ISO 9001 : 2015 (Excl. Design)
ISO 14001:2015
ISO : 45001:2018
ISO : 50001:2018
SA 8000:2014
BUREAU VERITAS Certifications

PRISM PLUS CHAMPION CEMENT
दूर की सोच

Through – Parivesh Portal

Ref: PJL/MIN/CM/2024/41

30.11.2024

To,
Regional Director
Ministry of Environment, Forest and Climate Change
Regional Office, Western Region
Kendriya Paryavaran Bhavan
Link Road No. 3, E-5, Ravishankar Nagar
Bhopal – 462016

Subject: Submission of Six-Monthly Compliance Report for Environmental Clearance – Chulhi Majhiyar Limestone Mine (176.619 ha), M/s Prism Johnson Ltd., Villages Chulhi & Majhiyar, Tehsil Kotar, District Satna, Madhya Pradesh

Reference: Environmental Clearance Letter No. J-11015/86/2018-IA.II (M), dated 26th July 2021

Dear Sir,

With reference to the above subject and the environmental clearance granted vide your letter no. J-11015/86/2018-IA.II (M), dated 26th July 2021, we are pleased to submit the six-monthly compliance report for the period April 2024 to September 2024 for the limestone deposit located at Villages Chulhi & Majhiyar, Tehsil Kotar, District Satna, Madhya Pradesh.

The compliance report has been prepared as per the conditions stipulated in the environmental clearance. All necessary enclosures and supporting documents are included for your kind review.

We trust that the report fulfills the required criteria and is in order.

Thank you.

Yours sincerely,
For Prism Johnson Limited

Chandra Shekhar Pandit
Sr. General Manager – Mines & Project Proponent

Enclosures: As stated above

PRISM JOHNSON LIMITED
(Cement Division)
Works: Village Mankahari, P.O.-Bathia, Dist. Satna - 485 111 (M.P.) India T: +91-07672-275301 / 302600
Corres. Add.: 'Rajdeep', Rewa Road, Satna - 485 001 (M.P.) India. T: +91-07672-402726
Registered Office: Prism Johnson Limited, 305, Laxmi Niwas Apartments, Ameerpet, Hyderabad - 500 016, India.
w: www.prismjohnson.in, www.cement.prismjohnson.in, E: info@prismjohnson.in
CIN: L26942TG1992PLC014033

PRISM CHAMPION CEMENT | PRISM CHAMPION DURATECH CEMENT

Compliance report with Regard to Environment Clearance accorded by MoEF&CC vide letter no.J-11015/86/2018-IA.II(M) dated 26.07.2021

S. No.	Conditions	Compliance Status
A	***Specific Conditions***	
1	The budget of Rs 1.65 Crores to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations.	Time bound Action Plan has been sent to the MoEFCC vide letter PJL/MIN/C&M/2022-01A dated 14/03/22. A copy of the same is attached as **Annexure 1.**
2	The Project Proponent shall undertake the plantation in peripheral zone and ensure that the plantation in peripheral zone and plantation along haul roads should be completed within 3 years from the date of commencement of mining operations with at least 90% survival rate. Causalities of the previous year should be replaced other than the saplings proposed to be planted every year. PP shall provide tree guard to maintain the early stages of plant growth.	Plantation will be done in phase manner in the peripheral zone and along the roads. 1500 nos of saplings have been planted on the periphery of the lease during FY 2024-25(till September).
3	The Project Proponent shall strictly adhere that the transport of limestone shall be from 8 AM to 8 PM with 25 Ton Tipper with maximum speed of 20 km/hr on public road.	Agreed.
4	The Project Proponent shall implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the Central/State Government, as provided under the law.	Compensation to the PAFs will be as per the policy and guidelines of Madhya Pradesh Govt. and Madhya Pradesh Land Revenue Code, 1959.
5	The Project Proponent should undertake regular monitoring of ground water level and surface water quality and take preventive measures for protection of water bodies within the lease area as well as nearby the mines.	Regular monitoring is being done for the groundwater level and surface water quality. Monitoring report is attached as **Annexure 2** Safety barrier of 50 m is left from the water bodies within mining lease boundary.
6	The Project Proponent shall conduct the detailed hyderogeological study and obtain the NOC/permission from CGWA before intersection of ground water table. The mining operations shall be restricted to above ground water table and it should not intersect the ground water table till obtain the NCDC from the CCWA.	A detailed Comprehensive Hydrological Study has been conducted and a NOC from CGWA has been obtained for a fresh water abstraction of 3 m3/ day and dewatering capacity of 300 m3/day vide Application No. 21-4/1084/MP/MIN/2021 valid from 23/03/24 to 22/03/26. A copy of the same is attached as **Annexure 3.**
7	The Project Proponent shall provide the fresh gas connection to 245 households and 2 no of cylinders per annum.	Time bound Action Plan regarding the same has been sent to the MoEFCC vide letter PJL/MIN/C&M/2022-01A dated 14/03/22. A copy of the same is attached as **Annexure 1.**
8	The Project Proponent shall obtain the NOC from CGWA for intersection of ground water table.	NOC from CGWA has been obtained for a fresh water abstraction of 3 m3/ day and

		dewatering capacity of 300 m3/day vide Application No. 21-4/1084/MP/MIN/2021 validfrom 23/03/24 to 22/03/26. A copy of the same is attached as **Annexure 3.**
9	The topsoil, 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.	The top soil will be stacked at earmarked location as per the approved mining plan which will then be used for plantation and reclamation purpose.
10	Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.	Occupational health check-ups for the employees and workers are being carried out. A copy of the report has been attached as **Annexure 4**
B.	***Standard Conditions***	
I	**Statutory compliance**	
1	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	Agreed.
2	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	Agreed
3	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.	Agreed.
4	The Project Proponent shall follow the mitigation measures provided in MoEFCC, Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled, "Impact of mining activities on Habitations-Issues related to the mining Projects where Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	Agreed.
5	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. If any, from whom suggestion / representation has been received while processing the proposal.	A copy of the EC letter has been sent to the Concerned Panchayat. **Annexure 5**
6	State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 clays.	Agreed.

7	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and website of the Ministry of Environment, Forest and Climate Change (www.parivesh.com). The advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.	The grant of EC was advertised in two local newspapers namely Star Samachar and Dainik Bhaskar both on date 31st July, 2021. A copy of the same is attached as **Annexure 6.**
8	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred. PP needs to apply for transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	Agreed. Shall be done as and when applicable.
II	**Air quality monitoring and preservation**	
9	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. 8-29016/20/90/PCI/I dated 18.11.2009 covering the aspects of Mining plan and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main gate of mine site.	Agreed. Operation has begun in 1 block only and accordingly 1 No. of CAAQMS had been installed and installation of 1 CAAQMS is under progress. A copy of Air quality monitoring report is attached as **Annexure 7.**
10	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM-10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water -soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the Generals prescribed by the MoEFCC/ Central Pollution Control Board.	Dust suppression measures like water sprinkling on the haul road and approach road has been done via water tanker. The air quality monitoring report shows that the parameters are well within the permissible limits prescribed by the CPCB. The Air quality monitoring report is attached as **Annexure 7.**

III.	**Water quality monitoring and preservation**	
11	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.	NOC from CGWA has been obtained for a fresh water abstraction of 3 m3/ day and dewatering capacity of 300 m3/day vide Application No. 21-4/1084/MP/MIN/2021 valid from 23/03/24 to 22/03/26. A copy of the same is attached as **Annexure 3.**
12	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo -meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six- monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.	Regular monitoring of groundwater quality and levels is being done and proper records are being maintained and sent to the concerned authorities in time bound period. The Report is attached as **Annexure 2.**
13	The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre monsoon (April May), monsoon (August), post monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.	Regular monitoring of surface water quality is being undertaken four times in year and concerned parameters is monitored and records of monitoring is maintained. Records of the monitored data is being sent to concerned authorities on six monthly basis. A copy of the same is attached as **Annexure 8.**

14	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO) pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board at a suitable location near the main gate of the Company. The circular No. J 20012/1/2006/IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change, may also be referred in this regard.	Concerned parameters is being monitored regularly and monitored records is being uploaded on the company website. **Annexure 9.**
15	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.	Rainwater harvesting structures is being built to augment groundwater resources in the area.
16	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified Generals prescribed from time to time. The Generals shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.	There will not be any waste water generation due to mining activities. The rainwater runoff from the dumps is being/ will be channeled through garland drains and treated by settling pond. Thus treated water is being/ shall be used for dust suppression and irrigation purposes for the plantation fulfilling the zero discharge system.
17	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of MoEF&CC and State Pollution Control Board/Committee.	A detailed Comprehensive Hydrological Study has been conducted and a NOC from CGWA has been obtained for a fresh water abstraction of 3 m3/ day and dewatering capacity of 300 m3/day vide NOC no. Application No. 21-4/1084/MP/MIN/2021 validfrom 23/03/24 to 22/03/26. A copy of the same is attached as **Annexure 3.**
IV.	**Noise and vibration monitoring and prevention**	
18	The peak particle velocity at 500 m distance or within the nearest habitation whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Agreed. Ground vibration is being measured on regular basis as per DGMS guidelines.

<table>
<tr><td>19</td><td>The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.</td><td>Agreed. Noise level monitoring is being done regularly which show that all the ambient noise levels (both, at day and night) are well within the prescribed limits of CPCB guidelines. A copy of the same is attached as Annexure 10.</td></tr>
<tr><td>20</td><td>The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personnel/ laborers are working without personal protective equipment.</td><td>Agreed. Measures like, HEMM fitted with silencer, controlled blasting, proper maintenance of HEMM are being taken. All the personnel working within dusty areas and with heavy machinery at the mines site are being/ shall be provided with protective equipment, along with adequate training and health awareness.

<table>
<tr><td colspan="3">Total PPE’s for Mines From Apr 24-Sep 24</td></tr>
<tr><th>Material</th><th>Qty.</th><th>Amount in Rs.</th></tr>
<tr><td>Dust Mask</td><td>195</td><td>2969.85</td></tr>
<tr><td>Goggle Safety Glass PVC,</td><td>55</td><td>2795.65</td></tr>
<tr><td>Hand Gloves</td><td>180</td><td>6156.00</td></tr>
<tr><td>Helmet Industrial Safety</td><td>40</td><td>4600.00</td></tr>
<tr><td>Jacket fluorescent High Visibility Wear</td><td>172</td><td>21844.00</td></tr>
<tr><td>Plug Ear muff</td><td>260</td><td>2080.00</td></tr>
<tr><td>Safety Shoes</td><td>350</td><td>356300</td></tr>
<tr><td>TOTAL</td><td>1252</td><td>396745.50</td></tr>
</table></td></tr>
<tr><td>V.</td><td colspan="2">Mining plan</td></tr>
<tr><td>21</td><td>The Project Proponent shall adhere to approved mining plan, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, OB& dump mining, mineral Mining plan mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land use of the mine lease area at various stages of mining scheme as well as at the
end of life; etc.).</td><td>Development and production of the mine is being done as per approved mining plan.</td></tr>
</table>

22	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of -life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease areaand corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half yearly to the MoEFCC and its concerned Regional Office.	Land use is being done as per approved mining plan and the compliance status is being/ shall be submitted on half yearly basis to concerned office.
VI.	**Land reclamation**	
23	The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed asper the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.	Development of the mine is being as per the approved mining plan. The top soil is being stacked separatelyand is being used for land reclamation and plantation only.

24	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.	Agreed. Will be done as and when required.
25	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, Greenbelt development, plantation etc. The drains/ sedimentation sumps etc. shall be silted regularly, particularly after monsoon season, and maintained properly.	Agreed. Catch drains and Siltation pond of appropriate size is being constructed.
26	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	Agreed. Will be done as and when required.
VII.	**Transportation**	

27	No transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Mining plan of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to Mining plan load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport].	Road is being properly maintained. Water is being sprinkled on the transportation road regularly. Also regular monitoring of the transport vehicle is being done to check vehicular emission.
28	The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while Mining plan. PP shall take necessary measures to avoid generation of fugitive dust emissions.	Water sprinkling is being done by water tankers. There are no crushers, belt conveyors located at the mine site.
VIII.	**Greenbelt**	
29	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Greenbelt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	Agreed. 200 Nos. of plantation is being done in safety zone from April 24 to Sep 24.

30	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.	Agreed. Plantation is being done as per the condition mentioned.
31	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide midday shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.	There are no grazing lands in the mining lease.
IX.	**Public hearing and human health issues**	
32	Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	Workers working in the mine are locals and the other employees are provided with quarters in the company township.
X.	**Corporate Environment Responsibility (CER)**	
33	The Project Proponent shall submit the time bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017- IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.	Time bound Action Plan has been sent to the MoEFCC vide letter PJL/MIN/C&M/2022-01A dated 14/03/22. A copy of the same is attached as **Annexure 1.**
XI.	**Miscellaneous**	

<table>
<tr><td>34</td><td>The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.</td><td>Digital map is being carried out and attached as Annexure 13</td></tr>
<tr><td>35</td><td>The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.</td><td>Intimation to RCOM, Indian Bureau of Mines vide letter MIN/PJL/2021/210300 dated 07/12/21 has been attached. Consent to Operate from MPPCB has been obtained vide Consent no. AW-58249 and Outward no. 118131, 12/05/2023 has been attached & a copy of Permission under 106(2(b) from DGMS vide letter NO:362639|WZ|Jabalpur Region|Perm|2022|237080, Dhanbad, Date: 31/03/2022 has been attached.
These copies are attached as Annexure 11.</td></tr>
<tr><td>36</td><td>The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC and its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.</td><td><table><tr><th>SNo.</th><th>Date</th><th>Letter No.</th></tr><tr><td>1</td><td>01.06.2022</td><td>MIN/CM/2022/14</td></tr><tr><td>2.</td><td>01.12.2022</td><td>Submission in Parivesh Portal</td></tr><tr><td>3.</td><td>01.06.2023</td><td>Submission in Parivesh Portal</td></tr><tr><td>4.</td><td>01.12.2023</td><td>PJL/MIN/CM/2023/32</td></tr><tr><td>5.</td><td>01.06.2024</td><td>PJL/MIN/CM/2024/20</td></tr></table></td></tr>
<tr><td>37</td><td>A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.</td><td>A separate Environment Management Cell structure is set-up. A copy of the same is attached as Annexure 12.</td></tr>
<tr><td>38</td><td>The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data / information / monitoring reports.</td><td>Agreed.</td></tr>
<tr><td>39</td><td>In pursuant to Ministry's 0.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by lon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.</td><td>Proper mine closure plan will be prepared and approved 12 months before the closure of the mine encompassing all the conditions stipulated and the work will be carried out as per the approved mine closure plan.</td></tr>
<tr><td>40</td><td>The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.</td><td>Agreed.</td></tr>
</table>

41	Concealing factual data failure to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.

Time Bound Action Plan Present Status

S.No	Particulars	Proposed 1st year	Proposed 2nd year	Proposed 3rd year	Present Status
1	Construction of Toilets	20 nos	10 nos	10 nos	40
2	6 Computers, 6 Nos. Smart boards, wifi facility and water coolers (6) & RO (6) will be provided in School at Villages Chulhi, Majhiyar & Malgaon.	2-Computers 2-Smart Boards 2-Water Coolers 2- RO	2-Computers 2-Smart Boards 2-Water Coolers 2- RO	2-Computers 2-Smart Boards 2-Water Coolers 2- RO	1- RO provided, 1-Water Cooler provided, 3- Smart Boards
3	Furniture (table & Chair) for 200 students from Class 1 to 8 in school at Villages Chulhi, Majhiyar and Malgaon	3 Lakhs budget	3 Lakhs budget	4 Lakhs budget	50 desk + 61 uniforms (2.47 lakhs)
4	Skill development training center	4 Lakhs budget	5 Lakhs budget	6 Lakhs budget	2.6 lakhs spending
5	Drinking Water facility in Villages Chulhi, Majhiyar & Malgaon. (3 Nos Bore 3 Nos Hand pump) and pipeline will be provided	1 handpump 1 Borewell	1 handpump 1 Borewell	1 handpump 1 Borewell	8 handpump with borewell)
6	Construction of Drainage system in Chulhi Village	13 Lakhs budget	13 Lakhs budget	13 Lakhs budget	0 (will be done next year)
7	Playgrournd at Village Majhiyar and Hinouti	2	2	2	Place is not available
8	Solar lights at Villages Chulhi, Majhiyar & Malgaon	1 lakh	1 lakh	1 lakh	9.32 lakh (60 solar light installed)
9	Road repairing from Village Chulhi to Nai Basti	0	0	0	5.59 lakhs (1.6 km)
10	Plantation in Primary School at Adiwasi Basti and government school at Majhiyar & Malgaon along with road	10,000 nos	10,000 nos	10,000 nos	22,700 nos of plantation done
11	Construction of Waiting hall at Majhiyar mod at village Majhiyar	0	5	0	3.21 lakhs
12	Boundary wall at Govt. Primary School, Adivasi Basti, Chulhi	0	4 lakhs	0	3.36lakhs
13	Ground Water Conservation& Water Harvesting Structures	3 nos	3 nos	4 nos	6 rain water harvesting structure + pond deepening + 200 Drum based Rain water harvesting structures
14	Gas Connection to 245 houses of villages	3 Lakhs budget	3 Lakhs budget	2 Lakhs budget	67 connections done (2.7 lakhs)*
15	Mobile Health Van for Chulhi/ Majhiyar & Malgaon Village	13 lakhs budget			Ambulance for villagers is available 24x7

TEST REPORT

TC-11227

VIBRANT
"Experience the unimaginable"

Sample Number : VTL/GW/08

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Sample Description : Water Sample
Sampling Location : Malgaon Village - Hand Pump
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000002457F
Report No. : VTL/W/2410240007/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/10/2024
Period of Analysis : 24/10/2024-28/10/2024
Receipt Date : 24/10/2024
Sampling Date : 21/10/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 81.998838 & 24.564754

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.42	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10) : 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	269.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	65.81	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 2023	205.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	65.4	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	25.48	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	602.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): Sec : 1 : 2022	65.4	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.45	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	19.26	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.29	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	2.4
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.35	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5

Checked by

VIBRANT TECHNO LAB PRIVATE LIMITED JAIPUR

RK Yadav
Lab Incharge
Authorized Signatory

Term & conditions PTO

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

Vibrant Techno Lab Pvt. Ltd.
SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020
9929108691, 9810205356, 8005707098, 9549956601
0141-2954638
bd@vibranttechnolab.com
www.vibranttechnolab.com

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TEST REPORT

TC-11227

ULR No. : TC1122724000002457F

Sample Number : VTL/GW/08

Report No. : VTL/W/2410240007/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
20	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B,2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
22	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
23	Total Coliform	IS : 15185 : 2016 RA: 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
24	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
25	Nickel as Ni	APHA 23rd Edition,3030D,3113B 2017	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
26	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report

Checked by

VIBRANT TECHNO LAB PRIVATE LIMITED JAIPUR

RK Yadav
Lab Incharge
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www.vibranttechnolab.com

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TEST REPORT

Sample Number : VTL/GW/08

Name & Address of the Party : M/s PRISM JOHNSON LIMITED, Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/W/2410240007/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/10/2024
Period of Analysis : 24/10/2024-28/10/2024

Sample Description : **Water Sample**
Sampling Location : Malgaon Village - Hand Pump
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Receipt Date : 24/10/2024
Sampling Date : 21/10/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 81.998838 & 24.564754

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
4	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report

Checked by

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TEST REPORT

Sample Number:	**VTL/WL/01-14**	**Report No.:**	**VTL/WL/ 2410240001-14/B**
Name & Address of the Party:	**M/s PRISM JOHNSON LIMITED Village- Mankahari, Tehsil- Rampur Baghelan, Dist.- Satna (M.P.)**	**Format No.:**	**7.8 F-01**
		Party Reference No.:	**NIL**
		Report Date:	**28/10/2024**
Sample Collected By	**VTL Team**	**Receipt Date:**	**24/10/2024**
Sample Description:	**Ground Water Level Monitoring**	**Date of Monitoring**	**21-22/10/2024**

S.No.	Location	Depth (In meter)
1.	Near Colony Gate	11.80
2.	Behind B Block colony	15.17
3.	Behind C Block colony	4.50
4.	Near Auto Work Shop	15.8
5.	In Front of Den	5.60
6.	Western Block Mines	7.42
7.	Near New Magazine Mines	14.3
8.	Rose Garden Near Road	16.9
9.	Mines near Ramprasan	12.13
10.	Medhi Mines	12.32
11.	Mankahari Mines	15.17
12.	Badarkha Mines	10.12
13.	Bagahai	10.49
14.	Chulhi majhiyar Mines	7.90

Checked By

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Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)

Application for Issue of NOC to Abstract Ground Water (NOCAP)

Welcome: EONorthCentR
Previous Login Date Time: 01/03/2024 12:36:17 PM , **IP Address:** 164.100.177.244

Logout

New - Mining Issued Letter Details

Application Number : 21-4/1084/MP/MIN/2021

Application Code :	**55266**
1. General Miningormation:	
Water Quality Type: *	Fresh Water
Application Type Category/ Type of Application: *	Limestone
(i) Name of Mining: *	PROPOSED LIMESTONE MINE_ML AREA 176.619 HA
(ii) Location Details of the Mining Unit	
Address Line 1: *	VILLAGES CHULHI AND MAJHIYAR
Address Line 2:	TEHSIL KOTAR
Address Line 3:	
State: *	MADHYA PRADESH
District: *	SATNA
Sub-District: *	RAMPUR BAGHELAN
Village/Town: *	Chulhi
Area Type: *	**Non-Notified**
Area Type Category: *	**Semi Critical**
(iii) Communication Address	
Address Line 1: *	305
Address Line 2:	LAXMI NIWAS APARTMENTS
Address Line 3:	AMEERPET
State: *	TELANGANA
District: *	HYDERABAD
Sub-District:	AMEERPET
Pincode: *	500016
Phone Number with Area Code:	

Mobile Number: *	91-8877611114
Fax Number:	
E-Mail: *	manoj.singh@prismjohnson.in

(iv) Salient Features of the Mining Activity:

M/s Prism Johnson Limited (formerly Prism Cement Limited) is proposing Proposed Limestone Mine (ML Area 176.619 ha.) with 3.0 Million TPA Limestone Production Capacity and 1.135 Million TPA Overburden including Soil (Total Excavation 4.135 Million TPA) at Villages Chulhi and Majhiyar, Tehsil Kotar, District Satna, Madhya Pradesh.

(v) Whether Ground Water Utilization for:	New Industry
2. Application Status	Approved

3. Issued Letter Details

(i) Letter Type	NOC Letter (**NOC Number:** CGWA/NOC/MIN/ORIG/2022/14880)
(ii) Letter Date	29/02/2024 00:00:00
(iii) Validity Start Date:	23/03/2024
(iv) Validity End Date:	22/03/2026
(v) Water Quality:	Fresh Water
(vi) Ground Water Abstration Approved	3 (m^3/day) 300 (m^3/day) (Mine seepage/Dewatering, if any) 303 (m^3/day) (Total) 900 (m^3/year) 90000 (m^3/year) (Mine seepage/Dewatering, if any)

(vi) Numbers / Types of Existing and Additional Ground Water Abstraction Structures Recommended to Approve

Existing:

Detail of Structures		
SNo.	**Type of Structure Name**	**Type of Structure No**
1	Borewell	1

Proposed / Additional:

Detail of Structures		
SNo.	**Type of Structure Name**	**Type of Structure No**
No Records exist in Groundwater Abstraction Structure-Existing.		

(vi) Numbers/Types of Existing and Additional ground water (Mine seepage/Dewatering, if any) Structures Recommended to Approve

Existing:

Detail of Structures		
SNo.	**Type of Structure Name**	**Type of Structure No**
1	Mining Pits	1

Proposed / Additional:

Detail of Structures		
SNo.	**Type of Structure Name**	**Type of Structure No**

	No Records exist in Groundwater Abstraction Structure-Existing.
(vii) Recommendation for Quantum of Rainwater Runoff / Artificial Recharge to be Harvested.	0 (m^3/year)

Official Document

Sr.No.	Attachment Name	File Name	Submitted On	Submitted By	View File
1	request mail and documents for extension	request mail and documents for extension.pdf	29/02/2024	AONorthCentR	View
2	Inspection report and field photographs	Inspection report and field photographs.pdf	29/02/2024	AONorthCentR	View

Issued Letter History

S.No.	Project Name	Application Number	Issue Letter Date	Validity Start Date	Validity End Date	Digitial Signed	NOCAbs	NOCAbsDew	NOC For Abstraction And Dewatering	Issued Letter Type Name	Digital Signed Letter	Scan Letter
1	PROPOSED LIMESTONE MINE_ML AREA 176.619 HA	21-4/1084/MP/MIN/2021	23/03/2022	23/03/2022	22/03/2024	No	Yes	No	No	NOC Letter		View
2	PROPOSED LIMESTONE MINE_ML AREA 176.619 HA	21-4/1084/MP/MIN/2021	23/03/2022	23/03/2022	22/03/2024	No	No	No	No	NOC Letter		

DeotaleDiagnostic (we care)

Consultation Diagnostics Health Check- Ups Immunization.

Clinic: Vinayak Apt. 3rd floor Dhantoli Lokmat Chowk Nagpur
For any assistance call at . 9860204241, 0712-2424868
Email ID : deotaledeepak19577@gmail.com

MEDICAL CHECK-UP

SR.NO	82
CERTIFICATE NO.	82
EMPLOYEES CODE	503332
DESIGNATION	Machine Attender
DEPARTMENT	Mines
CONTRACTOR NAME	PCL
MOB NO	9407017937
CHECK-UP DATE	13-12-2023

EMPLOYEES NAME :Ramayan Singh

Gender: Male	Age : 56 Yrs.	Ht: 163 cms	Wt:70 Kg	BMI : 26.35

Company Address: PRISM JOHNSON LIMITED,MANKAHARI,PO:BATHIA,DIST:SATNA,MADHYA PRADESH

Personal H/O ALCOHOL : NO TABACCO : YES SMOKING : NO GUTKHA : NO

General Exam:- Teeth : N. / Tonsils : N /Nails : N./ Tongue : N / L. Glands: N.

