

Registered AD

Ref: HZL/ Maton /MoEF/2025-26/ 35

Date: 28.11.2025

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 April'25 to Sept'25.

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

Sir,

Please find enclosed Compliance Status Report of the conditions of Environmental Clearance for the period of **April'25 to Sept'25**.

Thanking you.

Yours Sincerely,

For Maton Rock Phosphate Mine



(Ravi Kumar Dave)
Mine Manager

CC to : 1. Scientist 'D' & In-Charge (Zonal Office), Central Pollution Control Board, Zonal Office (Central), 3rd Floor, Sahkar Bhawan, North T.T. Nagar, BHOPAL-(MP)-462 003
2. Member Secretary, Rajasthan Pollution Control Board, 4 - Institutional Area, Jhalana Dungri, JAIPUR (RAJ.) - 305001.
3. The Regional Office, Rajasthan State Pollution Control Board, F-470, Near UCCI Building, Mewar Industrial Area, Udaipur (Raj.) -313001.
4. Office Copy (Env. Cell)



Six Monthly Compliance Report of Environmental Clearance

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

Project Code :

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

Period of Compliance Report: April 25 to Sept 25

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. Applied for renewal of CTO.
iv	The project proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operations. Adequate measures shall be taken for protection of the 1 st order and 2 nd order streams, if any emanating, passing through the mine lease during the course of mining operation.	No natural watercourse or water resources are obstructed due to mining operation as on date. During the future course of operation, if any natural water course is likely to be affected, suitable measures will be taken to ensure minimum obstruction to flow. Further, there are few 1 st order streams emanating from the mine lease area that have been protected.
v	The mine working will be restricted to above water table. For working below water table, a detailed hydro – geological study shall be carried out taking into account the mine water discharge, management of discharged water and prior approval of CGWA shall be obtained. The hydro- geological study report along with approval of CGWA will be submitted to the Ministry of Environment and Forests for reviewing	The 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

S.No.	Conditions	Compliance Status
	the conditions of environment clearance and stipulation of additional conditions, if any, as may be required.	monsoon respectively. It is expected that on 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	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

S.No.	Conditions	Compliance Status
	monsoon and maintained properly.	generated from the undisturbed slopes (hangwall) is also diverted to mine pit through peripheral garland drains which prevents water to move out of ML area. The de-siltation of mine pit takes place along with mining schedule of deepening of mine.
viii	Garland drain, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent runoff water and flow of sediments directly into the Ahar River, the Udaisagar pond, the Bagdara Talav and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.	The rainwater runoff is also generated on overburden dump (OB) site. The OB dump is situated in a natural valley and so far it's lower edges/ levels is situated below the top of valley level. Hence, it has not reached to it's maximum extent towards edges. Thus the runoff is diverted through natural slopes within valley into a siltation pond cum recharging pit measuring 150m x 60m x 1.5m, situated at the lowest point of dump. The accumulated silt of this pit is removed and stacked on OB dumps before commencement of every monsoon. In addition to above, a new approved dumping and its garland drain is under progress. In order to comply with the condition, HZL applied for obtaining NoC for construction of Anicuts on dt. 10.01.2011, but during discussion, officials referring WRD order dt. 26.07.2010, suggested HZL to opt for other means of recharge (copy of letter for NoC is enclosed as Annexure -4).
ix	Dimension of the retaining wall at the toe of over burden dump and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	Since, the OB dump is situated in a natural valley and so far it's lower edges/ levels is situated below the top of valley level. Hence, it has not reached to it's maximum extent towards edges. Retainer wall is constructed at strategic location along with suitable garland drain to ensure all rain water collection into recharge pit. In addition to above, a new approved dumping and its retaining wall is under progress.
x	Plantation shall be raised in an area of 122.3 ha including a 7.5 m wide green belt in safety zone around the mining lease by planting the native species around over burden dumps, along the roads etc. in consultation with the local DFO / Agriculture Department. The density of the trees should be around 1500 plants per ha. Green belt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	Out of mine lease area of 143.13 ha, only 114.44 ha. has been acquired along & an additional land of 80.25 ha acquired outside the mine lease. Plantation has been taken up in progressive manner to cover 33% area of the total land into green belt, including at least 7.5m wide greenbelt in the safety zone.. Till date about 76,000 saplings have been planted with survival rates of above 90%. Further, the progressive green belt development plan has been prepared considering further plantation over OB dumps on maturity and shall be implemented over the life of mine.
xi	Effective safe guard measures, such as regular water sprinkling should be carried	Wet drilling is practiced to control dust at source. Regular sprinkling of water on all

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	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.	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 competent authorities for drawl of requisite quantity of water required for the	Presently water required for mining operation is sourced from the Mine pit/sump and domestic water is sourced through tankers from water suppliers. An application for withdrawal of

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	project.	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.
xxii	Sewage treatment plant shall be installed for the colony. ETP shall also be provided	No workshop is constructed in the mine site as all mining vehicles are serviced in the nearby

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	for the workshop and the wastewater generated during mining operation	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 76,000 saplings within project area. 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 10 μ m 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 display board at the project site at a suitable location near the main gate of the	The parameters of RSPM, NOx and SOx are periodically monitored In the core and buffer area and report submitted to RSPCB and MoEF periodically (copy of AAQ & Noise monitoring are enclosed as Annexure 9 & 10). 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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	December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	
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/- 2022-23 Rs. 39,84,830/- 2023-24 Rs. 18,21,192/- 2024-25 Rs. 30,56,514 2025-26 Rs 8,55,680/-
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, 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 report was sent on 08.05.2025.

S.No.	Conditions	Compliance Status
	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 μm i.e., PM ₁₀) & NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	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 μm i.e., PM ₁₀) & 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.
vii	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st	There is no workshop in the lease area and hence no industrial effluent generated from the project site.

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.	
xiv	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied
xv	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.	Complied.
xvi	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, at Lucknow by e-mail.	Environment statement in Form V is submitted periodically as stipulated. Environmental statement for the year 2024-25 was submitted on 29.09.2025.
xvii	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	Advertised in two News papers named Dainik Bhashkar and Rajasthan Patrika on 19.03.2010 (Annexure – 12).

Annex L

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University

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DATA SUMMARY

चायालय भूमि अवाप्ति प्रधिकारी,
उदयपुर-सतम्बर, राजसमन्व
क्रमांक :- २२/८६

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संग-डिविजन

दिनांक २५-२-८० १५७

अवगड

(मन्त्रांगत धारा ११, राजस्वान् सूमि धर्मादि प्रवित्तियम्, संव. १९५३) विधयः— हिन्दुस्वान् विकला के काम में घाने वाली सूमि को धर्मादि पारने हेतु।

प्रावस्ती प्रवलोकन की गई। हिन्दुस्तान विक लिं. नया कलहुरा, उदयपुर की शासा जोवर/मटून/दरीवा माईस के लिए भूमि प्रदाता, वामता-राज्य रेलारो राजस्तान भूमि प्रदाता व्यवस्थाम, सन् १९५३ की धारा ४ की विज्ञात व्यवस्था विभाग द्वारा चरिये नम्बर अप्लाई प्र० ३ दि. १३-६-२३ को प्राप्त हो जाने से भूमि व्यवस्था प्रदाता विभागीय सलूच्वर/राजस्तान की ओर से जरिये नं. दिनोक _____ की सार्वजनिक स्थानों पर प्रकाशित हो, चुनौती ही प्रौर इस व्यवस्था में काविजान भूमि से जापसी समझौता पर बातचीत नी गई जो जापसी समझौते से समाप्त होने वाली भूमि का एवजाना लेने के लिए रजामन्द है।

उपरोक्त प्रकरण में निम्नलिखित प्रासादमियान की भूमि अवाप्त हो रही है। इस भूमि की सर्वे की गई, जिसका विवरण निम्ननिम्नित है :—

नाम गांव	नाम तहसील	संस्कार नं.	रकवा	किलम भूमि	लगान	विवरण	
1	2	3	4	5	6	7	8
माटूल	गिरपा	1477	8-	67	3219	1-00	

