

Ref: HZL/ Maton /MoEF/2020-21/75

Date: 24.05.2022

To,

**The Deputy Director (S)/ Scientist- C,  
Ministry of Environment, Forests & Climate Change  
Government of India,  
Integrated Regional Office,  
A- 209 & 218, Aranya Bhawan, Jhalana Institutional Area,  
Jaipur (Rajasthan) – 302004.**

**Sub: Six Monthly Compliance Report of EC for October'21 to March'22.**

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 October'21 to March'22.

Thanking you.

Yours Sincerely,

**For Maton Rock Phosphate Mine**



( Ravi Kumar Dave )  
Mine Manager

CC to : 1. In-Charge (Zonal Office), Central Pollution Control Board, Zonal Office (Central),  
3<sup>rd</sup> 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 UCCI  
Building, Mewar Industrial Area, Udaipur (Raj.) -313001.  
4. Office Copy (Env. Cell)

### **Hindustan Zinc Limited**

Maton Rock Phosphate Mines.

P.O. - Maton, Th. - Girwa, Udaipur (Rajasthan) - 313003

Tel. : (+91 -294) 2342093, Fax : + (91-294) - 2342092

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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:** October'21 to March'22

### 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 <sup>st</sup> order and 2 <sup>nd</sup> 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 <sup>st</sup> 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	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

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	and stipulation of additional conditions, if any, 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 southwest. 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

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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.	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.
xv	The project proponent shall obtain necessary prior permission of the	Presently water required for mining operation is sourced from the Mine pit/sump and domestic

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	competent authorities for drawl of requisite quantity of water required for the project.	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 is 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 unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Loading, unloading points are sprinkled with water using mobile tanker to ensure effective dust control. At transfer points of the crusher, water sprinklers are installed.

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xxii	Sewage treatment plant shall be installed for the colony. ITP 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. P()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 68,000 saplings within project area (8000 during FY 2021-22). 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 study.
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 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	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). 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.

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	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	
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 10 $\mu\text{m}$ i.e., PM <sub>10</sub> ) & NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	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 PM10, PM2.5, SOx, NOx and the results submitted to RSPCB and MoEF.
iv	Data on ambient air quality RSPM (Particulate matter with size less than 10 $\mu\text{m}$ i.e., PM <sub>10</sub> ) & NOx 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 provided with ear plugs / muffs.	All machines undergo periodic maintenance. All mine workers are provided with ear plugs with at least 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.

S.No.	Conditions	Status
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 <sup>th</sup> May, 1993 and 31 <sup>st</sup> 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/- 2020-21 - Rs. 39,10,056/- 2021-22- Rs. 30,80,259/-
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 Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal Office of CPCB and the SPCB. The proponent shall upload	The report in hardcopy and emails are submitted to RO, MoEF, Lucknow. Hardcopy is sent to MoEFCC, CPCB and RSPCB. Six monthly reports are regularly submitted in hard copies, soft copy and by e-mail. Latest compliance

S.No.	Conditions	Status
	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.	report was sent on 28.11.2021.
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 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of 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 2020-21 was submitted on 28.09.2021.
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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	Advertised in two News papers named Dainik Bhashkar and Rajasthan Patrika on 19.03.2010 (Annexure - 12).



1. *Indirect Method*  
and/or other written evidence of direct form, among whom  
are included:  
a) the author(s) of the document; b) the date of the document;

*Written*

The author(s) of the document, or the direct form, among whom  
are included:  
a) the author(s) of the document; b) the date of the document; c)  
the date of the document; d) the date of the document; e) the date of the document; f) the date of the document; g) the date of the document; h) the date of the document; i) the date of the document; j) the date of the document.

*Written*

Author(s) of the document;  
Date of the document.

Author(s) of the document;  
Date of the document.

भूमि अवाल्पि अधिकारी,  
उदयपुर-सलूम्बर, राजस्थान  
क्रमांक : २७/८

उदयपुर

संघ-डिविजन  
दिनांक २५-२-१९७५ १५७

## अवार्ड

( प्रत्यागत धारा ११, राजस्थान भूमि अवाल्पि अधिनियम, संख्या १६५३ )  
विषय:- हिन्दुस्तान जिका निः के कार्य में भूमि भूमि को अवाल्पि पारने हेतु ।

प्राचली भवलोकन की गई । हिन्दुस्तान जिका निः, नया कलहुरा, उदयपुर की शहरा जायर/मटून/दरीबा भाईंस के लिए भूमि अवाल्पि वायत राज्य राजकार से राजस्थान भूमि अवाल्पि अधिनियम, संख्या १६५३ की धारा ४ को विज्ञापित व्यापक विभाग द्वारा जरिये नम्बर ज्ञान १५५२ F-७ दि. १३-६-७२ नो प्राप्त हो जाने से भूमि अवाल्पि अधिकारी गिर्वा/सलूम्बर/राजसमंद की ओर से जरिये नं. दिनांक \_\_\_\_\_ को सावंजनिक स्थानों पर प्रकाशित हो चुकी है और इस दिनांक में काविजान भूमि से आपसी समझौता पर बातचीत की गई जो आपसी समझौते से अवाल्पि होने वाली भूमि का एवजाना होने के लिए रजापन्द है ।

उपरोक्त प्रकाशण में निम्नलिखित आसामियान को भूमि अवाल्पि हो रही है । इस भूमि की सर्वे की गई, जिसका विवरण निम्नलिखित है :—

नाम नंबर	नाम तहसील	संस्कारा नं.	रक्कवा		किलम भूमि	लगान	विवरण
			बीघा	बिस्तरा			
१	गिर्वा	१५७७	८-	८०	५२१	१-८०	

भाली कावजात से इस भूमि के मालिक और काविजान की जाँच कराई गई तो पाया गया कि अवाल्पि होने वाली भूमि जिसका विवरण ऊपर दिया गया है श्री श्री गुप्त पल्लामुख मुद्रुल पिता श्री जाति निवासी तहसील गिर्वा के नाम पर इन्द्राज है जिसकी तस्वीक तहसीलदार-सा. गिर्वा/सलूम्बर/रेसमम्बर-ने गो है और उन्होंने यह श्री ग्रामाधित निया है कि अवाल्पि के नाम जारी किया जाने ।

श्री ग्रामाधित आपसी समझौते पर एवजाना के लिए तैयार हैं । ऐसी सुरक्षा में भूमि अवाल्पि अधिनियम, १६५३ की धारा ६ (३) व ६ (१) के अनुसार नोटिस जारी करने की कोई आवश्यकता नहीं है ।

तहसीलदार-सा. गिर्वा/सलूम्बर/रेसमम्बर ने मार्केट घेर्हु आपसी रजामुखी के भाष्टार पर एवजाना हेते के लिये स्वीकृति चाही जो फार्ले संलग्न है ।

म अंवाप्ति नियमावली प्रपत्र 10 (भूमि आवृत्ति नियमावली अनुच्छेद 96)

राजी नामा निशाचारी

राजी नामा निशाचारी पर हस्ताक्षर करने वाले  
पक्ष विशिष्ट) एतद् तारा निम्न निस्तृत भूमि की अदायगी और मुआवजे को एकम के लिए शान्ति रहमति  
चोपित करते हैं और नियत तरह का हमारे हाथा उदाया कुमा वावा या हमारी गोई अधिक मांग (खेत) गिरी  
राजन पर दायर की गई, तुरन्त इह शान्ति जावे।

निला	राहसीन	गाँव	जापदाद/ हांगा का विवरण	मुआवजे का विवरण	
				वार्षिक अदायगी लगान यो सूचि होगा	नकद मुआवजा
उदाया	गिरी	गाँव	1677 1	8.00 रुपये	1.00
					इनके 8.00 रुपये 1.00 - 72.00 - 00
					112.50 - 50
					38.50 - 00
					<u>158.05 80</u>
					(1) के 77.50 रुपये
					PROJECT MANAGER
					हिन्दुस्तान लिफ्ट लिमिटेड ( गाँव उदाया का उदाय ) गढ़ा रोड-प्लॉन्ट नाला पाठुली-पाठुली गाँव बागपुर पोस्ट-कोड - 223024
					<i>अपजिलाधारी 4-10-1971 चूप्याम हिन्दुस्तान लिफ्ट गाँव उदाया का उदाय पाठुली-पाठुली गाँव बागपुर</i>

मेरे द्वारा अपनी अदायगी पर खांडों में या घस्तग 2 अवाप्त किये जाते हैं या जब वृश्चिका मुआवजा

प्राचीन विद्या  
विजयनगर

उपलेख:- महसूत प्रभात  
विजयनगर ।

क्रमांक:- ५०६३३-२०-६८६/।

मापदण्ड:- १५-२-७७

विवरण:- यूंगी वा गोपी विकास विजयनगर के लोकों द्वारा उपलेख अस्ति।

३६३/१  
२७.१.१  
२५.१.२  
२६.१.२

महोदय,

केन्द्रीय भूमि वराहा वा अंधोनगर, १९७६ में अन्तर्राष्ट्रीय उत्तर-पश्चिम  
वर्ति विद्यालय विजयनगर छात्रों के द्वारा लिखा गया एक लिखा है। लिखा अंधोनगर  
विद्यालय विजयनगर विजयनगर के लोकों द्वारा लिखा गया है। भूमि वा  
वराहा वराहा कर लकड़ी बदामीयों को भूमि वा अंधोनगर वराहा विजयनगर के  
पश्चात् भूमि का लकड़ा संकेत लिखा विजयनगर वराहा विजयनगर वराहा है।

अब प्रथम यह लिखा विजयनगर वराहा विजयनगर के लोकों द्वारा लिखा है।  
२- राजस्व अंधोनगर, १९७६ में लिखा विजयनगर के लोकों द्वारा लिखा है।  
लिखा विजयनगर विजयनगर के लोकों द्वारा लिखा है।

३/१

छजल लिखा विजयनगर विजयनगर के लोकों द्वारा लिखा है।

भूमि विजयनगर भूमि विजयनगर, १९७६ में अन्तर्राष्ट्रीय उत्तर-पश्चिम  
वर्ति विद्यालय विजयनगर विजयनगर के लोकों द्वारा लिखा है। लिखा विजयनगर  
विजयनगर के लोकों द्वारा लिखा है। लिखा विजयनगर विजयनगर के लोकों  
द्वारा लिखा है। लिखा विजयनगर विजयनगर के लोकों द्वारा लिखा है।

विजयनगर विजयनगर के लोकों द्वारा लिखा है।

४/१

लिखा है।

१२३  
२८.२.८८

उपलेख:- विजयनगर विजयनगर के लोकों द्वारा लिखा है। लिखा है।

१. विजयनगर, विजयनगर विजयनगर, विजयनगर

२. विजयनगर

१२३  
२८.२.८८

V

APPENDIX-3

(HZ)

**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 1.31m<sup>3</sup>/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 Udalpur 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 1.31m<sup>3</sup>/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 2.62m<sup>3</sup>/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 1.31m<sup>3</sup>/day or 480m<sup>3</sup>/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

inside the project area. As per the report, the recharge measures for 41876m<sup>3</sup>/year quantity could be implemented. The total groundwater recharge obligation is 15560m<sup>3</sup>/year which comprises the quantities of (i) abstraction of groundwater 14600 i.e. (7300\*2) m<sup>3</sup>/year and (ii) abstraction of groundwater due to dewatering 960 i.e. (480\*2) m<sup>3</sup>/year. The above recharge measures of 41876m<sup>3</sup>/year are 5-6 times of 7780 m<sup>3</sup>/year of the abstracted quantity.

*ASG*  
We humbly request you to kindly consider our application and grant us the NOC for 1.31m<sup>3</sup>/day ground water abstraction by dewatering.

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 Limited, Maton Rock Phosphate Mines Chittorgarh Dist. Udaipur
Letter Reference No. and Date	HZL/Matton/CGRW/Intnrg/Env/WR/4-7542 14/7/2014
Subject	Application for grant of NOC to abstract 1.31 m <sup>3</sup> /day Water at Maton Teliwali, Chittorgarh Dist. Udaipur
Dated signatures of diarist/dispatcher (CGWB, WR, 6-A, Jhalana Doongri, Jaipur 302 004)	ASG
Remarks if any	Chit 15/7/14

Annexure 4

ANNEXURE 2

HINDUSTAN ZINC LIMITED  
Mason Rock Phosphate Mine  
Tehsil- Girwa, Distt. Udaipur- 313006 (Raj)  
Phone - 0294-2342093

January 10, 2011

To:

Executive Engineer  
Irrigation Department  
Udaipur (Raj)

Subject: NOC for construction of five Anicuts in respect of comply of EC condition.  
MoEF [Ref. F No J-11015/169/2009-IA/II (N) Dated 17.03.2010]

Sir

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

- Anicut No. 1 near village Kalarwas
- Anicut No.2 near village Parota
- Anicut No.3 near village Bielthri
- Anicut No.4 near village Kanpur
- Anicut No.5 near village Diunda

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

Thanking you

Yours truly  
(Hemant Sharma)

Mine Manager



AT 11/EX-5



Ref. HZL/Maton/RSPCB/2015-16/65

Date: 18.09.2015

10.

The SI-E 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, dt'd 08.09.2015.

Sir,

With reference to point no. 10 of above referred CTO dt'd. 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.

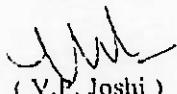
Further, HZL has entered into a tripartite agreement with Municipal Council Udaipur and Urban Improvement Trust Udaipur for laying of Sewage Trunk Line from Udaipur city to STP to divert sewage of city from entering into Ahar River and thereby avoiding pollution from entering into it. This 20 MLD STP 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 - Yashad Bhawan, Udaipur (Rajasthan) - 313004  
[www.hzlindia.com](http://www.hzlindia.com)  
CIN - L27204RJ1966PLC00120B

Thanking you.

Yours sincerely,



( V.P. Joshi )

G.M. & Unit Head **Unit Head**

Hindustan Zinc Ltd.

Malon 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)

ANNAEX-B



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

DL 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 20m<sup>3</sup>/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 200m<sup>3</sup>/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, 180m<sup>3</sup>/day of treated water for industrial activities and 20 m<sup>3</sup>/day of groundwater for domestic purposes. Accordingly a fresh application for grant of permission for 20 m<sup>3</sup>/day or 7300m<sup>3</sup>/year groundwater abstraction is submitted herewith.

Regd. Office: Yashad Bhawan, Udaipur (Rajasthan) - 313004  
Corporate Identity No. (CIN): L27204RJ1966PLC001208, Website: [www.hzlindia.com](http://www.hzlindia.com)

To optimise the groundwater resources, we engaged M/s Water Solutions, New Delhi to propose rainwater harvesting/recharge schemes, for 40m<sup>3</sup>/day or 14600m<sup>3</sup>/year, equivalent to 200% of the abstracted quantity. As per the report, recharge measures to the tune of 41876 m<sup>3</sup>/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 36345m<sup>3</sup>/year.

Thus the total groundwater recharge obligation is 15560m<sup>3</sup>/year which comprises the quantities of (i) abstraction of groundwater 14600 i.e. (7300\*2) m<sup>3</sup>/year and (ii) abstraction of groundwater due to dewatering 960 i.e. (480\*2) m<sup>3</sup>/year. The above recharge measures of 41876m<sup>3</sup>/year are 5-6 times of 7780 m<sup>3</sup>/year of the abstracted quantity.

We humbly request you to kindly consider our application and grant us the NOC for 20m<sup>3</sup>/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 Udaipur Dist. Udaipur
Letter Reference No. and Date	A2L/Matton (Envir) /metostay) 2014-15-43 14/7/14
Subject	Application for Grant of NOC, for abstraction 20m <sup>3</sup> /day - Village Maton Tchit Grewa Dist. Udaipur
Dated signatures of diari/udispatcher (CGWB, W.R.C. Jhalana Doongri, Jaipur 302 004)	
Remarks if any	Chet 16/7/14

**Annex-7**



Fig : Wet Drilling

AN/AS/6x-8

कार्यालय उप कम राजकाक, राजस्थान (उदयपुर)

कमाक - प. १) सर्व / उत्तरा / उत्तर / ८०५१५। दिनांक - १५.१२.८७।

माईन्स मेनेजर  
मृद्गुलान एवं लिमिटेड  
माईन माईन्स  
उदयपुर

निपत्र - 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. 6889) Near village Maton, Tehsil Girwa, Distt. Udaipur (Raj.)

