

दूर की सोच

Ref: PJL/ENV/2022/505

Date: 01.06.2022

To,
The Regional Director,
Ministry of Environment, Forest & Climate Change
Paryavaran Bhawan,
Ravishankar Nagar, Bhopal (M.P.)

Sub: Six Monthly EC Compliance Report of Prism Cement Unit II & Int. Limestone Mines
Ref: Environmental Clearance letter no. F. No. J- 11011/949/2007/IA-II (I) dated 22.09.2008.

Dear Sir,

With reference to above mentioned subject and notification issued by MoEF & CC S.O. no. 5845 (E) dated 26.11.2018, we are submitting herewith the soft copy of half yearly report (October 2021 – March 2022) Related to compliance of accorded Environmental Clearance of Prism Cement Unit-II & Integrated Limestone Mines (772.067 ha, 512.317 ha, 117.594 ha and 99.416 ha).

Thanking You,

Yours faithfully,

For PRISM JOHNSON LIMITED



Manoj Kumar Kashyap
Asst. Vice President

Encl: As above

CC: The Director, MOEF & CC, Delhi

The Member Secretary – MPPCB, Bhopal

The Member Secretary – CPCB, Bhopal

The Regional Director – CGWB, Bhopal

The Regional Officer – MPPCB, Satna

PRISM JOHNSON LIMITED

(Cement Division - Unit II)

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CIN: L26942TG1992PLCO14033

**Compliance report with Regard to Environment Clearance accorded by MoEF&CC vide letter no.J-11011/949/2007-IA-II(I)
dated 22.09.2008**

S. No.	Conditions	Compliance Status																								
A. Specific Conditions:																										
1.	<p>The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the Madhya Pradesh Pollution Control Board. At no time, particulate emissions from the cement plant including kiln, coal mill, and cement mill, cooler and captive power plant(CPP) shall not exceed 50 mg/Nm³.</p> <p>Continuous on-line monitors for particulate emissions shall be installed. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.</p>	<p>The gaseous and the particulate matter emissions from various units i.e. Kiln, Coal Mill, Clinker Cooler and Cement Mill are well within the prescribed norms. There is no CPP at our cement plant. The analysis report of emissions from various units is enclosed as Annexure 1.</p> <p>Continuous Ambient Air quality monitoring system for Ambient air quality monitoring and Continuous emission monitoring system for particulate emissions and gaseous emissions monitoring from various units, have been installed and the monitored data is displayed at the main gate of the premises by the means of digital display board.</p> <p>Photographs of AAQMS, CEMS & display board is enclosed as Annexure 2.</p> <p>Interlocking facility has been provided in the pollution control equipment so that in the event of the pollution control equipment didn't work the respective unit(s) will be shut down automatically.</p>																								
2.	<p>Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored</p> <p>Guidelines/Code of Practice issued by the CPCB in this regard should be followed..</p> <p>The company shall install adequate dust collection and extraction system to control fugitive dust emissions at material transfer points.</p> <p>Atomized water spray system with reclaimers shall be installed in silo used for the storage of ash. Covered conveyer belts shall be used to reduce fugitive emissions.</p> <p>Concreting of all the roads, water sprinkling system at limestone and coal handling area shall be ensured to reduce fugitive emissions</p>	<p>Secondary fugitive emissions are controlled and are maintained well within the prescribed limits by the means of various practices. Atomized sprinklers and water spraying arrangement provided at source of dust generation.</p> <p>Guidelines/Code of Practice issued by the CPCB in this regard are being followed.</p> <p>Details of practices adopted to control fugitive emission are as follows:-</p> <ol style="list-style-type: none"> Covered Sheds and Silos are provided for storage of Raw materials. Details are mentioned below:- <table border="1"> <thead> <tr> <th>S. No</th><th>Name of raw material</th><th>Storage Facility</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Limestone</td><td>Covered Shed</td></tr> <tr> <td>2.</td><td>Coal</td><td>Covered Shed</td></tr> <tr> <td>3.</td><td>Gypsum</td><td>Covered Shed</td></tr> <tr> <td>4.</td><td>Laterite</td><td>Covered Shed</td></tr> <tr> <td>5.</td><td>Clinker</td><td>Silo</td></tr> <tr> <td>6.</td><td>Fly ash</td><td>Silo</td></tr> <tr> <td>7.</td><td>Cement</td><td>Silo</td></tr> </tbody> </table> Flexible curtains and water spray arrangement has been 	S. No	Name of raw material	Storage Facility	1.	Limestone	Covered Shed	2.	Coal	Covered Shed	3.	Gypsum	Covered Shed	4.	Laterite	Covered Shed	5.	Clinker	Silo	6.	Fly ash	Silo	7.	Cement	Silo
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		<p>provided at the unloading of limestone at crusher.</p> <ol style="list-style-type: none"> 3. Fog Canon installed Near Stock Pile of Lime stone to control fugitive Emission. 4. Bag filters (114 No. of Bag filters) are installed to control fugitive emission. 5. Dry fly ash is pneumatically unloaded and stored in silo from closed bulkers. 6. Permanent water sprinklers system has been installed at the haul roads of Limestone Mine and Water spraying with the help of water tanker is also done to control fugitive emission which can be caused by the movement of vehicles. 7. Closed conveyor belts are provided for transfer of raw materials within the plant premises. 8. Closed bulkers are used for transfer of fly ash to avoid fugitive emission. 9. Covered trucks are used for transfer of other raw materials and end products. 10. Wet drilling is practiced to prevent secondary fugitive emission. 11. Dense plantation is done along the periphery of roads and in plant and mines premises as measure to control fugitive emission. 12. Concrete road and truck parking area is provided to mitigate secondary fugitive emission. <p>Photographs of various measures to control fugitive emission is enclosed as Annexure 3.</p>
3	<p>Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities.</p> <p>Monitoring of ambient air quality and shall be carried-out regularly in consultation with MPPCB and data for air emissions shall be submitted to the CPCB and MPPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.</p>	<p>Ambient Air emission parameters are well within the prescribed norms.</p> <p>Noise levels are also within the norms.</p> <p>Monitoring report of ambient air quality analysis and noise monitoring is enclosed as Annexure 4</p> <p>Regular ambient air quality monitoring and noise level monitoring are done with the calibrated instruments. Ambient air quality and Ambient Noise levels does not exceed the standards stipulated under EPA or by the state authorities.</p> <p>Calibration certificates are attached at -Annexure no. 4(b)</p>
4	<p>Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.</p>	<p>Raw materials and end products are being transported in trucks covered by the tarpaulin and bulkers to reduce the effects of fugitive emission on the surrounding environment and agriculture land.</p> <p>Raw materials and end products are transported within the plant premises with the help of closed conveyor belts to reduce impact of transport.</p>