माली कांगड़ात से इस भूमि के मालिक और काविजान की जोख कराई गई तो परमा गया कि अदाप्ति होने वाली भूमि जिसका विषयण लप्प दिया गया है तो ग्राम पत्तापापि, लूटने पिता श्री जावि निवासी पहरील गिरि के गाम पर इन्द्राज है जिसकी तहसील दार सा, गिरि/सरकार/स्वतंत्रता के को है और उन्होंने यह भी प्रमाणित किया है कि अयार्ड श्री राम पत्तापापि लूटने के नाम बारो किया जावि ।

श्री श्रुति पात्रान् ग्रन्थान् तत्त्वम् जाग्र निवारणम् ।
 दूर्लक्ष ग्रासमियान् आपस्ति समझते पर एवजाना च लिखे थिए प्राप्त हैं । ऐसे सूरत में भूमि प्रवाप्ति घटि-
 नियम, १६३ को धारा ६ (३) व ६ (४) के प्रभुमार नोटिस जारी करने की कोई आवश्यकता नहीं है ।
 तदहसीलदार ता. गिर्वा/स्पष्टम्/स्वतंत्राद् ने मार्केट वेल्यू आपस्ति रज्यमुखी के धारार पर एवजाना देने
 के लिये स्वीकृति चाही जो कार्यल संलग्न है ।

मध्यवाहित नियमावली प्रपत्र 10 (भूमि आवाहित नियमावली अनुद्घेद 96)

राजी नाम। निश्चाली

मिहम ग्राम राज्यान्तर अटूर राज्य नियम (राजीनामे पर हस्ताक्षर करने वाले पक्ष विशेष) एतद वारा निम्न नियम भूमि को आवायी भौतिकावजे को एकम के लिए भग्नी सहमति प्रोपित करते हैं और नियो तरह का हमारे द्वारा उत्तम दावा या हमारी कोई अधिक मांग (खलें) गिरी करन पर वायर की गई, तुरन्त रह गयी जावे।

निम्न	तहसील	गांव	जापदाद/ हक का विवरण	मुमावजे का विवरण	
				वार्षिक आवायी लगान जो छूट होगा	नकद मुमावजा
उम्मी	गिरा	गिरा	1677	8.00	107-7200-00
				4.00	11250.50
				3.850	3850.00
					15405.80
					17. का नाम गिरा
					PROJECT MANAGER हिन्दुस्तान लिमिटेड (भूमि वाचक का उदाम) गुरु राम देवी नगर पालटापुर, जि. रामगढ़ मिन - 223024

मेरीका अधिकारी भूमि वाचक भौतिकावजे में या अल्पांश भूमि किये जाते हैं या जब वृद्धि विना मुमावजा

କାନ୍ତିକାଳୀଙ୍କ ପାଦପାଦିକାଳୀଙ୍କ

प्रोफेस्टः— प्रमस्त विज्ञान
विज्ञान्याम् ।

3631
-27.4.17
215841
2612197

क्रमांक: ४४-८३३२-१०-६/८६/१; तिथि: १५.२.९७

મુજા, પદ્ધતિ: - 15. 2. 97

विषयः - भूमि व वात्सल्य विवाचयन, 1000 रुपयाति उदायन भूमि
ने विषय वात्सल्य विवाचयन या त्रिविषय विषय

महोदय

केंद्रोप भूमि अरा वा ग्राम्यनेतृत्व, 1894 के अन्तर्गत उपर्युक्त पर विभिन्न प्रवर्गजनक द्वारा के उपर्युक्त भूमि लाभ ने जाता ही है। क्वांधित ग्राम्या द्वारा ग्राम्यनेतृत्वे, ग्राम्यनेतृत्वे के भूमि का अवार्द्ध जाते कर अलबढ़ व्यक्तियों द्वारा भूमि वा उत्तरज्ञा अदा करने के प्रचारत भूमि का कम्जा क्वांधित ग्राम्या द्वारा ने निश्च जाता है।

अब ५८८८ यह दस्ता ने १००००००० रुपा भूमि को दावस्थान भू-राजस्व अधिकृत्यम् । १९५६ में यहां यहां ने अपनी वित्तीय सेवा ५०००००० रुपको या एटित जाने को अनुमत्यदान किया नहीं ।

उस्त ग्रन्थ के बाहे साथ इनका अन्त यह है कि यहाँ भूमि की
भूमि देवद्वीप भूमि वर्ती का आधार नहीं, 1924 के अन्तर्गत अ.प्राचीन की
वर्ती है तो ऐसी भूमि को तकः ऐसे कार्य कर दर्शन दिलें ये के लिए
प्राकृति को आवश्यकता नहीं लेती है। अन्त यह है कि यहाँ
अन्तर्गत एक धारा जीव विद्या यहो है कि यहाँ की विद्या है।
अवाक्षरता वालों द्वारा है, जो

— २८ —

गुरु गोदावरी; - निम्न लिखित दो उत्तरार्थ द्वारा विवरणीय हैं।

११ विजय, राजकी विजय, विजय विजय

123
28.2.4

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Annex-5



HINDUSTAN ZINC LIMITED

Maton Rock Phosphate Mine

Tehsil - Girwa, Distt. Udaipur (Raj.) - 313003

Phone : + 0294-2342093

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

Dt 14.07.2014

To,

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

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

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

Sir,

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

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

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

Regd. Office: Yaishad Bhawan, Udaipur (Rajasthan) - 313004

Corporate Identity No. (CIN): L27204RJ1966PLC001208. Website: www.hzlindia.com

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

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

With regards

PSG
(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/Maton/Cawth/mining/Rev/2014-15/42 14/7/2014
Subject	Application for grant of NOC to abstract 1.31 m ³ /day Vidhyut Bhawan, Tehsil Chittorgarh Dist. Udaipur
Dated signatures of diarist/dispatcher (CGWB, WR, 6-A, Jhalana Doongri, Jaipur 302 004)	P.S.G.
Remarks if any	Chit 16/7/14

Annex-4

ANNEXURE - 2

HINDUSTAN ZINC LIMITED
Malon Rock Phosphate Mine
Tehsil- Girwa, Distt. Udaipur- 313004 (Raj)
Phone : 0294-2342693

January 10, 2011

To:

Executive Engineer
Irrigation Department
Udaipur (Raj)

Subject: NOC for construction of five Anicuts in respect of comply of EC condition.
M/s/H [Ref. F No. J-H1015.169/2009-1A-II (M) Dated 17/03/2010]

Sir,

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

Anicut No. 1 near village Kalerwas
Anicut No. 2 near village Parola
Anicut No. 3 near village Bichhri
Anicut No. 4 near village Karpur
Anicut No. 5 near village Daurda

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

• (P)

Thanking you

Yours truly
[Signature]
(Mamta Shinde)

Mine Manager



AT-11108-5



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

Date: 18.09.2015

To,

The S1-E Mines,
Rajasthan State Pollution Control Board,
4, Institutional Area,
Jhankana Doongri, Jaipur (Raj.) - 302004.

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

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

Sir,

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

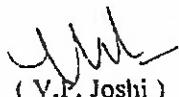
Further, HZL has entered into a tripartite agreement with Municipal Council Udaipur and Urban Improvement Trust Udaipur for laying of Sewage Trunk Line from Udaipur city to STP to divert sewage of city from entering into Ahar River and thereby avoiding pollution from entering into it. This 20 MLD STP 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
CIN : L27204RJ1966PLC001208

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)



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

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

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 20m³/day quantity of groundwater for Industrial use at Maton Rock Phosphate Mine of M/s Hindustan Zinc Limited near village Maton Tehsil Girwa Distt Udaipur situated in Girwa block

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

Sir,

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

Operation of mine at enhanced capacity required 200m³/day groundwater for which HZL submitted application vide letter dt 01.01.2010 thereafter incorporated revisions on dt 11.02.10, 17.08.10 & 19.01.13. In the meantime CGWA revised its guidelines on 15.11.2012 and prescribed the new proforma of applications.