BP .: 110/70 mmHg	Pulse : 82 bps

C.V.S.: N R/S : N CNS:N SP/LIVER :N/P

Abdomen : Soft

BLOOD TEST

Random Blood Sugar: 139 mg/dl	BLOOD GROUP: O+ve		Hb %:14.2 gm/dl	ESR: 5 MM/Hr
TLC : 8100 /Cumm	N.: 67 %	L.:27 %	E .: 2 %	M.: 4 %
S. Cholesterol: 179 mg/dl	Triglyceride: 148 mg/dl		HDL: 44.1 mg/dl	
LDL: 105.3 mg/dl	VLDL: 29.6 mg/dl		CHO/HDL Ratio : 4.1	
Sr.Urea: 24 mg/dl			Sr. Creatinine: 0.8 mg/dl	
Urine Pus Cell : NIL	Urine ALB : NIL		Urine Sugar : NIL	

ECG: WNL	SPIROMETRY : WNL	
Colourblindness: NORMAL	X-RAY : WNL	
AUDIOMETRY : RT. WNL	LF . WNL	
Vision:	Unaided - Dist. Rt -6/12	Dist. Lf -6/12
	Unaided - Near Rt -N/24	Near Lf -N/24
	With Spect Dist . Rt -	With Spect Dist . Lf -
	With Spect Near . Rt -	With Spect Near . Lf -
MEDICAL CHECK – UP:- NORMAL		
Refractive error can be corrected by spectacle		

DR. DEEPAK P. DEOTALE
M.B.B.S. A.F.I.H.(Reg. No. 48366)

Dr. Deepak Deotale
MBBS, AFIH
Reg. No 48366

(FORM – O)
(See rule 29F (2) and 29L)
Report of medical examination under rule 29B (To be issued in triplicate)

** Certificate No..... Certified that Shri/Shrimati* Ramayan Singh employed as mechanic In Bandakta mines mine, Form B No. 30 has been examined for an initial/periodical medical examination. He/she* appears to be 56 years of age.

The findings of the examining authority are given in the attached sheet. It is considered that Shri/Shrimati* Ramayan Singh

(a)* is medically fit for any employment in mines.

(b)* is suffering from..... and is medically unfit for
(i) any employment in mine; or
(ii) any employment below ground; or
(iii) any employment or work.....

(c)* is suffering from..... is should get this disability* cured/controlled and should be again examined within a period of .....months. He/She will appear for re-examination with the result of test of ..... and the opinion of ..... Specialist from ..... He/She may be permitted/not* permitted to carry on his duties during this period.

Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

Signature of the examining authority
Name and designation in Block letters

Place : Satna
Date : 13-12-23

---

* Delete whatever is not applicable.
** One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority,

Report of the examining authority

(to be filled in for every medical examination whether initial or periodical or re - examination or after cure/control of disability).

Annexure to Certificate No..... 82 .....as result of medical examination on .....

Identification Mark.....

Left thumb impression of the candidate

1. General development- Good/Fair/Poor

2. Height .....163.....Cms.

3 Weight .....70.....kg.

4 Eyes : (i) Visual acuity-Distant vision (with or without glasses).

Right eye....6/12....N/24 Left eye....6/12....N/24

(ii) any organic disease of eyes NO

(iii) night blindness NO

(iv) Colour blindness NO

(v) Squint (* to be tested in special cases)
Inserted vide notification No.GSR 656 dated 5.6.1980 NO

5 Ears : Hearing : Right ear.... WNL Left ear .... WNL...

Any organic diseases. NO

6.Respiratory system. Chest measurement : (i) After full inspiration ....38....cms.
(ii) After full expiration.....40....cms.

7. Circulatory system: (i) Blood Pressure ..... (ii) Pulse .....

8. Abdomen : Tenderness .....NO.....
Liver. .....NP.....
Spleen. .....NP.....
Tumour. .....NO.....

9. Nervous system:
History of fits or epilepsy .....NO.....
Paralysis .....NO.....
Mental health. .....Good.....

10.Locomotory system :.....N.....

11. Skin. :.....N.....

12. Hydrocele. :.....NO.....

13. Hernia. :.....NO.....

14. Any other abnormality :.....NO.....

15. Urine : Reaction. .....N.....
Albumin.....NO.....
Sugar.....NO.....

16. Skiagram of chest. : NAD

17. Any other test considered necessary by the examining authority. : —

18. Any opinion of specialist considered necessary. —

Place: Satna

Signature of the examining authority
Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

Report of Medical Examination under Mines Rule 29B
(To be used in continuation with Form O)

Certificate No. 82

Name : Ramaya Singh.

Identification Marks: Blackmole on Chest

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)	02.88	04.16	144
Forced Vital Capacity FEV1	02.21	04.16	188
FEV 1/ FVC	76.74	100.00	130
Peak Expiratory Flow	07.79	07.09	091

Spirometry Report enclosed.

Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

Signature of the Examination Authority

Report of Medical Examination as per the recommendations of National Safety Conferences in Mines
(To be used in continuation with Form O)

Certificate No. 82

Name : Ramayan Singh

Identification Marks:

1. Cardiological Assessment

Auscultation	S_1 N.	Performed Value	% of Predicted
	S_2 N	—	—
	Additional Sound	—	
FEV1/ FVC			
Electrocardiograph(12leads) findings		Normal/Abnormal	Normal

Enclosed ECG

2. Neurological Assessment

Findings	Normal/Abnormal
Superficial Reflexes	Normal
Deep Reflexes	Normal
Peripheral Circulation	Normal
Neurological Syndromes	Normal

3. ILO Classification of Chest Radiograph

Profusion of Pneumoconiotic Opacities	Grades	Types
Present /Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

Condution Type	Left Ear	Right Ear
Ear Conduction	Normal/Abnormal	Normal/Abnormal
Bone Conduction	Normal/Abnormal	Normal/Abnormal

Enclosed Audiometry Report

5. Pathological/Microbiological Investigations:

S.No.	Tests	Findings
1.	Blood-Tc,Dc,Hb,ESR,Platelets	WNL/Abnormal
2.	Blood Suger-Fasting & P.P	WNL/Abnormal
3.	Lipid Profile	WNL/Abnormal
4.	Blood Urea, Creatimine	WNL/Abnormal
5.	Urine Routine	WNL/Abnormal
6.	Stool Routine	WNL/Abnormal

Enclosed Investigation Reports

6. Special Tests for Mn Exposure:

Behavioral Disturbances		Present/Not Present
Neurological Disturbances	Speech Defect	Present/Not Present
	Tremor	Present/Not Present
	Adiadocokinesia	Present/Not Present
	Emotional Changes	Present/Not Present

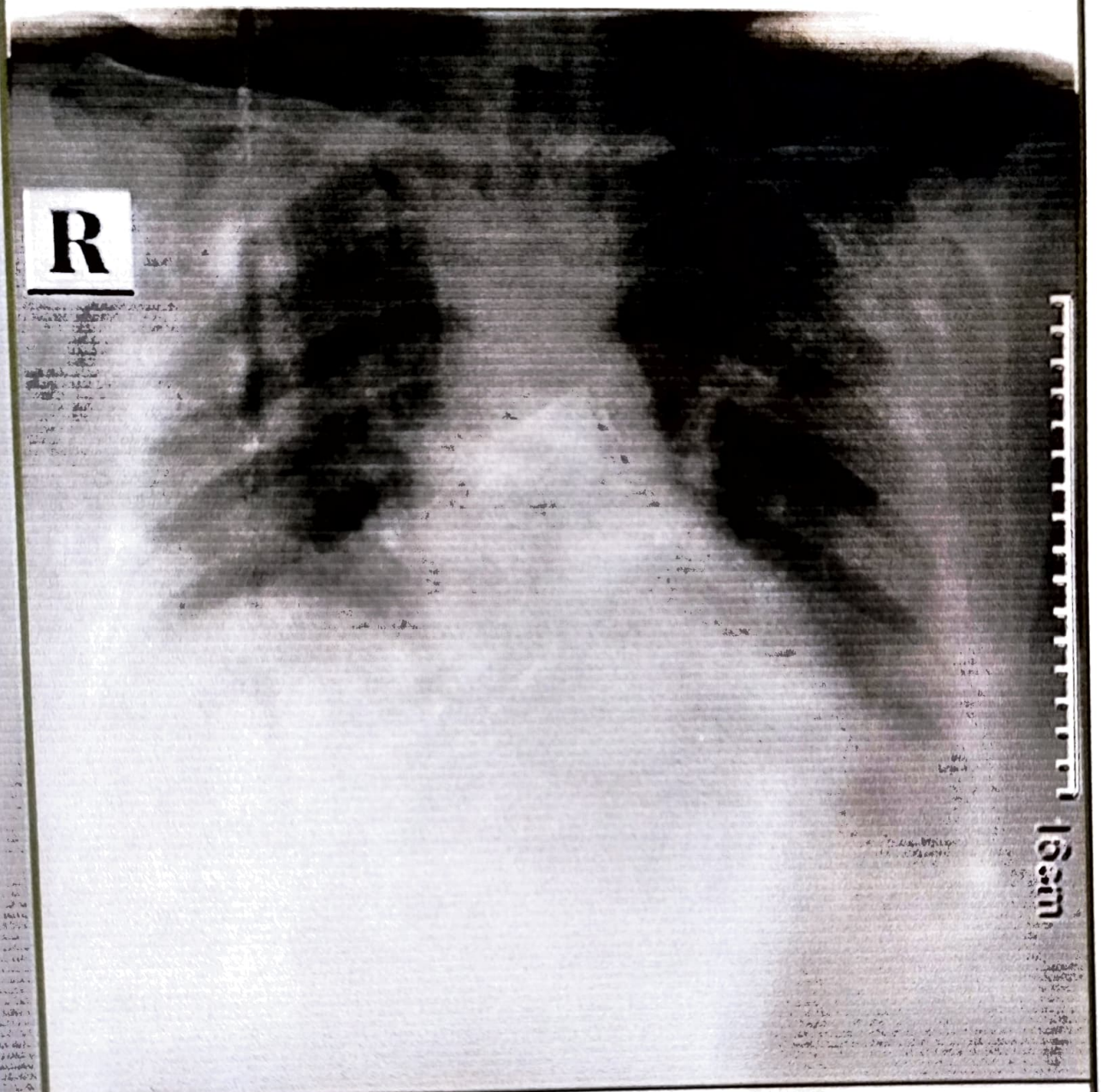
Enclosed ECG

7. Any other Special Tests Required:

Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366
Signature of the Examination Authority
Seal

AMAYAN SINGH
Sex:Male
DOB:
ID:82F

Acq. Date:13-Dec-23
Acq. Time:12:04:50 PM
Exp. Index:659



CHEST
HA
W: 4096, C: 2048

Scale: 0.13
MAYA DIAGNOSTICS

MAYA DIAGNOSTICS
Scale: 0.13
MAYA DIAGNOSTICS

Layout
Relayout

ECG

Allengers Global Healthcare Pvt Ltd.,

1610037955 / 32 RAMAYAN SINGH / 50 Yrs / M / 163Cms. / 70Kgs. / Non Smoker

Heart Rate : 77 bpm / Tests Start : 15-Dec-2021 15:33:52 / HP 0.05 Hz / LP 100 Hz / Notch 50 Hz / Sn 1.00 Cm/mV / Sw 25 mm/s

Dr. Deepak Teorale
MBBS, AFIH
(Reg. No 48366)

ers ECG (Pisces)(PIS212160118)

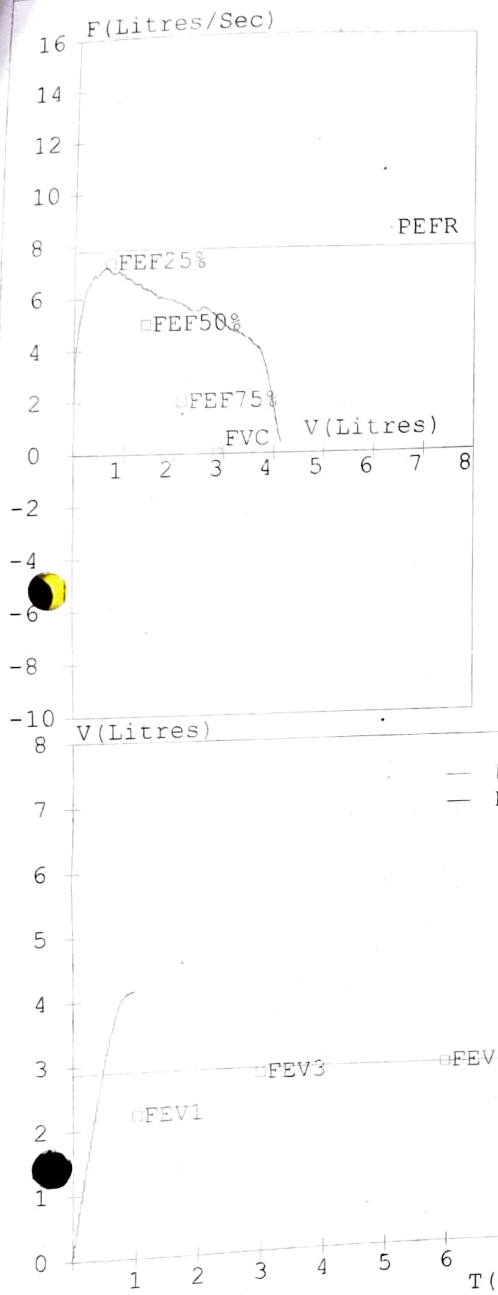
DEOTALE DIAGNOSIS CENTRE

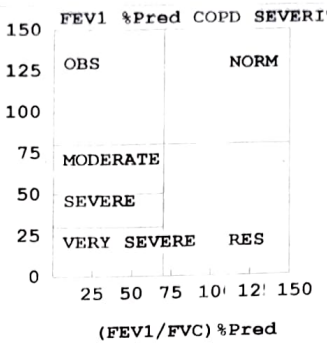
VINAYAK APARTMENT, 3RD FLOOR,DHANTOLI, NAGPUR

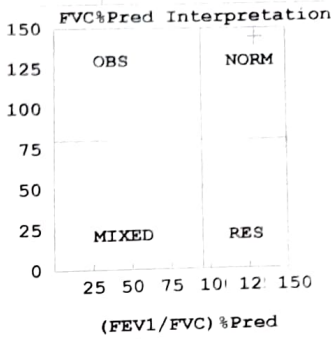
Patient: RAMAYAN SINGH
Refd. By:
Pred.Eqns: RECORDERS
Date : 13-Dec-2023 03:20 PM

Age : 56 Years
Height : 163 Cms
Weight : 70 Kgs
ID: 82C

Gender : Male
Smoker : Yes
Eth. Corr: 100
Temp :







Spirometry(FVC Results)

Parameter		Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC	(L)	02.88	04.16	144	-----	---	---
FEV1	(L)	02.21	04.16	188	-----	---	---
FEV1/FVC	(%)	76.74	100.00	130	-----	---	---
FEF25-75	(L/s)	03.09	05.67	183	-----	---	---
PEFR	(L/s)	07.79	07.09	091	-----	---	---
FIVC	(L)	-----	-----	---	-----	---	---
FEV.5	(L)	-----	03.03	---	-----	---	---
FEV3	(L)	02.79	04.16	149	-----	---	---
PIFR	(L/s)	-----	-----	---	-----	---	---
FEF75-85	(L/s)	-----	04.44	---	-----	---	---
FEF.2-1.2	(L/s)	05.44	06.68	123	-----	---	---
FEF 25%	(L/s)	07.32	06.68	091	-----	---	---
FEF 50%	(L/s)	04.96	05.71	115	-----	---	---
FEF 75%	(L/s)	01.97	04.70	239	-----	---	---
FEV.5/FVC	(%)	-----	72.84	---	-----	---	---
FEV3/FVC	(%)	96.88	100.00	103	-----	---	---
FET	(Sec)	-----	01.00	---	-----	---	---
ExplTime	(Sec)	-----	00.06	---	-----	---	---
Lung Age	(Yrs)	056	007	012	-----	---	---
FEV6	(L)	02.88	-----	---	-----	---	---
FIF25%	(L/s)	-----	02.48	---	-----	---	---
FIF50%	(L/s)	-----	02.48	---	-----	---	---
FIF75%	(L/s)	-----	02.48	---	-----	---	---

Pre Test COPD Severity

Test within normal limits

Pre Medication Report Indicates
Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >80.

Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

Deotale Diagnostic Centre (we care)

Consultation Diagnostics Health Check- Ups Immunization.

Clinic: Vinayak Apt. 3rd floor Dhantoli Lokmat Chowk Nagpur

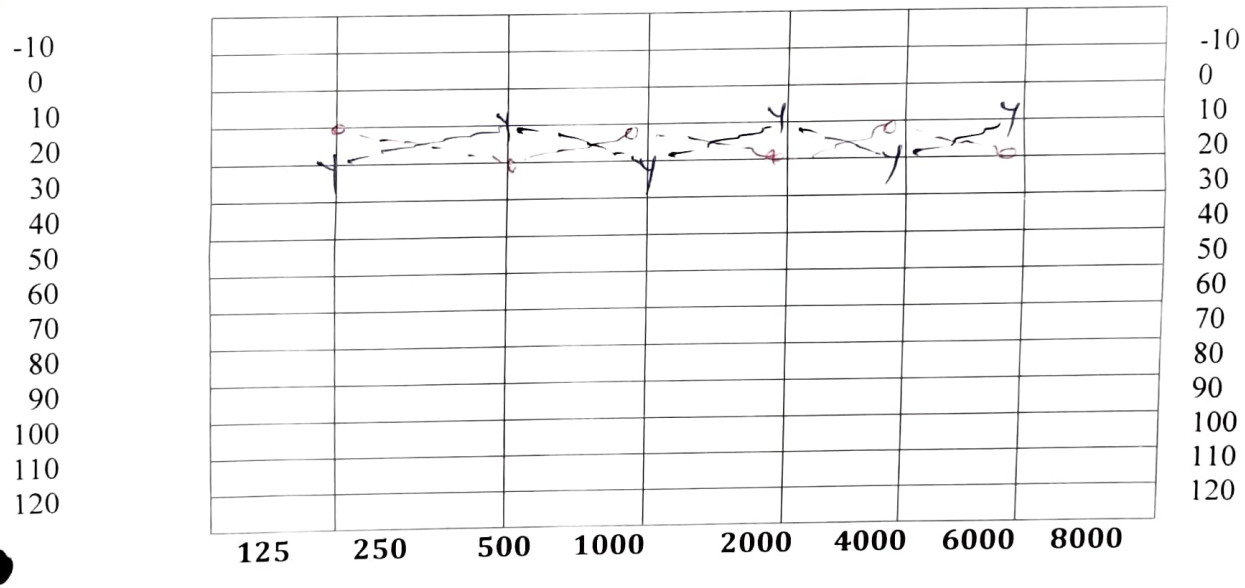
Resi:- 1B, Prashant Nagar Wardha-Road Nagpur (Clinic Reg. No. 699)

For any assistance call at . 9860204241, 0712-6610595

Date: 13-12-2023

AUDIOLOGICAL EVALUATION

1. SR.NO:82	CERTIFICATE NO: 82	2. EMPLOYEES CODE: 503332
3. DEPARTMENT: Mines		4. DESIGNATION: Machine Attender
5. NAME : Ramayan Singh		6.CONTRACTOR NAME: PCL
7. SEX : Male		8. AGE: 56 yrs
9. ADDRESS : PRISM JOHNSON LIMITED, MANKAHARI,PO: BATHIA, DIST: SATNA, MADHYA PRADESH		
10. DIAGNOSIS: LT: WNL		11.RT: WNL



TEST FREQUENCY

Air O	= LEFT EAR :	WNL
Y	= RIGHT EAR :	WNL
Masking		
No Response: Audiologists Remarks		

Dr. DEEPAK DEOTALE
M.B.B.S. A.F.I.H.
Reg. No. 48366

Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

82
TEST NO
82

MAYA HOSPITAL
& RESEARCH INSTITUTE

Add.: Plot .P 78, Opposite State Bank of India, MIDC
Butibori (Nagpur)
Ph 07103-684885

Deotale Diagnostic Center We Care

_ Consultation _ Diagnostics Health _ Check-Ups _ Immunization

Dr. Deepak P. Deotale M.B.B.S., A.F.I.H. (Associated fellow Of industrial health) Certifying Surgeon Reg .No. 48366	SR.NO	82
	CERTIFICATE NO	82
	EMPLOYEES CODE	503332
	NAME	Ramayan Singh
	GENDER	Male
	DEPARTMENT	Mines
Clinic : Vinayak Apt. 3rd floor Dhantoli, Lokmat Chowk ,Nagpur (Clinic Reg. No. 699)	DESIGNATION	Machine AttenderMachine Attender
	Check Up Date	13-12-2023
	MOB NO	9407017937
Mob. No .8007771341	Company Name: PRISM JOHNSON LIMITED, MANKAHARI,PO: BATHIA, DIST: SATNA, MADHYA PRADESH	
Email ID: deotaledeepak19577@gmail.com		

DeotaleDiagnostic Centre (we care)

Consultation Diagnostics Health Check- Ups Immunization.

Clinic: Vinayak Apt. 3rd floor Dhantoli Lokmat Chowk Nagpur
For any assistance call at . 9860204241, 0712-2424868
Email ID : deotaledeepak19577@gmail.com

MEDICAL CHECK-UP

SR.NO	92
CERTIFICATE NO.	92
EMPLOYEES CODE	101632
DESIGNATION	Dy General Manager
DEPARTMENT	Mines
CONTRACTOR NAME	PCL
MOB NO	9584460221
CHECK-UP DATE	12-12-2023

EMPLOYEES NAME :Rangnath Rai

Gender: Male	Age : 47 Yrs.	Ht: 177 cms	Wt:77 Kg	BMI : 24.58

Company Address: PRISM JOHNSON LIMITED,MANKAHARI,PO:BATHIA,DIST:SATNA,MADHYA PRADESH

Personal H/O ALCOHOL : NO TABACCO : NO SMOKING : NO GUTKHA : NO

General Exam:- Teeth : N. / Tonsils : N /Nails : N./ Tongue : N / L. Glands: N.

BP .: 133/98 mmHg Pulse : 72 bps

C.V.S.: N R/S : N CNS:N SP/LIVER :N/P

Abdomen : Soft

BLOOD TEST

Random Blood Sugar: 169 mg/dl	BLOOD GROUP: B+ve	Hb %:12.4 gm/dl	ESR: 5 MM/Hr	
TLC : 6200 /Cumm	N.: 68 %	L.:24 %	E .: 5 %	M.: 3 %
S. Cholesterol: 170 mg/dl	Triglyceride: 153 mg/dl	HDL: 46 mg/dl		
LDL: 101.6 mg/dl	VLDL: 30.6 mg/dl	CHO/HDL Ratio : 3.9		
Sr.Urea: 24 mg/dl		Sr. Creatinine: 0.8 mg/dl		
Urine Pus Cell : +	Urine ALB : NIL	Urine Sugar : NIL		

ECG: WNL		SPIROMETRY : WNL	
Colourblindness: NORMAL		X-RAY : WNL	
AUDIOMETRY : RT. WNL		LF . WNL	
Vision:	Unaided - Dist. Rt -6/6	Dist. Lf -6/6	
	Unaided - Near Rt -N/8	Near Lf -N/8	
	With Spect Dist . Rt -	With Spect Dist . Lf -	
	With Spect Near . Rt -	With Spect Near . Lf -	
MEDICAL CHECK – UP:- NORMAL			
Refractive error can be corrected by spectacle			

DR. DEEPAK P. DEOTALE
M.B.B.S. A.F.I.H.(Reg. No. 48366)

Dr. Deepak Deotale
M.B.B.S.
Reg. No. 48366

(FORM – O)
(See rule 29F (2) and 29L)
Report of medical examination under rule 29B (To be issued in triplicate)

** Certificate No..... Certified that Shri/Shrimati* Raghunath Rai
employed as mach. engg. In Baghai mine,
Form B* No.....1..... has been examined for an initial/periodical medical examination. He/she* appears to be.....47.. years of age.

The findings of the examining authority are given in the attached sheet. It is considered that Shri/Shrimati*.....

(a)* is medically fit for any employment in mines.

(b)* is suffering from..... and is medically unfit for
(i) any employment in mine; or
(ii) any employment below ground; or
(iii) any employment or work.....

(c)* is suffering from..... is should get this disability* cured/controlled and should be again examined within a period of .....months. He/She will appear for re-examination with the result of test of ..... and the opinion of ..... Specialist from ..... He/She may be permitted/not* permitted to carry on his duties during this period.

ng
ph

Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366
Signature of the examining authority
Name and designation in Block letters

Place :
Date : 12-12-23

---

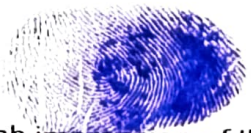
* Delete whatever is not applicable.
** One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority,

Report of the examining authority

(To be filled in for every medical examination whether initial or periodical or re - examination or after cure/control of disability).

Appended to Certificate No..... 92 .....as result of medical examination on .....

Identification Mark.....



Left thumb impression of the candidate

1. General development- Good/Fair/Poor

2. Height ..... 177 ..... Cms.

3 Weight ..... 77 ..... kg.

4 Eyes : (i) Visual acuity-Distant vision (with or without glasses).

Right eye..... 6/6 N/8 Left eye.... 6/6 N/8

(ii) any organic disease of eyes NO

(iii) night blindness NO

(iv) Colour blindness NO

(v) Squint (* to be tested in special cases)
Inserted vide notification No.GSR 656 dated 5.6.1980 NO

5 Ears : Hearing : Right ear..... W.N.L... Left ear .....

Any organic diseases. NO

6.Respiratory system. Chest measurement : (i) After full inspiration ..38.... cms.
(ii) After full expiration..... > ..... cms.

7. Circulatory system: (i) Blood Pressure ..... (ii) Pulse .....

8. Abdomen : Tenderness ..... NO .....
Liver. ..... NP .....
Spleen. ..... NP .....
Tumour. ..... NO .....

9. Nervous system:
History of fits or epilepsy ..... NO .....
Paralysis ..... NO .....
Mental health. ..... Good .....

10.Locomotory system :..... N .....

11. Skin. :..... N .....

12. Hydrocele. :..... NO .....

13. Hernia. :..... NO .....

14. Any other abnormality :..... NO .....

15. Urine : Reaction. ..... N .....
Albumin..... NO .....
Sugar..... NO .....

16. Skiagram of chest. : NAD

17. Any other test considered necessary by the examining authority.

18. Any opinion of specialist considered necessary.

Place: Satna

Signature of the examining authority
Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

Report of Medical Examination under Mines Rule 29B
(To be used in continuation with Form O)

Certificate No. 92

Name : Ranganath Rai

Identification Marks: Mole on right hand

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)	03.70	03.22	087
Forced Vital Capacity FEV1	02.96	03.19	108
FEV 1/ FVC	80.00	99.07	124
Peak Expiratory Flow	09.10	05.01	055

Spirometry Report enclosed.

Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366
Signature of the Examination Authority

Report of Medical Examination as per the recommendations of National Safety Conferences in Mines
(To be used in continuation with Form O)

Certificate No. 92

Name : Ranganath Rai

Identification Marks:

1. Cardiological Assessment

Auscultation	S_1 N	Performed Value	% of Predicted
	S_2 N	—	—
	Additional Sound NO	—	—
FEV1/ FVC	80.00	99.07	124
Electrocardiograph(12leads) findings		Normal/Abnormal	Normal

Enclosed ECG

2. Neurological Assessment

Findings	Normal/Abnormal
Superficial Reflexes	Normal
Deep Reflexes	Normal
Peripheral Circulation	Normal
Vibrational Syndromes	Normal

3. ILO Classification of Chest Radiograph

Profusion of Pneumoconiotic Opacities Present /Absent	Grades	Types

Enclosed Chest Radiograph

4. Audiometry Findings:

Condution Type	Left Ear	Right Ear
Ear Conduction	Normal/Abnormal	Normal/Abnormal
Bone Conduction	Normal/Abnormal	Normal/Abnormal

Enclosed Audiometry Report

5. Pathological/Microbiological Investigations:

S.No.	Tests	Findings
1.	Blood-Tc,Dc,Hb,ESR,Platelets	WNL/Abnormal
2.	Blood Suger-Fasting & P.P.	WNL/Abnormal
3.	Lipid Profile	WNL/Abnormal
4.	Blood Urea, Creatimine	WNL/Abnormal
5.	Urine Routine	WNL/Abnormal
6.	Stool Routine	WNL/Abnormal

Enclosed Investigation Reports

6. Special Tests for Mn Exposure:

Behavioral Disturbances		Present/Not Present
Neurological Disturbances	Speech Defect	Present/Not Present
	Tremor	Present/Not Present
	Adiadocokinesia	Present/Not Present
	Emotional Changes	Present/Not Present

Enclosed ECG

7. Any other Special Tests Required:

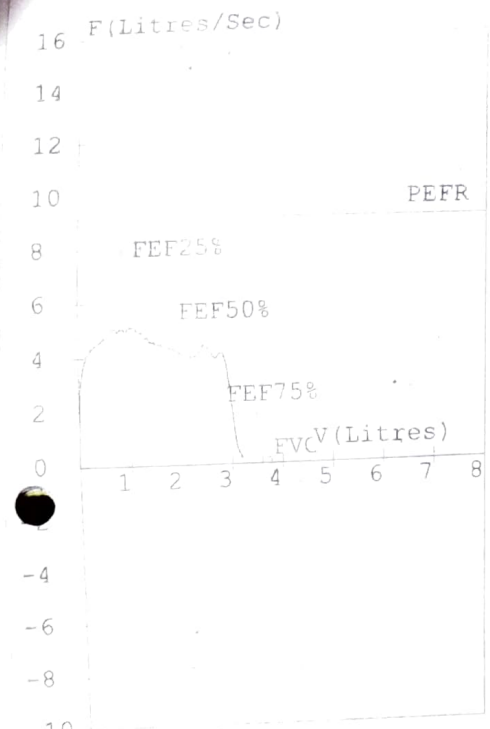
Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366
Signature of the Examination Authority
Seal

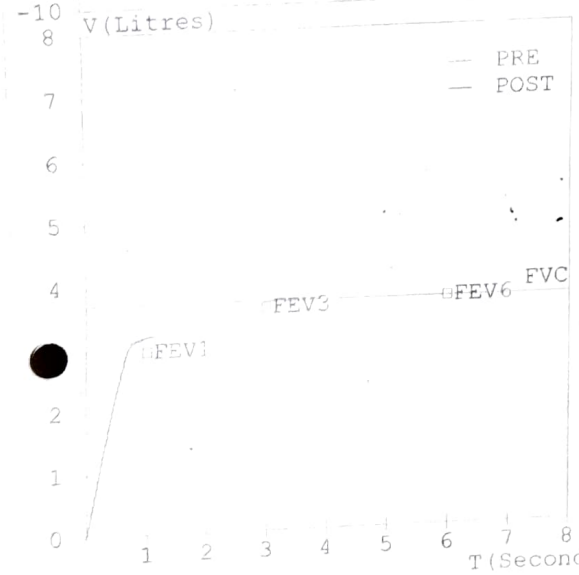
DEOTALE DIAGNOSIS CENTRE

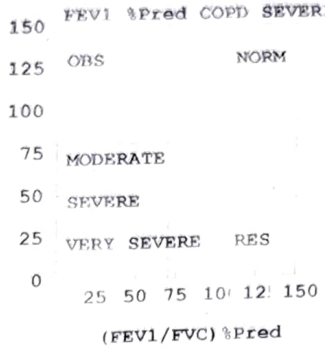
VINAYAK APARTMENT, 3RD FLOOR, DHANTOLI, NAGPUR

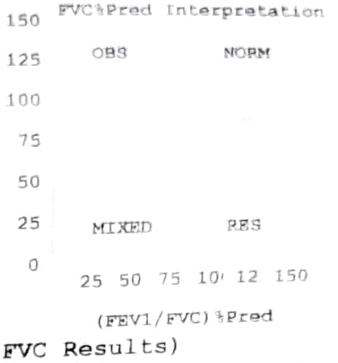
ent: Rangnath rai
d. By:
red.Eqns: RECORDERS
Date : 12-Dec-2023 09:30 AM

Age : 47 Years Gender : Male
Height : 177 Cms Smoker : Yes
Weight : 77 Kgs Eth. Corr: 100
ID: 92c Temp :









Spirometry(FVC Results)

Parameter		Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC	(L)	03.70	03.22	087	-----	---	
FEV1	(L)	02.96	03.19	108	-----	---	
FEV1/FVC	(%)	80.00	99.07	124	-----	---	
FEF25-75	(L/s)	03.76	04.36	116	-----	---	
PEFR	(L/s)	09.10	05.01	055	-----	---	
FIVC	(L)	-----	-----	---	-----	---	
FEV.5	(L)	-----	02.29	---	-----	---	
FEV3	(L)	03.59	03.22	090	-----	---	
PIFR	(L/s)	-----	-----	---	-----	---	
FEF75-85	(L/s)	-----	03.95	---	-----	---	
FEF.2-1.2	(L/s)	06.77	04.69	069	-----	---	
FEF 25%	(L/s)	07.98	04.90	061	-----	---	
FEF 50%	(L/s)	05.59	04.39	079	-----	---	
FEF 75%	(L/s)	02.53	04.16	164	-----	---	
FEV.5/FVC	(%)	-----	71.12	---	-----	---	
FEV3/FVC	(%)	97.03	100.00	103	-----	---	
FET	(Sec)	-----	01.27	---	-----	---	
ExplTime	(Sec)	-----	00.14	---	-----	---	
Lung Age	(Yrs)	047	043	091	-----	---	
FEV6	(L)	03.70	-----	---	-----	---	
FIF25%	(L/s)	-----	02.00	---	-----	---	
FIF50%	(L/s)	-----	02.00	---	-----	---	
FIF75%	(L/s)	-----	02.00	---	-----	---	

Pre Test COPD Severity

Test within normal limits

Pre Medication Report Indicates
Early Small Airway Obstruction as FEF 25-75 %Pred or PEFR %Pred < 70
Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >80.

Dr. Deepak Deotale
M.B.B.S. AFIRI
Reg. No 48366

ECG

AGHPL

Allengers Global Healthcare Pvt Ltd..

1940037870 / 92 rangnath rai / 47 Yrs / M/ Non Smoker

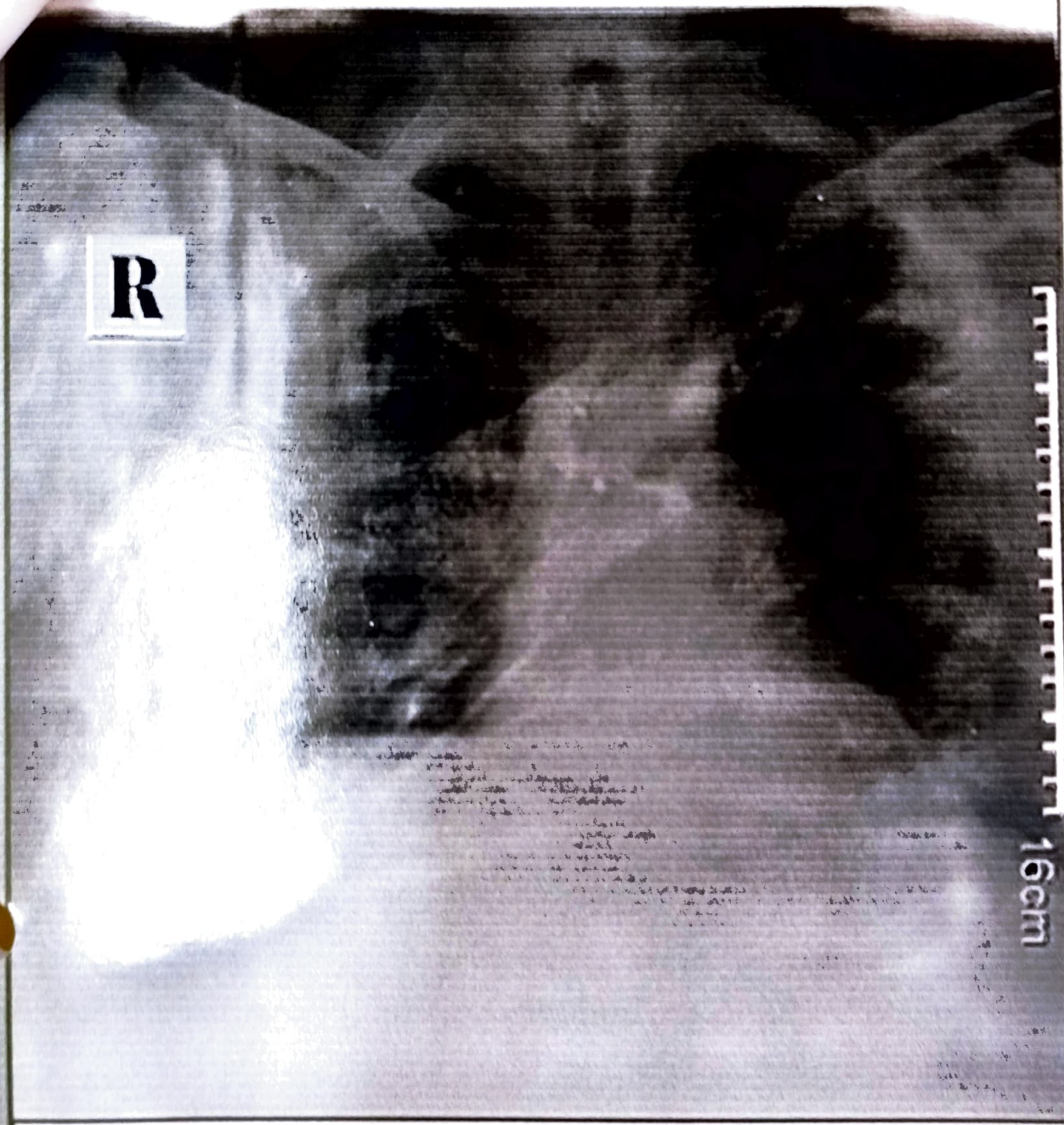
Heart Rate : 166 bpm / Tested On : 12-Dec-23 09:52:48 / HF 0.05 Hz - LF 100 Hz / Notch 50 Hz / Sn 1.00 Cm/mV / Sw 25 mm/s

Dr. Deepak Nainwal
Reg No 48366

ECG (Pisces)(PIS212160118)

ATI I RAI
ale
92P

Acq. Date:12-Dec-23
Acq. Time:11:04:51 AM
Exp. Index:690



CHEST
PA
W: 4096, C: 2048

Scale: 0.13

MAYA DIAGNOSTICS

Deotale Diagnostic Centre (we care)

Consultation Diagnostics Health Check- Ups Immunization.

Clinic: Vinayak Apt. 3rd floor Dhantoli Lokmat Chowk Nagpur

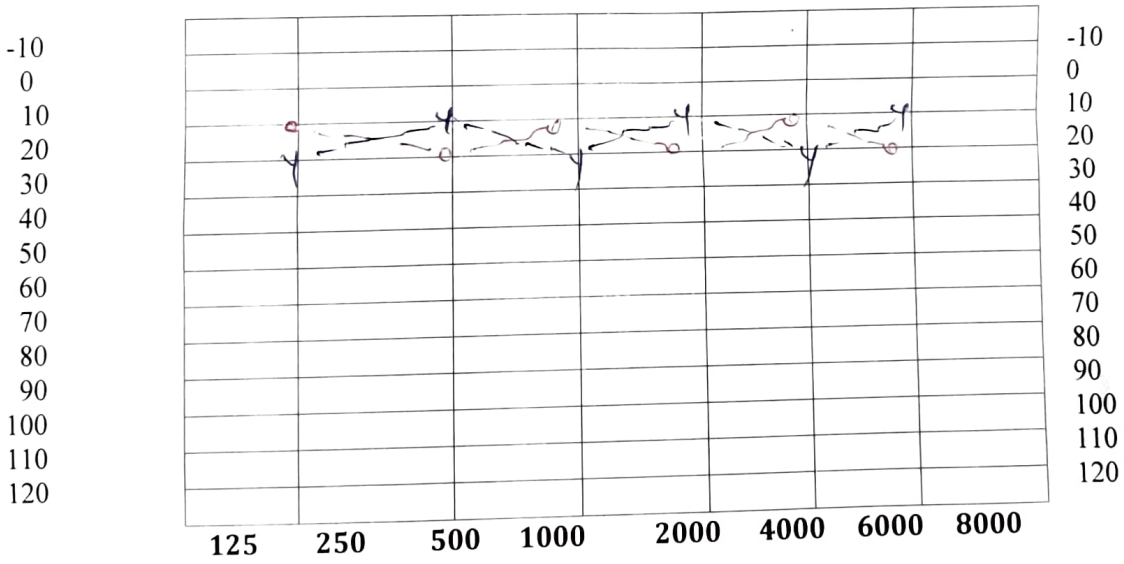
Resi:- 1B, Prashant Nagar Wardha-Road Nagpur (Clinic Reg. No. 699)

For any assistance call at . 9860204241, 0712-6610595

Date: 12-12-2023

AUDIOLOGICAL EVALUATION

1. SR.NO:92	CERTIFICATE NO: 92	2. EMPLOYEES CODE: 101632
3. DEPARTMENT: Mines		4. DESIGNATION: Dy General Manager
5. NAME : Rangnath Rai		6.CONTRACTOR NAME: PCL
7. SEX : Male		8. AGE: 47 yrs
9. ADDRESS : PRISM JOHNSON LIMITED, MANKAHARI,PO: BATHIA, DIST: SATNA, MADHYA PRADESH		
10. DIAGNOSIS: LT: WNL		11.RT: WNL



TEST FREQUENCY

Air O	= LEFT EAR :	WNL
Y	= RIGHT EAR :	WNL
Masking		
No Response: Audiologists Remarks		

Dr. DEEPAK DEOTALE
M.B.B.S. A.F.I.H.
Reg. No. 48366

Dr Deepak Deotale
MBBS, AFIH
Reg. No. 48366

92
TEST NO
92

MAYA HOSPITAL
& RESEARCH INSTITUTE

Add.: Plot .P 78, Opposite State Bank of India, MIDC
Butibori (Nagpur)
Ph 07103-684885

Deotale Diagnostic Center We Care

_ Consultation _ Diagnostics Health _ Check-Ups _ Immunization

Dr. Deepak P. Deotale M.B.B.S., A.F.I.H. (Associated fellow Of industrial health) Certifying Surgeon Reg .No. 48366	SR.NO	92
	CERTIFICATE NO	92
	EMPLOYEES CODE	101632
	NAME	Rangnath Rai
	GENDER	Male
	DEPARTMENT	Mines
Clinic : Vinayak Apt. 3rd floor Dhantoli, Lokmat Chowk ,Nagpur (Clinic Reg. No. 699)	DESIGNATION	Dy General ManagerDy General Manager
	Check Up Date	12-12-2023
	MOB NO	9584460221
Mob. No .8007771341	Company Name: PRISM JOHNSON LIMITED, MANKAHARI,PO: BATHIA, DIST: SATNA, MADHYA PRADESH	
Email ID: deotaledeepak19577@gmail.com		

ISO 9001 : 2008 (Excl.Design)
ISO 14001 2004
OHSAS 18001 : 2007
SA 8000 : 2008
BUREAU VERITAS Certification

PRISM PLUS CHAMPION CEMENT

दूर की सोच®

दिनांक: 30/07/2021

प्रति,

सरपंच महोदय
ग्राम पंचायत - मलगॉव (चूल्ही एवं मझियार), विकास खंड - रामपुर बाघेलान
जिला - सतना (म० प्र०)

विषय: ग्राम पंचायत मलगॉव अंतर्गत मौजा चुल्ही एवं मझियार में मे० प्रिज्म जॉनसन लिमिटेड मनकहरी के लीज पर पर्यावरणीय स्वीकृति पत्र के सम्बन्ध में।

मान्यवर,

उपरोक्त विषय के सम्बन्ध में आपको यह सूचित किया जाता है कि भारत सरकार के पर्यावरण, वन एवं जलवायु मंत्रालय के पत्र क्र० J-11015/86/2018- IA.II (M) dated 26/07/2021 द्वारा ग्राम पंचायत मलगॉव अंतर्गत मौजा चूल्ही और मझियार में मे० प्रिज्म जॉनसन लिमिटेड मनकहरी को स्वीकृत माइनिंग लीज रकवा 176.619 हेक्टेयर पर पर्यावरणीय स्वीकृति प्रदान की गई है।

जानकारी महोदय को सूचनार्थ प्रेषित है।

संलग्नक: भारत सरकार के पर्यावरण, वन एवं जलवायु मंत्रालय द्वारा जारी पत्र क्र० J-11015/86/2018- IA.II (M) dated 26/07/2021की छायाप्रति।

वास्ते- प्रिज्म जॉनसन लिमिटेड,

PRISM JOHNSON LIMITED
(CEMENT DIVISION)

सरपंच
ग्राम पंचायत मलगाँव
ज.पं. रामपुर बाघे; जिला सतना (म.प्र.)

PRISMJOHNSON LIMITED
(Cement Division - Unit II)
Works: Village Mankahari, P.O.-Bathia, Dist. Satna - 485 111 (M.P.) India T: +91-07672-275301 / 302600
Corres. Add.: 'Rajdeep', Rewa Road, Satna - 485 001 (M.P.) India. T: +91-07672-402726
Registered Office: Prism Johnson Limited, 305, Laxmi Niwas Apartments, Ameerpet. Hyderabad - 500 016, India.
w: www.prismjohnson.in, www.cement.prismjohnson.in, E: info@prismjohnson.in
CIN: L26942TG1992PLC014033

आप पढ़ रहे हैं देश का सबसे विश्वसनीय और नंबर 1 अखबार

दैनिक भास्कर

आम सूचना

सर्वसाधारण को सूचित किया जाता है कि प्रिज्म जॉनसन लिमिटेड, ग्राम मनकहरी, जिला सतना को पर्यावरण और जलवायु परिवर्तन मंत्रालय (MOEF&CC), भारत सरकार द्वारा पत्र क्रमांक F.No.J-11015/86/2018-IA.II(M) दिनांक 26.07.2021 के माध्यम से जिला सतना के तहसील कोटर अंतर्गत ग्राम चूल्ही एवं मझियार में खनिज चूना पत्थर उत्खनन हेतु 176.619 हे. क्षेत्र पर पर्यावरणीय स्वीकृत प्रदान की गयी है। पर्यावरणीय स्वीकृत की प्रति/ विस्तृत जानकारी म.प्र. प्रदूषण नियंत्रण बोर्ड एवं पर्यावरण और जलवायु परिवर्तन मंत्रालय (MOEF&CC), भारत सरकार की वेवसाइट https://moef.gov.in पर उपलब्ध है। सूचना सर्वसाधारण की जानकारी हेतु प्रकाशित की जा रही है।

वास्ते- प्रिज्म जॉनसन लि., मनकहरी
जिला- सतना (म.प्र.)

Date
31/07/21

To
Core Committee
For your kind information please
Regards
Rig

स्टार समाचार

आम सूचना

सर्व साधारण को सूचित किया जाता है कि प्रिज्म जॉनसन लिमिटेड, ग्राम मनकहरी, जिला-सतना को पर्यावरण और जलवायु परिवर्तन मंत्रालय (MOEF&CC), भारत सरकार द्वारा पत्र क्रमांक F.No.J-11015/86/2018-IA.II(M) दिनांक 26.07.2021 के माध्यम से जिला-सतना के तहसील कोटर अंतर्गत ग्राम चूल्ही एवं मझियार में खनिज चूना पत्थर उत्तखनन हेतु 176.619 है. क्षेत्र पर पर्यावरणीय स्वीकृत प्रदान की गयी है।

पर्यावरणीय स्वीकृत की प्रति/विस्तृत जानकारी म.प्र. प्रदूषण नियंत्रण बोर्ड एवं पर्यावरण और जलवायु परिवर्तन मंत्रालय (MOEF&CC) भारत सरकार की वेवसाइट https://moef.gov.in पर उपलब्ध है। सूचना सर्व साधारण की जानकारी हेतु प्रकाशित की जा रही है।

वास्ते-प्रिज्म जॉनसन लि.,
मनकहरी जिला-सतना (म.प्र.)

Date
31/07/21

To
Core Committee
for your kind information please
Regards
RLS

VIBRANT
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TEST REPORT

TC-11227

Sample Number : VTL/AA/03

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/A/2406280016/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 06/07/2024
Period of Analysis : 28/06/2024-06/07/2024
Receipt Date : 28/06/2024

Sample Description : **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	Village - Hinauti (Chuli Majhiyar Mines)
Sample Collected By	:	VTL Team
Sampling Equipment used	:	RDS/FPS
Instrument Code	:	VTL/RDS/FPS/04
Coordinates	:	81.002441 & 24.587488
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	25/06/2024 To 26/06/2024
Time of Monitoring	:	12:00 to 12:00 Hrs.
Ambient Temperature (°C)	:	Min.30° Max 39°
Surrounding Activity	:	Human, Vehicular & Other Activities
Scope of Monitoring	:	Regulatory Requirment
Method of Sampling	:	IS :5182
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	64.85	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	32.99	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	18.32	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	8.92	µg/m³	80

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report

Checked by

VIBRANT TECHNO LAB PRIVATE LIMITED ★ JAIPUR

RK Yadav
Lab Incharge
Authorized Signatory

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TEST REPORT

Sample Number : VTL/AA/03

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/A/2406280016/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 06/07/2024
Period of Analysis : 28/06/2024-06/07/2024
Receipt Date : 28/06/2024

Sample Description : **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	Village - Hinauti (Chuli Majhiyar Mines)
Sample Collected By	:	VTL Team
Sampling Equipment used	:	RDS/FPS
Instrument Code	:	VTL/RDS/FPS/04
Coordinates	:	81.002441 & 24.587488
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	25/06/2024 To 26/06/2024
Time of Monitoring	:	12:00 to 12:00 Hrs.
Ambient Temperature (°C)	:	Min.30° Max 39°
Surrounding Activity	:	Human, Vehicular & Other Activities
Scope of Monitoring	:	Regulatory Requirment
Method of Sampling	:	IS :5182
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10) 1999 RA 2019 (NDIR)	0.63	mg/m³	4

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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TEST REPORT

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TC-11227

Sample Number : VTL/AA/17

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/A/2406280017/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 06/07/2024
Period of Analysis : 28/06/2024-06/07/2024
Receipt Date : 28/06/2024

Sample Description : **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	Village - Malgaon (Chuli Majhiyar Mines)
Sample Collected By	:	VTL Team
Sampling Equipment used	:	RDS/FPS
Instrument Code	:	VTL/RDS/FPS/05
Coordinates	:	81.004569 & 24.605146
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	25/06/2024 To 26/06/2024
Time of Monitoring	:	11:30 to 11:30 Hrs.
Ambient Temperature (°C)	:	Min.30° Max 39°
Surrounding Activity	:	Human, Vehicular & Other Activities
Scope of Monitoring	:	Regulatory Requirment
Method of Sampling	:	IS :5182
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	65.12	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	32.74	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	17.99	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.41	µg/m³	80

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TEST REPORT

Sample Number : VTL/AA/17

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/A/2406280017/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 06/07/2024
Period of Analysis : 28/06/2024-06/07/2024
Receipt Date : 28/06/2024

Sample Description : **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	Village - Malgaon (Chuli Majhiyar Mines)
Sample Collected By	:	VTL Team
Sampling Equipment used	:	RDS/FPS
Instrument Code	:	VTL/RDS/FPS/05
Coordinates	:	81.004569 & 24.605146
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	25/06/2024 To 26/06/2024
Time of Monitoring	:	11:30 to 11:30 Hrs.
Ambient Temperature (°C)	:	Min.30° Max 39°
Surrounding Activity	:	Human, Vehicular & Other Activities
Scope of Monitoring	:	Regulatory Requirment
Method of Sampling	:	IS :5182
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10) 1999 RA 2019 (NDIR)	0.67	mg/m³	4

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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TEST REPORT

TC-11227

Sample Number : VTL/AA/22

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/A/2406280018/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 06/07/2024
Period of Analysis : 28/06/2024-06/07/2024
Receipt Date : 28/06/2024

Sample Description : **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	Village - Majhiyar (Chuli Majhiyar Mines)
Sample Collected By	:	VTL Team
Sampling Equipment used	:	RDS/FPS
Instrument Code	:	VTL/RDS/FPS/06
Coordinates	:	81.006206 & 24.600534
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	25/06/2024 To 26/06/2024
Time of Monitoring	:	12:30 to 12:30 Hrs.
Ambient Temperature (°C)	:	Min.30° Max 39°
Surrounding Activity	:	Human, Vehicular & Other Activities
Scope of Monitoring	:	Regulatory Requirment
Method of Sampling	:	IS :5182
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	74.56	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	36.99	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	19.42	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.67	µg/m³	80