प्रधान - अधिकारी प्रधान पन कमाक निल. UZL/Maton/env/097 १३.११.८८

महिना,

अप्राप्ति विषयात्मक प्रासादिक प्रश्नों पर कम में लिखा जाये हैं। श्री ३०१६.११.८८  
प्रधान ०६/१९८९ के कार एवं चफर बोर्डक १० कि.मी. लाई गी विशेषज्ञ विभाग  
माईन माईन्स लाइस कारिंगर लाइस, लिंगेन रिजेंस विभाग नहीं है।

प्रधान  
अधिकारी  
अधिकारी (व्यापक)

कार्यालय उप वन संरक्षक, उदयपुर (उत्तर)

क्रमांक-प. ( ) रावें/उवस/उत्तर/ 6095

दिनांक : 14-12-09

माईन्स मैनेजर  
हिन्दूस्तान जिंक लिमिटेड  
मटून माईन्स  
उदयपुर

विषय :- Authentication 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 फ्लोरा एवं फौना की सूचीयां आवश्यक  
कार्यवाही हेतु संलग्न प्रस्तुत है।

संलग्न:- उपरोक्तानुसार।

भवदीय,  
उव वन संरक्षक  
उदयपुर (उत्तर)



**INDIA LIMITED**

Report No. 20211011001

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

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



www.wolkem.com

Date: - 14.10.2021

### TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer

: HINDUSTAN ZINC LIMITED  
Rockphosphate Maton Mine  
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
PO No. 2016.1201/ 5100019025 Date 13.01.2016  
Amendment Dated: - 31.12.2020  
08.10.2021/10:40AM to 09.10.2021/10:45AM

2. Purchase order Number

3. Date & Time of Monitoring

4. Sample received on

5. Period of Analysis

6. Name of Location

7. Method of Sampling

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	28.9	°C
2.	Relative Humidity	46	%

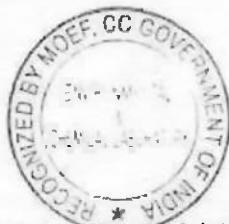
### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.58	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.04	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.324	-

Authorized Signatory

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

Tested by  
*Leena*.  
(Leena Sharma)  
Asst. Chemist



#### Note

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Page 1 of 1  
End of Report



INDIA LIMITED

Report No. 20211008001

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

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

www.wolkem.com

Date: - 14.10.2021



### TEST REPORT (Ambient Air Quality Monitoring)

## 1. Name of Customer

: HINDUSTAN ZINC LIMITED  
Rockphosphate Maton Mine  
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
PO No. 2016.1201/ 5100019025 Date 13.01.2016  
Amendment Dated: - 31.12.2020  
07.10.2021/10:30AM to 08.10.2021/10:25AM

## 2. Purchase order Number

:

## 3. Date &amp; Time of Monitoring

:

## 4. Sample received on

:

## 5. Period of Analysis

:

## 6. Name of Location

:

## 7. Method of Sampling

:

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	32.8	°C
2.	Relative Humidity	47	%

## Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.79	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.87	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.342	-

Authorized Signatory

Tested by

(Leena Sharma)  
Asst. Chemist



(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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**INDIA LIMITED**

Report No. 20211007001

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

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

www.wolkem.com

Date: - 14.10.2021



### 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 Dated: - 31.12.2020
3. Date & Time of Monitoring	:	06.10.2021/10:20AM to 07.10.2021/10:15AM
4. Sample received on	:	07.10.2021
5. Period of Analysis	:	07.10.2021 to 14.10.2021
6. Name of Location	:	Lakadwas Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	28.6	°C
2.	Relative Humidity	43	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.70	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	7.15	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.376	-

Tested by

*Leena*  
(Leena Sharma)  
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  
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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- U29209RJ1971PLC001379



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INDIA LIMITED

Report No. 20211006001

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

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



www.wolkem.com

Date: - 14.10.2021

## TEST REPORT

(Ambient Air Quality Monitoring)

## 1. Name of Customer

: HINDUSTAN ZINC LIMITED  
 Rockphosphate Maton Mine  
 P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
 PO No. 2016.1201/ 5100019025 Date 13.01.2016  
 Amendment Dated: - 31.12.2020

## 2. Purchase order Number

: 05.10.2021/10:00AM to 06.10.2021/09:50AM

## 3. Date &amp; Time of Monitoring

: 06.10.2021

## 4. Sample received on

: 06.10.2021 to 14.10.2021

## 5. Period of Analysis

: Maton Village

## 6. Name of Location

: Instrument Manual

## 7. Method of Sampling

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	30	°C
2.	Relative Humidity	47.2	%

## Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.63	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	7.34	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.396	-

Authorized Signatory

Tested by

*Leena*  
 (Leena Sharma)  
 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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INDIA LIMITED

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

Report No. 20211005001

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



www.wolkem.com

Date: - 14.10.2021

## 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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	04.10.2021/10:10AM to 05.10.2021/09:55AM
5. Period of Analysis	:	05.10.2021 to 14.10.2021
6. Name of Location	:	Kharwaria Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	29.3	°C
2.	Relative Humidity	49	%

## Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.61	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.61	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.404	-

Tested by

  
 (Leena Sharma)  
 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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End of Report

## Registered &amp; 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

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**INDIA LIMITED**

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

www.wolkem.com

Report No. 20211025001

Date: - 28.10.2021

**TEST REPORT**  
(Ambient Air Quality Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	
3. Date & Time of Monitoring	:	22.10.2021/09:50AM to 23.10.2021/09:40AM
4. Sample received on	:	25.10.2021
5. Period of Analysis	:	25.10.2021 to 28.10.2021
6. Name of Location	:	Kharwaria Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	26.4	°C
2	Relative Humidity	42.2	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1	CO	mg/m <sup>3</sup>	By CO meter	0.56	04
2	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.04	-
3	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.324	-

Tested by

*Leena*  
(Leena Sharma)  
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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Laboratory : E. 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)



INDIA LIMITED

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[www.wolkem.com](http://www.wolkem.com)

Report No. 20211022001

Date: - 28.10.2021

### 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 Dated: - 31.12.2020
3. Date & Time of Monitoring	:	21.10.2021/10:15AM to 22.10.2021/10:25AM
4. Sample received on	:	22.10.2021
5. Period of Analysis	:	22.10.2021 to 28.10.2021
6. Name of Location	:	Maton Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1	Ambient Temperature	26.4	°C
2	Relative Humidity	42.8	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.60	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.87	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.342	-

Tested by

Leena Sharma  
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. 20211021001

Date: - 28.10.2021

### 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 Dated: - 31.12.2020
3. Date & Time of Monitoring	:	20.10.2021/09:45AM to 21.10.2021/09:40AM
4. Sample received on	:	21.10.2021
5. Period of Analysis	:	21.10.2021 to 28.10.2021
6. Name of Location	:	Lakadwas Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Relative Humidity	25.8	%
2.	Ambient Temperature	42.1	°C

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1	CO	mg/m <sup>3</sup>	By CO meter	0.67	04
2	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO WIL/AIR/TP/ 23/25	7.15	-
3	PO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO WIL/AIR/TP/ 24/25	0.376	-

Tested by

(Leena Sharma)  
Asst. Chemist

Authorized Signatory

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

#### Note

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Report No. 20211020001

Date: - 28.10.2021

**TEST REPORT**

(Ambient Air Quality Monitoring)

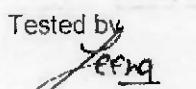
1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number	:	PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
3. Date & Time of Monitoring	:	19.10.2021/09:50AM to 20.10.2021/09:55AM
4. Sample received on	:	20.10.2021
5. Period of Analysis	:	20.10.2021 to 28.10.2021
6. Name of Location	:	Umarda Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	26.3	°C
2.	Relative Humidity	41.6	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.83	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO WIL/AIR/TP/ 23/25	7.34	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.396	-

Tested by

  
 (Leena Sharma)  
 Asst. Chemist

Authorized Signatory

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

**Note**

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Laboratory : E-102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

INDIA LIMITED

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

Report No. 20211019001



www.wolkem.com

Date: - 28.10.2021

### TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	PO No. 2016.1201/ 5100019025 Date 13.01.2016
3. Date & Time of Monitoring	:	18.10.2021/09:55AM to 19.10.2021/09:45AM
4. Sample received on	:	19.10.2021
5. Period of Analysis	:	19.10.2021 to 28.10.2021
6. Name of Location	:	Mine Lease area
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	25.6	°C
2.	Relative Humidity	42	%

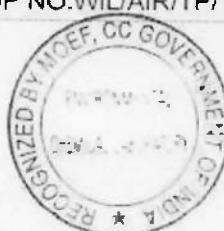
### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (GPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.53	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.61	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.404	-

Tested by

*[Signature]*  
(Leena Sharma)  
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. 20211109001

Date: - 19.11.2021

**TEST REPORT**

(Ambient Air Quality Monitoring)

<b>1. Name of Customer</b>	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
<b>2. Purchase order Number</b>	:	PO No. 2016.1201/ 5100019025 Date 13.01.2016
<b>3. Date &amp; Time of Monitoring</b>	:	Amendment Dated: - 31.12.2020
<b>4. Sample received on</b>	:	08.11.2021/10:20AM to 09.11.2021/10:05AM
<b>5. Period of Analysis</b>	:	09.11.2021 to 19.11.2021
<b>6. Name of Location</b>	:	Kharwaria Village
<b>7. Method of Sampling</b>	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	26.3	°C
2.	Relative Humidity	38	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.56	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.61	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.334	-

Tested by

  
 (Leena Sharma)  
 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. 20211110001

Date: - 19.11.2021

**TEST REPORT**
**(Ambient Air Quality Monitoring)**

<b>1. Name of Customer</b>	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
<b>2. Purchase order Number</b>	:	PO No. 2016.1201/ 5100019025 Date 13.01.2016
<b>3. Date &amp; Time of Monitoring</b>	:	Amendment Dated: - 31.12.2020
<b>4. Sample received on</b>	:	09.11.2021/11:15AM to 10.11.2021/11:00AM
<b>5. Period of Analysis</b>	:	10.11.2021
<b>6. Name of Location</b>	:	10.11.2021 to 19.11.2021
<b>7. Method of Sampling</b>	:	Maton Village Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	25	°C
2.	Relative Humidity	36	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov, 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.60	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	6.70	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.386	-

Tested by

  
 (Leena Sharma)  
 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. 20211111001

Date: - 19.11.2021

**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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	10.11.2021/11:40AM to 11.11.2021/11:35AM
5. Period of Analysis	:	11.11.2021 to 19.11.2021
6. Name of Location	:	Lakadwas Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	26	°C
2.	Relative Humidity	31	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.67	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO WIL/AIR/TP/ 23/25	4.59	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.347	-

Tested by

  
 (Lesha Sharma)  
 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. 20211112001

Date: - 19.11.2021

**TEST REPORT**

(Ambient Air Quality Monitoring)

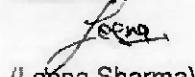
<b>1. Name of Customer</b>	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016
<b>2. Purchase order Number</b>	:	Amendment Dated: - 31.12.2020
<b>3. Date &amp; Time of Monitoring</b>	:	11.11.2021/12:30PM to 12.11.2021/12:15PM
<b>4. Sample received on</b>	:	12.11.2021
<b>5. Period of Analysis</b>	:	12.11.2021 to 19.11.2021
<b>6. Name of Location</b>	:	Umarda Village
<b>7. Method of Sampling</b>	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	27.5	°C
2.	Relative Humidity	30	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.71	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.01	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.366	-

Tested by

  
 (Leena Sharma)  
 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 &amp; 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.  
 30034-A111

Our Commitment.. Your Trust

Report No. 20211115001

Date: - 19.11.2021

**TEST REPORT**

(Ambient Air Quality Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	15.11.2021
3. Date & Time of Monitoring	:	12.11.2021/12:55PM to 13.11.2021/12:40PM
4. Sample received on	:	15.11.2021
5. Period of Analysis	:	15.11.2021 to 19.11.2021
6. Name of Location	:	Mine Lease area
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1437	Minutes
2.	Average Flow rate for PM <sub>10</sub>	1.205	M <sup>3</sup> / Min
3.	Ambient Temperature	30	°C
4.	Relative Humidity	67	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.54	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO WIL/AIR/TP/ 23/26	4.16	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO WIL/AIR/TP/ 24/25	0.345	-

Tested by

 (Leena Sharma)  
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. 20211123001

Date: - 03.12.2021

**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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	22.11.2021/10:05AM to 23.11.2021/09:50AM
5. Period of Analysis	:	23.11.2021
6. Name of Location	:	23.11.2021 to 03.12.2021
7. Method of Sampling	:	Mine Lease area Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	26.8	°C
2.	Relative Humidity	35	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.59	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.61	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.334	-

Tested by

  
 (Leena Sharma)  
 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. 20211124001

Date: - 03.12.2021

**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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	23.11.2021/09:40AM to 24.11.2021/09:30AM
5. Period of Analysis	:	24.11.2021 to 03.12.2021
6. Name of Location	:	Umarda Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	27.1	°C
2.	Relative Humidity	32	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 16 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.77	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO WIL/AIR/TP/ 23/25	6.70	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.386	-

Tested by

(Leena Sharma)  
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. 20211125001

Date: - 03.12.2021

**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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020 24.11.2021/10:30AM to 25.11.2021/10:20AM
4. Sample received on	:	25.11.2021
5. Period of Analysis	:	25.11.2021 to 03.12.2021
6. Name of Location	:	Lakadwas Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	26.5	°C
2.	Relative Humidity	36	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.74	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.59	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO WIL/AIR/TP/ 24/25	0.347	-

Authorized Signatory

Tested by

 (Leena Sharma)  
 Asst. Chemist

(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. 20211126001

Date: - 03.12.2021

**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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	25.11.2021/11:25AM to 26.11.2021/11:15AM
5. Period of Analysis	:	26.11.2021 to 03.12.2021
6. Name of Location	:	Maton Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	27.6	°C
2.	Relative Humidity	30	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.64	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.01	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO WIL/AIR/TP/ 24/25	0.366	-

Tested by,

  
 (Leena Sharma)  
 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. 20211129001

Date: - 03.12.2021

**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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	26.11.2021/12:00PM to 27.11.2021/11:58AM
5. Period of Analysis	:	29.11.2021
6. Name of Location	:	29.11.2021 to 03.12.2021
7. Method of Sampling	:	Kharwaria Village
		Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	28	°C
2.	Relative Humidity	29	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.60	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.16	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.345	-

Tested by,

(Leena Sharma)  
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





Date: 03.12.2021

### TEST REPORT (Noise Level Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	
3. Date of Monitoring	:	27.11.2021
4. Test Methods Reference	:	IS: 9989—1981 (Reaffirmed 2008)
5. Name of location	:	Near Udaisagar

S. No.	Time hours	Sound Pressure Level dB(A)			<b>Leq</b>
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	35.1	38.2	32.2	38.3
2.	23-24PM	34.1	36.2	32.5	36.2
3.	0-1 AM	33.8	35.4	31.2	35.5
4.	1-2 AM	31.9	35.2	30.2	35.3
5.	2-3 AM	31.9	33.6	30.2	33.6
6.	3-4 AM	32.5	36.2	30.5	36.3
7.	4-5 AM	32.6	35.2	30.5	35.3
8.	5-6 AM	35.0	36.6	33.5	36.6
<b>Leq Night (Leq = L<sub>50</sub> + [(L<sub>10</sub> - L<sub>90</sub>)<sup>2</sup>/60])</b>					35.9
<b>Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10(Lnight + 10)/10)]}</b>					
<b>Ldn</b>					53.4