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

Regd. Office: Yashad Bhawan, Udaipur (Rajasthan) - 313004

Corporate Identity No. (CIN): L27204RJ1966PLC001208, Website: www.hzlindia.com

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

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

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

With regards

ASG
 Manager (Mines)
 (Amar Singh Gohil) Hindustan Zinc Ltd.
 Mines Manager 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 mines Udaipur Dist. Udaipur
Letter Reference No. and Date	HZL/maton/EGWB/metustay/2014-15-VB 14/7/14
Subject	Application for grant of NOC, to abstract 20 m ³ /day, village Maton Tehsil Udaipur Dist. Udaipur
Dated signatures of diarist/dispatcher (CGWB, WR, 6-A, Jhalana Doongri, Jaipur 302 004)	
Remarks if any	Chk 16/7/14

Annex-7



Fig : Wet Drilling

ANNA Bx-B

कार्यालय उप वन रांगक, उदयपुर (उत्तर)

कमाक-प () राहे/ रावस/ लसर/ ८८९५ दिनांक १५-१२-०८

माईन्स मेंजार
हिन्दूस्तान लिक लिमिटेड
माटून माईन्स
उदयपुर

विषय :- Issue of certificate regarding National Parks, Sanctuaries, Biosphere Reserves, Wildlife corridors Tiger/Elephant reserves (existing as well as proposed), within 10 Km of the mine lease of Maton Mines (ML No. 6789) Near village Maton, Tehsil Girwa, Distt. Udaipur (Raj.)

परामर्श - अधिकारी पार्श्वनाथ कमाक शिल HZL/Matun/env/097 दिनांक 18-11-2008

मर्मादय,

अप्राप्त विषयात्तमि प्रासादिक प्रार्थना पत्र के काम में लिखा जाया है कि आपको दोनों दो पत्राएं 06/1989 के कोर्स एवं वफर क्षेत्र/क 10 कि.मी. सीमा में नशानिक अक्ष लाइन व वार्षिक विधि नाईट्रो लाइन कंसिलर लाइनर, एलिक्ट्रिक रिक्वेट लिमान नहीं है।

मर्मादय
अधिकारी पार्श्वनाथ
अधिकारी (वार्षिक)

कार्यालय उप वन संरक्षक, उदयपुर (उत्तर)

क्रमांक-प. () सर्वे/उवस/उत्तर/ 6095

दिनांक : 15-12-09

माईन्स मेनेजर
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 सुवीया आवश्यक कार्यवाही हेतु संलग्न प्रस्तुत है।

संलग्न:- उपरोक्तानुसार।

भवदीय,
उप वन संरक्षक
उदयपुर (उत्तर)

ANNEXURE 9

AMBIENT AIR



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitranjan Marg,
 C-Scheme, Jaipur - 302001, Rajasthan
 Phone : +91 6377210064, 9414077379,
 Website : www.teamtesthouse.com
 Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,
 Sitapura, Jaipur - 302022, Rajasthan
 Phone : +91 9460222039, 9460222049,
 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25400001218	Date :	09-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-06-2025 10:46 to 24-06-2025 10:46
Point of Collection :	Mine Lease Area [Latitude:24.542356 Longitude:73.796461]	Date of Receipt :	27-06-2025
Date of Test/Analysis :	27-06-2025 to 09-07-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Lead [microgram/m3]	0.18	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Nitrogen Dioxide as NO2 [microgram/m3]	14.43	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
4	Particulate Matter (PM2.5) [microgram/m3]	36.86	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.4	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	66.7	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai Yogi
 Puran Mai Yogi

Rajesh Maheshwari
 Rajesh Maheshwari



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001218	Date :	09-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-06-2025 10:46 to 24-06-2025 10:46
Point of Collection :	Mine Lease Area [Latitude:24.542356 Longitude:73.796461]	Date of Receipt :	27-06-2025
Date of Test/Analysis :	27-06-2025 to 09-07-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
7	Silica [SiO ₂] [%]	3.67	CPCB Guidelines	Not specified
8	Phosphate [microgram/m ³]	0.38	TTH/AAQM/11	Not specified

Notes :-

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Puran Mat Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001218)



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TEST REPORT

Report No./ULR No. :	25400001219	Date :	09-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-06-2025 10:37 to 23-06-2025 10:37
Point of Collection :	kharwaria Village [Latitude:24.33'9" Longitude:73.47'3"]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 09-07-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitararn jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Carbon Monoxide [microgram/m3]	230	TTH/AAQM/08	4000
2	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Nitrogen Dioxide as NO2 [microgram/m3]	13.35	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
4	Particulate Matter (PM2.5) [microgram/m3]	27.9	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	59.42	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Purushottam
Puran Mai Yogi*

Rajesh Maheshwari



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TEST REPORT

Report No./ULR No. :	400001219	Date :	09-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-06-2025 10:37 to 23-06-2025 10:37
Point of Collection :	kharwaria Village [Latitude:24.33'9" Longitude:73.47'3"]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 09-07-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
7	Silica [SiO ₂] [%]	3.75	CPCB Guidelines	Not specified
8	Phosphate [microgram/m ³]	0.32	TTH/AAQM/11	Not specified

Notes :-

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P. Mehta
Sanjay Mehta

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001219)



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TEST REPORT

Report No./ULR No. :	25400001220	Date :	09-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-06-2025 10:39 to 23-06-2025 10:39
Point of Collection :	Maton Village [Latitude:24.33'12" Longitude:73.47'39"]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 09-07-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Carbon Monoxide [microgram/m3]	210	TTH/AAQM/08	4000
2	Lead [microgram/m3]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Nitrogen Dioxide as NO2 [microgram/m3]	13.24	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
4	Particulate Matter (PM2.5) [microgram/m3]	23.56	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	54	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai Yogi
Puran Mai Yogi

Rajesh Maheshwari
Rajesh Maheshwari



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TEST REPORT

Report No./ULR No. :	400001220	Date :	09-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-06-2025 10:39 to 23-06-2025 10:39
Point of Collection :	Maton Village [Latitude:24.33'12" Longitude:73.47'39"]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 09-07-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
7	Silica [SiO ₂] [%]	2.87	CPCB Guidelines	Not specified
8	Phosphate [microgram/m ³]	0.31	TTH/AAQM/11	Not specified

Notes :-

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Puran Mai Yogi
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: 400001220)



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TEST REPORT

Report No./ULR No. :	25400001221	Date :	09-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-06-2025 10:41 to 23-06-2025 10:41
Point of Collection :	Lakadwas Village [Latitude:24.33'32" Longitude:73.48'21"]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 09-07-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Carbon Monoxide [microgram/m3]	220	TTH/AAQM/08	4000
2	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Nitrogen Dioxide as NO2 [microgram/m3]	14.03	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
4	Particulate Matter (PM2.5) [microgram/m3]	27.52	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	66.67	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai Yogi
Puran Mai Yogi

Rajesh Maheshwar
Rajesh Maheshwar



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TEST REPORT

Report No./ULR No. :	400001221	Date :	09-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-06-2025 10:41 to 23-06-2025 10:41
Point of Collection :	Lakadwas Village [Latitude:24.33°32" Longitude:73.48°21"]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 09-07-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
7	Silica [SiO ₂] [%]	3.23	CPCB Guidelines	Not specified
8	Phosphate [microgram/m ³]	0.37	TTH/AAQM/11	Not specified

Notes :-

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Puran Mai Yogi
 Senior Analyst

Rakesh Maheshwar
 Authorized Signatory
 (Report No: 400001221)



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TEST REPORT

Report No./ULR No. :	25400001222	Date :	09-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-06-2025 10:42 to 24-06-2025 10:42
Point of Collection :	Umarda Village [Latitude:24.535395 Longitude:73.803885]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 09-07-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Carbon Monoxide [microgram/m3]	240	TTH/AAQM/08	4000
2	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Nitrogen Dioxide as NO2 [microgram/m3]	13.22	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
4	Particulate Matter (PM2.5) [microgram/m3]	23.96	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	56.49	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai Yogi
Puran Mai Yogi