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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TEST REPORT

Sample Number : VTL/AA/22

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/A/2406280018/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 06/07/2024
Period of Analysis : 28/06/2024-06/07/2024
Receipt Date : 28/06/2024

Sample Description : **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	Village - Majhiyar (Chuli Majhiyar Mines)
Sample Collected By	:	VTL Team
Sampling Equipment used	:	RDS/FPS
Instrument Code	:	VTL/RDS/FPS/06
Coordinates	:	81.006206 & 24.600534
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	25/06/2024 To 26/06/2024
Time of Monitoring	:	12:30 to 12:30 Hrs.
Ambient Temperature (°C)	:	Min.30° Max 39°
Surrounding Activity	:	Human, Vehicular & Other Activities
Scope of Monitoring	:	Regulatory Requirment
Method of Sampling	:	IS :5182
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10) 1999 RA 2019 (NDIR)	0.76	mg/m³	4

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report

Checked by

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TEST REPORT

TC-11227

Sample Number : VTL/AA/20

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/A/2406280019/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 06/07/2024
Period of Analysis : 28/06/2024-06/07/2024
Receipt Date : 28/06/2024

Sample Description : **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	Village - Chulhi (Chulhi Majiyar Mines)
Sample Collected By	:	VTL Team
Sampling Equipment used	:	RDS/FPS
Instrument Code	:	VTL/RDS/FPS/01
Coordinates	:	81.002619 & 24.594461
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	26/06/2024 To 27/06/2024
Time of Monitoring	:	11:00 to 11:00 Hrs.
Ambient Temperature (°C)	:	Min.29° Max 39°
Surrounding Activity	:	Human, Vehicular & Other Activities
Scope of Monitoring	:	Regulatory Requirment
Method of Sampling	:	IS :5182
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	75.26	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	37.85	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	20.45	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.89	µg/m³	80

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report

Checked by

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TEST REPORT

Sample Number : VTL/AA/20

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/A/2406280019/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 06/07/2024
Period of Analysis : 28/06/2024-06/07/2024
Receipt Date : 28/06/2024

Sample Description : **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	Village - Chulhi (Chulhi Majiyar Mines)
Sample Collected By	:	VTL Team
Sampling Equipment used	:	RDS/FPS
Instrument Code	:	VTL/RDS/FPS/01
Coordinates	:	81.002619 & 24.594461
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	26/06/2024 To 27/06/2024
Time of Monitoring	:	11:00 to 11:00 Hrs.
Ambient Temperature (°C)	:	Min.29° Max 39°
Surrounding Activity	:	Human, Vehicular & Other Activities
Scope of Monitoring	:	Regulatory Requirment
Method of Sampling	:	IS :5182
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10) 1999 RA 2019 (NDIR)	0.71	mg/m³	4

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report

Checked by

VIBRANT TECHNO LAB PRIVATE LIMITED JAIPUR

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Lab Incharge
Authorized Signatory

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TEST REPORT

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TC-11227

Sample Number : VTL/GW/010

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Sample Description : SURFACE WATER
Sampling Location : Chulhi- Majhiyar Limestone Mine 176.619 Ha., Pit
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000002442F
Report No. : VTL/W/2410240025/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/10/2024
Period of Analysis : 24/10/2024-28/10/2024
Receipt Date : 24/10/2024
Sampling Date : 22/10/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 81.998838 & 24.564754

S.No.	Test Parameters	Test Method	Results	Units
1	pH value	IS : 3025 (P-11) : 2022	7.32	--
2	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	326.0	mg/l
3	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	34.1	mg/l
4	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986,Sec.RA 2022	38.4	mg/l
5	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	13.5	mg/l
6	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	142.0	mg/l
7	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.30	mg/l
8	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	10.4	mg/l
9	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ- 0.05)	mg/l
10	Dissolved oxygen (DO)	IS : 3025 (P -38) : 1989, RA 2019	6.1	mg/l
11	Biochemical Oxygen Demand (BOD) (3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	6.4	mg/l
12	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	25.45	mg/l
13	Total Coliform	IS 15185; 2016	96	MPN
14	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.16	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.28	mg/l
16	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ- 0.02)	mg/l
17	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ- 0.005)	mg/l
18	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ- 0.005)	mg/l
19	Boron (as B)	APHA 23rd Edition, 4500B, 2017	*BLQ(**LOQ- 0.2)	mg/l
20	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ- 0.02)	mg/l
21	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ- 0.002)	mg/l

Checked by

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Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

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TEST REPORT

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TC-11227

Sample Number : VTL/GW/010

ULR No. : TC1122724000002442F
Report No. : VTL/W/2410240025/A

*BLQ Blow limit of Quantification **LOQ Limit of Quantification

End of Report

Checked by

VIBRANT TECHNO LAB PRIVATE LIMITED JAIPUR

RK Yadav
Lab Incharge
Authorized Signatory

Term & conditions PTO

Vibrant Techno Lab Pvt. Ltd.
SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020
9929108691, 9810205356, 8005707098, 9549956601
0141-2954638
bd@vibranttechnolab.com
www.vibranttechnolab.com

TEST REPORT

VIBRANT
"Experience the unimaginable"

Sample Number : VTL/GW/010

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Sample Description : SURFACE WATER
Sampling Location : Chulhi- Majhiyar Limestone Mine 176.619 Ha., Pit
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/W/2410240025/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/10/2024
Period of Analysis : 24/10/2024-28/10/2024
Receipt Date : 24/10/2024
Sampling Date : 22/10/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 81.998838 & 24.564754

S.No.	Test Parameters	Test Method	Results	Units
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-1)	Hazen
2	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l

*BLQ Blow limit of Quantification **LOQ Limit of Quantification

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TC-11227

Sample Number : VTL/GW/010

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Sample Description : SURFACE WATER
Sampling Location : Chulhi- Majhiyar Limestone Mine 176.619 Ha., Pit
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000002442F
Report No. : VTL/W/2410240025/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/10/2024
Period of Analysis : 24/10/2024-28/10/2024
Receipt Date : 24/10/2024
Sampling Date : 22/10/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 81.998838 & 24.564754

S.No.	Test Parameters	Test Method	Results	Units
1	pH value	IS : 3025 (P-11) : 2022	7.32	--
2	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	326.0	mg/l
3	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	34.1	mg/l
4	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986,Sec.RA 2022	38.4	mg/l
5	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	13.5	mg/l
6	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	142.0	mg/l
7	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.30	mg/l
8	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	10.4	mg/l
9	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ- 0.05)	mg/l
10	Dissolved oxygen (DO)	IS : 3025 (P -38) : 1989, RA 2019	6.1	mg/l
11	Biochemical Oxygen Demand (BOD) (3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	6.4	mg/l
12	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	25.45	mg/l
13	Total Coliform	IS 15185; 2016	96	MPN
14	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.16	mg/l
15	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.28	mg/l
16	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ- 0.02)	mg/l
17	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ- 0.005)	mg/l
18	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ- 0.005)	mg/l
19	Boron (as B)	APHA 23rd Edition, 4500B, 2017	*BLQ(**LOQ- 0.2)	mg/l
20	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ- 0.02)	mg/l
21	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ- 0.002)	mg/l

Checked by

VIBRANT TECHNO LAB PRIVATE LIMITED JAIPUR

RK Yadav
Lab Incharge
Authorized Signatory

Term & conditions PTO

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

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TEST REPORT

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TC-11227

Sample Number : VTL/GW/010

ULR No. : TC1122724000002442F
Report No. : VTL/W/2410240025/A

*BLQ Blow limit of Quantification **LOQ Limit of Quantification

End of Report

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TEST REPORT

VIBRANT
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Sample Number : VTL/GW/010

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Sample Description : SURFACE WATER
Sampling Location : Chulhi- Majhiyar Limestone Mine 176.619 Ha., Pit
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/W/2410240025/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/10/2024
Period of Analysis : 24/10/2024-28/10/2024
Receipt Date : 24/10/2024
Sampling Date : 22/10/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 81.998838 & 24.564754

S.No.	Test Parameters	Test Method	Results	Units
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-1)	Hazen
2	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l

*BLQ Blow limit of Quantification **LOQ Limit of Quantification

End of Report

Checked by

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TEST REPORT

TC-11227

VIBRANT
"Experience the unimaginable"

Sample Number : VTL/AN/20

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/N/2406280014/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 06/07/2024
Receipt Date : 28/06/2024

Sample Description : **Ambient Noise Level Monitoring**
Scope of Monitoring : Regulatory Requirment
Protocol Used : IS 9989
Instrument Used : SLM

Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument Calibration Status : Calibrated

General Information:-

Sampling Location : Village- Hinauti (Chuli Majhiyar Mine)
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 25/06/2024 To 26/06/2024
Time of Monitoring : 06:00 to 06:00 Hrs.
Ambient Temperature (°C) : Min.30° Max 39°
Surrounding Activity : Human, Vehicular & Other Activities
Parameter Required : As per work order
Coordinates : 80.99117 & 24.56758

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	49.1	38.7

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

End of Report

Checked by

VIBRANT TECHNO LAB PRIVATE LIMITED ★ JAIPUR

RK Yadav
Lab Incharge
Authorized Signatory

Term & conditions PTO

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

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TEST REPORT

VIBRANT
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TC-11227

Sample Number : VTL/AN/19

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/N/2406280015/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 06/07/2024
Receipt Date : 28/06/2024

Sample Description : **Ambient Noise Level Monitoring**
Scope of Monitoring : Regulatory Requirment
Protocol Used : IS 9989
Instrument Used : SLM

Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument Calibration Status : Calibrated

General Information:-

Sampling Location : Village- Malgaon (Chuli Majhiyar Mine)
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 25/06/2024 To 26/06/2024
Time of Monitoring : 06:00 to 06:00 Hrs.
Ambient Temperature (°C) : Min.30° Max 39°
Surrounding Activity : Human, Vehicular & Other Activities
Parameter Required : As per work order
Coordinates : 80.99117 & 24.56758

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	52.9	42.5

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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End of Report

Checked by

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TEST REPORT

VIBRANT
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TC-11227

Sample Number : VTL/AN/18

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/N/2406280016/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 06/07/2024
Receipt Date : 28/06/2024

Sample Description : **Ambient Noise Level Monitoring**
Scope of Monitoring : Regulatory Requirment
Protocol Used : IS 9989
Instrument Used : SLM

Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument Calibration Status : Calibrated

General Information:-

Sampling Location	:	Village- Majhiyar (Chuli Majhiyar Mine)
Instrument Code	:	VTL/SLM/03
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	25/06/2024 To 26/06/2024
Time of Monitoring	:	06:00 to 06:00 Hrs.
Ambient Temperature (°C)	:	Min.30° Max 39°
Surrounding Activity	:	Human, Vehicular & Other Activities
Parameter Required	:	As per work order
Coordinates	:	80.99117 & 24.56758

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	51.2	40.7

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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End of Report

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TEST REPORT

VIBRANT
"Experience the unimaginable"

TC-11227

Sample Number : VTL/AN/16

Name & Address of the Party : M/s PRISM JOHNSON LIMITED
Village- Mankahari, Tehsil- Rampur Baghelan, Dist. - Satna (M.P.)

Report No. : VTL/N/2406280017/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 06/07/2024
Receipt Date : 28/06/2024

Sample Description : **Ambient Noise Level Monitoring**
Scope of Monitoring : Regulatory Requirment
Protocol Used : IS 9989
Instrument Used : SLM

Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument Calibration Status : Calibrated

General Information:-

Sampling Location : Village- Kulhari (Badarkha Mine)
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 25/06/2024 To 26/06/2024
Time of Monitoring : 06:00 to 06:00 Hrs.
Ambient Temperature (°C) : Min.30° Max 39°
Surrounding Activity : Human, Vehicular & Other Activities
Parameter Required : As per work order
Coordinates : 80.99117 & 24.56758

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	50.3	42.3

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
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O/C

ISO 9001 : 2008 (Excl.Design)
ISO 14001 2004
OHSAS 18001 : 2007
SA 8000 : 2008
BUREAU VERITAS Certification

PRISM PLUS CHAMPION CEMENT
दूर की सोच

Date: 11-04-2022
No. PJL/MRM/2022-23/23

To,

Collector,
Mining Branch, Satna
District Satna, M.P.

Subject: Notice for commencement of production and despatch from lease area **(Chulhi & Majhiyar, mining lease)** 176.619 ha, Tehsil Kotar, District Satna, M.P. as per provisions of clause 5.1(a&b) of MDPA.

Sir,

With reference to the aforesaid subject, mining lease area 176.619 ha granted under the villages Chulhi & Majhiyar, tehsil Kotar, district of Satna production has commenced on 08.04.2022. As per the provisions of clause 5.1(b) of MDPA, intimation pertaining to the production and despatch is to be submitted. As per provisions of MCR 2016 notice for opening of mine in Form-C has already been served to your good office on dated 07.12.2021 and copy of the same is enclosed herewith for your easy reference.

Kindly treat this letter as a notice for commencement of production and despatch of limestone mineral from the aforesaid mines area please.

For, Prism Johnson Limited

Vinod Shrivastava
Vice President (Mines & MRM)

Enlc: Copy of Form-C.

11-04-2022
आवक लिपिक
जिलाध्यक्ष कार्यालय
शाखा सतना (म.प्र.)

PRISM CHAMPION CEMENT | PRISM CHAMPION DURATECH CEMENT

PRISM JOHNSON LIMITED
(FORMERLY PRISM CEMENT LIMITED)
(Cement Division)
Works: Village Mankahari, P.O.-Bathia, Dist. Satna - 485 111 (M.P.) India T: +91-07672-275301 / 302600
Corres. Add.: 'Rajdeep', Rewa Road, Satna - 485 001 (M.P.) India. T: +91-07672-402726
Registered Office: Prism Johnson Limited, 305, Laxmi Niwas Apartments, Ameerpet. Hyderabad - 500 016, India.
w: www.prismjohnson.in, www.cement.prismjohnson.in, E: info@prismjohnson.in
CIN: L26942TG1992PLC014033

IS/ISO 9001 : 2008 (Excl.Design)
ISO 14001:2004
OHSAS 18001 : 2007
SA 8000 : 2008
BUREAU VERITAS Certification

PRISM CHAMPION PLUS CEMENT

दूर की सोच

MIN/PJL/2021/ Date: 07.12.2021

To,
The Regional Controller of Mines
Indian Bureau of Mines,Jabalpur
Scheme No. 11, IBM Colony,
Kamla Nehru Nagar,
Jabalpur – 482002

Sub: Notice of intimation of opening / ~~reopening~~ of mine, in form C of Chulhi Majhiyar Limestone Mine of M/s Prism Johnson Ltd. over an area of 176.619 Hect. in village Chulhi & Majhiyar.

Dear Sir,

Please find the notice in form C of notice of opening / ~~reopening~~ of our mine, Chulhi Majhiyar Limestone Mine of M/s Prism Cement Limited over an area of 176.619 Hectare in village Chulhi & Majhiyar, Tehsil Kotar District Satna (M.P.)

We hope you will find the same in order.

Yours faithfully

For **Prism Johnson Limited,**

Vinod Shrivastava

Vice President & Agent-Mines

Chulhi Majhiyar Limestone Mines

Encl: As above

CC:

1. The Chief Controller of Mines, Indian Bureau of Mines NAGPUR- 440 001
2. The Controller of Mines, Central Zone, Indian Bureau of Mines NAGPUR- 440 001
3. The Directorate of Geology & Mining 29-A, Khanij Bhawan, Arera Hills, Bhopal – 462011
4. The Mining Officer, Collectorate, District Satna(M.P.) - 485001

PRISM JOHNSON LIMITED
(FORMERLY PRISM CEMENT LIMITED)
(Cement Division - Unit II)

Works: Village Mankahari, P.O.-Bathia, Dist. Satna - 485 111 (M.P.) India T: +91-07672-275301 / 302600
Corres. Add.: 'Rajdeep', Rewa Road, Satna - 485 001 (M.P.) India. T: +91-07672-402726
Registered Office: Prism Johnson Limited, 305, Laxmi Niwas Apartments, Ameerpet. Hyderabad - 500 016, India.
w: www.prismjohnson.in, www.cement.prismjohnson.in, E: info@prismjohnson.in

CIN: L26942TG1992PLC014033

PRISM CHAMPION CEMENT | PRISM CHAMPION DURATECH CEMENT

FORM-C

(Notice of intimation of opening-~~reopening~~ of mine-~~change in the name of mine~~)

[See rule 20, 29 & 49]

IMPORTANT INSTRUCTIONS FOR FILLING THE FORM

- This Form, duly filled in must reach the concerned authorities as prescribed within the rule, within fifteen days of the opening or reopening and within thirty days in case of change in the name of mine, by online or Email.
- This should be sent to the Regional Controller in whose territorial jurisdiction the mineral concession falls as notified from time to time by the Controller General, Indian Bureau of Mines, under rule 66 of the Mineral Conservation Development Rules, 2016.
- The form should be digitally signed by the concerned person.

To

The Regional Controller Mines,
Indian Bureau of Mines, Jabalpur - 482002

Copy for information to

1. The Chief Controller of Mines, Indian Bureau of Mines, Nagpur - 440 001
2. The Controller of Mines Central Zone
   Indian Bureau of Mines, Nagpur - 440 001
3. State Government concerned.
   i) The Directorate of Geology & Mining
   29-A, KhanijBhawan, Arera Hills,
   Bhopal – 462011
   ii) Mining Officer, Collectorate
   Dhawari, Satna(MP)-485001

1. **IBM Registration Number**	IBM/267/2011
2. **Mining Lease Code**	3285
3. **Mine Code**	**267/38MPR35358**
4. **Name of mine -Old name of mine (in case of change in name)**	Not Applicable
5. **Name and address of the lessee-owner**	Shri Vivek K. Agnihotri Executive Director & CEO – (Cement) Prism Johnson Limited "Rahejas" Plot No. 8E, Main Avenue Vallabh Bhai Patel Road Santacruz (W) Mumbai - 400 054
6. **Date of opening-~~reopening~~ of mine**	04.12.2021
7. **In case of reopening, date of discontinuation**	Not Applicable
8. **Particulars of the Mining Lease (ML)**	ML Order No : **F3-60/2008/12/1, Dtd: 22.07.2019**

9. Location of the Mining Lease

i) Village: Chulhi & Majhiyar Taluka/Tahsil : Kotar Distt. : Satna

ii) Post Office: Malgaon Police Station : Rampur Baghelan Distt.: Satna

iii) Nearest railway station: Satna Distance : 15 Km

iv) Nearest Rest House/Dak Bangalow : Satna

10. **Name and address of previous owner if any and the**	Not Applicable

date of abandonment of Mine

11. **Name and address of Agent of Mine**

Name	Address	E-mail.	Mobile no.
Shree Vinod Shrivastava	M/s Prism Johnson Ltd. "Rajdeep", Rewa Road, Satna (MP)-485 001	vinod.shrivastava@prismjohnson.in	9584464612

12. **Particulars of Mining Engineer employed in the mine:**

Shri Dharmendra kumar singh
M/s Prism Johnson Ltd.
"Rajdeep", Rewa Road, Satna (MP)-485 001

(ii) Qualification : Diploma (mining and mine surveying) with First class certificate of competency issued by the DGMS

(iii) Date of appointment : 06.12.2021

(iv) Status of employment: Whole time Part time — Whole time

13. **Particulars of Geologist employed in the mine**

Shri Santosh Kumar
M/s Prism Johnson Ltd.
"Rajdeep", Rewa Road, Satna (MP)-485 001

(ii) Qualification : M. Tech (Applied Geology)

(iii) Date of appointment : 06.12.2021

(iv) Status of employment: Whole time Part time — Whole time

14. **Particulars of Manager employed in the mine**

Shri Dharmendra kumar singh
M/s Prism Johnson Ltd.
"Rajdeep", Rewa Road, Satna (MP)-485 001

(ii) Qualification : Diploma (mining and mine surveying) with First class certificate of competency issued by the DGMS

(iii) Date of appointment : 06.12.2021

(iv) Status of employment: Whole time Part time — Whole time

15. **Letter No. and date through which the mining plan was approved by the Indian Bureau of Mines or State Government concerned** — Letter No.: MP/Satna/ Limestone/MPLN-G30/18-19/7478 Dated 09.01.2019

Place: PJL, Satna

Signature:

Date:07.12.2021

Name in full: Vinod Shrivastava

Designation: ~~Owner~~ / **Agent** / ~~Mining Engineer~~ / ~~Manager~~

भारत सरकार
Govt. of India
श्रम एवं रोजगार मंत्रालय
Ministry of Labour & Employment
खान सुरक्षा महानिदेशालय
Directorate-General of Mines Safety

NO: 362639|WZ|Jabalpur Region|Perm|2022|237080 Dhanbad, Date: 31/03/2022

From

The Director of Mines Safety,

Jabalpur Region.

To,

The Agent,

Chulhi - Majhiyar Limestone Mine

Prism Johnson Limited

Village -Chulhi - Majhiyar, Post- Goraiya

Teh. Kotar, Distt. Satna (M.P.)

Sub : Relaxation from the provision of Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961 to work the mine by opencast method with deployment of Heavy Earth Moving Machinery in conjunction with deep hole drilling and blasting at Chulhi - Majhiyar Limestone mine of M/s Prism Johnson Limited.

Sir,

Please refer to your letter No. PJL/MIN/2022-22028 dated 07/02/2022 and online application ID 237080 dated 25.02.2022 and the plan No PJL/C/2022/102 dated 02.02.2022 enclosed therewith on the above subject.

The matter has since been examined in this Directorate on the basis of information furnished and also shown on the plan submitted by you.

In exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director General of Mines Safety) under Regulation106(2)(b) of the Metalliferous Mines Regulations, 1961 and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director General of Mines

Safety) under Section 6(1) of the Mines Act, 1952, I hereby grant you relaxation from the provision of Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961 to work the mine by opencast method with deployment of Heavy Earth Moving Machinery in conjunction with deep hole drilling and blasting at Chulhi - Majhiyar Limestone mine of M/s Prism Johnson Limited in Block-1 (bounded in A-1, A-2, A-3, A-4, A-5, A-6, A-7, A-8, A-9, A-10, A-11, A-12, A-13, A-14, A-15, A-16, A-17, A-18, A-19, A-20, A-1) in Eastern part of the lease and Block-2 (bounded in B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-24, B-25, B-26, B-27, B-28, B-29, B-30, B-31, B-32, B-33, B-1) in South - Western part of the lease as shown on Plan No. PJL/C/2022/102 dated 02.02.2022 subject to the strict compliance of the following conditions:-

1. GENERAL :

1. 1 Except where otherwise provided for in this conditional permission, all provisions of the Metalliferous Mines Regulations, 1961, relating to opencast workings, use of explosives and machinery, etc., shall be strictly complied with.

1. 2 No Deep hole blasting shall be carried out within 300m of any structure not belonging to the owner unless permitted by this Directorate in writing under Regulation 164 (1)(b) of the Metalliferous Mines Regulations.

1. 3 No working shall be made or extended to any point within 45m of any structure not belonging to the owner.

1. 4 No Mining operations shall be carried out beyond day light hours.

1. 5.1 Embankment designed and constructed on sound civil engineering principles to serve as dam shall be provided and maintained around the opencast workings. The top of the embankment shall have a reduced level of atleast 289m in the Block -1 and atleast 291m in the Block -2.

1.5.2 A danger level mark with RL at 184m shall be fixed for block -1 and 187m shall be fixed for block -2. Suitable emergency plan shall be put into operation whenever water level in Tamas River touches this level or remains above it.

1. 5.3 Withdrawal level shall be fixed sufficiently below the toe of the embankment if embankment provided is not constructed on sound civil engineering principles.

1. 5.4 Float operated alarm switch shall be installed at a suitable point on the bank of Tamas River to give audio visual alarms at attendance office, manager's office, engineer's office and at manager's residence

whenever level of water in Tamas River touches or remains above danger mark. Float operated alarms shall be provided with alternate source of power so that it remains operational even during total failure of MPEB power supply.

1.5.5 Float operated alarms shall be maintained constantly operational and effectiveness of the system shall be checked by the engineer once in every day during the rainy season. Records of the same shall be maintained in a bound paged book which shall be countersigned by the manager every day.

1.5.6 Sufficient number of poles with RL marked at interval of 0.5m shall be installed in / at the bank of Tamas River. All such poles shall be visible (at all times of day and night) from a suitably located hut, from the bank of Tamas River. At least one guard in each shift shall be posted to keep watch on the level of water. The guard shall personally inform manager as and when level of water in the River touches or remains above danger mark.

1. 6 No blasting shall be conducted in Block –II during school time.

2.0 Opencast workings:

2.1 Height and width of benches

(a) The height of the benches in overburden/ore body or other rock formation shall not be more than the digging height of the machine used for digging, excavation or removal, and in any case it shall not be more than 6.0m.

(b) The width of any bench shall not be less than:-

i. The width of the widest machine plying on the bench plus two meters, or
ii. if dumpers ply on the bench - three time the width of the dumper, or
iii. the height of the bench, whichever is more.

3.0 General:

3.1 Quarrying operations shall be conducted from top downwards.

3.2 The provisions of Sub-regulation (4) & (5) of Regulation 106 shall be complied with.

3.3 When persons are employed within 5m of the working faces, adequate precautions shall be taken to ensure their safety by dressing the sides of the benches.

3.4 Special care shall be taken when any slip or other planes of weakness or other geological disturbances exist, so as to prevent danger to the work-persons.

3.5 No person shall be engaged or work or allowed to travel close to high sides/benches, from which he is likely to fall for more than 1.8m vertically down, unless he is provided with and uses a safety belt or rope.

4.0 Fencing around Opencast Workings:

4.1 The top edge of the opencast working shall be kept fenced with wire rope strands or barbed wire, supported by (movable) posts of timber, iron or concrete. The gap between the adjacent rope strands or wires shall not be more than 0.30m and bottom most rope, strand or wire shall not be more than 0.25m and the topmost rope, strand or wire shall not be less than 1.0m from ground level.

4.2 At the finishing stage, opencast working shall be fenced with a masonry wall using lime mortar not less than 0.40m thick and not less than 1.2m high, with a parapet top.

5.0 Haul Roads for trucks, tippers and dumpers etc.

5.1 All roads for trucks, dumpers or other mobile machinery shall be maintained in good condition.

5.2 Where practicable, all roads from the opencast workings shall be arranged to provide one-way traffic. Where this is not practicable, no road shall be of a width less than three times plus 5m width of the largest vehicle plying on that road.