**CPCB Norms**

S. No	Category of area	Day Time dB		Night Time dB
		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

(Leena Sharma)

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: 03.12.2021

## 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
3. Date of Monitoring	:	Amendment Dated: - 31.12.202
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
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	44.8	48.2	41.5	48.4
2.	23-24PM	42.9	45.2	41.2	45.2
3.	0-1 AM	41.9	45.2	34.5	46.1
4.	1-2 AM	35.8	38.2	34.2	38.2
5.	2-3 AM	35.6	38.2	34.1	38.2
6.	3-4 AM	33.4	35.2	30.6	35.3
7.	4-5 AM	32.4	36.2	30.2	36.3
8.	5-6 AM	34.5	36.2	32.6	36.3
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> - L <sub>90</sub> ) <sup>2</sup> /60])					40.5
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10Lnight + 10) 10]}					57.6

### CPCB Norms

S. No	Category of area	Day Time dB		Night Time dB
		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

(Leena Sharma)  
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: 03.12.2021

**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 Dated: - 31.12.2020
3. Date of Monitoring	:	25.11.2021
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
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	36.6	38.6	34.6	38.7
2.	23-24PM	35.6	36.5	34.5	36.5
3.	0-1 AM	35.9	38.2	34.5	38.2
4.	1-2 AM	34.7	36.2	32.6	36.3
5.	2-3 AM	33.6	35.2	31.2	35.3
6.	3-4 AM	33.5	36.2	31.5	36.3
7.	4-5 AM	35.1	36.5	34.0	36.5
8.	5-6 AM	35.6	37.2	34.2	37.2
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> - L <sub>90</sub> ) <sup>2</sup> /60])					36.9
Day-Night Sound Level (L <sub>dn</sub> ) = 10 log {1/24 [16 (10Lday/10) + 8 (10(Lnight + 10)/10)]}					56.8

CPCB Norms

S. No	Category of area	Day Time dB		Night Time dB
		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

(Leena Sharma)  
Asst. Chemist

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: 03.12.2021

## 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 Dated: - 31.12.2020

3. Date of Monitoring

: 24.11.2021

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
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	35.8	37.2	34.5	37.2
2.	23-24PM	35.3	37.2	31.6	37.4
3.	0-1 AM	33.6	36.2	31.5	36.3
4.	1-2 AM	34.8	36.3	31.5	36.5
5.	2-3 AM	34.0	35.6	32.6	35.6
6.	3-4 AM	33.4	35.2	32.5	35.2
7.	4-5 AM	35.2	36.6	33.6	36.6
8.	5-6 AM	34.5	36.5	31.5	36.6
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> - L <sub>90</sub> ) <sup>2</sup> / 60])					36.4
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10L <sub>day</sub> /10) + 8 (10(L <sub>night</sub> - 10)/10)]}					
Ldn					51.6

### CPCB Norms

S. No	Category of area	Day Time dB		Night Time dB
		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

*[Signature]*  
(Leena Sharma)

Asst. Chemist

Note

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Authorized Signatory

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

Page 2 of 2  
End of Report





INDIA LIMITED

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

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



www.wolkem.com

Date: 03.12.2021

## 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
3. Date of Monitoring	:	23.11.2021
4. Test Methods Reference	:	IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location	:	Umarda village

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	34.5	38.2	30.2	38.5
2.	23-24PM	36.1	39.4	33.2	39.5
3.	0-1 AM	33.9	36.5	31.8	36.6
4.	1-2 AM	33.3	35.3	32.0	35.3
5.	2-3 AM	32.4	35.2	30.6	35.3
6.	3-4 AM	30.4	32.6	27.2	32.8
7.	4-5 AM	32.4	36.5	28.5	36.7
8.	5-6 AM	36.2	38.2	35.4	38.2
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> - L <sub>90</sub> ) <sup>2</sup> /60])					36.6
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday 10) + 8 (10Lnight + 10) <sup>2</sup> /10])}					50.5

## CPCB Norms

S. No	Category of area	Day Time dB	Night Time dB
		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

(Leena Sharma)  
Asst. Chemist

Authorized Signatory

(Dr. S. K. Yadav)

Chief Manager (Environment)  
Environmental & Chemical Laboratory

Wolkem India Limited

UDAIPUR (Rajasthan)

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Page 2 of 2  
End of Report



Date: 03.12.2021

### TEST REPORT (Noise Level Monitoring)

1. Name of Customer : HINDUSTAN ZINC LIMITED  
Rockphosphate Maton Mine  
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
PO No. 2016.1201/ 5100019025 Date 13.01.2016  
Amendment Dated: - 31.12.2020
2. Purchase order Number : 22.11.2021
3. Date of Monitoring : IS: 9989– 1981 (Reaffirmed 2008)
4. Test Methods Reference : Mine Lease Area
5. Name of location :

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	43.8	45.6	42.3	45.6
2.	23-24PM	42.5	45.2	39.8	45.3
3.	0-1 AM	37.5	39.5	35.6	39.6
4.	1-2 AM	36.2	38.0	34.5	38.1
5.	2-3 AM	36.2	37.6	34.1	37.7
6.	3-4 AM	35.0	36.6	32.5	36.7
7.	4-5 AM	34.4	36.6	30.6	36.8
8.	5-6 AM	35.6	37.6	33.2	37.7
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> – L <sub>90</sub> ) <sup>2</sup> /60])					39.7
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10Lnigh + 10)/10])}					
Ldn					55.4

**CPCB Norms**

S. No	Category of area	Day Time dB		Night Time dB
		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

 (Leena Sharma)  
Asst. Chemist

## Note

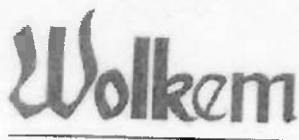
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Authorized Signatory

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

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

 Page 2 of 2  
 End of Report

**INDIA LIMITED**

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

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



www.wolkem.com

Report No. 20211122001

Date: - 03.12.2021

### 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 Dated - 31.12.2020
3. Date & Time of Sampling : 22.11.2021/12:50PM
4. Sample received on : 22.11.2021
5. Period of Analysis : 22.11.2021to 03.12.2021
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	26
2	Relative Humidity	%	57

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	IS:3025-2012(Pt 7&8) Reaff.2015	-	Agreeable	Agreeable	Agreeable

Tested By

(Priyanka Yadav)  
Asst.Chemist

Authorized Signatory

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

Note

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Page 1 of 3

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



OSAS  
Certificate No.  
32024-A111

Our Commitment.. Your Trust

Report No. 20211122001

Date: - 03.12.2021

**TEST REPORT**

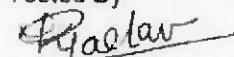
(Water/Waste water)

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 Dated - 31.12.2020  
 3. Date & Time of Sampling : 22.11.2021/12:50PM  
 4. Sample received on : 22.11.2021  
 5. Period of Analysis : 22.11.2021 to 03.12.2021  
 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 <sup>-</sup>	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	0.16	-	-
22.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	IS:3025(Pt24)1986, Reaff.2019	mg/L	143.7	200	400
23.	Nitrate as NO <sub>3</sub>	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	15.6	45	No Relaxation
24.	Zinc	IS:3025(Pt49)1994 RA 2019(a) AAS	mg/L	0.19	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 <sup>rd</sup> Edition,2017 Part 3500-k (3-89 to 3-90)	mg/L	6.82	-	-
27.	Sodium as Na	APHA 23 <sup>rd</sup> Edition 2017 Part 3500-Na(3-99 to 3-90)	mg/L	69.2	-	-
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(Pt53)2003, Reaff.2019	mg/L	0.15	0.3	No Relaxation

BDL Below Detection Limit

Tested By

  
 (Priyanka Yadav)  
 Asst.Chemist

Authorized Signatory

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

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 Page 3 of 3  
 End of Report

Report No. 20211122002

Date: - 03.12.2021

**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 13.01.2016 AMENDMENT Dated - 31.12.2020
3. Date & Time of Sampling	:	22.11.2021/12:55PM
4. Sample received on	:	22.11.2021
5. Period of Analysis	:	22.11.2021 to 03.12.2021
6. Name of sample & Location	:	Maton village (Ground water)
7. Method of Sampling	:	IS: 3025 (Pt 1) 1987

S. No.	Environment Condition	Test Method	Unit	Results		
				Acceptable	Permissible	
1.	Ambient Temperature	IS:3025(Pt11)1983, Reaff 2017	°C	25.6		
2.	Relative Humidity		%	58		
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
1	pH (at 25°C)	IS:3025(Pt11)1983, Reaff 2017	-	7.17	6.5 to 8.5	No Relaxation
2	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	2.097	-	-
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	1382	500	2000
7	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	10	-	-
8.	Total Hardness as CaCO <sub>3</sub>	IS:3025(Pt21)2009 Reaff.2019	mg/L	528	200	800
9.	Calcium as Ca <sup>2+</sup>	IS:3025(Pt40)1991, Reaff.2019	mg/L	108.8	75	200
10.	Magnesium as Mg <sup>2+</sup>	IS:3025(Pt46)1994 Reaff.2019	mg/L	61.4	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	416	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(<4)	0.5	No Relaxation
14.	Silica as SiO <sub>2</sub>	APHA 23 <sup>rd</sup> Edition2017, 4530-SiO <sub>2</sub> Page 4-175 to 177	mg/L	6.71	-	-
15.	Dissolve Oxygen	IS 3025(Pt38)1989, Reaff.2019	mg/L	6.1	-	-
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 2 of 3

[Continue](#)

Report No. 20211122003

Date: - 03.12.2021

### TEST REPORT

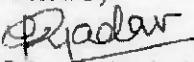
(Water/Waste water)

- 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 22.11.2021/01:05PM
- 4. Sample received on** : 22.11.2021
- 5. Period of Analysis** : 22.11.2021to 03.12.2021
- 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	25.3
2	Relative Humidity	%	58

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	IS:3025-2012(Pt 7&8) Reaff.2015	-	Agreeable	Agreeable	Agreeable

Tested By

  
 (Priyanka Yadav)  
 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 3  
 End of Report.

Registered &amp; Corporate Office :

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 Phone : +91 294 2494600 - 02 E-mail : [info.wcs@wolkem.com](mailto:info.wcs@wolkem.com)  
 CIN- U29299RJ1971PLC001379

 OHSAS  
 Certificate No.  
 32024-A111

Our Commitment.. Your Trust

Report No. 20211122003

Date: - 03.12.2021

**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 Dated: - 31.12.2020  
 3. Date & Time of Sampling : 22.11.2021/01:05PM  
 4. Sample received on : 22.11.2021  
 5. Period of Analysis : 22.11.2021 to 03.12.2021  
 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)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	1.03	-
22.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	IS:3025(Pt24)1986, Reaff 2019	mg/L	220.8	200      400
23.	Nitrate as NO <sub>3</sub> <sup>-</sup>	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	14.7	45      No Relaxation
24.	Zinc	IS:3025(Pt49)1994 RA 2019(a) AAS	mg/L	0.80	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 <sup>rd</sup> Edition 2017 Part 3500-k (3-89 to 3-90)	mg/L	5.4	-
27.	Sodium as Na	APHA 23 <sup>rd</sup> Edition 2017 Part 3500-Na(3-99 to 3-90)	mg/L	42.2	-
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(Pt63)2003, Reaff.2019	mg/L	0.14	0.3      No Relaxation

BDL-Below Detection Limit

Tested By

  
(Priyanka Yadav)  
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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Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)



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INDIA LIMITED

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Report No. 20211122004

Date: - 03.12.2021

## 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 Dated: - 31.12.2020

3. Date & Time of Sampling

: 22.11.2021/01:15PM

4. Sample received on

: 22.11.2021

5. Period of Analysis

: 22.11.2021 to 03.12.2021

6. Name of sample & Location

: Umrada village (Ground water)

7. Method of Sampling

: IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1	Ambient Temperature	IS:3025(Pt11)1983, Reaff.2017	°C	25.6	-	No Relaxation
2	Relative Humidity		%	58	-	-
1	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.05	6.5 to 8.5	-
2	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	1.281	-	-
3	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5	5	15
4	Odour	IS:3025 (Part- 5)1983 Reaff.2018	-	Agreeable	Agreeable	Agreeable
6	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	850	500	2000
7	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	BDL(<5)	-	-
8	Total Hardness as CaCO <sub>3</sub>	IS:3025(Pt21)2009 Reaff.2019	mg/L	516	200	600
9	Calcium as Ca <sup>2+</sup>	IS:3025(Pt40)1991, Reaff.2019	mg/L	105.6	75	200
10	Magnesium as Mg <sup>2+</sup>	IS:3025(Pt46)1994 Reaff.2019	mg/L	60.5	30	100
11	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	340	200	600
12	Chlorides as Cl <sup>-</sup>	IS:3025(Pt32)1988, Reaff.2019	mg/L	104	250	1000
13	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14	Silica as SiO <sub>2</sub>	APHA 23 <sup>rd</sup> Edition 2017, 4500-SI02 Page 4-175 to 177	mg/L	7.2	-	-
15	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	5.9	-	-
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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CIN- U29299RJ1971PLC001379



IAS-ANZ  
Certificate No. 3224-A/11  
OHSAS  
Chemical & Biological  
TC - 5841

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Report No. 20211122005

Date: - 03.12.2021

### 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 Dated: - 31.12.2020
3. Date & Time of Sampling : 22.11.2021/01:20PM
4. Sample received on : 22.11.2021
5. Period of Analysis : 22.11.2021to 03.12.2021
6. Name of sample & Location : Kanpur village (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition		Test Method	Unit	Results	
					°C	%
S. No.	Parameters		Test Method	Unit	Results	Limits :- IS-10500:2012
					Acceptable	Permissible
1.	Taste		IS 3025-2012(Pt 7&8) Reaff 2015	-	Agreeable	Agreeable
					Agreeable	Agreeable

Tested By

  
 (Priyanka Yadav)  
 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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INDIA LIMITED

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Report No. 20211122005

Date: - 03.12.2021

## 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 Dated: - 31.12.2020

**3. Date & Time of Sampling**

: 22.11.2021/01:20PM

**4. Sample received on**

: 22.11.2021

**5. Period of Analysis**

: 22.11.2021to 03.12.2021

**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	BDL(<0.1)	0.05	1.5
20	Fluoride as F <sup>-</sup>	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	0.20	-	-
22	Sulphate as SO <sub>4</sub> <sup>2-</sup>	IS 3025(Pt24)1986, Reaff.2019	mg/L	160.4	200	400
23	Nitrate as NO <sub>3</sub> <sup>-</sup>	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	15.9	45	No Relaxation
24.	Zinc	IS 3025(P48)1994 RA 2019(a) AAS	mg/L	0.85	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 <sup>rd</sup> Edition 2017 Part 3500-k (3-89 to 3-90)	mg/L	4.8	-	-
27.	Sodium as Na	APHA 23 <sup>rd</sup> Edition 2017 Part 3500-Na(3-99 to 3-90)	mg/L	23.2	-	-
28	Manganese as Mn	IS 3025 (P-59) 2006 Reaff.2017 IAAS	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

(Priyanka Yadav)  
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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CIN - U29299RJ1971PLC001379



Certificate No Chemical & Biological  
TC - 5941

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### TEST REPORT

(Water/Waste water)

<b>1. Name of Customer</b>	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
<b>2. Purchase order Number</b>	:	PO No. 2016 1201/ 5100019025 Date 13.01.2016 AMENDMENT Dated: - 31.12.2020
<b>3. Date &amp; Time of Sampling</b>	:	22.11.2021/01.30PM
<b>4. Sample received on</b>	:	22.11.2021
<b>5. Period of Analysis</b>	:	22.11.2021to 03.12.2021
<b>6. Name of sample &amp; Location</b>	:	Nakoli village (Ground water)
<b>7. Method of Sampling</b>	:	IS: 3025 (Pt 1) 1987