Rajesh Maheshwari
Rajesh Maheshwari



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TEST REPORT

Report No./ULR No. :	400001222	Date :	09-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-06-2025 10:42 to 24-06-2025 10:42
Point of Collection :	Umarda Village [Latitude:24.535395 Longitude:73.803885]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 09-07-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
7	Silica [SiO ₂] [%]	2.96	CPCB Guidelines	Not specified
8	Phosphate [microgram/m ³]	0.45	TTH/AAQM/11	Not specified

Notes :-

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Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 400001222)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25400001766	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-09-2025 14:29 to 23-09-2025 14:30
Point of Collection :	Mine Lease Area [Latitude:24.542356 Longitude:73.796461]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
2	Lead [microgram/m3]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Nitrogen Dioxide as NO2 [microgram/m3]	14.45	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
4	Particulate Matter (PM2.5) [microgram/m3]	35.89	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.12	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	76.06	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Purnan Mai Yogi
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: 25400001766)



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

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 Phone : +91 9460222039, 9460222049,
 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001766	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-09-2025 14:29 to 23-09-2025 14:30
Point of Collection :	Mine Lease Area [Latitude:24.542356 Longitude:73.796461]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Silica [SiO ₂] [%]	3.89	CPCB Guidelines	-
8	Phosphate [microgram/m ³]	0.46	TTH/AAQM/11	-

Notes :-

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Purna Mai Yogi
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: 400001766)



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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25400001767	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-09-2025 15:37 to 22-09-2025 15:37
Point of Collection :	kharwaria Village [Latitude:24.33'9" Longitude:73.47'3"]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Nitrogen Dioxide as NO2 [microgram/m3]	13.36	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
4	Particulate Matter (PM2.5) [microgram/m3]	29.36	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	62.04	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai Yogi
Senior Analyst

Krashna Murari
Authorized Signatory
(Report No: 25400001767)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001767	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-09-2025 15:37 to 22-09-2025 15:37
Point of Collection :	kharwaria Village [Latitude:24.33'9" Longitude:73.47'3"]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Silica [SiO ₂] [%]	3.91	CPCB Guidelines	-
8	Phosphate [microgram/m ³]	0.39	TTH/AAQM/11	-

Notes :-

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Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 400001767)



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 Phone : +91 9460222039, 9460222049,
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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25400001768	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-09-2025 15:38 to 22-09-2025 15:38
Point of Collection :	Maton Village [Latitude:24.33'12" Longitude:73.47'39"]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Nitrogen Dioxide as NO2 [microgram/m3]	13.6	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
4	Particulate Matter (PM2.5) [microgram/m3]	28.2	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	57.25	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai Yogi
 Senior Analyst

*Brij-
 Rajesh Mehta*
 Authorized Signatory
 (Report No: 25400001768)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001768	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-09-2025 15:38 to 22-09-2025 15:38
Point of Collection :	Maton Village [Latitude:24.33'12" Longitude:73.47'39"]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Silica [SiO ₂] [%]	2.71	CPCB Guidelines	-
8	Phosphate [microgram/m ³]	0.37	TTH/AAQM/11	-

Notes :-

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Senior Analyst **Neetu Yogi**


Rajesh Maheshwar
Authorized Signatory
(Report No: 400001768)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25400001769	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-09-2025 15:39 to 22-09-2025 15:39
Point of Collection :	Lakadwas Village [Latitude:24.33'32" Longitude:73.48'21"]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
2	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Nitrogen Dioxide as NO2 [microgram/m3]	13.83	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
4	Particulate Matter (PM2.5) [microgram/m3]	23.79	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	55.19	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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- # The samples will be destroyed after 16 days from the date of issue of test report unless otherwise specified.

Puran Mai Yogi
 Senior Analyst

Rajesh Singhaywari
 Authorized Signatory
 (Report No: 25400001769)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001769	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-09-2025 15:39 to 22-09-2025 15:39
Point of Collection :	Lakadwas Village [Latitude:24.33'32" Longitude:73.48'21"]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Silica [SiO ₂] [%]	2.97	CPCB Guidelines	-
8	Phosphate [microgram/m ³]	0.32	TTH/AAQM/11	-

Notes :-

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Gurjeet Kaur Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001769)



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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25400001770	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-09-2025 15:40 to 23-09-2025 15:40
Point of Collection :	Umarda Village [Latitude:24.535395 Longitude:73.803885]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	280	TTH/AAQM/08	4000
2	Lead [microgram/m ³]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.55	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
4	Particulate Matter (PM2.5) [microgram/m ³]	29.71	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m ³]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m ³]	77.96	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mai Yogi

Senior Analyst

Rakesh Mehta
 Authorized Signatory
 (Report No: 25400001770)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001770	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-09-2025 15:40 to 23-09-2025 15:40
Point of Collection :	Umarda Village [Latitude:24.535395 Longitude:73.803885]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
7	Silica [SiO ₂] [%]	3.17	CPCB Guidelines	-
8	Phosphate [microgram/m ³]	0.31	TTH/AAQM/11	-

Notes :-

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Pratik Yogi
 Senior Analyst

Baj
 Authorized Signatory
 (Report No: 400001770)

ANNEXURE 10

AMBIENT NOISE



TEAM TEST HOUSE
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TEST REPORT

Report No./ULR No. :	25600000986	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	24.06.2025
Point of Collection	Mine Lease Area	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Day Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	6-7 AM	59.5	55.2	46.5	58.0
2	7-8 AM	58.3	54.3	47.8	56.1
3	8-9 AM	61.2	57.6	50.2	59.6
4	9-10 AM	60.5	56.7	49.6	58.7
5	10-11 AM	63.5	59.4	51.4	61.8
6	11-12 AM	62.4	57.4	52.1	59.2
7	12-13 PM	63.7	59.2	53.2	61.0
8	13-14 PM	68.6	61.4	48.9	67.9
9	14-15 PM	65.3	60.2	48.5	64.9
10	15-16 PM	66.5	61.4	53.2	64.3
11	16-17 PM	68.2	62.4	56.4	64.7
12	17-18 PM	66.7	63.5	57.8	64.8
13	18-19 PM	62.3	57.8	52.3	59.5
14	19-20 PM	61.4	58.2	53.5	59.2
15	20-21 PM	65.2	59.6	54.5	61.5
16	21-22 PM	63.4	58.4	53.5	60.0
Leq Day (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60])					61.3

Notes :-

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Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000986)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600000986	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	24.06.2025
Point of Collection	Mine Lease Area	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Night Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	47.3	58.3	50.6	48.5	52.2
2	46.6	59.5	52.3	46.7	55.0
3	47.2	58.6	51.4	48.3	53.2
4	49.5	60.5	48.9	45.2	52.8
5	46.3	59.4	52.4	47.4	54.8
6	45.2	61.6	53.2	48.5	56.1
7	46.5	59.8	50.4	48.6	52.5
8	48.7	58.2	51.3	46.9	53.4
Leq Night (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60]))					53.7
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10 L-day/10) + 8 (10 (L-night +10)/10)]}					62.3

CPCB Norms

S. No	Category of area	Day Time dB	Night Time dB
		6:00 AM to 10:00 PM	10:00 PM to 6:00 AM
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Notes :-

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Purani Mai Yogi
Purani Mai Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000986)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600000987	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	23.06.2025
Point of Collection	Kharwaria village	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Day Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	6-7 AM	58.6	45.2	42.5	49.5
2	7-8 AM	55.4	48.3	43.2	50.8
3	8-9 AM	58.4	45.2	42.7	49.3
4	9-10 AM	57.3	47.3	45.2	49.7
5	10-11 AM	55.8	50.8	42.4	53.8
6	11-12 AM	61.4	51.7	49.7	54.0
7	12-13 PM	58.2	54.5	45.4	57.2
8	13-14 PM	61.5	50.5	47.5	53.8
9	14-15 PM	57.8	51.2	46.3	53.4
10	15-16 PM	59.3	48.3	44.7	51.9
11	16-17 PM	63.5	50.2	43.6	56.8
12	17-18 PM	58.2	49.3	45.2	52.1
13	18-19 PM	60.5	48.4	43.2	53.4
14	19-20 PM	58.3	48.2	41.7	52.8
15	20-21 PM	61.2	45.3	43.2	50.7
16	21-22 PM	57.4	43.4	41.5	47.6
Leq Day (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60])					52.3