5.3 All corners and bends in roads shall be made in such a way that the operator of vehicles has a clear view of distance of not less than 30 meters, along the road. Where it is not possible to ensure a visibility for a distance of 30 m, there shall be provided with two roads of width not less than 2 times plus 3m of largest vehicle plying on the road with a strong road divider at centre with adequate lighting and reflector along the divider

5.4 No road shall have a gradient more than 1 in 16 at any place, except for ramps over small stretches not exceeding 10m in length, where gradient up to 1 in 10 may be permitted.

5.5 Where any road exists above level of the surrounding area, it shall be provided with strong parapet wall/embankment of following dimensions:

i. Width at top-not less than 1 m.
ii. Width at bottom-not less than 2.5m.
iii. The height not less than the diameter of tyre of largest vehicle plying on road.

It may be noted that just dumping of mud or Overburden shall not treated as strong parapet wall.

5.6 Separated haul road shall be provided for light vehicles plying in the mine premises. Where it is not practicable, definite turnouts, crossing points and waiting points shall be designated for use of Vehicles.

6.0 Precautions-while drilling:

6.1 The position of every hole to be drilled shall be distinctly marked by the Mine Foreman so as to be readily seen by the drillers.

6.2 (a) No drilling shall be commenced in an area where shots have been fired, until the blaster has made a thorough examination at all places, including remaining sockets of old holes, for unexploded charges that the drill may strike.

(b) No drill or bore rod or pick shall be inserted in sockets of old holes even if an examination under Clause (a) has failed to reveal presence of explosives.

6.3 No person shall be permitted to remain within a radius of 20 m or within 60 m on the same bench where charging of holes with explosives is being carried out.

7.0 BULK TRANSPORT OF EXPLOSIVES:

Where explosives are being transported in bulk for deep-hole blasting, the following provisions shall apply:-

7.1 Transport of explosives from the magazine to the priming station or the site of blasting shall not be done except in day light and in the original wooden or card board packing cases. The quantity of explosives transported at one time to the site of blasting shall not exceed the actual quantity required for use in one round of shots. The explosives shall be transported to the site of blasting not more than 30 minutes before the commencement of charging of holes.

7.2 (a) No mechanically propelled vehicle shall be used for transportation of explosives unless it is of a type approved in writing by the Chief Inspector, provided that a jeep or Land Rover may be used for the transport of detonators from magazine to “priming station” subject to the following conditions :

(i) Not more than 200 detonators are transported in a vehicle at a time;

(ii) the detonators are packed suitably in a wooden box;

(iii) the wooden box containing detonators is placed inside another metal case of a construction approved by the Chief Inspector;

(iv) the outer metal case shall be suitably bolted to the floor of the vehicle or otherwise fixed in a wooden frame so that the container is not displaced while the vehicle is in motion; and

(v) no person shall ride on the rear portion of vehicle.

(b) Every vehicle used for transport of explosive shall be marked or placarded, on both sided and ends, with the word EXPLOSIVE in red letters not less than 25 centimeters high on a white background.

(c) Every mechanically propelled vehicle transporting explosives shall be provided with not less than two fire extinguishers (one of Carbon Tetra Chloride type for petroleum fire and the other of Carbon Dioxide under pressure type for electrical fire) suitably placed for immediate use.

7.3 (a) the vehicle used for transport of explosive shall not be overloaded, and in no case shall the explosive cases be piled higher than the sides of its body.

(b) Explosives and detonators shall not be transported in the same vehicle.

7.4 (a) No person other than the driver and his helper (not below 18 years of age) shall ride on a mechanically propelled vehicle used for the transport of explosives.

(b) A vehicle loaded with explosives shall not be left unattended.

(c) The engine of a vehicle transporting explosives shall be stopped and the brakes set securely before it is loaded or unloaded or left standing.

(d) A vehicle transporting explosives shall not be driven at a speed exceeding 25 kilometers per hour.

(e) A vehicle loaded with explosives shall not be taken into garage or repair shop and shall not be parked in a congested place.

(f) A vehicle transporting explosives shall not be refuelled except in emergencies; even then its engine shall be stopped and other precautions taken to prevent accidents.

(g) No trailer shall be attached to a vehicle transporting explosives.

7.5 (a) Every vehicle used for the transport of explosives shall be carefully inspected once in every 24 hours by a competent person, to ensure that :

(i) fire extinguishers are filled and are in place;

(ii) the electric wiring is well insulated and firmly secured;

(iii) the chassis, engine and body are clean and free from surplus-oil and grease;

(iv) the fuel tank and feed lines are not leaking; and

(v) lights, brakes and steering mechanism are in good working order.

(b) A report of every inspection made as above shall be recorded in a bound-paged book kept for the purpose, and shall be signed and dated by the competent person making the inspection.

7.6 All operations connected with the transport of explosives shall be conducted under the personal supervision of a mine foreman solely placed in charge of blasting operations at the mine.

7.7 The blaster shall, personally search every person engaged in the transport and use of explosives and shall satisfy himself that no person so engaged has in his possession any cigar, cigarette, 'biri' or other smoking material or any match or any other apparatus of any kind capable of producing a light, flame or spark.

8.0 Charging of Deep Holes:

8.1 General precautions and rules regarding handling of explosives shall be observed by the blasting crew. Only such minimum number of person shall be allowed to remain at the charging site as are required during charging operations and firing of shot holes.

8.2 The entire area where charging of explosives is to be done shall be demarcated by suitable flags and effectively guarded to prevent unauthorised entry of persons or plying of other vehicles, and shall be kept free from dry vegetation and other combustible material.

8.3 Smoking, naked light or open flames shall not be allowed within 300m of the area where charging of explosives is being carried on.

8.4 The holes shall be charged (and fired) as soon as possible after the explosive is transported to the site of blasting. All normal precautions for charging (and firing) as laid down in the Metalliferous Mines Regulations, 1961 shall be strictly observed.

8.5 Explosive cartridges shall not be slit or deformed. Adequate amount of cap sensitive explosive shall be used with non cap sensitive explosive charge to ensure complete detonation of the explosive charge.

8.6 Explosives shall be delivered/charged first into the hole farthest from the 'Priming Station', so as to avoid persons walking among piles of explosives and charged holes.

8.7 Not more than one hole shall be in process of being charged on any face at any point of time.

8.8 All operations connected with charging, stemming and making connections shall be done while standing on the solid ground that is to stay, on the side of holes away from the quarry face.

8.9 The cartridges of explosives shall be lowered carefully into the shot holes, so as to avoid sticking of cartridges in the shot holes, thereby causing air space(s) in the explosive column. After charging such hole with explosives, the length of the uncharged/remaining portion of the hole shall be measured to confirm that the cartridges are in close contact with each other and there is no air gap between the explosive column. In case, the length of uncharged portion of the hole is not as per calculation, thereby indicating the presence of air space, attempt may be made to push down the charge in case of slurry explosives only. The remaining hole shall then be stemmed with moist sand/aggregate of suitable size before blasting the shot holes.

8.10 Explosive charge shall not be allowed to sleep over in holes unless express permission in writing to the effect is obtained.

9.0 Precautions during Blasting/Firing:

9.1 Shots shall not be fired except during the hours of day light. All holes charged on any one day shall be fired on the same day.

9.2 Shots shall not be fired in crushed, broken or fractured ground.

9.3 As far as practicable, deep holes shall be fired either between the shifts, or during the rest interval, or at the end of work for the day.

9.4 The danger zone shall be distinctly demarcated (by means of red flags or other suitable means) at least 30 minutes before firing of holes.

9.5 Proper and distinct warning by a siren installed for the purpose shall be given within the danger zone, at least 10 minutes before the holes are fired.

9.6 Before the holes are charged, stemmed and fired, the shotfirer/blasting foreman, with assistance of his assistants, appointed in sufficient number in writing by the manager, shall ensure that all persons have either left the danger zone, or have taken adequate shelter.

9.7 In case, part of a public road lie within the danger zone, guards shall be posted on either end of the road falling within danger zone, and traffic shall be stopped before shots are fired. In the event of any railway line or public road lying within the danger zone, no shot shall be fired when there is traffic on the railway track or public road.

9.8 During approach of an electric storm, following precautions shall be taken –

(i) No explosives, particularly detonators shall be handled.

(ii) If charging operations have begun, work shall be discontinued till the storm has passed.

(iii) If shots are being fired electrically, all exposed wires shall be coiled up and kept covered by something other than a metal plate.

(iv) All wires shall be removed from contact with metallic plates/steel rails so as to prevent the charge from exploding prematurely by a local strike of the lightning.

9.9 After shots have been fired, no person shall enter or be allowed to enter the place, until 30 minutes after firing of the shots. Before allowing any person to enter the area, the Assistant/Under Manager in-charge of the blasting operations shall make sure that the area is free from dust, smoke or fumes.

9.10 In case of misfires, precautions as laid down in Regulation 167 of Metalliferous Mines Regulations, 1961 shall be taken.

9.11 Notwithstanding anything contained in the Metalliferous Mines Regulations, 1961, the preparation of charges and the charging and stemming of holes shall be carried out under the personal supervision of blasting foreman.

10.0 **General lighting:** Where natural lighting is insufficient, adequate general lighting as per the standards laid down in DGMS (Legis.) Circular No.3 of 2017 dated 06.11.2017), issued under Regulation 148(2) of the Metalliferous Mines Regulations, 1961, shall be provided at all opencast workings, haul roads, dump yards, sumps and other working places for working the mine beyond day-light hours.

11.0 Design, maintenance & operation of machinery & vehicles:

11.1 All repairs of a machinery or vehicle shall be done at properly laid repair sheds and workshops so as to ensure due protection to work persons deployed at those places from the movement of heavy earth moving machinery.

11.2 Every place of drilling and earth moving machinery or equipment (hereinafter called machine) and every truck, dumper, etc, (hereinafter called vehicle), shall be maintained in good and safe working condition.

11.3 (a) Every machinery or vehicle shall be provided with efficient warning devices, adequate front and rear lights and efficient brakes.

(b) Every shovel shall be so designed as to afford the operator clear and uninterrupted vision all around and shall be provided with portable lamp for emergency, suitable portable fire extinguishers and retracting ladder.

(c) The operator's cabin of heavy earth moving machinery shall be well designed and substantially built. The cabin of all new machineries and vehicles shall be fitted with air conditioner so as to ensure adequate protection to the operator against heat, dust, noise etc. Effort shall be made to provide air conditioner in the old non-air-conditioned machineries and vehicles. The design of machinery and vehicle shall be such as to provide adequate safety to the operator in the event of overturning of heavy earth moving machinery. A seat belt for the safety of the operator shall be provided.

11.4 (a) The code of instructions furnished by the manufacturers in the matter of operation and maintenance of various machinery and vehicles and preventive maintenance schedules for each type of machinery and vehicle shall be strictly followed.

(b) Every machine and vehicle shall be allocated at least one day in every week for maintenance. Before the machine or vehicle is sent out for work after maintenance, it shall be thoroughly inspected by the Engineer or mechanical foreman or other competent person, appointed by the Manager in writing, who shall satisfy himself that the machine or vehicle is mechanically sound and in efficient working order.

(c) A report of every inspection made under clause (b) shall be recorded in a bound paged book kept for the purpose, and shall be signed and dated by the person making the inspection.

(d) Every machine in use shall be thoroughly inspected once at least in every 24 hours by a competent person. Any damaged or worn out parts shall be replaced immediately.

(e) A report of every inspection made under Clause (d) shall be recorded in a bound paged book kept for the purpose and shall be signed and dated by person making the inspection.

11.5 If the Engineer or Mechanical Foreman or other competent person making an inspection notices any defect in any machinery or vehicle, the said machinery or vehicle shall not be used until the defect has been remedied.

11.6 Any defect in a machinery or vehicle reported by its operator shall be promptly attended to.

11.7 Any machine or vehicle found to be in an unsafe operating condition shall be tagged at the operator's position "OUT OF SERVICE DO NOT USED" and its use shall be prohibited until the unsafe condition has been corrected.

11.8 All repairs of a machinery or vehicle shall be done at a location which will provide a safe place for the persons engaged on repairs.

11.9 Except for testing trial or adjustment which must necessarily be done while the machine or vehicle is in motion, every machine or vehicle shall be shut down and positive means taken to prevent its operation while any repair or manual lubrication is being done.

11.10 Any machinery, equipment or part thereof which is suspended or held apart by use of slings, hoists or jacks shall be substantially blocked or cribbed before men are permitted to work underneath or between such machinery, equipment or part thereof.

11.11 Power shall be disconnected when repairs are made to any electric machine.

11.12 Fluorescent stickers shall be provided on helmets of wearers engaged in the opencast mines for clear visibility in the night. They shall also be provided with fluorescent jackets.

11.13 Daily examination of machinery and vehicle:-

(a) At the commencement of every shift, the engineer or mechanic or foreman or other authorized competent persons shall personally inspect and test every machine and vehicle paying special attention to the following details:

(i) that the brakes and the horn or other warning devices are in working order.

(ii) if the vehicle or machine is required to work after day light hours that the lights are in working order. He shall not permit the vehicle or machine to be taken out for work nor shall he drive the vehicle unless he is satisfied that it is mechanically sound and in efficient working order.

(b) He shall also maintain a record of every inspection in a bound paged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

11.14 At least once in two weeks the brakes of the truck, dumper or any such other vehicle should be tested as indicated below:

a. Service Brake Test : The brake shall be tested on a specified gradient and speed when the vehicle is fully loaded. The vehicle should stop within a specified distance when the brake is applied. The specified stopping distance shall be obtained from the manufacturer of the vehicle.

b. Parking Brake Test : The parking brake should be capable to hold the vehicle when it is fully loaded and placed at a maximum gradient of roadway which is permitted for a period of at lest ten minutes.

c. A record of such tests shall be maintained in a bound paged book and shall be signed by the person carrying out the test. These records should be countersigned by the engineer and manager.

11.15 Surprise inspection shall be carried out by the engineer/superior official at an interval not exceeding 15 days to ensure that the examination schedule of machineries/equipment are carried out.

11.16 While inflating tyres, suitable protective cages shall be used. Tyres shall never beinflated by sitting either in the front or on the top of the same.

11.17 While the vehicle is being loaded/unloaded or gradient, the same shall be secured stationary by parking brake and other means such as suitably designed stopper blocks which could be placed below the tyres.

11.18 Operation and maintenance of heavy machineries such as shovels, dumpers etc. shall be done strictly in accordance with the operation instructions. The operation instructions and maintenance schedule could be obtained from the manufactures.

11.19 Automatic fire protection system shall be provided and maintained in working order for surface heavy machinery and vehicles such as front end loaders, hydraulic and electric shovels, tippers etc. It is also necessary that the recommended procedure for testing of such fire protection systems at a given schedule by the manufacturer is also adopted. The automatic fire system consist of one or more containers of fire suppressant (usually a dry chemical) connected by a fixed plumbing network to nozzles directed at specific pre-determined fire hazard areas of the machinery.

12.0 Operation of Machinery:

12.1 (a) No person other than the operator or his helper if any or the Manager or any person so authorized in writing by the Manager shall ride on a shovel.

(b) No person shall be permitted to ride in the bucket of a shovel.

(c) No shovel shall be operated in a position where any part of the machine, suspended loads or lines are brought closer than 3m to exposed high voltage lines, unless the current has been cut off and the line de-energised. A notice of this requirement shall be posted at the operator's position.

(d) Electrical cables, if any, shall be laid in such a manner that they are not endangered either by falling rocks or by a mobile equipment.

12.2 Every shovel/excavator, dozer, grader or crawler mounted drill shall be provided with suitable fire extinguishers preferably Automatic fire protection system suitably placed for operation/convenient use.

12.3 The shovel bucket shall be pulled out of the bank as soon as it is full.

12.4 When not in operation the bucket shall be kept resting on stable ground and shall not be left hanging.

12.5 When being operated in soft or unstable ground every shovel (and drag-line) shall be supported by heavy planks or poles so as to distribute the load of the machine over larger area and to prevent any danger of the shovel (or drag-line) over-turning. When not in use, the shovel or drag-line shall be moved to and stationed on the stable ground.

12.6 If more than one stripping machine is in use in any area, either on the same bench or on different benches, the machines shall be so spaced that there is no danger of accident from flying or falling objects etc. from one machine to the other.

13.0 Duties of Machinery Operators:

13.1 (a) Every heavy earth moving machinery shall be under the charge of a competent person (herein called the `operator') authorised in writing by the Manager.

(b) Operator/driver of each HEMM shall be selected from amongst persons possessing requisite qualifications. The selection process shall comprise a test to check driving/operating skill, aptitude, health and oral examination of the candidate by a competent selection committee. The selected person shall be trained and their competency shall be evaluated by a board constituted by the mining company.

(c) All operators of HEMM shall undergo regular checks to test their driving/operating skill, knowledge and health once in every five years.

(d) To prevent un-authorized driving, a system shall be evolved whereby the ignition key and /or cabin key always remain with the driver/operator or with specifically designated competent person.

(e) At the commencement of every shift, the operator shall also personally inspect and test the machine, paying special attention to the following details:

(i) That brakes and every warning device are in working order; and

(ii) If the machine is required to work after day-light hours, that lights are in working order.

(f) He shall not take out the machine for work nor shall he operate the machine unless he is satisfied that it is mechanically sound and in efficient working order.

13.2 (a) The operator shall not operate the machine when persons are in such proximity as to be endangered.

(b) He shall not swing the bucket of a shovel over passing haulage units. While trucks/dumpers are being loaded, he shall swing over the body of the truck/dumper and not over the cab, unless the cab is protected by a substantial strong cover.

13.3 The operator shall not allow any unauthorised person to ride on the machine.

14.0 Operation of trucks/tipper/dumpers and other vehicle;

14.1 No person shall be permitted to ride on the running board of a truck or dumper.

14.2 (a) As far as possible loaded trucks or dumper shall not be reversed on gradient.

(b) Sufficient stop blocks shall be provided at every tipping point and these shall be used on every occasion material is dumped from the truck, dumper or other such vehicle.

(c) Suitable "Code of Traffic Rules" shall be framed by the Mines Manager and enforced strictly for movement of all trucks, tippers and dumpers in the mine. A copy of the traffic rules shall be submitted to this Directorate for record. They shall be prominently displayed at the relevant places in the opencast workings and truck/dumper roads.

(d) Suitable "Code of Practice" shall be framed by the Mines Manager and enforced for prevention of injuries to persons engaged in tipping on stock piles, dumping of overburden at dump yards at loading points etc

14.3 Trucks, tippers and other heavy vehicles, not belonging to management shall not be allowed in the mine premises without a valid pass issued by the competent authority of the mine. Before the pass is issued the mine engineer/competent person shall check the roadworthiness of such vehicle. In order to check the entry of such vehicles in the mine premises, properly manned check gate shall be provided at the mine entrance where the record of entry & exit of each vehicles shall be maintained. At the check gate the license of the drivers shall also be checked for eliminating the possibility of un-licensed persons driving the vehicle.

14.4 Persons engaged in surface operation and, in particular, the contractor's workers shall be provided closer and competent supervision.

(a) All persons engaged at any work within the mine premises through the contractors shall be provided relevant training and other job related briefings and that the drivers of the vehicle belonging to contractors entering the mine premises have additionally been explained the salient provisions of "Traffic Rules"

(b) Each and every operation, including the operation carried out through contractor's worker or by outside agency, shall be placed under the charge of a competent supervisor, duly appointed and authorised by the manager.

14.5 When not in use every truck or dumper shall be moved to and stood on proper parking places.

14.6 No person shall be permitted to work on the chassis of a truck or dumper with the body in a raised position until after the truck or dumper body has been securely blocked in position. The mechanical hoist mechanism alone shall not be depended upon to hold the body of the truck or dumper in raised position.

14.7 No unauthorized person shall be permitted to enter or remain in any dumping yard or turning points.

14.8 Every Dumper/tipper/truck shall be provided with suitable fire extinguishers preferably Automatic fire protection system suitably placed for operation/convenient use.

14.9 Every Dumper/tipper/truck shall be provided with automatically operating audio-visual reversing alarm, which shall always be kept in working order.

14.10 Rear vision mirrors of sufficient size to simultaneously view tipping body and the contact between rear wheels and ground shall be fitted to each side of all rear dumps and tipping trucks/tippers/dumpers.

14.11 Dumps and tipping trucks/tippers/dumpers operating between sunset and sunrise shall be fitted with a rear flood light of sufficient illumination capacity to provide clear vision of a distance not less than 10m.

15.0 Duties of Truck/Tipper/Dumper Operators:

15.1 Before commencing work, the driver shall generally inspect and test the vehicle for its road worthiness paying special attention to the tyre air-pressure, brakes, horn and lights. If he finds any defect which is likely to make the driving unsafe, he shall report the matter to the competent person and shall not operate the vehicle till the defects are remedied.

15.2 (a) He shall not drive too fast, shall avoid distractions and shall drive defensively. He shall not attempt to overtake another vehicle unless he can see clearly far enough ahead to be sure that he can pass it safely. He shall also sound the audible warning signal before overtaking.

(b) When approaching a stripping equipment, the driver of the truck or dumper shall sound the audible warning signal and shall not attempt to pass the stripping equipment until he has

received a proper audible signal in reply.

(c) Before crossing a road or railway line, he shall reduce his speed, look in both directions along the road or line and shall proceed across the road or line only if it is safe to do so.

(d) The driver shall sound the audible warning signal while approaching `blind' corner or any other points from where persons may walk in front unexpectedly.

(e) The driver shall not operate the truck or dumper in reverse unless he has a clear view of the area behind the vehicle and take help of an automatically operating audio-visual reversing alarm before reversing a truck or dumper.

(f) The driver shall be sure of clearance before driving through tunnels, archways, plant, structures etc.

15.3 The driver shall see that the vehicle is not overloaded and that the material is not loaded in a truck or dumper so as to project horizontally beyond the sides of its body and that any material projecting beyond the front or roar is indicated by a red flag during day and by red light after day light hours.

15.4 The driver shall not allow any un-authorised person to ride on the vehicle. He shall also not allow more than authorised number of persons to ride on the vehicle.

15.5 The driver shall not operate a vehicle in fog or mist without taking adequate precautions, as may be specified by the manager.

15.6 The driver shall not operate the vehicle while being in a state of drunkenness, and without due care and attention having regard to all circumstances including the nature, condition and use of the road or other place over which the vehicle is being driven and the visibility at the time.

16.0 Spoil banks

16.1 (a) The slope of a spoil- bank face shall be determined by the natural angle of repose of the material being deposited, but shall in no case exceed 37 ½ degree from the horizontal. The spoil-bank face shall not be retained by artificial means at an angle in excess of its natural angle of repose.

(b) spoil-bank shall be adequately benched to maintained its stability and the general slope shall not exceed vertical to 1.5 horizontal.

16.2 (a) The toe of a spoil-bank face shall not be permitted to approach a railway or other public works, public road or building or other permanent structure not belonging to the Owner of the mine closer than a distance equal to the vertical height of its face.

(b) A suitable fence shall be erected between any railway or public works or road or building or structure and the toe of an active spoil- bank so as to prevent un-authorised persons from approaching the spoil-bank.

16.3 No person shall, or shall be permitted to approach the toe of an active spoil-bank where he may be endangered from material rolling down the face.

16.4 At the edge of the tip, a safety berm shall be formed having a height equivalent to half the wheel diameter of the trucks/tippers/dumpers dumping. In any event, this berm shall not be less than one meter in height.

17.0 Supervision.

17.1 The mine shall be placed under the sole control of mine manager holding valid 1st class Mine Manager's certificate granted under the Metalliferous Mines Regulations 1961and Mines Act, 1952, who shall be assisted by adequate number of Assistant Manager, foremen, Mining Mate and other statutory persons. This permission shall stand revoked as soon as the qualified manager ceases to work at the mine.

17.2 During every shift, when HEMM are in operation in the opencast workings, the manager shall be present in the mine and during maintenance shift, the workings shall be placed under the charge of a foreman (mechanical), who shall be responsible to see that all the regulations and the orders made there under are strictly complied with. They shall also supervise transport and loading operation being done by the contractor.

17.3 They shall in particular:-

(a) make frequent inspections for evidence of any slide or of material that may slide or roll from the high wall (including the face and sides) or spoil-bank;

(b) not allow any person to work under overhanging ledges or where there is evidence of slides, until such danger has been removed;

(c) ensure that every person engaged in dressing operations on high walls/sides is provided with, and uses, a safety belt of a type approved by the Chief Inspector;

(d) ensure that all loose material is removed from high wall/side before drillers/loaders are engaged there, and

(e) ensure that parapet walls along truck-roads are properly maintained.

18.0 Protection of workers against Noise and Vibration in the working environment:

18.1 Suitable steps should be taken by all appropriate means to reduce the exposure of workers to any excessive noise and vibration. In this connection, the requirements of D.G.(Tech) Circular No.18 of 1975 should be complied with.

19.0. DUMPER: The following safety feature shall be provided in dumper/tip

a. Mechanical steering locking to prevent untoward movement of steering wheel and tyre while work persons working below the cabin while engine is running.
b. Blind spot mirror apart from rear view mirror to enable operator to have clear visibility of blind spot in and around dumpers.
c. Mechanical type Anti collision device to avoid head to tail collision on haul road such as tail gate, bumper extension or any other strong device.
d. Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conducts where cable/wire are passed shall be fire resistant.
e. Seat belt for operator.
f. The maximum speed of vehicle shall be restricted to 30Km/hour by blocking higher gear or any other automatic means.
g. Propeller shaft guard.
h. Proximity warning device.

20. : The following safety feature shall be provided.
    a. All functions cut off switch.
    b. Swing Motor Brake.
    c. Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conducts where cable/wire are passed shall be fire resistant.
    d. Turbo charge guard.
    e. Seat belt

(f) Vent valve on top of hydraulic tank should be able to be removed without any tool

(g) A baffle plate between cold zone and hot zone.

(h) Provision for limiting of hydraulic cylinders – Stoppers.

21.0. DRILLS: The following safety feature shall be provided.

(a) Approved type of dust prevention or suppression system.

(b) Each moving parts of the machinery shall be guarded/ fenced and also ensure its effectiveness all the time.

22.0. DOZERS: The following safety feature shall be provided.

(a) Roll over protection

(b) Turbo charge guard.