S. No	Environment Condition		Unit	Results		
1	Ambient Temperature		°C	26		
2	Relative Humidity		%	58		
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	6.88	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS.3025-1964(Pt14) Reaff.2019	ms	1.129	-	-
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	788	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff 2017	mg/L	BDL(<5)	-	-
8.	Total Hardness as CaCO <sub>3</sub>	IS.3025(Pt21)2009 Reaff 2019	mg/L	352	200	600
9.	Calcium as Ca <sup>2+</sup>	IS:3025(Pt40)1991, Reaff.2019	mg/L	92.8	75	200
10.	Magnesium as Mg <sup>2+</sup>	IS:3025(Pt46)1994 Reaff.2019	mg/L	28.8	30	100
11.	Alkalinity	IS.3025(Pt23)1986, Reaff.2019	mg/L	280	200	600
12.	Chlorides as Cl <sup>-</sup>	IS:3025(Pt32)1988, Reaff 2019	mg/L	222	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff 2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO <sub>2</sub>	APHA 23 <sup>rd</sup> Edition2017, 4500-SiO <sub>2</sub> Page 4-175 to 177	mg/L	6.57	-	-
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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Report No. 20211122007

Date: - 03.12.2021

**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 Dated: - 31.12.2020
3. Date & Time of Sampling : 22.11.2021/01:35PM
4. Sample received on : 22.11.2021
5. Period of Analysis : 22.11.2021to 03.12.2021
6. Name of sample & Location : Mine Lease Area (Ground water)
7. Method of Sampling : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Test Method	Unit	Results	
				Unit	Results
1.	Ambient Temperature		°C		26.2
2.	Relative Humidity		%		58
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012
1.	Taste	IS:3025-2012(Pt 7&8) Reaff 2015	-	Agreeable	Acceptable      Permissible

Tested By

  
 (Priyanka Yadav)  
 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**

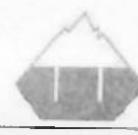
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Report No. 20211122007

Date: - 03.12.2021

## 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 Dated - 31.12.2020
3. Date & Time of Sampling : 22.11.2021/01:35PM
4. Sample received on : 22.11.2021
5. Period of Analysis : 22.11.2021 to 03.12.2021
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(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 <sup>-</sup>	IS-3025(Pt60)2008 Reaff 2019	mg/L	0.20	1.0	1.5
21	Phosphate	IS:3025 1988(Pt31) Reprnt & Reaff 2019	mg/L	0.12	-	-
22	Sulphate as SO <sub>4</sub> <sup>2-</sup>	IS-3025(Pt24)1986, Reaff.2019	mg/L	20.4	200	400
23	Nitrate as NO <sub>3</sub> <sup>-</sup>	IS.3025(Pt34-3-B)1988 Reaff 2019	mg/L	5.9	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.22	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 <sup>rd</sup> Edition,2017 Part 3500-k (3-89 to 3-90)	mg/L	4.12	-	-
27.	Sodium as Na	APHA 23 <sup>rd</sup> Edition,2017 Part 3500-Na(3.99 to 3.90)	mg/L	54.7	-	-
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	0.11	0.3	No Relaxation

BDL Below Detection Limit

Tested By

(Priyanka Yadav)  
Asst.Chemist

Authorized Signatory

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

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CIN- U29299RJ1971PLC001379



Certified No:  
32224-A11

Chemical & Biological  
TC - 6944

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Report No. 20211122008

Date: - 03.12.2021

**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 Dated: - 31.12.2020
3. Date & Time of Sampling : 22.11.2021/01:45PM
4. Sample received on : 22.11.2021
5. Period of Analysis : 22.11.2021to 03.12.2021
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	26.3
2	Relative Humidity	%	57

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.2019	ms	1.587	-	-
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	1034	500	2000
7.	Total Suspended Solid	IS 3025(Pt17)1984, Reaff 2017	mg/L	10	-	-
8.	Total Hardness as CaCO <sub>3</sub>	IS:3025(Pt21)2009 Reaff 2019	mg/L	408	200	600
9.	Calcium as Ca <sup>2+</sup>	IS:3025(Pt40)1991, Reaff 2019	mg/L	91.2	75	200
10.	Magnesium as Mg <sup>2+</sup>	IS:3025(Pt46)1994 Reaff.2019	mg/L	43.2	30	100
11.	Alkalinity	IS.3025(Pt23)1986, Reaff.2019	mg/L	276	200	600
12.	Chlorides as Cl <sup>-</sup>	IS:3025(Pt32)1988, Reaff 2019	mg/L	290	250	1000
13.	Oil & Grease	IS.3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO <sub>2</sub>	APHA 23 <sup>rd</sup> Edition2017, 4500-SiO <sub>2</sub> Page 4-175 to 177	mg/L	7.67	-	-
15.	Dissolve Oxygen	IS.3025(Pt38)1989, Reaff 2019	mg/L	5.9	-	-
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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CIN- U29299RJ1971PLC001379

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Certificate No. Chemical & Biological  
3224 A111 TC 5841

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Report No. 20211122009

Date: - 03.12.2021

### 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 Dated: - 31.12.2020
3. Date & Time of Sampling : 22.11.2021/01:55PM
4. Sample received on : 22.11.2021
5. Period of Analysis : 22.11.2021 to 03.12.2021
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	26.3	
2.	Relative Humidity	%	59	
S. No.	Parameters	Test Method	Unit	Results
1.	Conductivity (at 25 °C)	IS:3025-1964(Pt14) Reaff.2019	ms	1.684
2.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<5
3.	Odour	IS:3025 (Part- 5)198 Reaff.2018	-	Agreeable
4.	Taste	APHA 23 <sup>rd</sup> Edition 2017	-	Agreeable
5.	Chlorides as Cl <sup>-</sup>	IS:3025(Pt32)1988 Reaff.2019	mg/L	268
6.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)
7.	Silica as SiO <sub>2</sub>	APHA 23 <sup>rd</sup> Edition 2017, 4500-SiO <sub>2</sub> Page 4-175 to 177	mg/L	8.5
8.	Dissolve Oxygen	IS:3025(Pt38)1989 Reaff.2019	mg/L	6.6
9.	Residual Chlorine	IS:3025(Pt26)1980 Reaff.2019	mg/L	BDL(<0.01)
10.	Chemical Oxygen Demand	IS:3025(Pt58)2006 Reaff.2017	mg/L	8.2
11.	Copper as Cu	IS:3025(Pt42)1992, Reaff.2019	mg/L	BDL(<0.1)
12.	Fluoride as F <sup>-</sup>	IS:3025(Pt60)2008 Reaff.2019	mg/L	0.70
13.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	IS:3025(Pt24)1986, Reaff.2019	mg/L	245.8
14.	Zinc	IS:3025(P49)1994 RA 2019(a) AAS	mg/L	1.57
15.	Lead	IS:3025(P47)1994 RA 2019(a) AAS	mg/L	BDL(<0.01)
16.	Potassium as K	APHA 23 <sup>rd</sup> Edition 2017 Part 3500-k (3-89 to 3-90)	mg/L	9.67
17.	Sodium as Na	APHA 23 <sup>rd</sup> Edition 2017 Part 3500-Na(3-99 to 3-90)	mg/L	96.2
18.	Manganese as Mn	IS:3025 (P-59) 2006 Reaff. 2017 /AAS	mg/L	BDL(<0.01)

BDL Below Detection Limit

Tested By

(Priyanka Yadav)

Asst.Chemist

Note

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Page 1 of 2

Authorized Signatory

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

 Wolkem India Limited  
 E-102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan

 OHSAS  
 Certificate No.  
 32024-A111

Our Commitment.. Your Trust

Registered &amp; Corporate Office :

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



Report No. 20211211001

Date: - 15.12.2021

### TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	11.12.2021
3. Date & Time of Monitoring	:	10.12.2021/12:50PM to 11.12.2021/12:45PM
4. Sample received on	:	11.12.2021
5. Period of Analysis	:	11.12.2021 to 15.12.2021
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	1437.4	Minutes
2.	Average Flow rate for PM <sub>10</sub>	1.245	M <sup>3</sup> / Min
3.	Ambient Temperature	21.1	°C
4.	Relative Humidity	42	%

### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (Part 23)2006 RA 2017	57.70	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No. 10/25 issue date 01.05.2019	27.00	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2)2001 Reaff 2017	9.44	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS.5182 (Part 6)2006 Reaff 2017	10.65	80
5.	Lead	µg/m <sup>3</sup>	IS 5182(Part22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL- Below Detection Limit

Tested by

(Leena Sharma)  
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





Report No. 20211210001

Date: - 15.12.2021

### 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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	09.12.2021/12:35PM to 10.12.2021/12:45PM
5. Period of Analysis	:	10.12.2021
6. Name of Location	:	10.12.2021 to 15.12.2021
7. Method of Sampling	:	Umarda Village
		IS:5182(Part 2,Part 6,Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1433.7	Minutes
2.	Average Flow rate for PM <sub>10</sub>	1.215	M <sup>3</sup> / Min
3.	Ambient Temperature	27.5	°C
4.	Relative Humidity	40	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 (Part 23)2006 RA 2017	67.74	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No. 10/25 issue date 01.05.2019	37.48	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 2)2001 Reaff 2017	16.02	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 6)2006 Reaff 2017	19.51	80
5.	Lead	µg/m <sup>3</sup>	IS:5182 (Part 22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL - Below Detection Limit

Tested by

*[Signature]*  
Leena Sharma  
Asst. Chemist

Authorized Signatory

*[Signature]*  
(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. 20211209001

Date: - 15.12.2021

### 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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	08.12.2021/11:45AM to 09.12.2021/11:50AM
5. Period of Analysis	:	09.12.2021 to 15.12.2021
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	1435.6	Minutes
2.	Average Flow rate for PM <sub>10</sub>	1.155	M <sup>3</sup> / Min
3.	Ambient Temperature	21.4	°C
4.	Relative Humidity	45	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 (Part 23)2006 RA 2017	66.57	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No. 10/25 issue date 01.05.2019	34.60	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 2)2001 Reaff 2017	14.00	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS.5182 (Part 6)2006 Reaff 2017	18.55	80
5.	Lead	µg/m <sup>3</sup>	IS. 5182(Part22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL- Below Detection Limit

Tested by

(Leena Sharma)  
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





Report No. 20211208001

Date: - 15.12.2021

**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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	07.12.2021/11:10AM to 08.12.2021/11:00AM
5. Period of Analysis	:	08.12.2021
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	1429.20	Minutes
2.	Average Flow rate for PM <sub>10</sub>	1.195	M <sup>3</sup> / Min
3.	Ambient Temperature	21.7	°C
4.	Relative Humidity	43	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPBC Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 (Part 23)2006 RA 2017	61.01	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No. 10/25 issue date 01 05 2019	31.75	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 2)2001 Reaff 2017	10.96	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 6)2006 Reaff 2017	14.91	80
5.	Lead	µg/m <sup>3</sup>	IS: 5182(Part22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL- Below Detection Limit

Tested by

 (LeenaSharma)  
 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



Report No. 202111207001

Date: - 15.12.2021

### TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	07.12.2021
3. Date & Time of Monitoring	:	06.12.2021/10:20AM to 07.11.2021/10:05AM
4. Sample received on	:	07.12.2021
5. Period of Analysis	:	07.12.2021 to 15.12.2021
6. Name of Location	:	Kharwaria Village
7. Method of Sampling	:	IS: 5182(Part 2, Part 6, Part23,Part22) & Instrument Manual

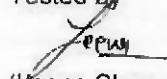
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1435.70	Minutes
2.	Average Flow rate for PM10	1.210	M <sup>3</sup> / Min
3.	Ambient Temperature	21.2	°C
4.	Relative Humidity	42	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 (Part 23)2006 RA 2017	57.32	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No. 10/25 issue date 01.05.2019	29.11	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 2)2001 Reaff 2017	8.51	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6)2006 Reaff 2017	11.59	80
5.	Lead	µg/m <sup>3</sup>	IS: 5182(Part22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL- Below Detection Limit

Tested by

  
(Leena Sharma)  
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





Report No. 20211225001

Date: - 03.01.2021

**TEST REPORT**

(Ambient Air Quality Monitoring)

<b>1. Name of Customer</b>	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
<b>2. Purchase order Number</b>	:	25.12.2021
<b>3. Date &amp; Time of Monitoring</b>	:	24.12.2021/12:00PM to 25.11.2021/11:45AM
<b>4. Sample received on</b>	:	25.12.2021 to 03.01.2021
<b>5. Period of Analysis</b>	:	Kharwaria Village
<b>6. Name of Location</b>	:	IS: 5182(Part 2, Part 6, Part23,Part22) & Instrument Manual
<b>7. Method of Sampling</b>	:	

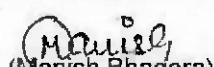
S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1430.5	Minutes
2.	Average Flow rate for PM10	1.185	M <sup>3</sup> / Min
3.	Ambient Temperature	20	°C
4.	Relative Humidity	42	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 (Part 23)2006 RA 2017	55.52	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No 10/25 issue date 01.05.2019	31.30	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 2)2001 Reaff 2017	9.12	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 6)2006 Reaff 2017	13.03	80
5.	Lead	µg/m <sup>3</sup>	IS: 5182(Part22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL Below Detection Limit

Tested by

  
 (Manish Bhagora)  
 Asst. Chemist

Authorized Signatory

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

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 Page 2 of 2  
End of Report




Report No. 20211224001

Date: - 03.01.2021

**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 Dated: - 31.12.2020
3. Date & Time of Monitoring	:	23.12.2021/11:05AM to 24.12.2021/11:15AM
4. Sample received on	:	24.12.2021
5. Period of Analysis	:	24.12.2021 to 03.01.2021
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	1430.4	Minutes
2.	Average Flow rate for PM <sub>10</sub>	1.170	M <sup>3</sup> / Min
3.	Ambient Temperature	22.8	°C
4.	Relative Humidity	35	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 (Part 23)2006 RA 2017	58.34	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No. 10/25 issue date 01.05.2019	33.81	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 2)2001 Reaff 2017	11.13	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 6)2006 Reaff 2017	13.97	80
5.	Lead	µg/m <sup>3</sup>	IS: 5182(Part22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL - Below Detection Limit

Tested by

(Marish 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



TC-6841



Report No. 20211223001

Date: - 03.01.2021

### TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	
3. Date & Time of Monitoring	:	22.12.2021/10:30AM to 23.12.2021/10:25AM
4. Sample received on	:	23.12.2021
5. Period of Analysis	:	23.12.2021 to 03.01.2021
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	1436.5	Minutes
2.	Average Flow rate for PM <sub>10</sub>	1.190	M <sup>3</sup> / Min
3.	Ambient Temperature	20.8	°C
4.	Relative Humidity	38	%

### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 (Part 23)2006 RA 2017	62.29	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No. 10/25 issue date 01.05.2019	35.33	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 2)2001 Reaff 2017	13.08	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 6)2006 Reaff 2017	17.61	80
5.	Lead	µg/m <sup>3</sup>	IS: 5182(Part22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL- Below Detection Limit

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 2 of 2  
End of Report





Report No. 20211222001

Date: - 03.12.2021

**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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	21.12.2021/09:45AM to 22.12.2021/09:35AM
5. Period of Analysis	:	22.12.2021 to 03.01.2021
6. Name of Location	:	Umarda 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	1426.4	Minutes
2.	Average Flow rate for PM <sub>10</sub>	1.170	M <sup>3</sup> / Min
3.	Ambient Temperature	21.6	°C
4.	Relative Humidity	40	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 (Part 23)2006 RA 2017	75.28	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No. 10/25 issue date 01.05.2019	39.76	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS.5182 (Part 2)2001 Reaff 2017	15.55	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS.5182 (Part 6)2006 Reaff 2017	18.21	80
5.	Lead	µg/m <sup>3</sup>	IS. 5182(Part22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL - Below Detection Limit