Notes :-

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Praveen
 Senior Analyst Yogi

Praveen
 Authorized Signatory
 (Report No: 25600000987)



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(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600000987	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	23.06.2025
Point of Collection	Kharwaria village	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unif's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Night Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	22-23 PM	48.9	40.6	40.8	41.7
2	23-24 PM	47.3	41.8	39.2	42.9
3	0-1 AM	48.9	39.6	40.5	40.8
4	1-2 AM	50.7	41.2	41.2	42.7
5	2-3 AM	51.5	40.3	37.4	43.6
6	3-4 AM	53.2	42.7	40.6	45.3
7	4-5 AM	48.3	41.3	38.5	42.9
8	5-6 AM	47.6	39.5	41.3	40.2
Leq Night (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60])					42.5
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10 L-day/10) + 8 (10 (L-night +10)/10)]}					52.4

CPCB Norms

S. No	Category of area	Day Time dB 6:00 AM to 10:00 PM	Night Time dB 10:00 PM to 6:00 AM
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Notes :-

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Purush Mai Yogi
 Senior Analyst

Rajeshwari
 Authorized Signatory
 (Report No: 25600000987)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600000988	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	23.06.2025
Point of Collection	Lakadwas village	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Day Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	6-7 AM	52.6	44.3	39.2	47.3
2	7-8 AM	53.2	45.5	41.5	47.8
3	8-9 AM	52.3	46.6	41.3	48.6
4	9-10 AM	54.5	47.7	42.2	50.2
5	10-11 AM	55.6	45.4	43.3	47.9
6	11-12 AM	56.7	47.6	41.2	51.6
7	12-13 PM	56.8	45.8	42.6	49.2
8	13-14 PM	57.3	46.7	43.6	49.8
9	14-15 PM	57.9	45.2	43.5	48.7
10	15-16 PM	58.5	47.3	45.2	50.2
11	16-17 PM	56.4	45.4	43.7	48.1
12	17-18 PM	55.2	54.7	42.6	57.3
13	18-19 PM	56.3	53.6	48.9	54.5
14	19-20 PM	54.2	52.5	47.3	53.3
15	20-21 PM	52.3	51.3	46.8	51.8
16	21-22 PM	52.1	50.4	43.5	51.6
Leq Day (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60]))					50.5

Notes :-

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Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No:25600000988)



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TEST REPORT

Report No./ULR No. :	25600000988	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	23.06.2025
Point of Collection	Lakadwas village	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Night Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	22-23 PM	47.8	40.2	41.3	40.9
2	23-24 PM	48.9	42.3	40.2	43.6
3	0-1 AM	46.8	41.5	39.5	42.4
4	1-2 AM	45.5	42.7	41.6	43.0
5	2-3 AM	45.3	40.2	38.5	41.0
6	3-4 AM	47.4	42.3	43.2	42.6
7	4-5 AM	48.5	42.6	41.3	43.5
8	5-6 AM	45.4	40.7	40.2	41.2
Leq Night (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60])					42.2
Day-Night Sound Level (Ldn) = 10 log {1/24 [16 (10 L-day/10) + 8 (10 (L-night +10)/10)]}					51.1

CPCB Norms

S. No	Category of area	Day Time dB 6:00 AM to 10:00 PM	Night Time dB 10:00 PM to 6:00 AM
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

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Puran Mai Yogi
 Senior Analyst

Rakesh Maheshwari
 Authorized Signatory

(Report No: 25600000988)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600000989	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	23.06.2025
Point of Collection	Lakadwas village	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Day Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	6-7 AM	52.6	45.2	43.3	46.6
2	7-8 AM	55.3	47.6	43.5	49.9
3	8-9 AM	53.2	46.5	45.3	47.5
4	9-10 AM	55.4	47.3	43.5	49.7
5	10-11 AM	52.4	46.8	42.9	48.3
6	11-12 AM	53.5	48.2	45.7	49.2
7	12-13 PM	56.2	47.5	42.6	50.6
8	13-14 PM	57.5	48.6	43.5	51.9
9	14-15 PM	55.6	49.6	45.2	51.4
10	15-16 PM	57.7	48.8	43.2	52.3
11	16-17 PM	54.3	47.4	45.3	48.8
12	17-18 PM	52.1	48.5	42.3	50.1
13	18-19 PM	55.7	47.2	43.4	49.7
14	19-20 PM	56.3	48.7	42.5	51.9
15	20-21 PM	54.6	45.2	43.3	47.3
16	21-22 PM	52.2	46.7	42.5	48.3
Leq Day (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60]))					49.6

Notes :-

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Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 2560000989)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600000989	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	23.06.2025
Point of Collection	Lakadwas village	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Night Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	22-23 PM	47.3	43.5	41.5	44.1
2	23-24 PM	46.6	37.8	36.5	39.5
3	0-1 AM	47.2	40.3	39.8	41.2
4	1-2 AM	49.5	39.8	37.6	42.2
5	2-3 AM	46.3	40.3	38.5	41.3
6	3-4 AM	45.2	41.5	40.5	41.9
7	4-5 AM	46.5	39.2	37.4	40.6
8	5-6 AM	48.7	41.3	40.5	42.4
Leq Night (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60])					41.6
Day-Night Sound Level (L _{dn}) = 10 log {1/24 [16 (10 L-day/10) + 8 (10 (L-night +10)/10)]}					50.4

CPCB Norms

S. No	Category of area	Day Time dB 6:00 AM to 10:00 PM	Night Time dB 10:00 PM to 6:00 AM
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Notes :-

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Puran Mai Yogi
Puran Mai Yogi
 Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
 Authorized Signatory

(Report No: 25600000989)



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TEST REPORT

Report No./ULR No. :	25600000990	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	24.06.2025
Point of Collection	Umarda village	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Day Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	6-7 AM	52.6	46.5	42.3	48.3
2	7-8 AM	53.7	46.8	43.5	48.5
3	8-9 AM	55.7	47.5	43.8	49.9
4	9-10 AM	56.8	48.5	46.3	50.3
5	10-11 AM	57.4	48.3	43.5	51.5
6	11-12 AM	58.7	51.3	46.5	53.8
7	12-13 PM	55.5	48.5	45.4	50.2
8	13-14 PM	56.5	50.3	47.5	51.7
9	14-15 PM	54.5	51.2	46.3	52.3
10	15-16 PM	55.4	49.3	44.7	51.2
11	16-17 PM	56.5	47.5	43.6	50.3
12	17-18 PM	54.2	46.2	45.2	47.6
13	18-19 PM	52.5	45.7	43.2	47.1
14	19-20 PM	53.3	48.2	41.7	50.4
15	20-21 PM	55.4	48.3	45.6	49.9
16	21-22 PM	54.4	47.4	42.5	49.8
Leq Day (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60])					50.2

Notes :-

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Puran
Puran Mai Yogi
 Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
 Authorized Signatory
 (Report No: 25600000990)



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(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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JDA/UDH

RSPCB

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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600000990	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	24.06.2025
Point of Collection	Umarda village	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Night Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	22-23 PM	47.5	37.6	39.8	38.6
2	23-24 PM	50.5	38.8	39.2	40.9
3	0-1 AM	48.9	39.6	40.5	40.8
4	1-2 AM	48.2	40.2	39.2	41.6
5	2-3 AM	51.4	39.8	38.4	42.6
6	3-4 AM	50.6	38.7	40.6	40.4
7	4-5 AM	51.4	37.5	38.5	40.3
8	5-6 AM	47.3	40.5	41.3	41.1
Leq Night (Leq =L ₅₀ + [(L ₁₀ - L ₉₀) ² /60]))					40.8
Day-Night Sound Level (Ldn)= 10 log {1/24 [16 (10 L-day/10) + 8 (10 (L-night +10)/10)]}					50.4