(c) Fire resistant hydraulic hoses and wiring near hot zone.

(d) Seat belt.

23 .0 GENERAL:

23.1 The approved type of audio visual alarm shall be provided in all equipment.

23.2 The approved type of fire suppression system shall be provided in all equipment.

23.3 The stability of HEMM shall be carried out at least once in year and after every major over haul by an independent agency.

23. 4. The crane and overhead crane shall be subject to proof load test and NDT test once in a year from a competent authority.

23. 5 The pressure vessel receiver are subjected to hydraulic and NDT test and shall be carried out by a competent authority.

23.6 In case of any defect in equipment such a brake, steering and safety device theequipment shall be immediately taken out of use and a record shall be kept.

23.7 The code of practice for installation operation and maintenance of all equipment shall be prepared and implemented before putting the equipment to use in mine.

23. 8 The safety feature recommend in equipments shall be a part of notice inviting tender for new procurement and the design and drawing shall be obtained from OEM for fitting the same in old equipment.

24.0 Miscellaneous

24.1 No manual workers shall be employed on any bench where HEMM is deployed or on the next lower bench. Manual workers shall be employed only after withdrawal of HEMM and only at the places

where benches conform to the requirement of Regulation 106(1), 106(4) and 106(5) of the Metalliferous Mines Regulation, 1961.

24.2 No underground openings shall be made within the area worked as per this permission.

25.0 In the event of any change in the circumstances connected with this permission which is likely to endanger the life of workman employed in the mine or endanger the mine, the mining operations for which this permission has been granted shall be stopped forthwith and intimation thereof sent to this Directorate. The said mining operations shall not be resumed without an express and fresh permission in writing.

26.0 If at any time, anyone of the conditions subject to which this permission has been granted is violated or not complied with, this permission shall be deemed to have been revoked with immediate effect.

27. This permission may be amended or withdrawn at any time if considered necessary in the interest of safety.
28. This permission is being issued specifically under regulations mentioned above and without prejudice to any other provisions of law including the provisions contained in the Mines and Minerals (Regulation and development Act, 1957) and the Mineral Concession Rules 1960, which may be or may become applicable at any time.
29. This permission shall remain valid for a period of 3 (three) years from the date of issue of this letter.

Please acknowledge receipt of this letter.

Your Faithfully

ASHOK KUMAR (DIRECTOR - JABALPUR REGION)
THIS IS A SYSTEM GENERATED DOCUMENT, DOES NOT REQUIRE ANY SIGNATURE.

Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

RED-LARGE	CCA-Renewal	CONSENT NO: ***	PCB ID: 131001

Outward No:118131,12/05/2023 **Consent No:AW-58249**

To,

The Occupier,

M/s. Prim Johnson Ltd. Chuli- Majhiyar Limestone Mine

176.619 HA., Village - Chulhi and Majhiyar, Tehsil – Kotar, Distt- Satna (M.P.)Latitude : 24.3516 Longitude : 80.5856

Subject: **Grant of Renewal of Consent under section 25 of the Water (Prevention & Control of Pollution) Act,1974 under section 21 of the Air (Prevention & Control of Pollution) Act,1981**

Ref: **Renewal of Consent Application R. No. 1264039 Dt. 13/04/2023 and last communication received on Dt.09.05.2023**

With reference to your above application for consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to **30/09/2024,** subject to the fulfillment of the terms & conditions, enclosed with this letter and-

SUBJECT TO THE FOLLOWING CONDITIONS :-

a. Location: **Village - Chulhi and Majhiyar, Tehsil – Kotar, Distt- Satna (M.P.)**

b. Mining Lease area: **176.619 hect.**

c. Product & Production Capacity:

Product / Activity	Qty / year
Mining of Lime stone	3.0 Million Ton per year.
Generation of Soil/OB Waste	1.135 Million Ton per year.

Note :- (1) For any change in above industry shall obtain fresh consent from the Board.

(2) PP shall ensure that mining is done in sanctioned lease area; as per valid mining plan approved by the Regional Controller of MINES IBM Jabalpur for 5 years vide letter No. MPLN-G-30/18-19/7478 dated 09.01.2019; & in compliance of the conditions laid in EC granted by MoEF & CC vide letter No. J-11015/86/2018-IA.II(M) dated 26.07.2021.

(3) PP shall ensure that solid waste generated during mining process shall be stacked at earmarked site which shall be properly surrounded by garland drains & settling pits of adequate sizes so that no Soil/Silt/waste rock is discharged outside the mine lease area/ nearby water body blocking the natural flow of any nallah/river/pond. Top Soil / OB dump shall be biologically reclaimed.

(4) Evacuation of mineral shall not be through any village or forest area. PP shall provide pucca (Concreted/Ashphalted) approach road from main road to the mine site & ensure thick plantation on both side of this road to prevent dust/noise pollution.

(5)The dust generated during transportation of mineral & deposited on Approach/Haul roads shall be regularly removed by the road sweeping machines & suppressed by intermittent sprinkling of water on roads using pressurized water tankers of adequate capacity. PP shall practice regular compaction of loose material of haulage road & regular water sprinkling shall be done for control of generated fugitive emissions.

The Validity of the consent is up to **30/09/2024** and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

Enclosures:-

* Conditions under Water Act
* Conditions under Air Act
* General conditions

CC to :-

1. District Mining Officer, (Mining Section), Collector office, Satna Dist. Satna (M.P.) for information.
2. M.P. State Mining Corporation, Arera Hills, Jail Road, Bhopal (M.P.) for necessary action please.
3. Regional officer, Regional office, MPPCB, Satna (M.P.)

By the order of Chairman, MPPCB

eSign Signing from UIDAI Server Digitally Sign with Aadhaar

Signature Not Verified
Digitally Signed by : Chandra Mohan Thakur IAS
Date: 12/05/2023 09:18:11 AM

(Organic Authentication on AADHAR from UIDAI Server)
TPAV # N5HLT9M699

CHANDRA MOHAN THAKUR
Member Secretary

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-

1. The daily quantity of sewage shall not exceed 2.40 KL/day & it shall be treated through Septic tank Soak pit.

2. Trade Effluent Treatment:-
The applicant shall provide comprehensive effluent treatment system as per the proposal submitted to the Board and maintain the same properly to achieve following standards-

pH	Between	5.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD 3 Days 270C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.

TDS	Not exceed	2100 mg/l.
Chlorides	Not exceed	1000 mg/l.

For other parameters general standards of discharge as notified under EP Act 1986 shall be applicable.

3. Sewage Treatment :- The applicant shall provide comprehensive sewage treatment system as per the proposal submitted to the Board and maintain the same properly to achieve following standards-

pH	Between	5.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD 3 Days 270C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.
pH	Between	5.5 – 9.0

Sr	Water Code (Qty in klpd - Kilo Ltr per Day)	WC : 39.000	WWG : 2.400	Water Source	Remark
1	Domestic Purpose	3.000	2.400	Borewell	Eff. Treated through Septic tank Soak pit
2	Dust Suppression	16.000	0.000	Mine Water	Rain harvested Mine pit water to be used.
3	Plantation / Horticulture	20.000	0.000	Mine Water	Rain harvested Mine pit water to be used.

4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence zero discharge condition shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.

5. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board

6. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent

7. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

8. Compilation of Monitoring data-
i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.
iii. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.

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9. Recording of Monitoring Activities & Results-

i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.

ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:

(i) The date, exact place and time of sampling
(ii) The dates on which analysis were performed
(iii)Who performed the analysis?
(iv)The analytical techniques or methods used and
(v)The result of all required analysis

iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shell include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.

iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

10. Reporting of Monitoring Results:-

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

11. Limitation of discharge of oil Hazardous Substance in harmful quantities:-

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to neither preclude the institution of any legal action nor relive the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

12. Limitation of visible floating solids and foam:

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

13. Disposal of Collected Solid waste/sludge-

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And/other Solids Sludge, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water Any live fish, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

14. Provision for Electric Power Failure-

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

15. Prohibition of Bypass system of treatment facilities-

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except:

i. where unavoidable to prevent loss of life or severe property damage, or

ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

16. Industry/Institute/mine management shall submit the information online through XGN in reference to compliance of consent conditions.

Additional Water condition:-

1) The mine management shall maintain zero discharge condition.
2) Mine management shall made arrangements for ground water recharge.
3) Mine management shall ensure that the silt shall not flow to the nearby water body.
4) Mine management shall provide toilets along with septic tank and soak pit.
5) Mine shall treat mine water to the extent that it should meet the quality of drinking water source quality standards. The treated mine water should be used for beneficiation purposes such as plantation, irrigation etc

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CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

1. The applicant shall provide comprehensive air pollution control system consisting of control equipments as per the proposal submitted to the Board with reference to generation of emission and same shall be operated & maintained continuously so as to achieve the level of pollutants to the following standards:-

Name of section	Capacity	Control equipment to be installed	SPM/RSPM/SO2/NOx (Time weighted Average)* (µg/Nm3)
Loading-unloading, Haul road, Transportation , Crusher etc,	**Fugitive Emission**	**Dust Collector, Dust Suppressor, Green Belt, Water Sprinkler, Wind Breaking Wall,**	**Annual average : 430 / 215/80/80 24 hour average : 600/300/120/120**

2. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis: The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:

a. Particulate Matter (less than 10 micron) - 100 µg/m^3 (PM_{10} µg/m^3 24 hrs. basis)
b. Particulate Matter (less than 2.5 micron) - 60 µg/m^3 ($PM_{2.5}$ µg/m^3 24 hrs. basis)
c. Sulphur Dioxide [SO_2] (24 hrs. Basis) - 80 µg/m^3
d. Nitrogen Oxides [NO_x] (24 hrs. Basis) - 80 µg/m^3
e. Carbon Monoxide [CO] (8 hrs. Basis) - 2000 µg/m^3

3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.

4. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.

5. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.

6. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.

7. Industry shall take effective steps for extensive tree plantation preferably in 03 rows of the local tree species with minimum spacing of 2X2 meters within or around the industry/unit premises for general improvement of environmental conditions and as stated in below..

Additional Air condition:-

1) Mine management shall install CAAQMS stations at suitable locations to monitor ambient air quality in the leased area and in the vicinity. Mine management shall provide suitable connectivity of CAAQMS with Environment Surveillance Centre at the HQ of M.P. Pollution Control Board for monitoring and data transmission purpose.
2) Approach roads shall be metal topped. The haul road shall be compacted on regular interval to reduce the emission from loose silt/ material.
3) Drills shall be wet operated to reduce the fugitive emission.
4) Mining area should be surrounded by green belt having thick canopy of the tree cover.
5) Progressive afforestation plan shall be implemented at the end of mining, which include reclaimed external OB dump area, internal OB dump area and green belt in township located outside the lease.
6) Sufficient number of water tanker for water sprinkling shall be provided for the control of fugitive emission from road transportation.
7) The vehicle used for the transportation of minerals / material shall be PU certified and shall be properly maintained to reduce the noise.

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GENERAL CONDITIONS:

1. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal
Scrap/ Plastic packing material wood, card board, gunny begs etc		Sale to authorized party/As Per CPCB. MoEF Guide lines / Others.

2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

a. To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
b. To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
c. To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
d. To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
e. To sample at reasonable times any discharge or pollutants.

3. This consent / authorisation is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.

4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

5. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of Hazardous and other Waste (Management & Transboundary movement) Rules 2016 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.

6. Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date.

7. The applicant shall submit such information, forms and fees as required by the board not letter than 180 day prior to the date of expiration of this consent/authorisation

8. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.

9. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following :

(a) Violation of any terms and conditions of this Consent.
(b) Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
(c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

10. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

Additional condition:-

1. The Mine shall optimize the water abstraction from the surface water source by utilizing the mine discharge for spraying on haul roads, mine area and loading - unloading area after proper treatment.

2. Adequate & effective precautionary measures shall be taken before and during operation, maintenance and cleaning of pollution control system to avoid any accidental hazard.

3. Extensive tree plantation shall be carried out in open areas available within and around the mine premises in consultation with expert agency. Good housekeeping practice shall be adopted.

4. Overburden dumps shall be stored at the earmarked location along with proper stabilization arrangements and retaining wall. The maximum height of the dump shall not exceed 20 m, each stage shall preferably be of maximum 10 m and overall slope shall not exceed 35^0. Mine shall have to take effective steps to check the soil erosion from over burden/waste material dumping area, causing silting problem into nearby nallah/ river/ pond during the rainy season

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5. The Over Burden dumps shall be backfilled and scientifically vegetated with suitable native species to prevent erosion and surface runoff.

6. Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt, sediment flow from soil, OB dumps.

7. Mine Management shall construct Garland drain of appropriate size, gradient and length and sump capacity shall be designed and maximum discharge in the area adjoining the mine site. The garland drain shall be stone pitched / lined to prevent the soil erosion. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals.

8. Top soil shall be scraped & separately stacked with proper slope and adequate safeguards; it shall be utilized for carpeting over the backfilled area and rehabilitation of mined out area.

9. Mine management shall provide artificial recharger measures, rain water harvesting system.

10. Mine management shall provide fencing all around the lease area to prevent accident hazard.

11. Vehicular emissions should be kept under control and regularly monitored for compliance of emission norms. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded. Transportation of excavated material shall be limited to day time only

12. Controlled blasting should be practiced with the use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented. Blasting shall be done during day time only.

13. Mine management shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.

14. Mine management shall ensure the compliance of conditions of environmental clearance pertaining to pollution control

15. Mine shall comply the provisions of all the relevant Acts/Rules/Directions/Guidelines issued by MoEF/ CPCB/ MPPCB time to time as required and if applicable.

16. Mine shall comply the Directions/ Orders issued by Hon'ble Supreme Court/ High Court/ NGT time to time in the relevant Writ Petitions.

17. Mine management shall install industrial grade HD IP (Internet Protocol) Pan-Tilt-Zoom (PTZ) Camera with minimum 5X zoom and night vision facility for remote surveillance and constant vigil of emission source and effluent discharge points.

18. Mine management shall establish suitable connectivity of IP-Camera with Environment Surveillance Centre at the HQ of M.P. Pollution Control Board for monitoring and data transmission purpose.

Consent/authorization as required under the Water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent/authorisation. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.

For and on behalf of
M.P. Pollution Control Board
By the order of Chairman, MPPCB

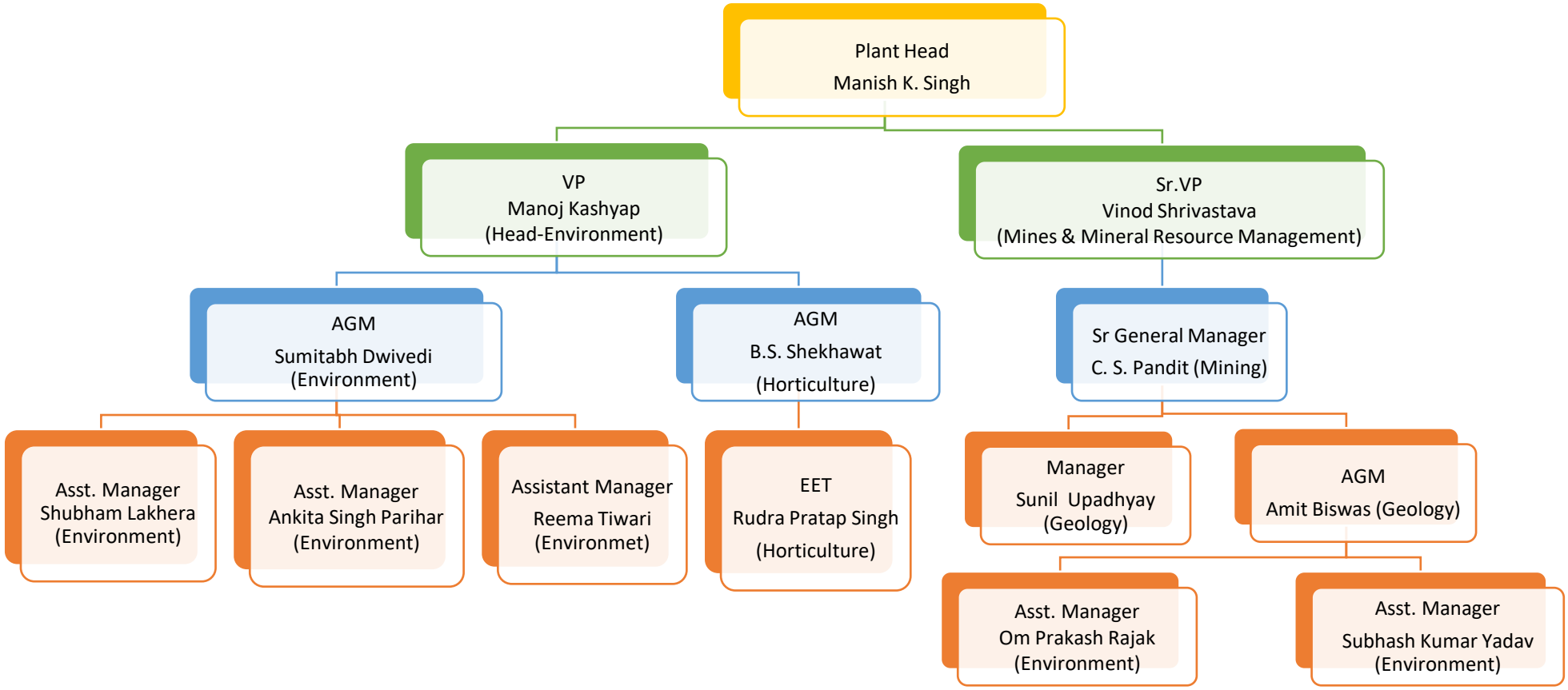
CHANDRA MOHAN THAKUR
Member Secretary

(Organic Authentication on AADHAR from UIDAI Server)
TPAV # N5HLT9M699

Consent No:AW-58249

Prism Johnson Limited

ENVIRONMENT MANAGEMENT CELL



Digital Processing of Mining Leases- Chulhi Majhiyar Mines ML 176.619Ha, using Remote Sensing Technique for fulfillment of EC Compliance of Cement Unit Plant II and Intregrated Mines for Prism Johnson Ltd in Satna, Madhya Pradesh.

Final Report-Chulhi Majhiyar 176.619Ha

PO No. : 3100220313-P027, dated 19.01.2024

Submitted By:

SPA GEO TECHNOLOGIES PVT LIMITED

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1. Introduction

Prism Johnson Limited is professionally managed Company promoted by the Rajan Raheja Group. Prism Johnson Limited is India's largest integrated Building Materials Company with a wide range from cement, ready-mixed concrete, tiles, bath products to kitchens. The Company has three Divisions, viz. Prism Cement, H & R Johnson (India), and RMC Readymix (India). Prism Cement primarily caters to the demand in the Northern Region, mainly in the States of Uttar Pradesh, Bihar and Madhya Pradesh. The capacity expansion has established the Division's brand in new markets and to a larger consumer base. A team of experienced engineers and a dedicated workforce combined with a high level of automation and sophisticated control systems have placed the Division's products in the premium segment.

Prism Johnson Ltd commenced its production in August 1997 and manufactures Portland Pozzollana Cement (PPC) with the brand name 'Champion' and Ordinary Portland Cement (OPC). It has the highest quality standards due to efficient plant operations with automated controls. It caters mainly to markets of UP, MP and Bihar, with an average lead of 340–370 km of its plant at Satna, MP. It has a wide marketing network with about 2,000 dealers serviced from 46 stocking points.

Cement and mining is seventh of the core industries that contribute significantly to the economic development of India . As for environment point of view, Line stone mining and installation of cement plant is a major habitat transforming activity is lead to change in land Use/Land cover. The change have been described as the most significant regional anthropogenic disturbance to the environment and are consistently with mining of natural resources.

Remote sensing and geographic information system (GIS) are important tool for studying the land use pattern and their dynamic . The change detection in Land use /land cover due to natural and human activities can be monitored by using multi date image to evaluate difference in land cover . The mapping of land use of classes and monitoring their changes with time has been widely recognized. The change detection in Land use/ Land cover due to natural and human activities can be monitored by using multi date images to evaluated differences in land cover where lime stone mines **Chulhi Majhiyar mine 176.619Ha** and Cement Unit II are under operation by using multi temporal remote sensing data.

The concept, method and application of land use/land cover studies are introduced to mining area in order to find the land use change and give support to land management and ecological reconstruction. its prerequisite for planning, policy making and developmental program that land use /land cover information its spatial distribution and change in land use pattern is commonly used.

1.1 Scope of work

1. Collection of Primary data - Raw satellite data to be obtained from NRSC.

2. Base map to be prepared with help of survey of India Toposheet G44U14, G44V2 and other details.

3. Data processing including following steps with the help of application software

a. Geometric correction, rectification and Geo referencing .

b. Image enhancement.

c. Training set selection.

d. Signature generation and classification.

e. Validation of classification image.

f. Final thematic map preparation.

4. The map to be prepared on scale of 1:50000.

5. Comparative study with respect to land use change in the last three years.

1.2. Objectives

The main objective of present study is to understand land use /land cover change in the time and space , with special reference to the cement & mining activities being carried by M/s Prism Johnson Ltd, which is also one of the special condition of the environment clearance issued.

1.3. Software Used

1. ArcGIS 10.3
2. ERDAS Imagine
3. Microsoft Office

1.4. Study Area

The study area lies in Tehsil-Rampur baghelan and kotar, Satna district (MP) where cement Plant. The area is well connected to broad gauge line of central railway Linking ,satna with Rewa. The nearest major railhead is Satna on the jabalpur- Allahabad board guge section of central railway and is well connected to the major cities of the country. There is a good network of roads, there is an all weather motor able road up to project site. Location of Integrated Plant is 22 km from Satna City. from Satna city and 3 Km. from Satna - Rewa highway.

The details of the Mine lease areas are listed in the Table 1:

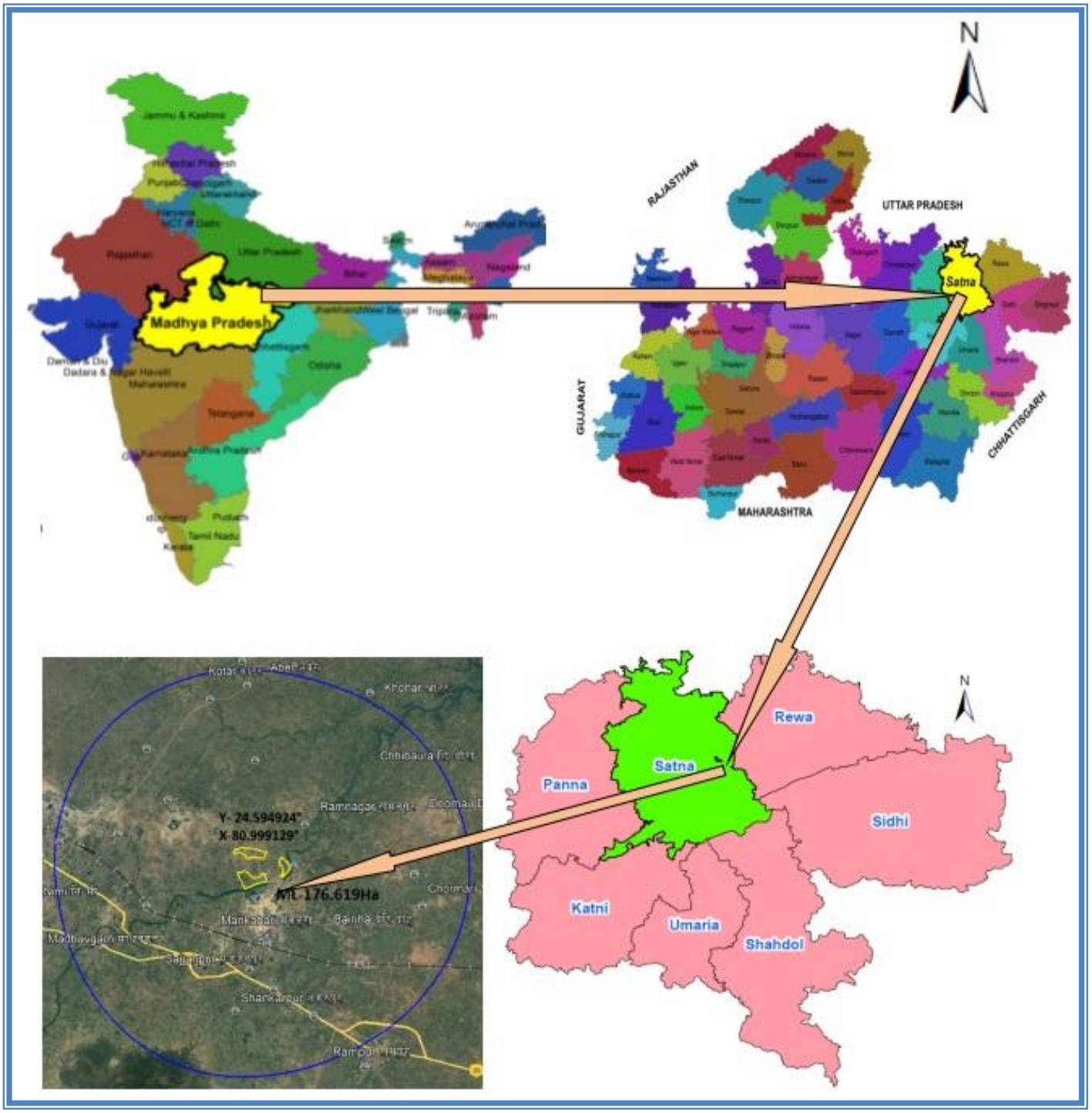
Table - 1

Details	Majhiyar Limestone Mine:	Integrated Cement Plant	Chulhi Majhiyar mine 176.619Ha		
Village	Chulhi-Majhiyar	Mankhari	Hinouti & Sijhatta	Mendhi	Baghai
Tehsil	Kotar	Rampur,Baghelan	Rampur,Baghelan	Rampur,Baghelan	Rampur,Baghelan
District	Satna	Satna	Satna	Satna	Satna
State	Madhya Pradesh	Madhya Pradesh	Madhya Pradesh	Madhya Pradesh	Madhya Pradesh