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



Report No. 20211221001

Date: - 03.01.2022

### 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
3. Date & Time of Monitoring	:	Amendment Dated: - 31.12.2020
4. Sample received on	:	20.12.2021/10:05AM to 21.12.2021/09:55AM
5. Period of Analysis	:	21.12.2021
6. Name of Location	:	21.12.2021 to 03.01.2021
7. Method of Sampling	:	Mine Lease area IS: 5182(Part 2, Part 6, Part23,Part22) & Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Duration of Survey	1429.6	Minutes
2.	Average Flow rate for PM <sub>10</sub>	1.170	M <sup>3</sup> / Min
3.	Ambient Temperature	20.3	°C
4.	Relative Humidity	37	%

### Results Ambient Air Quality

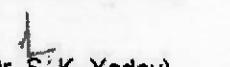
S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 (Part 23)2006 RA 2017	59.40	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No. 10/25 issue date 01.05.2019	29.23	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 2)2001 Reaff 2017	9.86	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182 (Part 6)2006 Reaff 2017	11.13	80
5.	Lead	µg/m <sup>3</sup>	IS: 5182(Part22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL- Below Detection Limit

Tested by

  
(Manish Bhagora)  
Asst. Chemist

Authorized Signatory

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

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Page 2 of 2  
End of Report



TC-6881



Report No. 20220110001

Date: - 14.01.2022

**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 Dated: - 31.12.2020
3. Date & Time of Monitoring	:	07.01.2022/12:35PM to 08.01.2022/12:40PM
4. Sample received on	:	11.01.2022
5. Period of Analysis	:	11.01.2022 to 13.01.2022
6. Name of Location	:	Mine Lease area
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details			Results	Unit
1.	Ambient Temperature			22.6	°C
2.	Relative Humidity			50	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.54	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.40	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.348	-

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. 20220107001

Date: - 14.01.2022

**TEST REPORT**  
(Ambient Air Quality Monitoring)

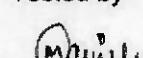
1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
2. Purchase order Number	:	PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
3. Date & Time of Monitoring	:	06.01.2022/12:10PM to 07.01.2022/12:00PM
4. Sample received on	:	07.01.2022
5. Period of Analysis	:	07.01.2022 to 13.01.2022
6. Name of Location	:	Umarda Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	24.5	°C
2.	Relative Humidity	43	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.80	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.65	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.325	-

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. 20220106001

Date: - 14.01.2022

**TEST REPORT**

(Ambient Air Quality Monitoring)

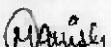
1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	05.01.2022/11:25AM to 06.01.2022/11:15AM
3. Date & Time of Monitoring	:	06.01.2022
4. Sample received on	:	06.01.2022 to 13.01.2022
5. Period of Analysis	:	Lakadwas Village
6. Name of Location	:	Instrument Manual
7. Method of Sampling	:	

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	23.6	°C
2.	Relative Humidity	46	%

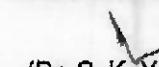
Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.69	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.60	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.313	-

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. 20220105001

Date: - 14.01.2022

**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 Dated: - 31.12.2020
3. Date & Time of Monitoring	:	04.01.2022/10:50AM to 05.01.2022/10:55AM
4. Sample received on	:	05.01.2022
5. Period of Analysis	:	05.01.2022 to 14.01.2022
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	1432.6	Minutes
2.	Average Flow rate for PM <sub>10</sub>	1.175	M <sup>3</sup> / Min
3.	Ambient Temperature	22	°C
4.	Relative Humidity	49	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPGCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 (Part 23)2006 RA 2017	58.31	100
2.	PM <sub>2.5</sub>	µg/m <sup>3</sup>	WIL/SOP No. 10/25 issue date 01.05.2019	33.76	60
3.	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 2)2001 Reaff 2017	10.57	80
4.	NO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182 (Part 6)2006 Reaff 2017	13.25	80
5.	Lead	µg/m <sup>3</sup>	IS: 5182(Part22) 2004 Reaff 2014	BDL(<0.05)	1.0

BDL- Below Detection Limit

Tested by

(Manish Bhagora)  
Asst. Chemist

Authorized Signatory

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



TC-4641

Our Commitment.. Your Trust

Report No. 20220104001

Date: - 14.01.2022

**TEST REPORT**  
(Ambient Air Quality Monitoring)

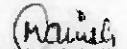
1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	04.01.2022
3. Date & Time of Monitoring	:	03.01.2022/10:00AM to 04.01.2022/09:50AM
4. Sample received on	:	04.01.2022
5. Period of Analysis	:	04.01.2022 to 13.01.2022
6. Name of Location	:	Kharwaria Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	22.8	°C
2.	Relative Humidity	53	%

Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.55	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	3.56	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.299	-

Tested by

  
(Manish Bhagora)  
Asst. Chemist

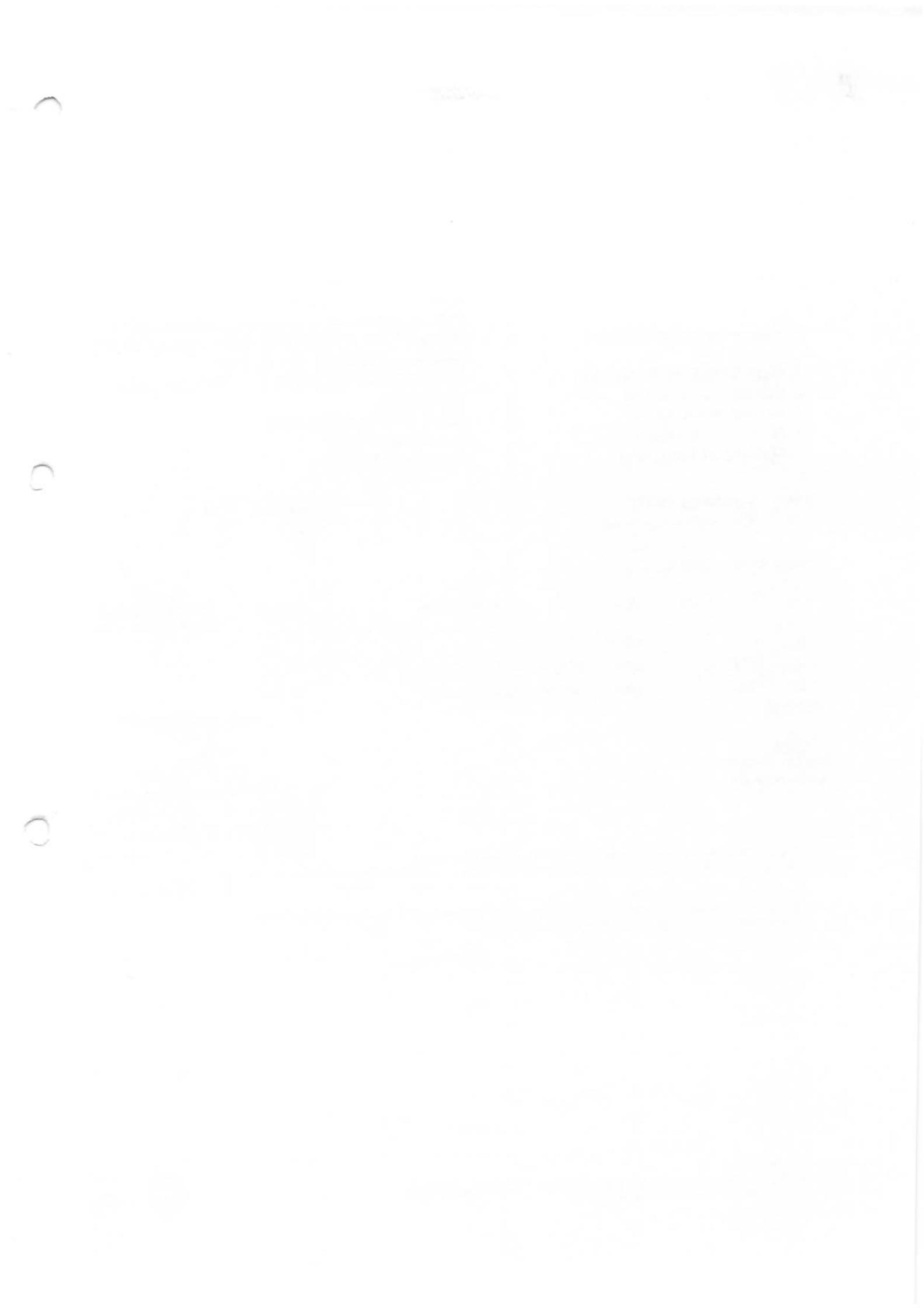
Authorized Signatory

  
(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









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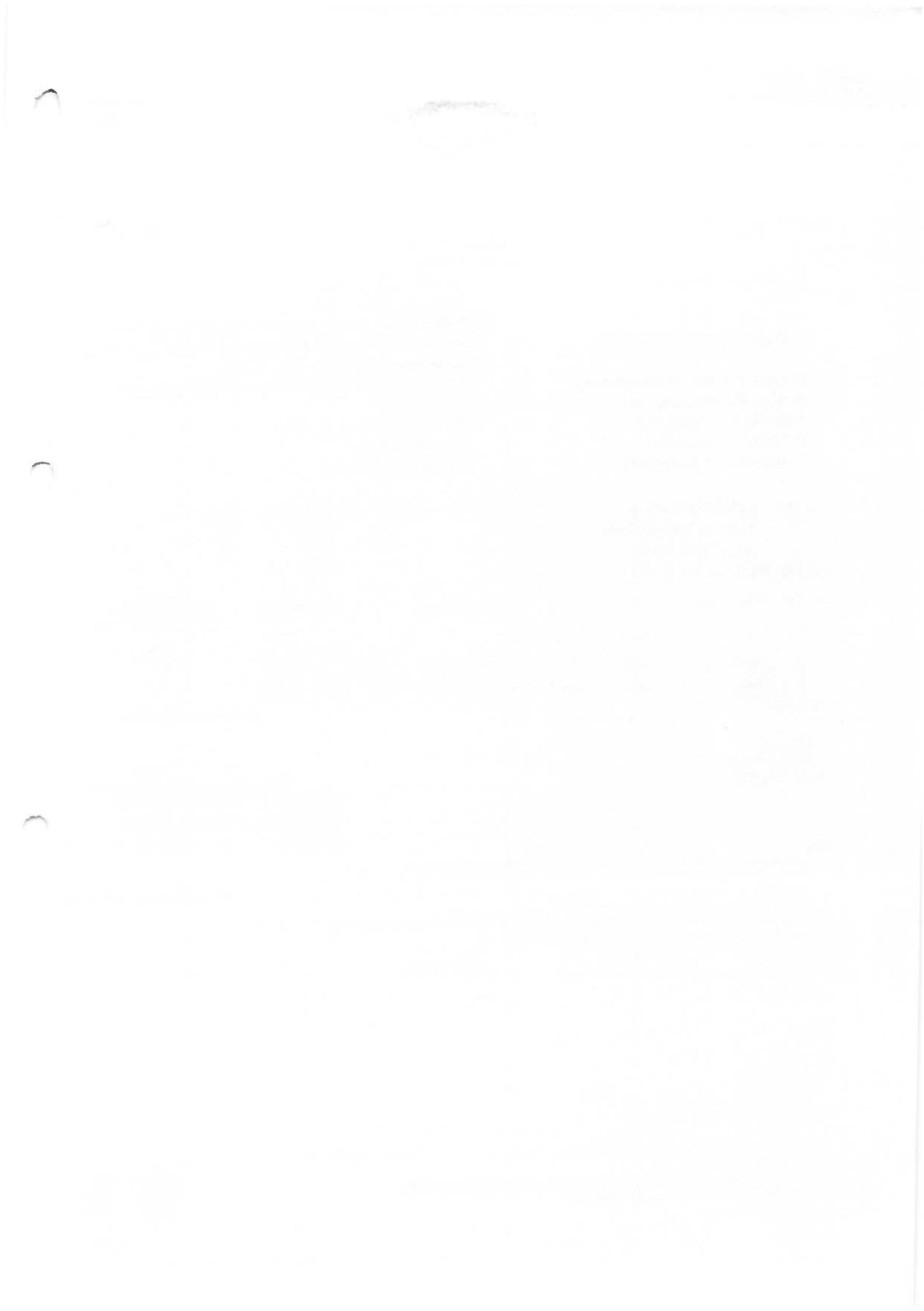
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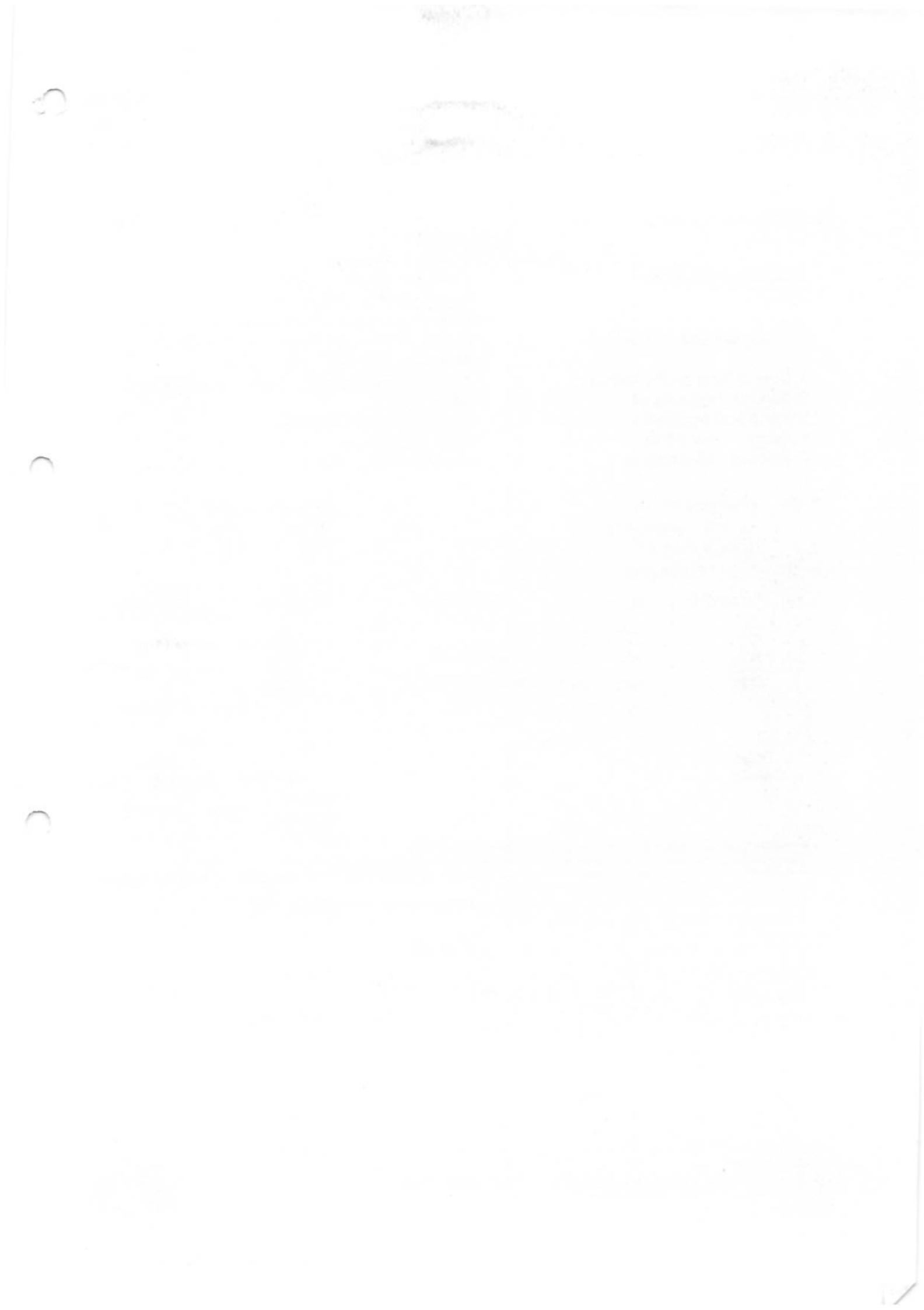
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Report No. 20220214001