CPCB Norms

S. No	Category of area	Day Time dB	Night Time dB
		6:00 AM to 10:00 PM	10:00 PM to 6:00 AM
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Notes :-

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Puran Mai Yogi
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory

(Report No: 25600000990)



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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600000991	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	24.06.2025
Point of Collection	Near Udaisagar Village	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Day Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	6-7 AM	56.8	48.6	42.6	52.0
2	7-8 AM	57.4	47.4	41.3	51.7
3	8-9 AM	55.2	48.5	42.2	51.3
4	9-10 AM	56.7	46.5	41.7	50.3
5	10-11 AM	57.6	48.7	43.5	52.0
6	11-12 AM	58.8	50.3	44.2	53.9
7	12-13 PM	60.4	51.6	47.3	54.5
8	13-14 PM	59.6	52.6	49.5	54.3
9	14-15 PM	61.2	53.6	53.2	54.7
10	15-16 PM	59.7	51.4	52.5	52.3
11	16-17 PM	58.4	55.2	53.4	55.6
12	17-18 PM	57.6	53.4	49.8	54.4
13	18-19 PM	60.3	52.5	46.6	55.6
14	19-20 PM	57.6	51.3	45.5	53.7
15	20-21 PM	55.2	50.4	44.5	52.3
16	21-22 PM	56.8	51.3	43.5	54.2
Leq Day (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60])					53.3

Notes :-

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Puran Mai Yogi
 Senior Analyst

Rajesh Mankeshwari
 (Report No: 25600000991)



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TEST REPORT

Report No./ULR No. :	25600000991	Date :	09.07.2025
Issued To :	M/S HINDUSTHAN ZINC LIMITED [Maton Mines] Rock phosphate Maton Mine P.O. -Maton, District- Udaipur (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Noise Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	24.06.2025
Point of Collection	Near Udaisagar Village	Date of Receipt :	28.06.2025
Date of Test/Analysis:	28.06.2025 to 09.07.2025	Sampling Plan :	TTH/NOISE/01 [IS : 9989]
Quantity of Sample :	-	Sample Collected By	Krishna Murari
Unit's representative:	Mr. Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No.	Time Hours	Sound Pressure Level dB(A) Night Time			Leq
		L ₁₀	L ₅₀	L ₉₀	
1	22-23 PM	47.5	41.3	40.2	42.2
2	23-24 PM	48.7	42.5	42.3	43.2
3	0-1 AM	50.6	43.5	42.6	44.6
4	1-2 AM	48.5	41.6	38.5	43.3
5	2-3 AM	49.3	40.3	37.2	42.7
6	3-4 AM	50.3	43.6	42.8	44.5
7	4-5 AM	53.7	41.3	40.5	44.2
8	5-6 AM	50.4	42.7	41.8	43.9
Leq Night (Leq = L ₅₀ + [(L ₁₀ - L ₉₀) ² / 60]))					43.6
Day-Night Sound Level (Ldn)= 10 log {1/24 [16 (10 L-day/10) + 8 (10 (L-night +10)/10))]}					53.6

CPCB Norms

S. No	Category of area	Day Time dB 6:00 AM to 10:00 PM	Night Time dB 10:00 PM to 6:00 AM
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

Notes :-

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Puran Mai Yogi
Puran Mai Yogi
Senior Analyst

Rajesh Ratheshwari
Rajesh Ratheshwari
Authorized Signatory
(Report No: 25600000991)



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TEST REPORT

Report No./ULR No. :	25600001445	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Kharwaria Village [Latitude:24.33'9" Longitude:73.47'3"]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 01-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	51.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.5	IS 9989	45

Notes :-

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Senior Analyst *[Signature]*

[Signature]
Rajesh Maheshwari
 Authorized Signatory
 (Report No: 25600001445)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600001444	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Mine Lease Area [Latitude:24.542517 Longitude:73.796237]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 01-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	57.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.7	IS 9989	65

Notes :-

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Puran Mai Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 25600001444)



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TEST REPORT

Report No./ULR No. :	25600001446	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Maton Village [Latitude:24.33'12" Longitude:73.47'39"]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 01-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	52.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.4	IS 9989	45

Notes :-

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Puran Mehta Yogi

Senior Analyst

Rajesh Mehta Chhatri
Authorized Signatory
(Report No: 25600001446)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600001447	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Lakadwas Village [Latitude:24.549051 Longitude:73.809336]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 01-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	50.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.5	IS 9989	45

Notes :-

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Puran Mai Yogi
 Senior Analyst

Krashna Murari
 Authorized Signatory
 (Report No: 25600001447)



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TEST REPORT

Report No./ULR No. :	25600001448	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Umarda Village [Latitude:24.538416 Longitude:73.796116]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 01-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	52.4	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.3	IS 9989	45

Notes :-

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Puran Mai Yogi
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: 25600001448)



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TEST REPORT

Report No./ULR No. :	25600001449	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Udai Sagar Village [Latitude:24.579364 Longitude:73.824952]	Date of Receipt :	24-09-2025
Date of Test/Analysis :	24-09-2025 to 01-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	51.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.7	IS 9989	45

Notes :-

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Purnima Yogi
Senior Analyst

Rakesh Mohashwari
Authorized Signatory
(Report No: 25600001449)

GROUND AND SURFACE WATER



TEAM TEST HOUSE
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TEST REPORT

Report No./JLR No. :	25100001128	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Mine Lease Area [Ground Water] [Latitude:24.542567 Longitude:73.796235]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 1	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.57	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	411.76	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	171.22	IS 3025 (Part 32) : 1988. RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	742	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	82.35	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	50.03	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	116.82	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	14.19	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.72	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	231.6	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	3113 -B , APHA 24th Edition	0.03	0.2
20	Sodium [mg/l]	85	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1397	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	14	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	Less than 1	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-
29	Silica [mg/l]	7.83	4500-SiO2 C , APHA 24th Edition	-	-

Notes :-

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Balram Agarwal
Balram Agarwal

Rajesh Mehta
Rajesh Mehta



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001128	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Mine Lease Area [Ground Water] [Latitude:24.542567 Longitude:73.796235]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
30	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory

(Report No: 100001128)



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TEST REPORT

Report No./ULR No. :	25100001129	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Kharwaria Village [Ground Water] [Latitude:24.553425 Longitude:73.790694]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 1	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.15	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	558.82	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	0.04	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	562.59	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1725	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	168.63	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	33.35	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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 Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	361.70	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	35.28	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.81	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	202.65	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	3113 -B , APHA 24th Edition	0.03	0.2
20	Sodium [mg/l]	378	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	2976	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	16	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	1.2	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	1.7	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-
29	Silica [mg/l]	More than 10	4500-SiO2 C , APHA 24th Edition	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram Agarwal
Balram Agarwal

Rajesh Maneshwar
Rajesh Maneshwar



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TEST REPORT

Report No./ULR No. :	100001129	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Kharwaria Village [Ground Water] [Latitude:24.553425 Longitude:73.790694]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
30	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwar
(Report No: 100001129)



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TEST REPORT

Report No./ULR No. :	25100001130	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Maton Village [Ground Water] [Latitude:24.653476 Longitude:73.794126]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 1	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.46	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	490.2	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	117.41	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	816	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	121.57	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	45.27	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	285.3	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	31.56	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.83	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	164.05	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	3113 -B , APHA 24th Edition	0.03	0.2
20	Sodium [mg/l]	92	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1695	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	16	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	4.6	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-
29	Silica [mg/l]	6.35	4500-SiO2 C , APHA 24th Edition	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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B. Agarwal
B. Agarwal

Rajesh Maheshwari
Rajesh Maheshwari



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TEST REPORT

Report No./ULR No. :	100001130	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Maton Village [Ground Water] [Latitude:24.553476 Longitude:73.794126]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
30	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram Agarwal
Senior Analyst

Rajesh Meleshwari
Authorized Signatory
(Report No: 100001130)