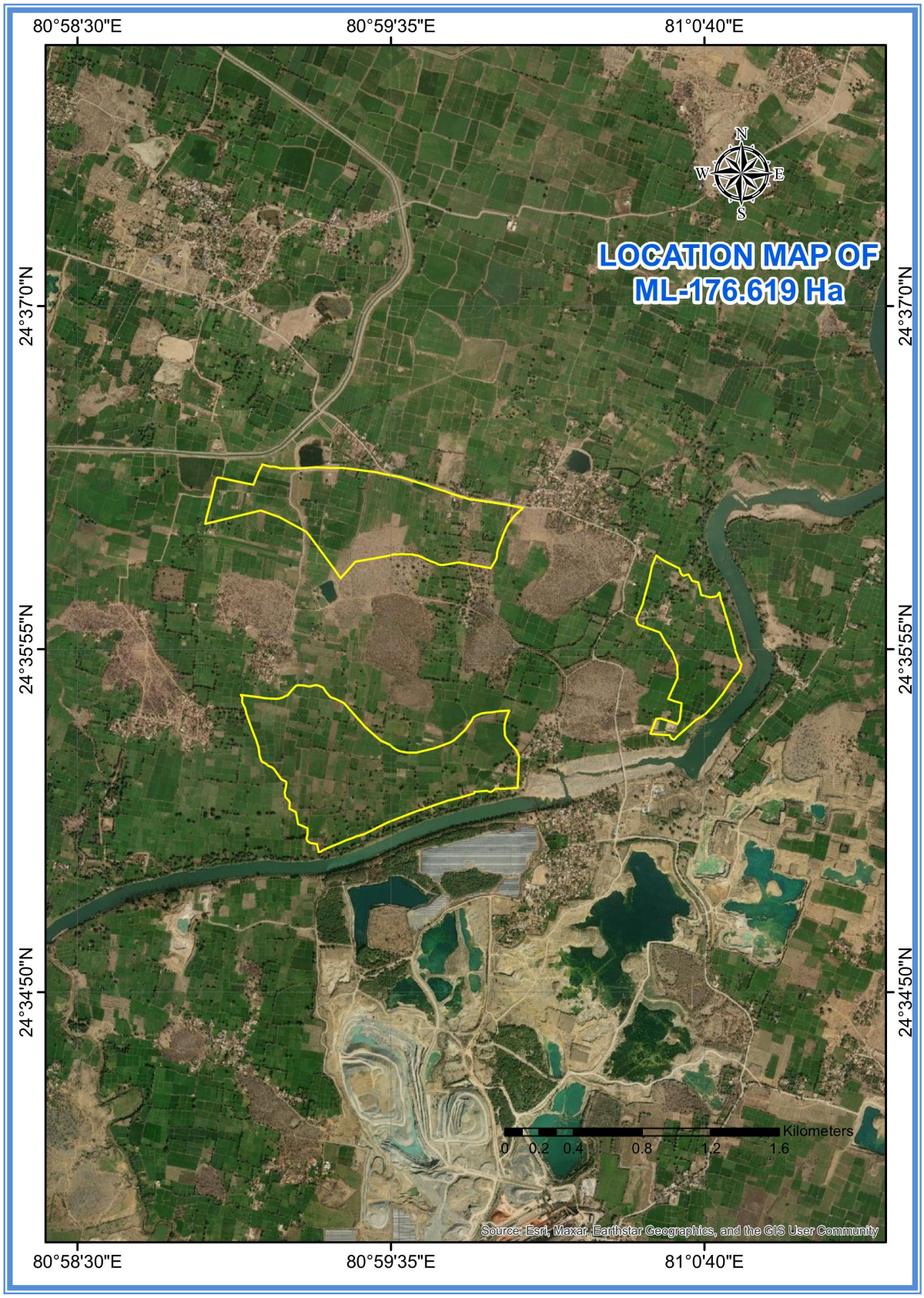
Toposheet No.	G44U14 &G44V2	G44U14 &G44V2	G44V2	G44V2
National Highway	N.H. - 39 Gwalior to Rewa			
Nearest River	Tamas River 2.15 Km.	Adjecnt to the boundary (In NW direction)	Tamas River 3.5 Km. (NW of Baghai)	Tamas River: 4 Km. (NW of Baghai)
Latitude	24°36'25.63"N	24°36'3.31"N	24°35'37.54"N	24°35'19.32"N
Longitude	80°59'8.59"E	81° 0'41.66"E	81° 0'33.98"E	80°59'20.33"E
Nearest Town	Satna (21 km)	Satna (18 Km) Towards west	Satna (24 Km) Towards west	Satna (23 Km) Towards west
Nearest Railway station	Satna railway station (20Km.)	Satna on the jabalpur-Allahabad board gauge section of west central Railway (18 KM.)	Satna on the jabalpur-Allahabad board gauge section of west central Railway (22 KM.)	Satna on the jabalpur-Allahabad board gauge section of west central Railway (20 KM.)
Nearest Airport	Khajuraho (120 Km.)	Khajuraho (120 Km.)		

1.5. Location Map

LOCATION MAPS OF CHULHI MAJHIYAR MINES ML-176.619 Ha

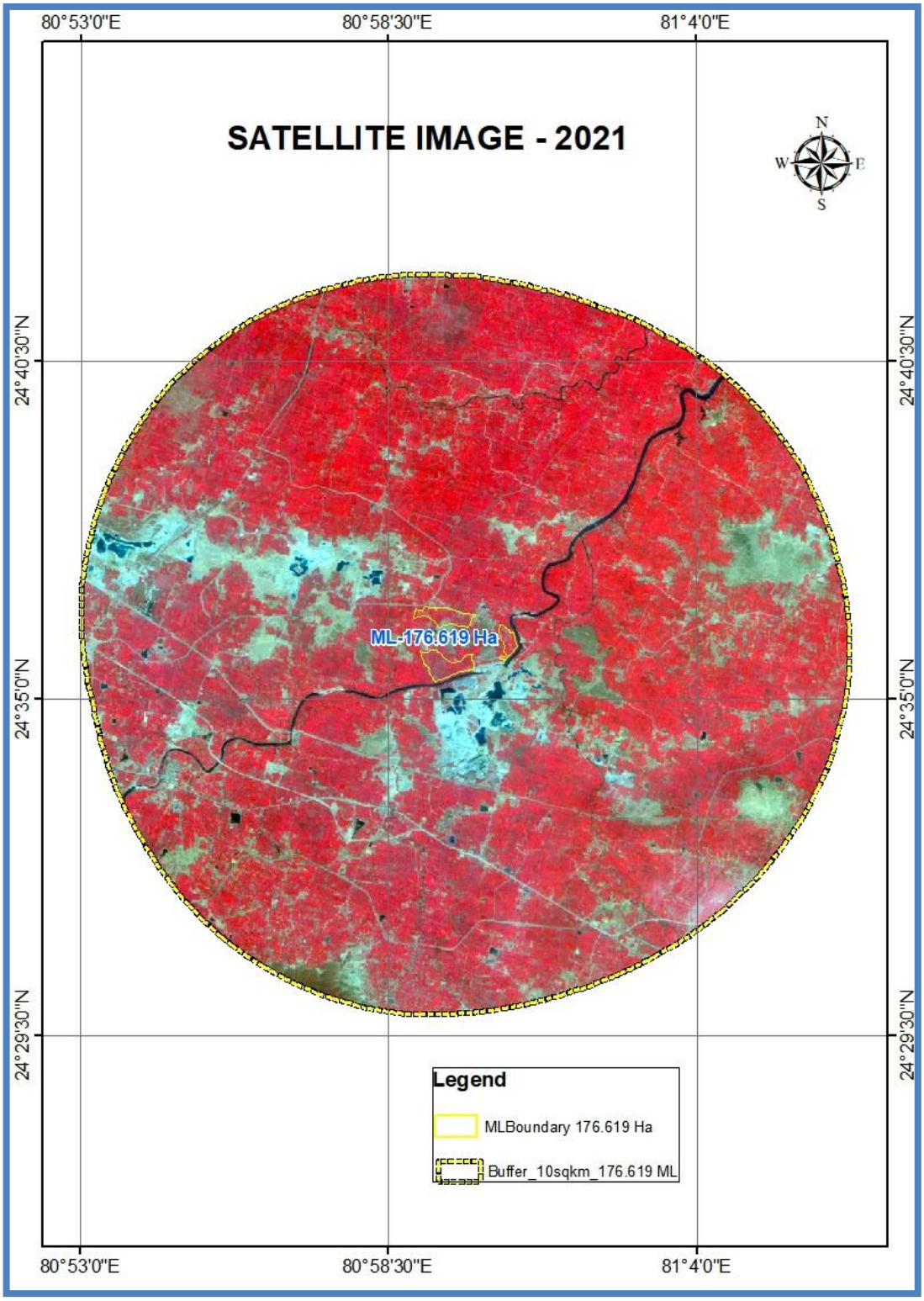


ML BOUNDARY MAP OF CHULHI MAJHIYAR-176.619ha

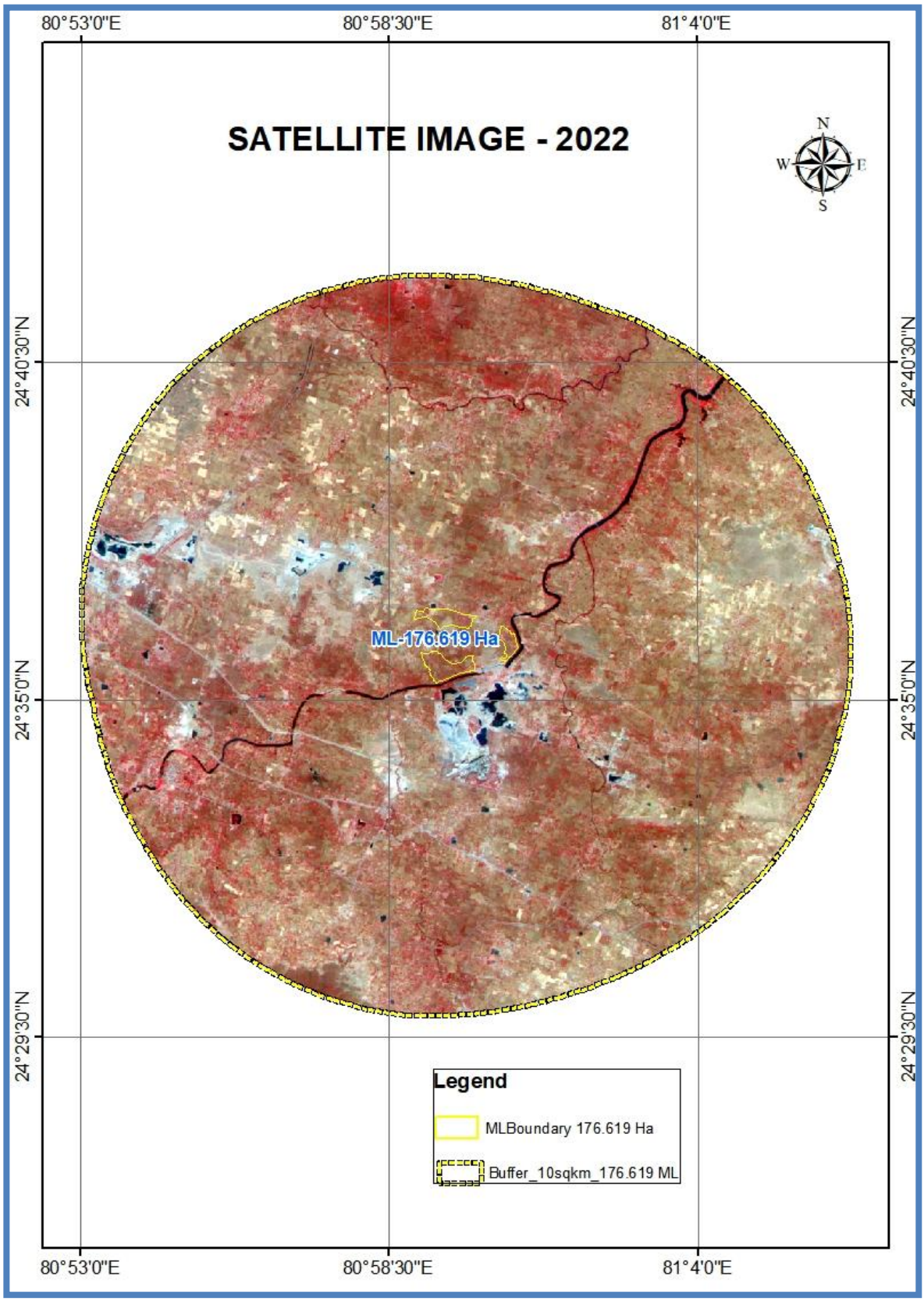


1.6. False Color Composites-FCC- Satellite Image of Study Area-2021-2022 and 2023

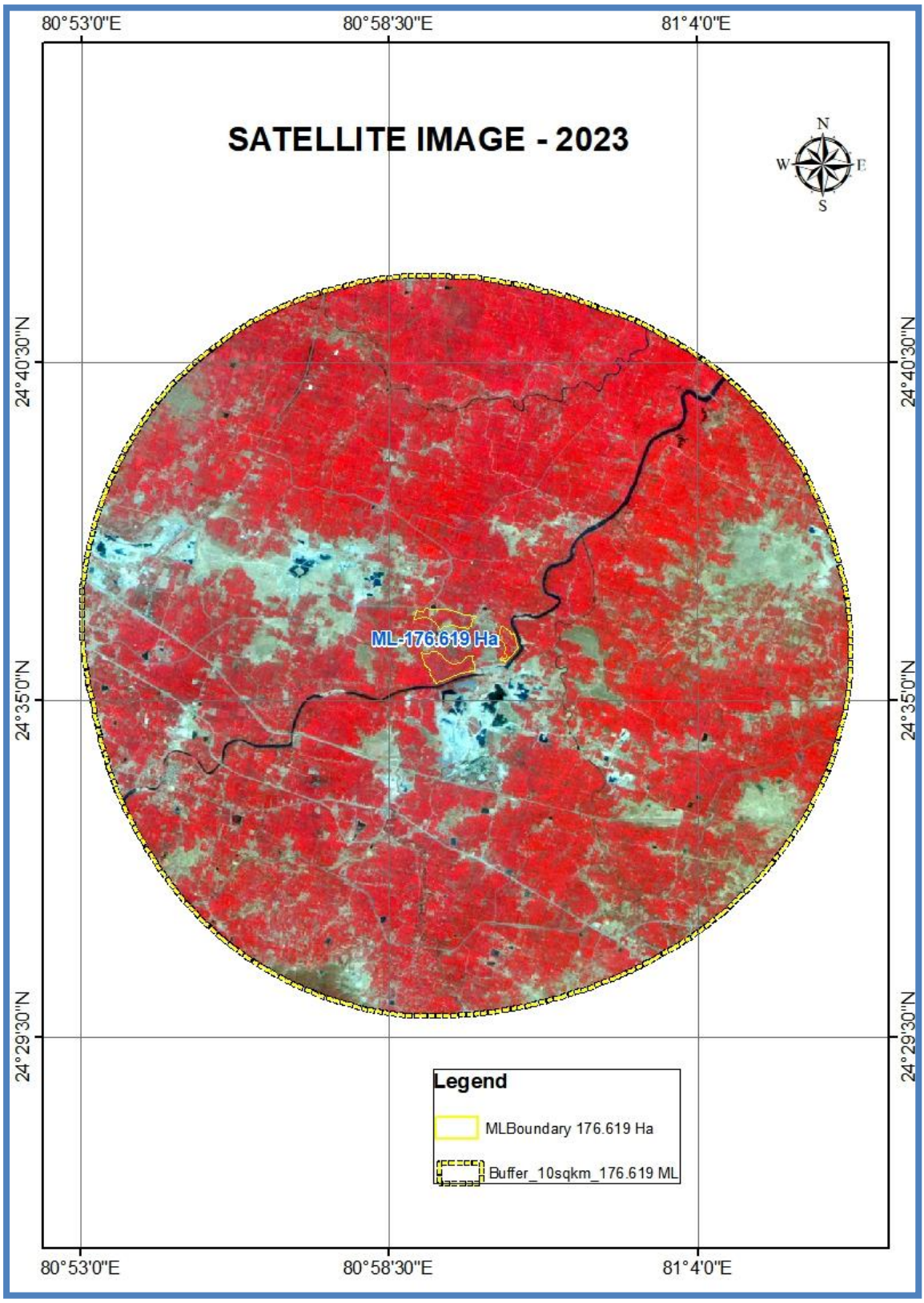
1.6.1 Satellite Image data-2021



1.6.2 Satellite Image data-2022



1.6.3 Satellite Image data-2023



2. APPROACH & METHODOLOGY

Indian remote sensing satellite LISS-III MSS & PAN geocoded data were used to analyze the land use/land cover pattern. The present study utilizes multi-spectral/multi-temporal data of the Indian remote sensing satellite LISS-III MSS & PAN for thematic mapping. Survey of India toposheet G44U14 & G44V2 on scale 1:50,000 were used for preparation of base map which was overlay on the LISS-III for land use /land cover mapping through visual interpretation. Visual interpretation of satellite imagery lead to the identification of fifteen land use/land cover categories. The ground troth verification was carried out in the key areas to rectify the errors in generated maps and then land use/land cover maps were finalized.

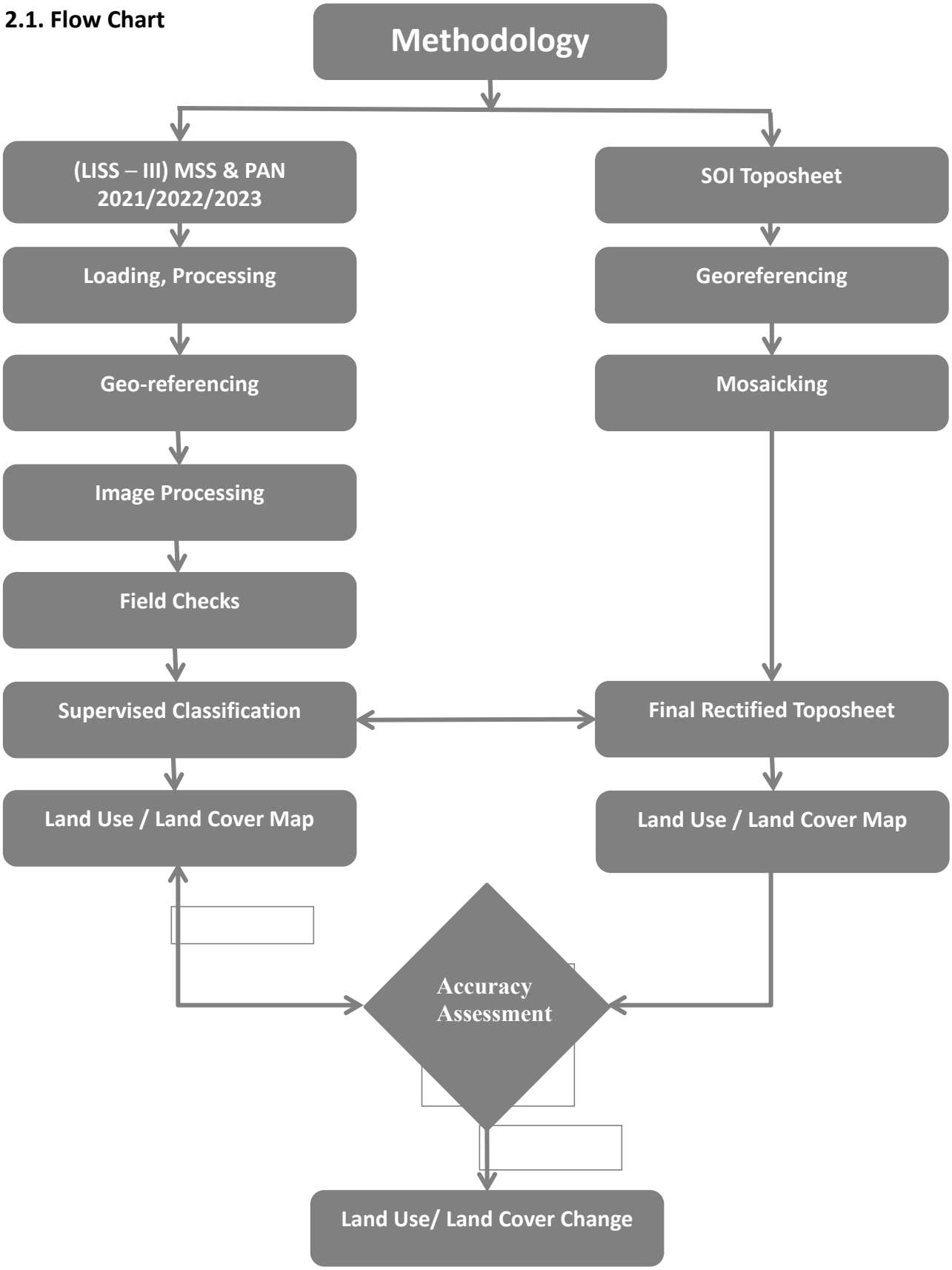
Data available gives uniform spectral and radiometric characteristics and minimize the seasonal variation. The survey of India topographic sheets No. G44U14 & G44V2 on scale 1:50,000 were used for preparation of base map. Secondary data obtained from published material. Visual interpretation is the effective method for classifying land use/land cover especially when the analyst is familiar with the area being classified from satellite data.

These categories were identify on the basis of visual interpretation of satellite data and ground truth verification were done in the key areas for editing and authentication. On screen digitization technique has been carried out to digitize the maps using Arc Map 10.3 software for land use analysis.

There are number of steps involved between RAW satellite data procurement and preparation of final maps. National Remote sensing Centre (NRSC). Hyderabad, being the nodal agency for satellite data supply in India , Provides only RAW digital satellite data , which needs further digital image processing for extracting the information and map preparation before uploading the same in the website. Methodology for land reclamation is given table no.2

With the invent of remote sensing and Geographical Information System (GIS) techniques, land use/cover mapping has given a useful and detailed way to improve the selection of areas designed to agricultural, urban and/or industrial areas of a region. Application of remotely sensed data made possible to study the changes in land cover in less time, at low cost and with better accuracy in association with GIS that provides suitable platform for data analysis, update and retrieval. The advent of high spatial resolution satellite imagery and more advanced image processing and GIS technologies, has resulted in a switch to more routine and consistent monitoring and modeling of land use/land cover patterns. Remote-sensing has been widely used in updating land use/cover maps and land use/cover mapping has become one of the most important applications of remote sensing.

2.1. Flow Chart



2.2. Data Procurement:

After browsing the data quality and date of pass on internet, supply order for data is placed to NRSC. Secondary data like leasehold boundary, Toposheet are procured for creation of vector database.

2.3. Satellite Data Processing:

Satellite data are processed using *DIGITAL IMAGE PROCESSING SOFTWARE*. Mythology involves the following major steps.

2.4. Rectification & Geo-referencing:

Inaccuracies in digital imagery may occur to *systematic errors* attributes to earth curvature and ration as well as *non systematic errors* attributes to satellite receiving station itself. RAW digital contain geometric distortions, which make them unusable as maps. Therefore, Geo-referencing is required for correction of image data using ground control points (GCP) to make it compatible to SOI toposheet.

2.5. Image enhancement:

To improve the interpret-ability of the raw data, image enhancement is necessary. Local operations modify the value of each pixel based on brightness pixels using *DIGITAL IMAGE PROCESSING SOFTWARE* and enhance the image quality for interpretation.

2.6. Classification and Accuracy assessment:

Image classification is carried out using the maximum likelihood algorithm. The classification proceeds through the following steps :

(A) calculation of statistics for the identified training area, and correlation matrix. After evaluating the statistical parameters of the training sets is conducted by measuring the statistical separation between the classes that resulted from computing divergence matrix. The overall accuracy of the classification was finally reference to ground truth data.

2.7. Area Calculation:

The area of each land use class in the leasehold is determined using *DIGITAL IMAGE PROCESSING SOFTWARE*.

2.8. Overlay of Vector data base:

Vector data base created based on secondary data. Vector layer like drainage, railway line, Lease boundary, mines area, forest boundary water body etc.

2.9. Field Survey:

Field survey was carried out by taking selective traverses in order to collect the ground information (or reference data).

2.10. Finding of Study:

2.10.1. Chulhi Majhiyar Lime Stone Mine *(176.619 ha).*

Land use /land cover information derived from IRS LISS-III 2021, 2022 & 2023 (Table 2). Area statistic of each land use /land cover category were generated in GIS software and has been determined to analyze change in their spatial distribution. By comparing the land use/land cover maps, a change detection map has been generated in smart GIS software to assess the major changes in the Mines area **Chulhi Majhiyar Lime Stone Mine** ***(176.619Ha).***

Table-2 : Chulhi Majhiyar Lime Stone Mine Land use Details (176.619 Ha) (Fig.1,2 & 3)

Description	2021 (Area In Ha)	2022 (Area In Ha)	2023 (Area In Ha)
Crop Land	*8.1779*	*8.9026*	*9.9321*
Agriculture-Fallow	163.1720	*162.3239*	*160.8951*
Built up Land	2.81681	*2.8258*	*2.9240*
Dumping Land	*0.52980*	*0.5577*	*0.6003*
Limestone Quarry	*1.6111*	*1.6951*	*1.9477*
Canal	*0.116355*	*0.1163*	*0.1163*
Afforestation Land	*0.19511*	*0.1976*	*0.2035*
Total	***176.6190***	***176.6190***	***176.6190***

2.10.4. Land Use/Land Cover Map Of Buffer Zone with 10 Sq.km. *(176.619 ha)*

Land use /land cover information derived from IRS LISS-III 2020, 2021 & 2023 (Table 2). Area statistic of each land use /land cover category were generated in GIS software and has been determined to analyze change in their spatial distribution. By comparing the land use/land cover maps, a change detection map has been generated in smart GIS software to assess the major changes in the Mines area.