Date: - 21.02.2022

### 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 Dated: - 31.12.2020
3. Date & Time of Monitoring	:	11.02.2022/12:35PM to 12.02.2022/12:20PM
4. Sample received on	:	14.02.2022
5. Period of Analysis	:	14.02.2022 to 18.02.2022
6. Name of Location	:	Mine Lease area
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	26.4	°C
2.	Relative Humidity	47	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.49	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.39	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.323	-

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. 20220211001

Date: - 21.02.2022

**TEST REPORT**
**(Ambient Air Quality Monitoring)**

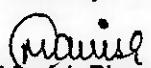
<b>1. Name of Customer</b>	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
<b>2. Purchase order Number</b>	:	PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
<b>3. Date &amp; Time of Monitoring</b>	:	10.02.2022/12:20PM to 11.02.2022/12:10PM
<b>4. Sample received on</b>	:	11.02.2022
<b>5. Period of Analysis</b>	:	11.02.2022 to 21.02.2022
<b>6. Name of Location</b>	:	Umarda Village
<b>7. Method of Sampling</b>	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	27.3	°C
2.	Relative Humidity	39	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.74	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.64	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	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)

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 Page 1 of 1  
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 End of Report \_\_\_\_\_




Report No. 20220210001

Date: - 21.02.2022

**TEST REPORT**

(Ambient Air Quality Monitoring)

<b>1. Name of Customer</b>	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
<b>2. Purchase order Number</b>	:	PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
<b>3. Date &amp; Time of Monitoring</b>	:	09.02.2022/11:35AM to 10.02.2022/11:25AM
<b>4. Sample received on</b>	:	10.02.2022
<b>5. Period of Analysis</b>	:	10.02.2022 to 18.02.2022
<b>6. Name of Location</b>	:	Lakadwas Village
<b>7. Method of Sampling</b>	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	28.3	°C
2.	Relative Humidity	41	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.65	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.58	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.288	-

Tested by

Authorized Signatory

  
 (Manish Bhagora)  
 Asst. Chemist


  
 (Dr. S. K. Yadav)  
 Chief Manager (Environment)  
 Environmental & Chemical Laboratory  
**Wolkem India Limited**  
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 Page 1 of 1  
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 End of Report\_\_\_\_\_



Report No. 20220209001

Date: - 21.02.2022

**TEST REPORT**

(Ambient Air Quality Monitoring)

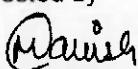
<b>1. Name of Customer</b>	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
<b>2. Purchase order Number</b>	:	PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
<b>3. Date &amp; Time of Monitoring</b>	:	08.02.2022/10:55AM to 09.02.2022/10:45AM
<b>4. Sample received on</b>	:	09.02.2022
<b>5. Period of Analysis</b>	:	09.02.2022 to 18.02.2022
<b>6. Name of Location</b>	:	Maton Village
<b>7. Method of Sampling</b>	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	28	°C
2.	Relative Humidity	43	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.53	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.02	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.380	-

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. 20220208001

Date: - 21.02.2022

### TEST REPORT

#### (Ambient Air Quality Monitoring)

##### 1. Name of Customer

: HINDUSTAN ZINC LIMITED

Rockphosphate Maton Mine

P.O. Maton, Distt. Udaipur (Rajasthan), INDIA

PO No. 2016.1201/ 5100019025 Date 13.01.2016

Amendment Dated: - 31.12.2020

##### 2. Purchase order Number

: 07.02.2022/10:10AM to 08.02.2022/10:00AM

##### 3. Date & Time of Monitoring

: 08.02.2022

##### 4. Sample received on

: 08.02.2022

##### 5. Period of Analysis

: 08.02.2022 to 18.02.2022

##### 6. Name of Location

: Kharwaria Village

##### 7. Method of Sampling

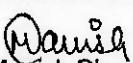
: Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	27.6	°C
2.	Relative Humidity	40	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.50	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	3.55	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.331	-

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  
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Certificate No.  
01130126322



Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

INDIA LIMITED

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



www.wolkem.com

Report No. 20220228001

Date: - 07.03.2022

### TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	25.02.2022/12:20PM to 26.02.2022/12:15PM
3. Date & Time of Monitoring	:	28.02.2022
4. Sample received on	:	28.02.2022 to 04.03.2022
5. Period of Analysis	:	Kharwaria Village
6. Name of Location	:	Instrument Manual
7. Method of Sampling	:	

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	25.6	°C
2.	Relative Humidity	50	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.54	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	2.50	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.274	-

Tested by

*Leena*  
(Leena Sharma)  
Asst. Chemist

Authorized Signatory

*S. K. Yadav*  
(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 :

"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.  
D1130126322

Our Commitment.. Your Trust



Report No. 20220225001

Date: - 07.03.2022

### TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016
2. Purchase order Number	:	Amendment Dated: - 31.12.2020
3. Date & Time of Monitoring	:	24.02.2022/11:20AM to 25.02.2022/11:10AM
4. Sample received on	:	25.02.2022
5. Period of Analysis	:	25.02.2022 to 03.03.2022
6. Name of Location	:	Maton Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	24.8	°C
2.	Relative Humidity	45	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.53	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	3.75	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.324	-

Authorized Signatory

Tested by,

*[Signature]*  
(Leena Sharma)  
Asst. Chemist

(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. 20220224001

Date: - 07.03.2022

**TEST REPORT**  
(Ambient Air Quality Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
2. Purchase order Number	:	23.02.2022/10:50AM to 24.02.2022/10:30AM
3. Date & Time of Monitoring	:	24.02.2022
4. Sample received on	:	24.02.2022 to 03.03.2022
5. Period of Analysis	:	Lakadwas Village
6. Name of Location	:	Instrument Manual
7. Method of Sampling	:	

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	25.2	°C
2.	Relative Humidity	48	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (GCPB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.59	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	3.14	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.263	-

Authorized Signatory

Tested by

  
(Leena Sharma)  
Asst. Chemist

(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-A111



Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)



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INDIA LIMITED

Phone : 91 294 2494600 to 02 E-mail : [info.wcs@wolkem.com](mailto:info.wcs@wolkem.com)

Report No. 20220223001

Date: - 07.03.2022

### TEST REPORT

(Ambient Air Quality Monitoring)

1. Name of Customer	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA PO No. 2016.1201/ 5100019025 Date 13.01.2016
2. Purchase order Number	:	Amendment Dated: - 31.12.2020
3. Date & Time of Monitoring	:	22.02.2022/10:00AM to 23.02.2022/09:45AM
4. Sample received on	:	23.02.2022
5. Period of Analysis	:	23.02.2022 to 02.03.2022
6. Name of Location	:	Umarda Village
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details		Results	Unit
1.	Ambient Temperature		23.5	°C
2.	Relative Humidity		42	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.70	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.43	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.348	-

Authorized Signatory

Tested by

*Leena*  
(Leena Sharma)  
Asst. Chemist

*S. K. Yadav*  
(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. 20220222001

Date: - 07.03.2022

### 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 Dated: - 31.12.2020
3. Date & Time of Monitoring	:	21.02.2022/09:10AM to 22.02.2022/09:00AM
4. Sample received on	:	22.02.2022
5. Period of Analysis	:	22.02.2022 to 02.03.2022
6. Name of Location	:	Mine Lease area
7. Method of Sampling	:	Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	24.3	°C
2.	Relative Humidity	47	%

#### Results Ambient Air Quality

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.53	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.38	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.298	-

Tested by

*Leena*  
(Leena Sharma)  
Asst. Chemist

Authorized Signatory

*Yadav*  
(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: 21.02.2022

### TEST REPORT

(Noise Level Monitoring)

1. Name of Customer

: HINDUSTAN ZINC LIMITED  
Rockphosphate Maton Mine  
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
PO No. 2016.1201/ 5100019025 Date 13.01.2016  
Amendment Dated: - 31.12.2020

2. Purchase order Number

: 14.02.2022

3. Date of Monitoring

: IS: 9989- 1981 (Reaffirmed 2008)

4. Test Methods Reference

: Near Udaisagar

5. Name of location

S. No.	Time hours	Sound Pressure Level dB(A)			Leq
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	36.4	40.0	31.2	40.5
2.	23-24PM	34.1	35.2	33.2	35.2
3.	0-1 AM	33.9	35.3	32.6	35.3
4.	1-2 AM	32.8	34.2	31.5	34.2
5.	2-3 AM	32.4	34.2	31.2	34.2
6.	3-4 AM	32.6	35.6	30.5	35.7
7.	4-5 AM	33.2	36.2	31.2	36.3
8.	5-6 AM	34.9	36.5	33.6	36.5
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> - L <sub>90</sub> ) <sup>2</sup> /60])					36.0
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10(Lnight + 10)/10)]}					50.9
Ldn					

#### CPCB Norms

S. No	Category of area	Day Time dB	Night Time dB
		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

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)

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Date: 21.02.2022

### 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
3. Date of Monitoring	:	Amendment Dated: - 31.12.202
4. Test Methods Reference	:	IS: 9989- 1981 (Reaffirmed 2008)
5. Name of location	:	Kharwaria village

S. No.	Time hours	Sound Pressure Level dB(A) Night Time			Leq
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	44.7	47.2	41.2	47.4
2.	23-24PM	43.5	46.2	42.0	46.2
3.	0-1 AM	35.4	39.0	32.0	39.2
4.	1-2 AM	35.1	36.0	34.0	36.0
5.	2-3 AM	35.3	36.2	34.0	36.2
6.	3-4 AM	32.9	35.2	30.2	35.3
7.	4-5 AM	33.5	35.2	31.6	35.3
8.	5-6 AM	35.8	39.0	32.6	39.2
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> - L <sub>90</sub> ) <sup>2</sup> /60])					39.4
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10(Lnight + 10)/10)]}					
Ldn					51.1

#### CPCB Norms

S. No	Category of area	Day Time dB	Night Time dB
		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  
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Registered & Corporate Office :

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Phone : +91 294 2494600 - 02 E-mail : [info@wolkem.com](mailto:info@wolkem.com)

CIN- U29299RJ1971PLC001379



TC-8941

Our Commitment.. Your Trust



Date: 21.02.2022

**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 Dated: - 31.12.2020
3. Date of Monitoring	:	08.02.2022
4. Test Methods Reference	:	IS: 9989– 1981 (Reaffirmed 2008)
5. Name of location	:	Maton village

S. No.	Time hours	Sound Pressure Level dB(A) Night Time			<b>Leq</b>
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	42.7	46.3	38.2	46.6
2.	23-24PM	42.5	46.5	38.6	46.8
3.	0-1 AM	35.0	36.5	33.6	36.5
4.	1-2 AM	34.2	35.2	33.2	35.2
5.	2-3 AM	34.5	36.6	32.2	36.7
6.	3-4 AM	33.2	35.2	31.2	35.3
7.	4-5 AM	35.1	36.5	33.6	36.5
8.	5-6 AM	37.1	38.6	35.5	.638
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> – L <sub>90</sub> ) <sup>2</sup> /60])					39.0
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10(Lnight + 10)/10)]}					
Ldn					50.9

**CPCB Norms**

S. No	Category of area	Day Time dB		Night Time dB
		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.A. 604, Udaipur (Rajasthan)

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Page 2 of 2

\_\_\_\_\_End of Report\_\_\_\_\_

Registered &amp; Corporate Office :

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

CIN- U29299RJ1971PLC001379



TC-6941

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INDIA LIMITED

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

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



www.wolkem.com

Date: 21.02.2022

## 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 Dated: - 31.12.2020
3. Date of Monitoring	:	09.02.2022
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
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	35.8	36.6	34.6	36.6
2.	23-24PM	35.3	37.2	32.5	37.3
3.	0-1 AM	33.1	35.2	31.5	35.2
4.	1-2 AM	34.3	36.2	32.5	36.3
5.	2-3 AM	33.8	35.2	32.6	35.2
6.	3-4 AM	33.7	35.2	32.6	35.2
7.	4-5 AM	34.1	36.6	32.2	36.7
8.	5-6 AM	34.1	35.3	31.5	35.4
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> – L <sub>90</sub> ) <sup>2</sup> /60])					36.0
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	Day Time dB	Night Time dB
		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

Note

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Authorized Signatory

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

Wolkem India Limited

E-102, Mewar Industrial Area, Udaipur (Rajasthan)

Page 2 of 2  
End of Report

Registered &amp; Corporate Office :

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CIN- U29299RJ1971PLC001379



TC-6941

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Date: 21.02.2022

### 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 Dated: - 31.12.2020
3. Date of Monitoring : 10.02.2022
4. Test Methods Reference : IS: 9989– 1981 (Reaffirmed 2008)
5. Name of location : Umarda village

S. No.	Time hours	Sound Pressure Level dB(A) Night Time			Leq
		L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	33.4	36.2	31.2	36.3
2.	23-24PM	36.0	38.6	33.8	38.7
3.	0-1 AM	34.6	38.5	32.6	38.6
4.	1-2 AM	34.5	36.5	32.6	36.6
5.	2-3 AM	34.4	36.2	32.6	36.3
6.	3-4 AM	30.6	32.2	28.9	32.2
7.	4-5 AM	33.3	36.5	29.6	36.7
8.	5-6 AM	37.1	39.6	34.8	39.7
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> – L <sub>90</sub> ) <sup>2</sup> /60])					36.9
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10Lday/10) + 8 (10(Lnight + 10)/10)]}					
Ldn					49.1

#### CPCB Norms

S. No	Category of area	Day Time dB	Night Time dB
		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

Note

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Page 2 of 2  
End of Report

Authorized Signatory

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

Registered & Corporate Office :

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TC-5941

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INDIA LIMITED

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



www.wolkem.com

Date: 21.02.2022

## 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 Dated: - 31.12.2020
3. Date of Monitoring : 11.02.2022
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 <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	
1.	22-23PM	43.3	45.3	41.2	45.4
2.	23-24PM	43.2	44.6	40.8	44.7
3.	0-1 AM	39.9	42.3	37.2	42.4
4.	1-2 AM	35.8	40.2	33.6	40.3
5.	2-3 AM	35.2	36.5	33.6	36.5
6.	3-4 AM	34.7	36.2	33.3	36.2
7.	4-5 AM	33.9	36.2	31.5	36.3
8.	5-6 AM	35.5	36.8	33.8	36.8
Leq Night (Leq = L <sub>50</sub> + [(L <sub>10</sub> – L <sub>90</sub> ) <sup>2</sup> /60])					39.8
Day-Night Sound Level (L <sub>dn</sub> ) = 10 log {1/24 [16 (10L <sub>day</sub> /10) + 8 (10(L <sub>night</sub> + 10)/10)]}					
L <sub>dn</sub>					55.6

### CPCB Norms

S. No	Category of area	Day Time dB	Night Time dB
		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

Authorized Signatory

(Mahish Bhagora)

Asst. Chemist

Note

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Page 2 of 2  
End of Report

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

Environmental & Chemical Laboratory

Wolkem India Limited

E-102, M.I.A., Udaipur (Rajasthan) 313003

Registered & Corporate Office :

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CIN- U29299RJ1971PLC001379



TC-9941

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Report No. 20220221009

ULR No.- TC59122000000022F

Date: - 25.02.2022

**TEST REPORT**

(Chemical- Drinking 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 21.02.2022/12:35PM
- 4. Sample received on** : 21.02.2022
- 5. Period of Analysis** : 21.02.2022 to 24.02.2022
- 6. Name of sample & Location** : ADM Office Site (Drinking water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