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TEST REPORT

Report No./ULR No. :	25100001131	Date:	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Lakadwas Village [Ground Water] [Latitude:24.553254 Longitude:73.794116]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 1	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.30	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	509.8	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	317.99	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1175	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	149.02	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	33.35	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	218.19	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	22.36	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.72	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	241.25	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	3113 -B , APHA 24th Edition	0.03	0.2
20	Sodium [mg/l]	252	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1998	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	21	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	2.4	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-
29	Silica [mg/l]	More than 10	4500-SiO2 C , APHA 24th Edition	-	-

Notes :-

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Balram Agarwal
Balram Agarwal

Rajesh Maheshwar
Rajesh Maheshwar



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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001131	Date:	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Lakadwas Village [Ground Water] [Latitude:24.553254 Longitude:73.794116]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
30	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Meherewari
Authorized Signatory
(Report No: 100001131)



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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25100001132	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Umarda Village [Ground Water] [Latitude:24.538181 Longitude:73.795879]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 1	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	6.96	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	529.41	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	249.5	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1222	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	94.12	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	71.47	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	209.16	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	30.57	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.92	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	511.45	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	3113 -B , APHA 24th Edition	0.03	0.2
20	Sodium [mg/l]	210	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	2062	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	19	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	8.4	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-

Notes :-

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Balram Agarwal
 Senior Analyst

Rajesh Maneshwari



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001132	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Umarda Village [Ground Water] [Latitude:24.538181 Longitude:73.795879]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
30	Silica [mg/l]	18.07	4500-SiO ₂ C , APHA 24th Edition	-	-

Notes :-

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Balram Agarwal
 Senior Analyst

Rakesh Maheshwari
 (Report No: 100001132)



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TEST REPORT

Report No./ULR No. :	25100001133	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Kanpur Village [Ground Water] [Latitude:24.561903 Longitude:73.770293]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 1	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.27	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	352.94	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	391.37	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1078	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	62.75	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	47.65	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	116.76	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	41.98	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.91	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	212.3	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	3113 -B , APHA 24th Edition	0.03	0.2
20	Sodium [mg/l]	212	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	2117	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	19	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	10.2	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-
29	Silica [mg/l]	8.96	4500-SiO2 C , APHA 24th Edition	-	-

Notes :-

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Balram Agarwal
Balram Agarwal

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Rajesh Maheshwari
Rajesh Maheshwari
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TEST REPORT

Report No./JLR No. :	100001133	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Kanpur Village [Ground Water] [Latitude:24.561903 Longitude:73.770293]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
30	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

Notes :-

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Balram Agarwal
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No. 100001133)



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JDA/UDH

TEST REPORT

Report No./ULR No. :	25100001134	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Nakoli Village [Ground Water] [Latitude:24.440409 Longitude:73.793953]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 1	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.16	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	578.43	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	127.19	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	869	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	152.94	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	47.65	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	186.42	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	11.56	4500-NO3-B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.92	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	405.3	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	3113 -B , APHA 24th Edition	0.03	0.2
20	Sodium [mg/l]	42	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1826	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	0.68	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	18	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	6.2	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-
29	Silica [mg/l]	9.32	4500-SiO2 C , APHA 24th Edition	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram Agarwal
 Balram Agarwal

Rajesh Maheshwari
 Rajesh Maheshwari



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001134	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Nakoli Village [Ground Water] [Latitude:24.440409 Longitude:73.793953]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
30	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Batra

Batrai Agarwal

Rajesh

Rajesh Maheshwari
 (Report No: 100001134)



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TEST REPORT

Report No./ULR No. :	25100001135	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Dhoonimata Village [Ground Water] [Latitude:24.635298 Longitude:73.883593]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 1	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.30	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	362.75	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	195.68	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	895	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	74.51	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	42.88	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	116.42	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	11.40	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.71	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	405.3	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	3113 -B , APHA 24th Edition	0.03	0.2
20	Sodium [mg/l]	170	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1660	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	17	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	5.2	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-
29	Silica [mg/l]	8.66	4500-SiO2 C , APHA 24th Edition	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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*Balram
Balram Agarwal*

Par



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TEST REPORT

Report No./ULR No. :	100001135	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Dhoonimata Village [Ground Water] [Latitude:24.635298 Longitude:73.883593]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
30	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram
 Balram Agarwal

Rajesh Maheshwari
 Rajesh Maheshwari
 Authorized Signatory
 (Report No: 100001135)



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TEST REPORT

Report No./ULR No. :	25100001136	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Bagdara Talav Village [Surface Water] [Latitude:24.30'60" Longitude:73.48'32"]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 1	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.34	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	549.02	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	269.07	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1032	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	180.39	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	23.82	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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 Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	189.16	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	7.22	4500-NO3-B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.53	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	212.3	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	3113 -B , APHA 24th Edition	0.03	0.2
20	Sodium [mg/l]	116	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1796	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	3.42	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	22	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	6.3	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-
29	Silica [mg/l]	9.14	4500-SiO2 C , APHA 24th Edition	-	-

Notes :-

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 Balram Agarwal

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Rajesh Maheshwar



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TEST REPORT

Report No./JLR No. :	100001136	Date :	03-10-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	23-09-2025
Point of Collection :	Bagdara Talav Village [Surface Water] [Latitude:24.30'60" Longitude:73.48'32"]	Date of Receipt :	24-09-2025
Date of Test :	24-09-2025 to 03-10-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
30	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwar
(Report No: 100001136)



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TEST REPORT

Report No./ULR No. :	25100000763	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Mine Lease Area [Ground Water] [Latitude:24.542567 Longitude:73.796235]	Date of Receipt :	27-06-2025
Date of Test/Analysis :	27-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.76	IS 3025 (Part 11) : 1983 RA 2017	8.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	372.55	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	148.89	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	583	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	70.59	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	47.65	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	97.4	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	11.58	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.61	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	205.8	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
20	Sodium [mg/l]	62	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1094	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	12	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	6.8	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram
Balram Agarwal

Puran
Puran Lal Yogi



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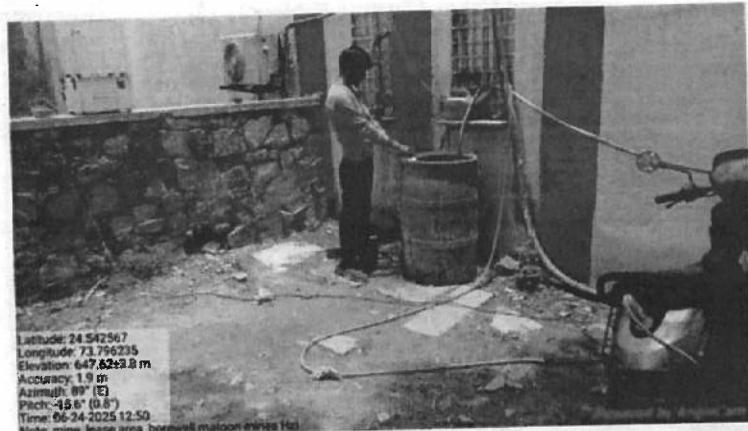
ISO 14001:2015.

