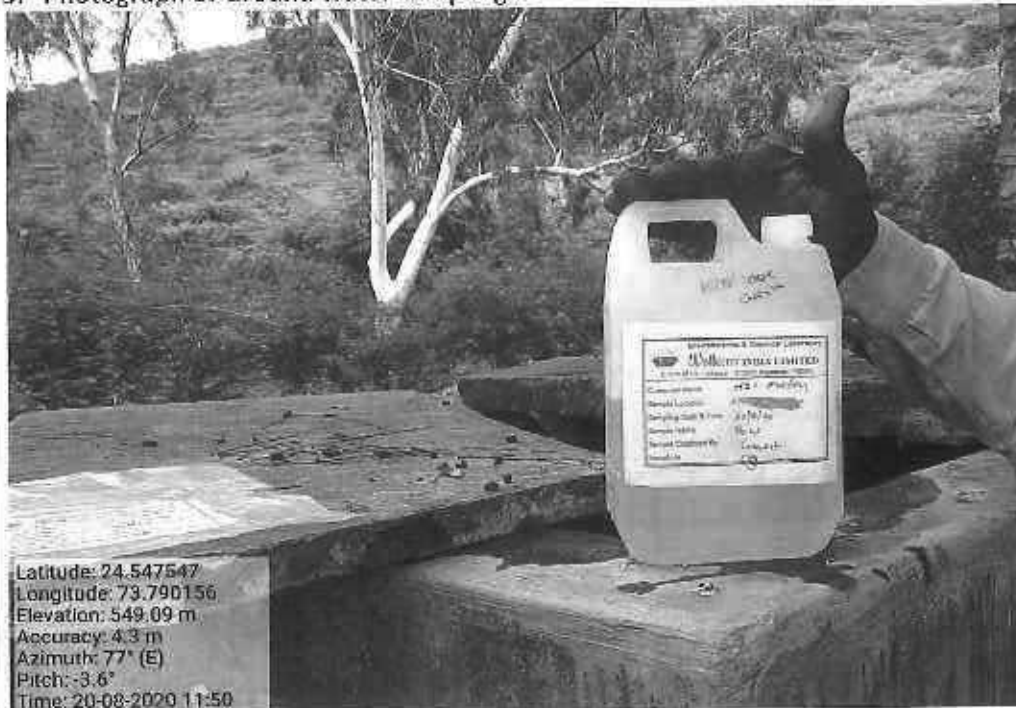
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Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ground & Surface water August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Mine Lease Area (Ground water)
3. Date of Monitoring :- 20.08.2020
4. GPS Coordinates :- Mention in Photograph
5. Photograph of Ground water sampling :-



REFERENCE: REPORT NO. 20200820009

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)



Report No.20200821001

Date: - 31.08.2020

TEST REPORT

(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 20.08.2020/05:05PM
4. Sample received on : 21.08.2020
5. Period of Analysis : 21.08.2020 to 31.08.2020
6. Name of sample & Location : Dhoonimata village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	31
2.	Relative Humidity	%	45

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	6.98	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1984(Pt14) Reaff.2019	ms	1.544	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	1014	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/l.	14	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Pt21)2009 Reaff.2019	mg/L	401	200	600
9.	Calcium as Ca ²⁺	IS:3025(Pt40)1991, Reaff.2019	mg/l.	78.4	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Pt46)1994 Reaff.2019	mg/L	49.9	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	276	200	600
12.	Chlorides as Cl	IS:3025(Pt32)1988, Reaff.2019	mg/l.	284	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDI (<4)	0.5	No Relaxation
14.	Silica as SiO ₂	APHA 23 rd Edition 2017, 4500 SiO ₂ Page 4-175 to 177	mg/L	7.9	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.2	-	-
16.	Residual Chlorine	IS:3025(Pt26)1986 Reaff.2019	mg/L	BDL(<0.01)	0.2	1
17.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-

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Page 1 of 2

Continue



Report No.20200821001

Date: - 31.08.2020

TEST REPORT


(Water/Waste water)