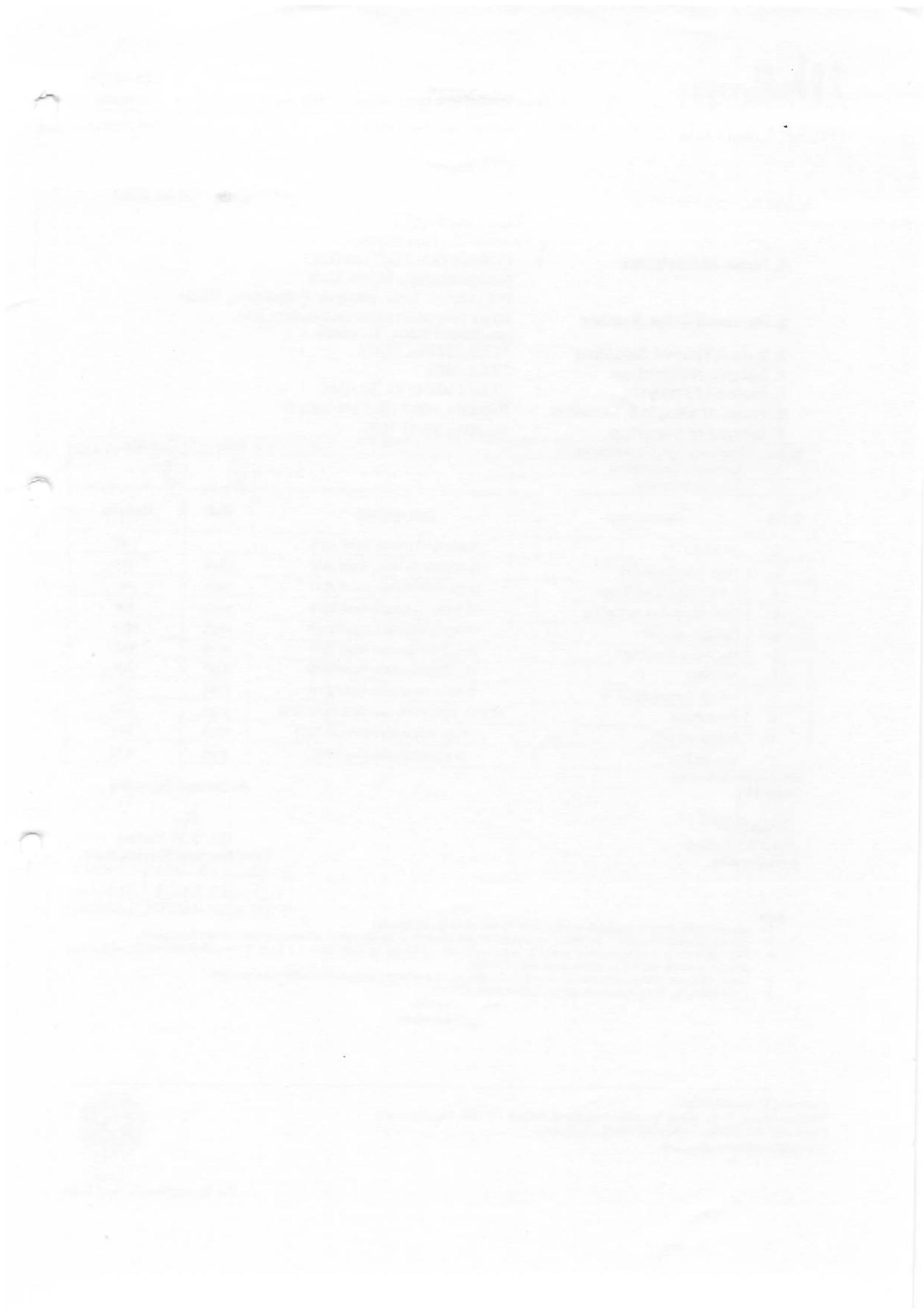
S. No	Environment Condition	Unit	Results	
1.	Ambient Temperature	°C	25.3	
2.	Relative Humidity	%	57	

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	6.82	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	µs	185.6	-	-
3.	Color	IS:3025(Pt4)1983, Reaff.2017	Hazen	<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	104	500	2000
6.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	BDL(<5)	-	-
7.	Total Hardness as CaCO <sub>3</sub>	IS:3025(Pt21)2009 Reaff 2019	mg/L	58	200	600
8.	Calcium as Ca <sup>2+</sup>	IS:3025(Pt40)1991, Reaff.2019	mg/L	17.6	75	200
9.	Magnesium as Mg <sup>2+</sup>	IS:3025(Pt46)1994 Reaff.2019	mg/L	3.4	30	100
10.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	52	200	600
11.	Chlorides as Cl <sup>-</sup>	IS:3025(Pt32)1988, Reaff.2019	mg/L	15	250	1000
12.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
13.	Silica as SiO <sub>2</sub>	APHA 23 <sup>rd</sup> Edition2017, 4500-SiO <sub>2</sub> Page 4-175 to 177	mg/L	1.55	-	-
14.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.1	-	-
15.	Residual Chlorine	IS:3025(Pt26)1986 Reaff 2019	mg/L	BDL(<0.01)	0.2	1
16.	B.O.D. 3 days @ 27°C	IS:3025(Pt44)1993, Reaff.2019	mg/L	BDL(<1)	-	-

**Note**

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Report No. 20220217034

Date: - 25.02.2022

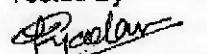
**TEST REPORT**

(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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 17.02.2022/02:35PM
- 4. Sample received on** : 17.02.2022
- 5. Period of Analysis** : 17.02.2022 to 24.02.2022
- 6. Name of sample & Location** : Dhoonimata village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition		Unit	Results	
				°C	%
1.	Ambient Temperature			25.1	
2.	Relative Humidity			59	
				Limits :- IS-10500:2012	
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012
1.	Taste	IS:3025-2012(Pt 7&8) Reaff.2015	-	Acceptable	Permissible
				Agreeable	Agreeable
				Agreeable	Agreeable

Tested By

  
 (Priyanka Yadav)  
 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. 20220217034

Date: - 25.02.2022

**TEST REPORT**

(Chemical- Ground 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 17.02.2022/02:35PM
- 4. Sample received on** : 17.02.2022
- 5. Period of Analysis** : 17.02.2022 to 24.02.2022
- 6. Name of sample & Location** : Dhoonimata village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No.	Environment Condition		Unit	Results	Limits :- IS-10500:2012	
1.	Ambient Temperature		°C	25.1		
2.	Relative Humidity		%	59		
S. No.	Parameters	Test Method	Unit	Results	Acceptable	Permissible
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	6.92	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Reaff.2019	ms	1.598	-	-
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	1068	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	08	-	-
8.	Total Hardness as CaCO <sub>3</sub>	IS:3025(Pt21)2009 Reaff.2019	mg/L	424	200	800
9.	Calcium as Ca <sup>2+</sup>	IS:3025(Pt40)1991, Reaff.2019	mg/L	94.4	75	200
10.	Magnesium as Mg <sup>2+</sup>	IS:3025(Pt46)1994 Reaff.2019	mg/L	45.1	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	284	200	600
12.	Chlorides as Cl <sup>-</sup>	IS:3025(Pt32)1988, Reaff.2019	mg/L	294	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO <sub>2</sub>	API IA 23rd Edition2017, 4500-SIO <sub>2</sub> Page 4-175 to 177	mg/L	7.69	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	5.8	-	-
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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Report No. 20220221012

Date: - 25.02.2022

### TEST REPORT

(Chemical- Ground 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 21.02.2022/01:35PM
- 4. Sample received on** : 21.02.2022
- 5. Period of Analysis** : 21.02.2022 to 24.02.2022
- 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(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(Pl60)2008 Reaff 2019	mg/L	0.20	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.15	-	-
22.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	IS:3025(Pt24)1986, Reaff.2019	mg/L	21.6	200	400
23.	Nitrate as NO <sub>3</sub> <sup>-</sup>	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	5.1	45	No Relaxation
24.	Zinc	IS 3025(Pt49)1994 RA 2019(a) AAS	mg/L	0.24	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 <sup>rd</sup> Edition,2017 Part 3500-k (3-89 to 3-90)	mg/L	4.25	-	-
27.	Sodium as Na	API/ A 23 <sup>rd</sup> Edition2017 Part 3500- Na(3-99 to 3-90)	mg/L	55.6	-	-
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	0.11	0.3	No Relaxation

BDL-Below Detection Limit

Tested By

(Priyanka Yadav)  
Asst.Chemist

Authorized Signatory

(Dr. S. K. Yadav)  
Chief Manager (Environment)  
Environmental & Chemical Laboratory  
**Wolkem India Limited**  
Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (India)

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Registered & Corporate Office :

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Report No. 20220217033

Date: - 25.02.2022

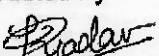
**TEST REPORT**

(Chemical- Ground 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 13.01.2016  
 AMENDMENT Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 17.02.2022/01:55PM
- 4. Sample received on** : 17.02.2022
- 5. Period of Analysis** : 17.02.2022 to 24.02.2022
- 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	25.1								
2.	Relative Humidity		%	57								
S. No.	Parameters	Test Method	Unit	Results								
1.	Taste	IS:3025-2012(Pt 7&8) Reaff.2015	-	<table border="1"> <tr> <th colspan="2">Limits :- IS-10500:2012</th> </tr> <tr> <th>Acceptable</th> <th>Permissible</th> </tr> <tr> <td>Agreeable</td> <td>Agreeable</td> </tr> <tr> <td>Agreeable</td> <td>Agreeable</td> </tr> </table>	Limits :- IS-10500:2012		Acceptable	Permissible	Agreeable	Agreeable	Agreeable	Agreeable
Limits :- IS-10500:2012												
Acceptable	Permissible											
Agreeable	Agreeable											
Agreeable	Agreeable											

Tested By

  
 (Priyanka Yadav)  
 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




INDIA LIMITED

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

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



www.wolkem.com

Report No. 20220217033

Date: - 25.02.2022

**TEST REPORT**

(Chemical- Ground 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 17.02.2022/01:55PM
- 4. Sample received on** : 17.02.2022
- 5. Period of Analysis** : 17.02.2022 to 24.02.2022
- 6. Name of sample & Location** : Nakoli village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No.	Environment Condition		Unit	Results		
				°C	%	
1.	Ambient Temperature			25.1		
2.	Relative Humidity			57		
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	8.92	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1964(Pt14) Roaff.2019	ms	1,135	-	-
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	812	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	BDL(<5)	-	-
8.	Total Hardness as CaCO <sub>3</sub>	IS:3025(Pt21)2009 Reaff.2019	mg/L	356	200	600
9.	Calcium as Ca <sup>2+</sup>	IS:3025(Pt40)1991, Reaff.2018	mg/L	94.4	75	200
10.	Magnesium as Mg <sup>2+</sup>	IS:3025(Pt46)1994 Reaff.2019	mg/L	28.8	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	284	200	600
12.	Chlorides as Cl <sup>-</sup>	IS:3025(Pt32)1986, Reaff.2019	mg/L	226	250	1000
13.	Oil & Grease	IS:3025(Pt39)1991, Reaff.2019	mg/L	BDL(<4)	0.5	No Relaxation
14.	Silica as SiO <sub>2</sub>	APHA 23 <sup>rd</sup> Edition2017, 4500-SiO <sub>2</sub> Page 4-175 to 177	mg/L	6.54	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.1	-	-
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

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CIN- U29299RJ1971PLC001379



TC-3941

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www.wolkem.com

Report No. 20220217032

Date: - 25.02.2022

**TEST REPORT**

(Chemical- Ground 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 17.02.2022/01:55PM
- 4. Sample received on** : 17.02.2022
- 5. Period of Analysis** : 17.02.2022 to 24.02.2022
- 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-10600:2012 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)2006 Reaff 2019	mg/L	0.60	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff 2019	mg/L	0.25	-	-
22.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	IS:3025(Pt24)1986, Reaff.2019	mg/L	167.0	200	400
23.	Nitrate as NO <sub>3</sub>	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	16.8	45	No Relaxation
24.	Zinc	IS 3025(Pt49)1994 RA 2019(a) AAS	mg/L	0.83	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 <sup>rd</sup> Edition,2017 Part 3500-K (3.89 to 3.90)	mg/L	4.5	-	-
27.	Sodium as Na	APHA 23 <sup>rd</sup> Edition2017 Part 3500- Na(3.99 to 3.90)	mg/L	24.4	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Roaff.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

(Priyanka Yadav)  
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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Report No. 20220217031

Date: - 25.02.2022

**TEST REPORT**

(Chemical- Ground 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 17.02.2022/01:30PM
- 4. Sample received on** : 17.02.2022
- 5. Period of Analysis** : 17.02.2022 to 24.02.2022
- 6. Name of sample & Location** : Umarda village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results		
1.	Ambient Temperature	°C	24.2		
2.	Relative Humidity	%	58		
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012
1.	Taste	IS:3025-2012(Pt 7&8) Reaff.2015	-	Agreeable	Acceptable Permissible
					Agreeable Agreeable

Tested By

(Priyanka Yadav)  
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  
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Report No. 20220217031

Date: - 25.02.2022

**TEST REPORT**

(Chemical- Ground 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 17.02.2022/01:30PM
- 4. Sample received on** : 17.02.2022
- 5. Period of Analysis** : 17.02.2022 to 24.02.2022
- 6. Name of sample & Location** : Umrada village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No	Environment Condition		Unit	Results	
				°C	%
1.	Ambient Temperature			24.2	
2.	Relative Humidity			58	
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.10	6.6 to 8.5
2.	Conductivity (at 25°C)	IS:3025-1984(Pt14) Reaff.2019	ms	1.275	-
3.	Color	IS:3025(Pt14)1983, Reaff.2017	Hazen	<5	5
4.	Odour	IS 3025 (Part- 5)198 Reaff.2018	-	Agreeable	Agreeable
6.	Total Dissolve Solid	IS:3025(Pt16)1984, Reaff.2017	mg/L	822	500
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	BDL(<5)	-
8.	Total Hardness as CaCO <sub>3</sub>	IS:3025(Pt21)2009 Reaff.2019	mg/L	520	200
9.	Calcium as Ca <sup>2+</sup>	IS:3025(Pt40)1991, Reaff.2019	mg/L	108.8	75
10.	Magnesium as Mg <sup>2+</sup>	IS:3025(Pt48)1994 Reaff.2019	mg/L	69.5	30
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	332	200
12.	Chlorides as Cl <sup>-</sup>	IS:3025(Pt32)1988, Reaff.2019	mg/L	101	250
13.	Oil & Grease	IS:3025(Pt39)1981, Reaff.2019	mg/L	BDL(<4)	0.5
14.	Silica as SiO <sub>2</sub>	APHA 23 <sup>rd</sup> Edition2017, 4500-SiO <sub>2</sub> Page 4-175 to 177	mg/L	7.5	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	5.7	-
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)	1

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Report No. 20220217030

Date: - 25.02.2022

**TEST REPORT**

(Chemical- Ground 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 17.02.2022/12:55PM
- 4. Sample received on** : 17.02.2022
- 5. Period of Analysis** : 17.02.2022 to 24.02.2022
- 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(PI58)2006 Reaff 2017	mg/L	BDL(<5)	-	-
19.	Copper as Cu	IS:3025(PI42)1992, Reaff.2019	mg/L	BDL(<0.1)	0.05	1.5
20.	Fluoride as F-	IS:3025(PI60)2008 Reaff 2019	mg/L	0.50	1.0	1.5
21.	Phosphate	IS:3025 1988(PI31) Reprint & Reaff 2019	mg/L	1.12	-	-
22.	Sulphate as SO <sub>4</sub>	IS:3025(PI24)1988, Reaff.2019	mg/L	216.5	200	400
23.	Nitrate as NO <sub>3</sub>	IS:3025(PI34-3-B)1988 Reaff 2019	mg/L	13.2	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.70	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 <sup>rd</sup> Edition,2017 Part 3500- (3-89 to 3-90)	mg/L	5.6	-	-
27.	Sodium as Na	APHA 23 <sup>rd</sup> Edition2017 Part 3500- Na(3-99 to 3-90)	mg/L	43.5	-	-
28.	Manganese as Mn	IS 3025 (P-59) 2006 Roaff.2017 /AAS	mg/L	BDL(<0.01)	0.1	0.3
29.	Iron as Fe	IS:3025(PI53)2003, Reaff.2019	mg/L	0.15	0.3	No Relaxation

BDL-Below Detection Limit

Tested By

  
 (Priyanka Yadav)  
 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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TC-5441