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Email : marketinglab@teamtesthouse.com



Mine Lease Area [Ground Water] [Latitude:24.542567 Longitude:73.796235]

Balram Agarwal
Balram Agarwal
Senior Analyst

Purnima Yogi
Purnima Yogi
Authorized Signatory
(Report No: 25100000763)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100000763	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Mine Lease Area [Ground Water] [Latitude:24.542567 Longitude:73.796235]	Date of Receipt :	27-06-2025
Date of Test/Analysis :	27-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
30	Silica [mg/l]	6.52	4500-SiO ₂ C , APHA 24th Edition	-	-

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Balram Agarwal
Senior Analyst

Puran Mehta
Authorized Signatory
(Report No: 100000763)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25100000764	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton., District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Kharwaria Village [Ground Water] [Latitude:24.553425 Longitude:73.790694]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part 8) : 1984 RA 2017	Agreeable	-
4	pH	7.49	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	568.63	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	580.67	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1780	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	164.71	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	38.12	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3

Prerna



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	386.35	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	36.62	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.82	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	215.6	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
20	Sodium [mg/l]	390	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	3068	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	25	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	1.6	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	1.4	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram Agarwal
Senior Analyst

Parimal Yogi
Parimal Yogi
Authorized Signatory



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TEST REPORT

Report No./ULR No. :	100000764	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Kharwaria Village [Ground Water] [Latitude:24.553425 Longitude:73.790694]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
30	Silica [mg/l]	12.84	4500-SiO2 C , APHA 24th Edition	-	-

Notes :-

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 Senior Analyst

Authorized Signatory
 (Report No: 100000764)
Puran Mat Yogi



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TEST REPORT

Report No./ULR No. :	25100000765	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Maton Village [Ground Water] [Latitude:24.553476 Longitude:73.794126]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.30	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	558.82	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	158.82	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1052	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	145.1	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	47.65	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	387.60	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	42.54	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.91	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	156.8	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
20	Sodium [mg/l]	125	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	2038	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	19	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	6.8	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-

Notes :-

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Balram Agarwal
Senior Analyst

Purushottam Yogi
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100000765	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Maton Village [Ground Water] [Latitude:24.553476 Longitude:73.794126]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
30	Silica [mg/l]	8.54	4500-SiO ₂ C , APHA 24th Edition	-	-

Notes :-

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Sitaram Agarwal

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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25100000766	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Lakadwas Village [Ground Water] [Latitude:24.553254 Longitude:73.794116]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.09	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	578.43	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	0.02	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	411.93	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1506	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	184.31	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	28.59	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3

Rajendra



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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	306.72	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	35.98	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.96	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	343	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
20	Sodium [mg/l]	300	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	2614	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	0.98	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	32	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	3.2	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram Agarwal
 Senior Analyst

Puran Mai Yogi
 Authorized Signatory



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TEST REPORT

Report No./ULR No. :	100000766	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Lakadwas Village [Ground Water] [Latitude:24.553254 Longitude:73.794116]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
30	Silica [mg/l]	15.80	4500-SiO ₂ C , APHA 24th Edition	-	-

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Balram Agarwal
 Senior Analyst

Deepak Mai Yogi
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 (Report No: 100000766)



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TEST REPORT

Report No./ULR No. :	25100000767	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Umarda Village [Ground Water] [Latitude:24.538181 Longitude:73.795879]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.24	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	480.39	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	208.45	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1164	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	109.8	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	50.03	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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 Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	246.51	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	41.72	4500-N03- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.84	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	431.2	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
20	Sodium [mg/l]	200	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1928	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	27	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	9.2	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-

Notes :-

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TEST REPORT

Report No./ULR No. :	100000767	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Umarda Village [Ground Water] [Latitude:24.538181 Longitude:73.795879]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
30	Silica [mg/l]	17.32	4500-SiO ₂ C , APHA 24th Edition	-	-

Notes :-

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(Report No: 100000767)



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TEST REPORT

Report No./ULR No. :	25100000768	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Kanpur Village [Ground Water] [Latitude:24.561903 Longitude:73.770293]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	8.05	IS 3025 (Part 11) : 1983 RA.2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	372.55	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	416.89	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1035	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	47.06	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	61.94	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	97.5	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	34.6	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.82	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	166.6	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
20	Sodium [mg/l]	220	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	2059	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	29	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	12	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Praveen
Praveen Yogi
Authorized Signature



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TEST REPORT

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Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Kanpur Village [Ground Water] [Latitude:24.561903 Longitude:73.770293]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
30	Silica [mg/l]	8.3	4500-SiO ₂ C , APHA 24th Edition	-	-

Notes :-

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 (Report No: 100000768)



TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) JDA/UDH

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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25100000769	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Nakoli Village [Ground Water] [Latitude:24.440409 Longitude:73.793953]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.20	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	549.02	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	119.11	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	824	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	133.33	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	52.41	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

JDA/UDH

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	194.7	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	9.76	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.97	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	392	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
20	Sodium [mg/l]	34	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1653	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	0.62	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	25	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	7.8	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Balram Agarwal
Senior Analyst

Authorized Signatory



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TEST REPORT

Report No./ULR No. :	100000769	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Nakoli Village [Ground Water] [Latitude:24.440409 Longitude:73.793953]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
30	Silica [mg/l]	8.96	4500-SiO ₂ C , APHA 24th Edition	-	-

Notes :-

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Balram Agarwal
Balram Agarwal
Senior Analyst

P. S. Mehta
P. S. Mehta
Authorized Signatory
(Report No: 100000769)



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Email : marketinglab@teamtesthouse.com

IE-12357

IE-12357

TEST REPORT

Report No./ULR No. :	25100000770	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Dhoonimata Village [Ground Water] [Latitude:24.635298 Longitude:73.883593]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	7.93	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	392.16	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	228.3	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	992	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	70.59	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	52.41	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	135.7	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	9.52	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.79	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	450.8	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
20	Sodium [mg/l]	81	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1598	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	Less than 0.5	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	25	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	6.0	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	Less than 1	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	Less than 5	5220 C , APHA 24th Edition	-	-

Notes :-

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Balram Agarwal
 Senior Analyst

Purnima Yogi
 Authorized Signatory



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TEST REPORT

Report No./ULR No. :	100000770	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Dhoonimata Village [Ground Water] [Latitude:24.635298 Longitude:73.883593]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
30	Silica [mg/l]	10.40	4500-SIO2 C , APHA 24th Edition	-	-

Notes :-

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Balram Agarwal
Balram Agarwal
Senior Analyst

Puran Mat Yogi
Puran Mat Yogi
Authorized Signatory
(Report No: 100000770)



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TEST REPORT

Report No./ULR No. :	25100000752	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Bagdara Talav Village [Surface Water] [Latitude:24.30'60" Longitude:73.48'32"]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	pH	8.10	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Total Hardness [mg/l]	519.61	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	347.41	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	924	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	160.78	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	28.59	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
12	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3



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 Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Sulphate [mg/l]	175.12	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
14	Nitrate [mg/l]	5.12	4500-NO3- B , APHA 24th Edition	45.00	-
15	Fluoride [mg/l]	0.46	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
16	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
17	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
18	Alkalinity - T [mg/l]	147	IS 3025 (Part 23) : 1986 RA 2019	200	600
19	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
20	Sodium [mg/l]	96	IS 3025 (Part 45) : 1993 RA 2019	-	-
21	Conductivity at 25°C [micromho/cm]	1493	2510- B , APHA 24th Edition	-	-
22	Phosphate [mg/l]	3.80	IS 3025 (Part 31) : 1988 RA 2019	-	-
23	Residual free chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
24	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
25	Total Suspended Solids [mg/l]	18	IS 3025 (Part 17) : 1984 RA 2017	-	-
26	Potassium [mg/l]	7.2	IS 3025 (Part 45) : 1993 RA 2019	-	-
27	Biochemical Oxygen Demand (BOD) [mg/l]	2.8	IS 3025 (Part 44) : 1993 RA 2019	-	-
28	Chemical Oxygen Demand (COD) [mg/l]	12.54	5220 C , APHA 24th Edition	-	-

Notes :-

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Balram
Balram Agarwal
 Senior Analyst

Puran
Puran Mehta Yogi
 Authorized Signatory



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TEST REPORT

Report No./JLR No. :	100000752	Date :	12-07-2025
Issued To :	M/S Hindustan Zinc Limited [Maton Mines] Rock Phosphate Maton Mines P.O.-Maton,, District - Udaipur (Rajasthan) (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	24-06-2025
Point of Collection :	Bagdara Talav Village [Surface Water] [Latitude:24.30'60" Longitude:73.48'32"]	Date of Receipt :	28-06-2025
Date of Test/Analysis :	28-06-2025 to 12-07-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Madhukar Pancholia	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-
30	Silica [mg/l]	10.47	4500-SiO ₂ C , APHA 24th Edition	-	-

Notes :-

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Balram Agarwal
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