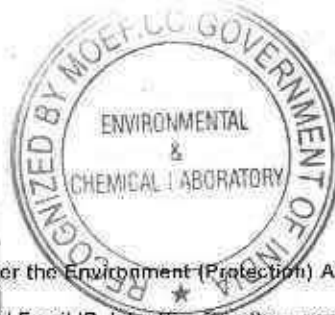
1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No: 6 Dated: - 01.01.2019
3. Date & Time of Sampling : 20.08.2020/05:05PM
4. Sample received on : 21.08.2020
5. Period of Analysis : 21.08.2020 to 31.08.2020
6. Name of sample & Location : Dhoonimata village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
18.	Chemical Oxygen Demand	IS:3025(Pt158)2006 Reaff 2017	mg/L	BDL(<3)	-	-
19.	Copper as Cu	IS:3025(Pt142)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F	IS:3025(Pt160)2008 Reaff 2019	mg/L	0.60	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff.2019	mg/L	0.11	-	-
22.	Sulphate as SO ₄ ²⁻	IS:3025(Pt24)1986, Reaff.2019	mg/l	33.5	200	400
23.	Nitrate as NO ₃	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/l	15.2	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/l	0.31	5	15
25.	Lead	IS 3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)	0.01	No Relaxation
26.	Potassium as K	APHA 23 rd Edition,2017 Part 3500-k (3-89 to 3-90)	mg/L	7.10	-	-
27.	Sodium as Na	APHA 23 rd Edition,2017 Part 3500-Na(3-99 to 3-90)	mg/L	81.6	-	-
28.	Manganese as Mn	IS 3025 (P-50) 2006 Reaff.2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(Pt53)2003, Reaff.2019	mg/L	0.13	0.3	No Relaxation

BDL-Below Detection Limit

Tested By


(Gyanvati Shukla)
Chemist



Authorized Signatory

(Dr. S. K. Yadav)
Chief Manager (Environment)
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A. UDAIPUR (Rajasthan)

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- The samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified.
- Any discrepancy in test results should be reported within 15 days.

Page 2 of 2
End of Report



Report No.20200821001

Date: - 31.08.2020

TEST REPORT

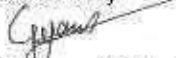
(Water/Waste water)

1. Name of Customer : HINDUSTAN ZINC LIMITED
Rockphosphate Maton Mine
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number : PO No. 2016.1201/ 5100019025 Date 13.01.2016
AMENDMENT No. 8 Dated - 01.01.2019
3. Date & Time of Sampling : 20.08.2020/05:05PM
4. Sample received on : 21.08.2020
5. Period of Analysis : 21.08.2020 to 31.08.2020
6. Name of sample & Location : Dhoonimata village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987


S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	31
2.	Relative Humidity	%	45

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	APHA 23 rd Edition 2017	-	Agroccable	Agroccable	Agroccable

Tested By


(Gyanvati Shukla)
Chemist

Authorized Signatory


(Dr. S. K. Yadav)
Chief Manager (Environment) .
Environmental & Chemical Laboratory
Wolkem India Limited
E-102 M.I.A. UDAIPUR (Rajasthan)



Note

1. MoEFCC, New Delhi recognition under the Environment (Protection) Act 1986, vide gazette notification no. 1357 is valid from 02.06.2016 to 01.06.2021.
2. Complaint Register is available in lab / Email ID lab.office@wolkem.com/om.shukla@wolkem.com
3. The results listed refer only to the tested sample (s) and parameter (s) Encorsement of product is neither inferred nor implied.
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
5. The samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified.
6. Any discrepancy in test results should be reported within 15 days.

Page 1 of 1
End of Report

Environmental Monitoring Photograph of Ground & Surface water August 2020

1. Name of Customer :- Hindusthan Zinc Limited
(Maton Mines) Udaipur
2. Name of Location :- Dhoonimata village (Ground water)
3. Date of Monitoring :- 20.08.2020
4. GPS Coordinates :- Mention in Photograph
5. Photograph of Ground water sampling :-



REFERENCE: REPORT NO. 20200821001

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

For 2010-2011

Ministry of Environment & Forests, Government of India

जस्थान पत्रिका

वर्षांक: 2010

Date: 27.11

आम सूचना

जस्थान पत्रिका के माध्यम से सूचना दी जाती है कि...

राज्य पत्रिका

राज्य पत्रिका के माध्यम से सूचना दी जाती है...

शहर में आज

शहर में आज का दिन बहुत ही व्यस्त और...

खुरी फटाफट

आज अफसोसजनक घटनाएं घटित हुईं...

न दिख

शहर के मुख्य मार्गों पर धूल और कचरा...

सड़क पर...

सड़क पर चलने वाले वाहनों की संख्या...

घटना आज

आज शहर में कई घटनाएं घटित हुईं...

नृत्यकारों की शक्ति

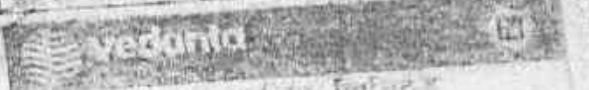
नृत्यकारों की शक्ति और प्रतिभा...

अपने राज्य की शक्ति

अपने राज्य की शक्ति और पहचान...

टढ़-भेड़ें जल पर कायशा

जल संचयन और पर्यावरण संरक्षण...



विज्ञापन/सूचनाएं

Ministry of Environment & Forests, Government of India

विज्ञापन/सूचनाएं

3.2010.

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