Table - 2 Land Use Details of Buffer Zone Chulhi Majhiyar mines 176.619 ha (Fig. 4, 5 & 6)

Description	2021 (Area in Ha)	2022 (Area in Ha)	2023 (Area in Ha)
Cement plant unit II Boundary	*116.8283*	*116.8283*	*116.8283*
Agriculture Fallow	*32250.5629*	*32134.9702*	*32080.6182*
Dense Forest	*416.7392*	*416.7392*	*416.7392*
Lime Stone Quarry	*1.6111*	*1.6951*	*1.94771*
Open Scrub	*1850.3830*	*1873.5082*	*1878.5419*
Plantation	*417.0737*	*417.0737*	*437.0997*
River/Water Body	*900.7866*	*918.7427*	*925.7819*
Waste Land	*26.6701*	*26.6701*	*26.6701*
Solar Power Panel Area	*34.0315*	*34.0315*	*34.0315*
Crop Land	*180.2107*	*244.7498*	*260.1332*
Plant Area	*17.5111*	*17.5111*	*17.5111*
Reserved Forest	*336.5917*	*336.5917*	*336.5917*
Open Mix Jungle	*136.7960*	*136.7960*	*136.7960*
Other Quarry Land	*521.7783*	*521.7783*	*521.7783*
Afforestation	*0.19511*	*0.19760*	*0.19760*
BUILT UP LAND	*3215.8919*	*3225.7498*	*3232.3668*
Dumping Land	*103.0329*	*103.0609*	*103.0609*
T O T A L	***40526.6942Ha***	***40526.6942Ha***	***40526.6942Ha***

3. Conclusion

The Present study reveals that mining and industrial activities around Prism Johnson Ltd. are the main forces responsible for land use land cover change during years from commencement of their operation. The mining has increased manifold that has resulted in change land use in terms of cultivated land and water bodies in the area.

Exploitation on natural resource in the area is going on due to the expansion of limestone mining activities, and other industrial activities. This report focuses on LU/LC changes in the Mine lease areas and buffer areas in and around to Prism Johnson Limited, Satna India, using remote sensing data and GIS technology. Our results clearly show that LU/LC changes were summarized during the period of **2021, 2022 & 2023 in the Table no-2.** On the other hand there is minor change in agricultural area, water spread area, and forest areas. This study clearly indicates the significant impact of environmental and its development activities on LU/LC change. This study proves that integration of GIS and remote sensing technologies is effective tool for change detection. The quantification of LU/LC changes of Prism Johnson Ltd. area is very useful for environmental management groups, policy makers and for public to better understand the surrounding.

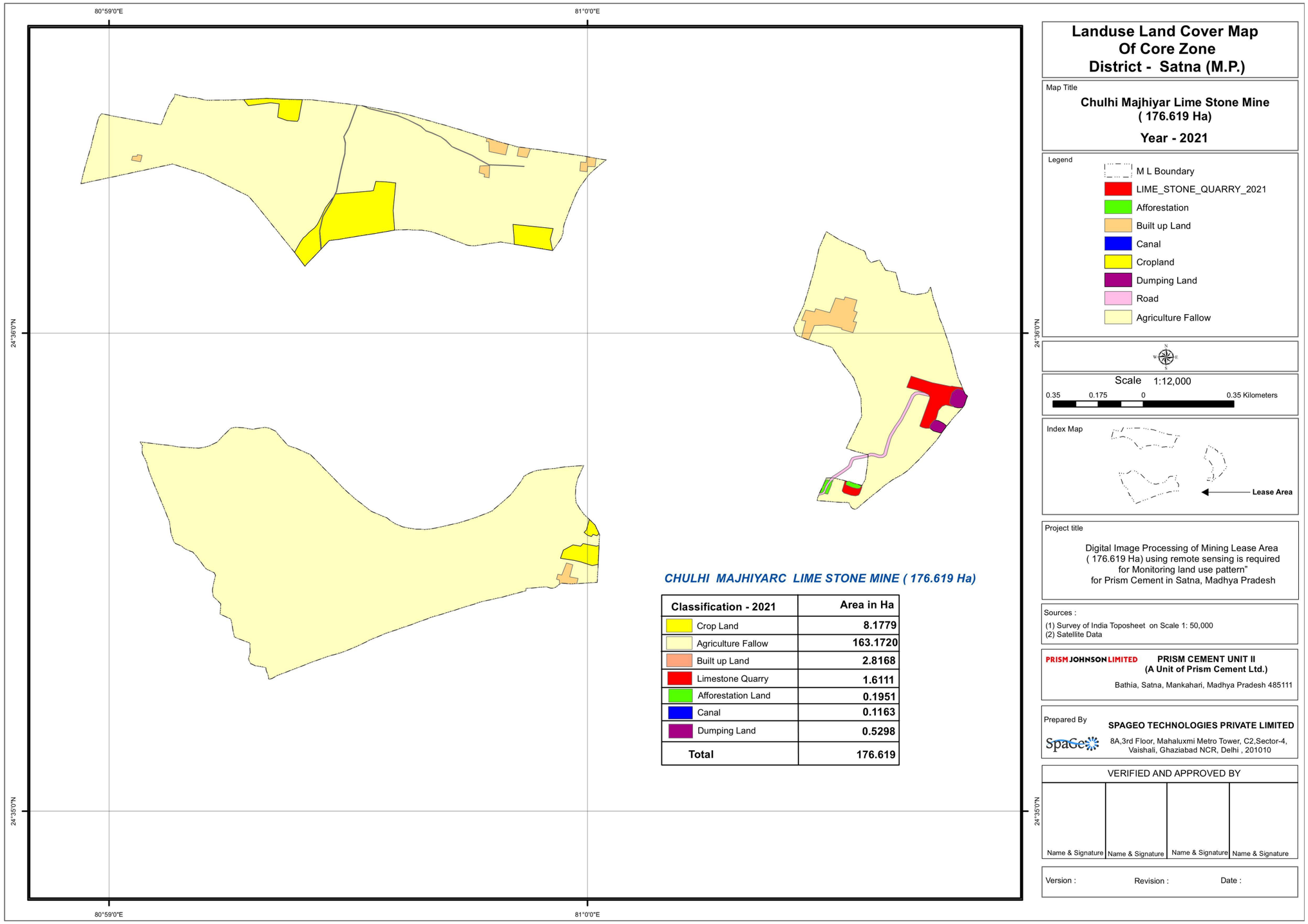


Fig:- 1 Chulhi-Majhiyar Lime stone Mine Land use Details 2021 (176.619 Ha)

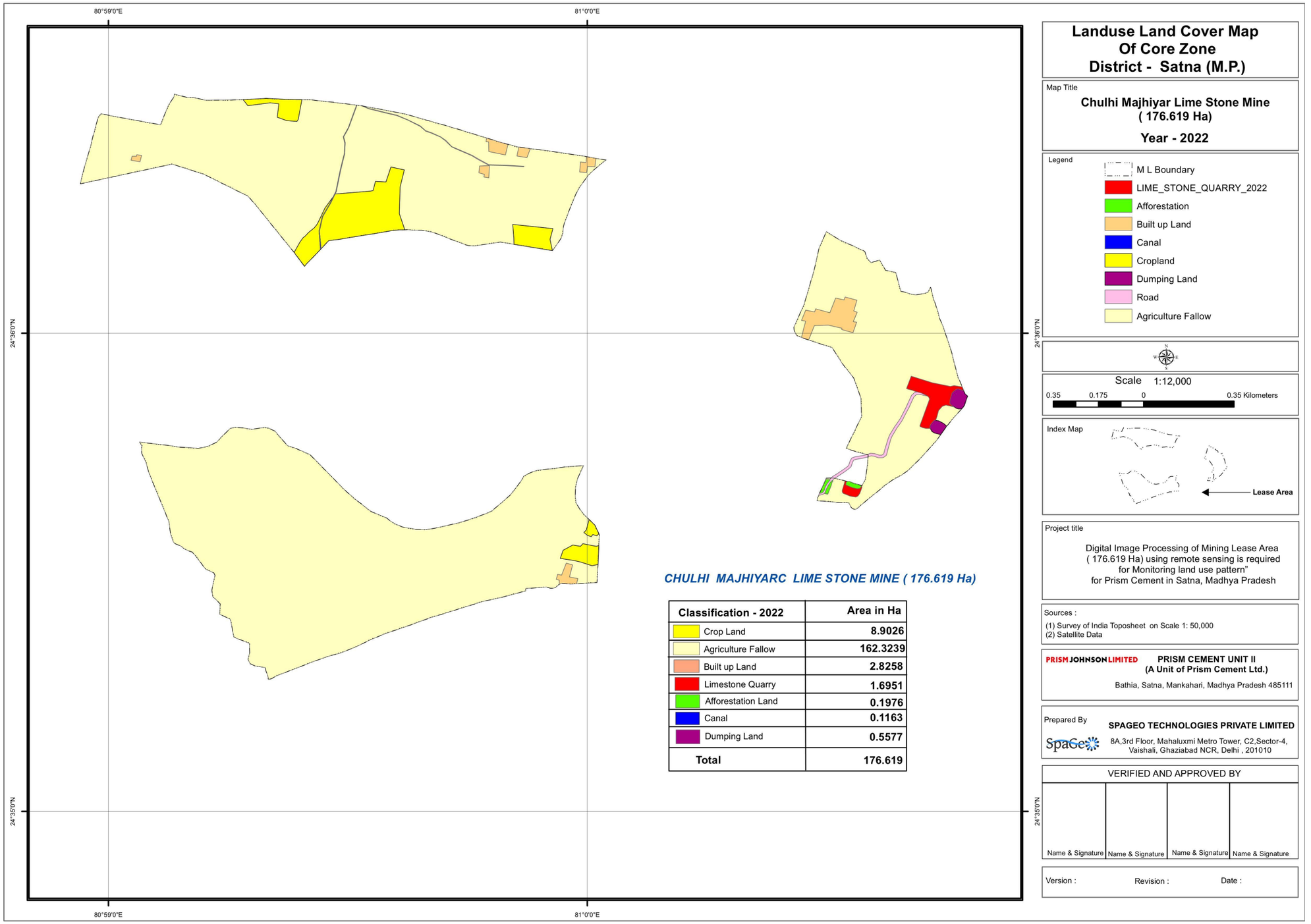


Fig:- 2 Chulhi-Majhiyar Lime stone Mine Land use Details 2022 (176.619 Ha)

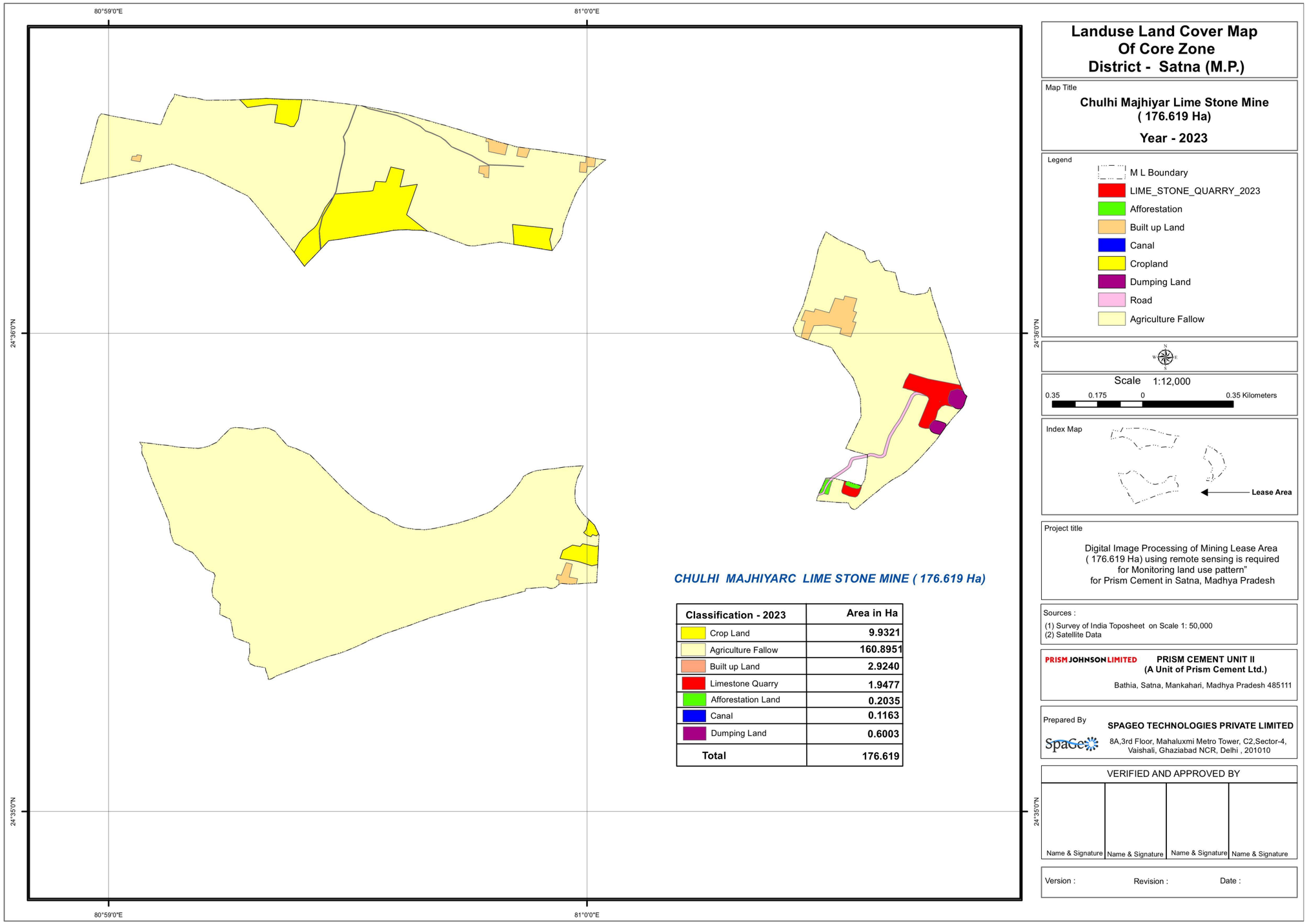


Fig:- 3 Chulhi-Majhiyar Lime stone Mine Land use Details 2023 (176.619 Ha)

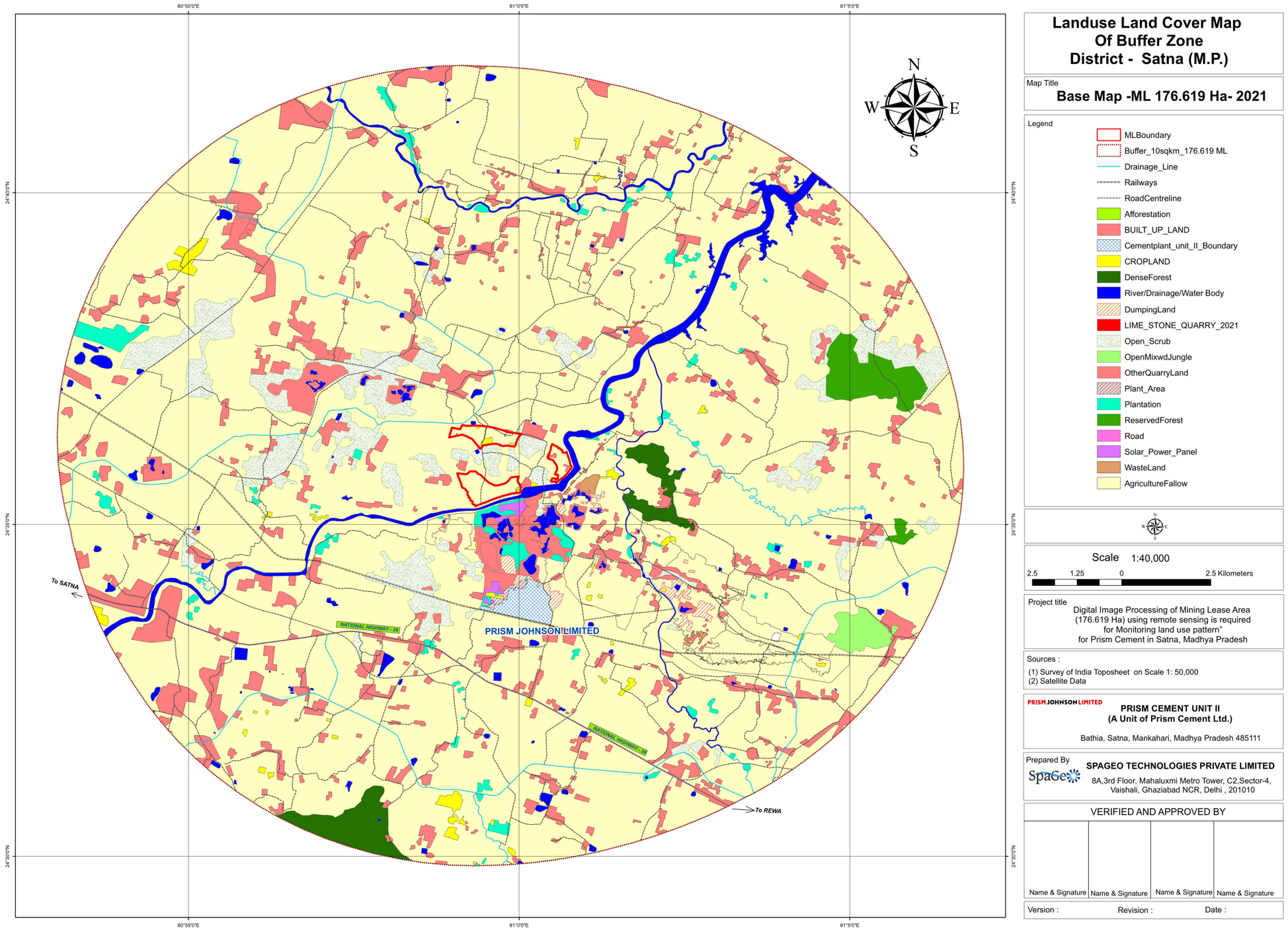
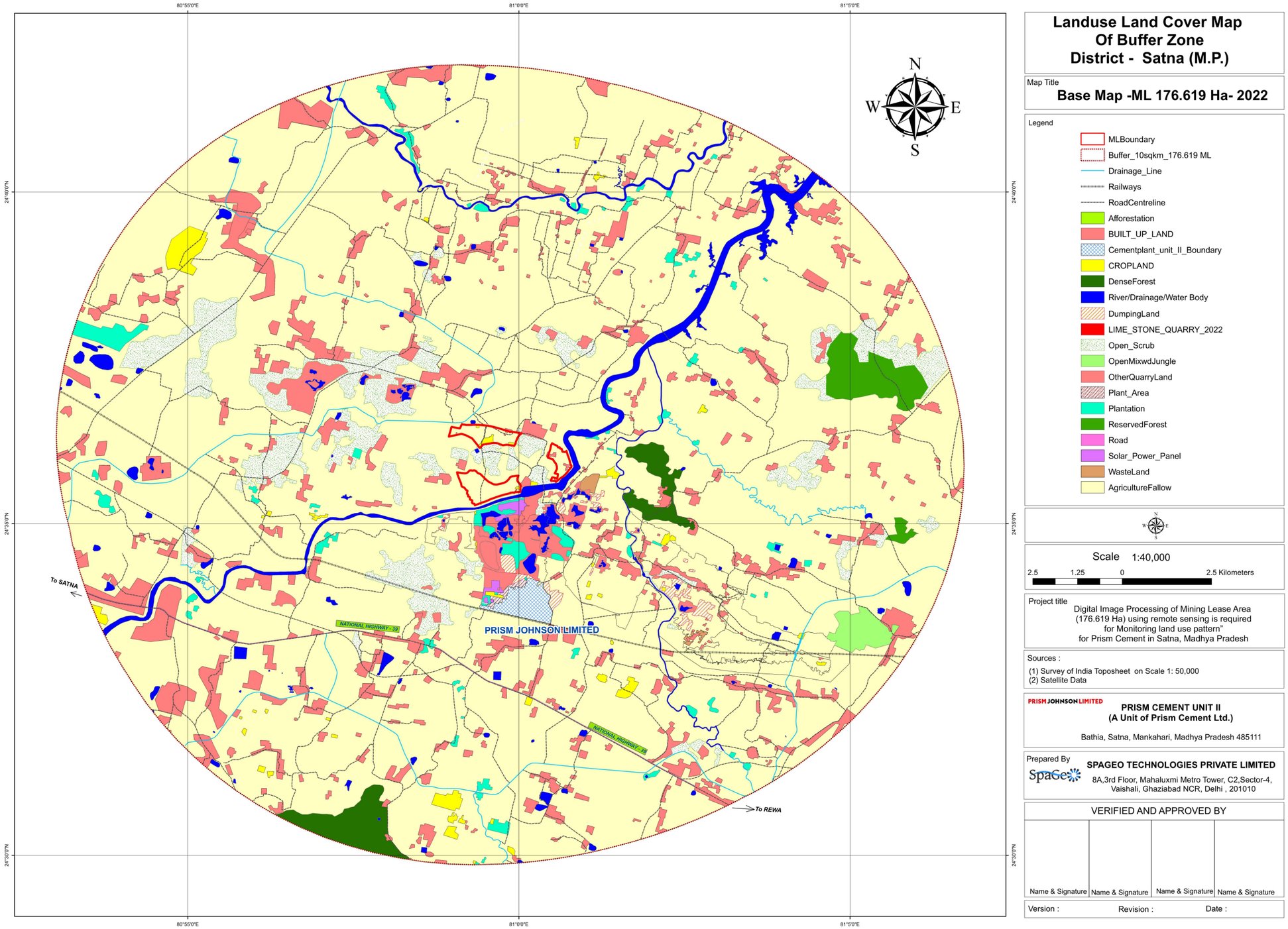


Fig: 4 Chulhi-Majhiyar Mine Land use/Land Cover Map of Buffer Zone-2021 (176.619 Ha)



Landuse Land Cover Map
Of Buffer Zone
District - Satna (M.P.)

Map Title
Base Map -ML 176.619 Ha- 2022

Legend
- MLBoundary
- Buffer_10sqkm_176.619 ML
- Drainage_Line
- Railways
- RoadCentreline
- Afforestation
- BUILT_UP_LAND
- Cementplant_unit_II_Boundary
- CROPLAND
- DenseForest
- River/Drainage/Water Body
- DumpingLand
- LIME_STONE_QUARRY_2022
- Open_Scrub
- OpenMixwdJungle
- OtherQuarryLand
- Plant_Area
- Plantation
- ReservedForest
- Road
- Solar_Power_Panel
- WasteLand
- AgricultureFallow

Scale 1:40,000
2.5 1.25 0 2.5 Kilometers

Project title
Digital Image Processing of Mining Lease Area (176.619 Ha) using remote sensing is required for Monitoring land use pattern" for Prism Cement in Satna, Madhya Pradesh

Sources :
(1) Survey of India Toposheet on Scale 1: 50,000
(2) Satellite Data

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VERIFIED AND APPROVED BY

Name & Signature	Name & Signature	Name & Signature	Name & Signature

Version : Revision : Date :

Fig: 5 Chulhi-Majhiyar Mine Land use/Land Cover Map of Buffer Zone-2022 (176.619 Ha)

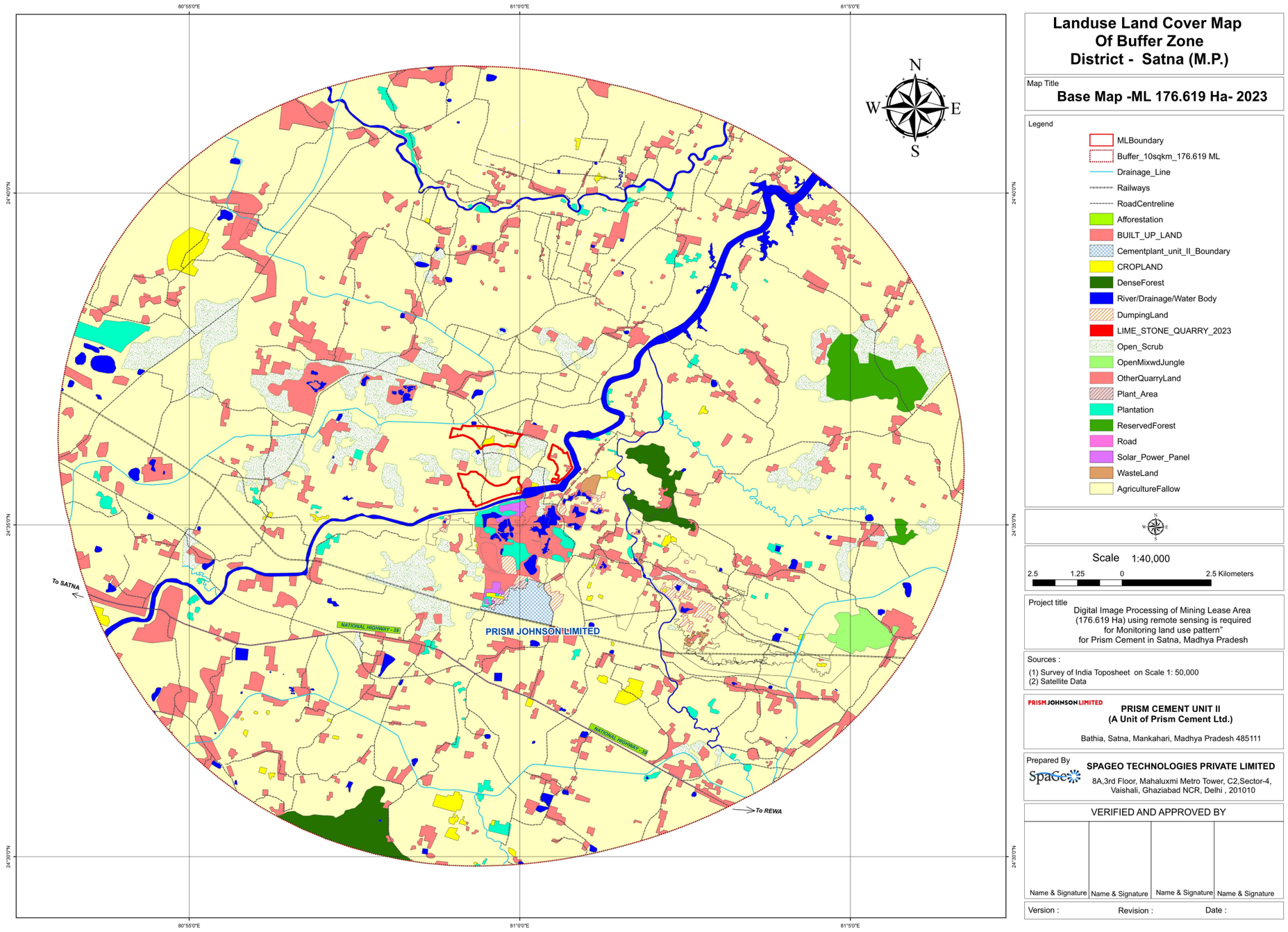

Fig: 6 Chulhi-Majhiyar Mine Land use/Land Cover Map of Buffer Zone-2023 (176.619 Ha)