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Report No. 20220217029

Date: - 25.02.2022

### TEST REPORT

(Chemical- Ground 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 Dated: - 31.12.2020  
**3. Date & Time of Sampling** : 17.02.2022/12:30PM  
**4. Sample received on** : 17.02.2022  
**5. Period of Analysis** : 17.02.2022 to 24.02.2022  
**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	24.4
2.	Relative Humidity	%	57

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible
1.	Taste	IS:3025-2012(Pt 7&8) Reaff.2015	-	Agreeable	Agreeable	Agreeable

Tested By

*Priyanka Yadav*  
(Priyanka Yadav)  
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. 20220217029

Date: - 25.02.2022

**TEST REPORT**

(Chemical- Ground 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 17.02.2022/12:30PM
- 4. Sample received on** : 17.02.2022
- 5. Period of Analysis** : 17.02.2022 to 24.02.2022
- 6. Name of sample & Location** : Maton village (Ground water)
- 7. Method of Sampling** : IS: 3025 (Pt 1) 1987

S. No.	Environment Condition		Unit	Results		
				°C	24.4	
1.	Ambient Temperature		%		57	
2.	Relative Humidity					
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
1.	pH (at 25°C)	IS:3025(Pt11)1983, Reaff.2017	-	7.15	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025-1984(Pt14) Reaff.2019	ms	2.084	-	-
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	1396	500	2000
7.	Total Suspended Solid	IS:3025(Pt17)1984, Reaff.2017	mg/L	08	-	-
8.	Total Hardness as CaCO <sub>3</sub>	IS:3025(Pt21)2009 Reaff.2019	mg/L	520	200	600
9.	Calcium as Ca <sup>2+</sup>	IS:3025(Pt40)1991, Reaff.2019	mg/L	110.4	75	200
10.	Magnesium as Mg <sup>2+</sup>	IS:3025(Pt46)1994 Reaff.2019	mg/L	58.6	30	100
11.	Alkalinity	IS:3025(Pt23)1986, Reaff.2019	mg/L	408	200	600
12.	Chlorides as Cl <sup>-</sup>	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 <sub>2</sub>	APHA 23 <sup>rd</sup> Edition2017, 4500-SI02 Page 4-175 to 177	mg/L	6.76	-	-
15.	Dissolve Oxygen	IS:3025(Pt38)1989, Reaff.2019	mg/L	6.0	-	-
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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Report No. 20220217028

Date: - 25.02.2022

**TEST REPORT**

(Chemical- Ground 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 Dated: - 31.12.2020
- 3. Date & Time of Sampling** : 17.02.2022/12:05PM
- 4. Sample received on** : 17.02.2022
- 5. Period of Analysis** : 17.02.2022 to 24.02.2022
- 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)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	0.50	1.0	1.5
21.	Phosphate	IS:3025 1988(Pt31) Reprint & Reaff.2019	mg/L	0.14	-	-
22.	Sulphate as SO <sub>4</sub> <sup>2-</sup>	IS:3025(Pt24)1986, Reaff.2019	mg/L	148.4	200	400
23.	Nitrate as NO <sub>3</sub>	IS:3025(Pt34-3-B)1988 Reaff 2019	mg/L	18.0	45	No Relaxation
24.	Zinc	IS 3025(P49)1994 RA 2019(a) AAS	mg/L	0.20	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 <sup>rd</sup> Edition,2017 Part 3500-K (3-99 to 3-90)	mg/L	6.85	-	-
27.	Sodium as Na	APHA 23 <sup>rd</sup> Edition2017 Part 3500-Na(3-99 to 3-90)	mg/L	70.2	-	-
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(Pt53)2003, Reaff.2019	mg/L	0.16	0.3	No Relaxation

BDL-Below Detection Limit

Tested By

 (Priyanka Yadav)  
 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 &amp; Corporate Office :

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

 Phone : +91 294 2494600 - 02 E-mail : [info@wolkem.com](mailto:info@wolkem.com)

CIN- U29299RJ1971PLC001379



Our Commitment. Your Trust



Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

**INDIA LIMITED**

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



www.wolkem.com

Report No. 20220314001

Date: - 21.03.2022

**1. Name of Customer**

: HINDUSTAN ZINC LIMITED  
Rockphosphate Maton Mine  
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
PO No. 2016.1201/ 5100019025 Date 13.01.2016  
Amendment Dated: - 31.12.2020

**2. Purchase order Number**

: 11.03.2022/11:00AM to 12.03.2022/10:55AM

**3. Date & Time of Monitoring**

: Air Sample

**4. Sample Identification**

: Sealed/ok

**5. Condition of Sample**

: 14.03.2022

**6. Sample received on**

: 14.03.2022 to 18.03.2022

**7. Name of Location**

: Mine Lease Area

**7. Method of Sampling**

: Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	33	°C
2.	Relative Humidity	27	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.51	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	3.76	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.345	-

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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CIN- U29299RJ1971PLC001379



Our Commitment.. Your Trust



Report No. 20220311001

Date: - 21.03.2022

**TEST REPORT**

<b>1. Name of Customer</b>	:	HINDUSTAN ZINC LIMITED Rockphosphate Maton Mine P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
<b>2. Purchase order Number</b>	:	PO No. 2016.1201/ 5100019025 Date 13.01.2016 Amendment Dated: - 31.12.2020
<b>3. Date &amp; Time of Monitoring</b>	:	10.03.2022/10:40AM to 11.03.2022/10:35AM
<b>4. Sample Identification</b>	:	Air Sample
<b>5. Condition of Sample</b>	:	Sealed/ok
<b>6. Sample received on</b>	:	11.03.2022
<b>5. Period of Analysis</b>	:	11.03.2022 to 18.03.2022
<b>6. Name of Location</b>	:	Umarda Village
<b>7. Method of Sampling</b>	:	Instrument Manual

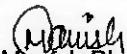
S. No	Monitoring Details		Results	Unit
1.	Ambient Temperature		32	°C
2.	Relative Humidity		29	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.68	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.24	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.371	-

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)

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Page 1 of 1  
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INDIA LIMITED

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

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



www.wolkem.com

Report No. 20220310001

Date: - 21.03.2022

**1. Name of Customer****TEST REPORT**

- : HINDUSTAN ZINC LIMITED  
 Rockphosphate Maton Mine  
 P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
 PO No. 2016.1201/ 5100019025 Date 13.01.2016  
 Amendment Dated: - 31.12.2020
- : 09.03.2022/10:40AM to 10.03.2022/10:35AM
- : Air Sample
- : Sealed/ok
- : 10.03.2022
- : 10.03.2022 to 18.03.2022
- : Lakadwas Village
- : Instrument Manual

**2. Purchase order Number****3. Date & Time of Monitoring****4. Sample Identification****5. Condition of Sample****6. Sample received on****5. Period of Analysis****6. Name of Location****7. Method of Sampling**

S. No	Monitoring Details			Results	Unit
1.	Ambient Temperature			30.4	°C
2.	Relative Humidity			32	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.72	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	5.04	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.376	-

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. 20220309001

Date: - 21.03.2022

**1. Name of Customer**

**TEST REPORT**

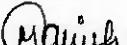
- : HINDUSTAN ZINC LIMITED  
 Rockphosphate Maton Mine  
 P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
 PO No. 2016.1201/ 5100019025 Date 13.01.2016  
 Amendment Dated: - 31.12.2020
- : 08.03.2022/10:00AM to 09.03.2022/09:55AM
- : Air Sample
- : Sealed/ok
- : 09.03.2022
- : 09.03.2022 to 18.03.2022
- : Maton Village
- : Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	33	°C
2.	Relative Humidity	26	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.57	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	3.96	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.335	-

Tested by

  
 (Marilish 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. 20220308001

Date: - 21.03.2022

**1. Name of Customer**

**TEST REPORT**

- : HINDUSTAN ZINC LIMITED  
Rockphosphate Maton Mine  
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- : PO No. 2016.1201/ 5100019025 Date 13.01.2016  
Amendment Dated: - 31.12.2020
- : 07.03.2022/09:40AM to 08.03.2022/09:30AM
- : Air Sample
- : Sealed/ok
- : 08.03.2022
- : 08.03.2022 to 18.03.2022
- : Kharbaria Village
- : Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	32.6	°C
2.	Relative Humidity	28	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.47	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	2.94	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.367	-

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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End of Report

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CIN- U29299RJ1971PLC001379



Certificate No.  
01130126322

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Report No. 20220328003

Date: - 31.03.2022

**1. Name of Customer**

**TEST REPORT**

- : HINDUSTAN ZINC LIMITED  
Rockphosphate Maton Mine  
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
: PO No. 2016.1201/ 5100019025 Date 13.01.2016  
Amendment Dated: - 31.12.2020  
: 25.03.2022/10:40AM to 26.03.2022/10:30AM  
: Air Sample  
: Sealed/ok  
: 28.03.2022  
: 28.03.2022 to 30.03.2022  
: Kharbaria Village  
: Instrument Manual

**2. Purchase order Number**

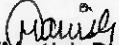
- 3. Date & Time of Monitoring**  
**4. Sample Identification**  
**5. Condition of Sample**  
**6. Sample received on**  
**5. Period of Analysis**  
**6. Name of Location**  
**7. Method of Sampling**

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	33	°C
2.	Relative Humidity	28	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.55	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	3.14	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.310	-

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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INDIA LIMITED

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



www.wolkem.com

Report No. 20220325003

Date: - 30.03.2022

**1. Name of Customer**

**TEST REPORT**

: HINDUSTAN ZINC LIMITED  
Rockphosphate Maton Mine  
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
PO No. 2016.1201/ 5100019025 Date 13.01.2016  
Amendment Dated: - 31.12.2020

: 24.03.2022/10:30AM to 25.03.2022/10:15AM

: Air Sample

: Sealed/ok

: 25.03.2022

: 25.03.2022 to 29.03.2022

: Maton Village

: Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	30.4	°C
2.	Relative Humidity	36	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.54	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	3.57	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.387	-

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  
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Certificate No.  
01130126322



Report No. 20220324003

Date: - 30.03.2022

**1. Name of Customer**

**TEST REPORT**

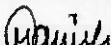
- : HINDUSTAN ZINC LIMITED  
 Rockphosphate Maton Mine  
 P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- : PO No. 2016.1201/ 5100019025 Date 13.01.2016  
 Amendment Dated: - 31.12.2020
- : 23.03.2022/10:15AM to 24.03.2022/10:10AM
- : Air Sample
- : Sealed/ok
- : 24.03.2022
- : 24.03.2022 to 29.03.2022
- : Lakadwas Village
- : Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	34.2	°C
2.	Relative Humidity	29	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.59	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.38	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.403	-

Tested by

  
 (Mahish 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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**INDIA LIMITED**

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



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Report No. 20220323004

Date: - 30.03.2022

**1. Name of Customer**

**TEST REPORT**

- : HINDUSTAN ZINC LIMITED  
Rockphosphate Maton Mine  
P.O. Maton, Distt. Udaipur (Rajasthan), INDIA
- : PO No. 2016.1201/ 5100019025 Date 13.01.2016  
Amendment Dated: - 31.12.2020
- : 22.03.2022/09:50AM to 23.03.2022/09:40AM
- : Air Sample
- : Sealed/ok
- : 23.03.2022
- : 23.03.2022 to 29.03.2022
- : Umarda Village
- : Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	32.5	°C
2.	Relative Humidity	30	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.68	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	4.60	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.398	-

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

CIN- U29299RJ1971PLC001379



Certificate No.  
01130126322

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INDIA LIMITED

Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

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



www.wolkem.com

Report No. 20220322003

Date: - 30.03.2022

**1. Name of Customer****TEST REPORT**

- : HINDUSTAN ZINC LIMITED  
 Rockphosphate Maton Mine  
 P.O. Maton, Distt. Udaipur (Rajasthan), INDIA  
 PO No. 2016.1201/ 5100019025 Date 13.01.2016  
 Amendment Dated: - 31.12.2020
- : 21.03.2022/09:40AM to 22.03.2022/09:25AM
- : Air Sample
- : Sealed/ok
- : 22.03.2022
- : 22.03.2022 to 29.03.2022
- : Mine Lease Area
- : Instrument Manual

S. No	Monitoring Details	Results	Unit
1.	Ambient Temperature	33	°C
2.	Relative Humidity	35	%

**Results Ambient Air Quality**

S. No	Parameters	Unit	Test Method	Results	NAAQS (CPCB Norms) New Delhi dt. 18 <sup>th</sup> Nov. 2009
1.	CO	mg/m <sup>3</sup>	By CO meter	0.53	04
2.	SiO <sub>2</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 23/25	3.36	-
3.	PO <sub>4</sub>	µg/m <sup>3</sup>	SOP NO.WIL/AIR/TP/ 24/25	0.322	-

Tested by

  
 (Marish 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  
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ANNE 2012

## जस्थान प्रिवेट

काला चूला संग्रह 2010

आम संचरण

राजा यता

शहर में झड़

Date: 27.11

vadodara

सुवर्ण पट्टाकट

आम आमे जगहान  
नारियल

3.2010.

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Survey report 09 TREE

**FLORA WITHIN THE STUDY AREA OF MATON MINES OF M/S  
HINDUSTAN ZINC LIMITED**

S.NO	Local Name	Buffer Zone 10.KM
1	TREES	
1	BONJH	ACACIA LEUCOPHOLOEA
2	BABUL	ACACIA SENEGAL
3	ARDUSA	AILANTHUS EXCELSA ROXB
4	DHOKADA	ANOGEISSUS PENDULA EDG
5	NEEM	AZADIRACHTA INDICA
6	KHAKHRA	BUTEA MONOSPERMA
7	BORDI	ZIPHUS MAUNTIANA
8	VILAYATI BABUL	PROSOPIS JULIFLORA
9	PEEPAL	FICUS RELIGIOSA
10	BARGAD	FICUS BENGALENSIS
11	BEL	AEGLE MARMELOS
12	GONDA	CORDIA MIXA
13	KABITA	DISPYROS MONTANA
14	KACHNAR	BAUHINIA RACEMOSA
15	IMU	TAMARINDUS INDICA
16	KIKAR	PITHOLOCOBUTUM DULCI
17	AAM	MANGIFERA INDICA
18	DESI BABUL	ACACIA NILOTICA
19	BANSB	DENDROCALAMUS STRICTUS
20	SISAM	DALBERGIA SISSO
21	CHAMPA	PLUMARIA RUBRA
22	KHAJUR	PHOENIX ACULIS
1	SHRUBS	
1	AKDO	CALOTROPIS PROCERA
2	ANDHJHARA	ACHYRANTHES ASPERA
3	AWAL	CASSIA AURICULATA
4	DHATURA	DHATURA METAL
5	CHANIBOR	ZEYPHUS NUMMUIARIA
6	THOR	EUPHORBIA NIVULIS
1	GRASSES	
1	BHARUT	CENCHRUS CATHARTICUS
2	MUNJ	SACEBARUM MUNJA
3	BUHARI	EREMOPOGO FORESTATUS
4	LAMPLA	ARISTIDA SP.
5	LATNA	LATNA CAMARA
6	DHATURA	DHATURA METAL
7	JHAD BERA	ZIPHUS NUMMALARIS



राम बहू संग्रहक  
इमार (उत्तर)

Sixty report-BB tree

S No	English Name	Scientific Name	Schedule as per wildlife protection Act, 1972
8	Cattle egret	Bulbulcus ibis	IV
9	Little egret	Egretta garzetta	IV
10	Indian Horn owl	Bubo bubo	IV
11	Black Drongo	Dicrurus macrocerus	IV
12	Crow pheasant	Centropus sinensis	IV
13	Indian Roller	Coracis benghalensis	IV
14	Brahminy kite	Haliastur indus	IV

**REPTILES :**

1	Common garden lizard	Calotes versicolor	IV
2	Indian chameleon	Chamaleon zeylanicus	IV
3	Indian cobra	Naja naja	II
4	Russel viper	Vipera spp.	II
5	Krate	Bandarus Spp.	III
6	Cat snake	Boiga spp.	III



वन विभाग  
कर्मचारी (उपर)