Rail transport system has also been used which also help to reduce impact of transport. Some of them are as follows:







1. All the Roads inside the plant premises are Concreted.
2. Permanent water sprinklers system has been installed at the haul roads of Limestone Mine and Water spraying with the help of water tanker is also done to control fugitive emission which can be caused by the movement of vehicles.
3. 114 No's Bag-filters have been installed to control fugitive emission.
4. Dense plantation is done in Plant & Mines premises.

5.	Fly ash shall be utilized as per the provisions of Fly Ash Notification-1999, subsequently amended in 2003. Fly ash shall be stored in ash silo and 100% used in the cement manufacturing	<p>Fly ash is being utilized as per the provisions of Fly ash Notification 1999, subsequently amended in 2003.</p> <p>Fly ash is being transported by the means of closed bulkers and it is stored in Silo.</p> <p>and 100 % fly ash is used in cement manufacturing.</p> <p>Consumption of fly ash is as follows:</p> <table><tr><th colspan="2">Yearly Fly Ash Consumption</th></tr><tr><th>Year Qty</th><th>(MT)</th></tr><tr><td>2014-2015</td><td>907848</td></tr><tr><td>2015-2016</td><td>848939</td></tr><tr><td>2016-2017</td><td>810908</td></tr><tr><td>2017-2018</td><td>701922</td></tr><tr><td>2018-2019</td><td>855770</td></tr><tr><td>2019-2020</td><td>808392</td></tr><tr><td>2020-2021</td><td>906630</td></tr><tr><td>2021-2022</td><td>795176</td></tr></table>	Yearly Fly Ash Consumption		Year Qty	(MT)	2014-2015	907848	2015-2016	848939	2016-2017	810908	2017-2018	701922	2018-2019	855770	2019-2020	808392	2020-2021	906630	2021-2022	795176
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6.	The company shall make the efforts to utilize the high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly. The company shall keep the record of the waste utilized and shall submit the details to Ministry's Regional Office at Bhopal, CPCB and SPCB.	<p>Permission for utilization of High calorific hazardous waste in the cement kiln has been taken.</p> <p>Copy of same is enclosed as Annexure 5.</p> <p>Record of the waste utilized is being maintained and is submitted to the Ministry's Regional Office at Bhopal, CPCB and SPCB.</p>																				
7.	Total water requirement shall not exceed 2500 m3/day.	<p>Water consumption will not exceed 2500 m3 / day.</p> <p>Waste water generated is treated with the help of STP having capacity of 600 KLD and the treated water is being used for the development of green belt.</p> <p>Water consumption details is enclosed as Annexure 5 (a).</p> <p>STP treated water analysis report is enclosed as Annexure 5 (b).</p> <p>Photographs of STP and Green Belt is enclosed as Annexure 5 (c).</p>																				
	The treated wastewater from STP and utilities shall be reutilized for green belt development and other plant related activities i.e. Cooling and dust suppression in raw material handling area etc., after necessary treatment. 'Zero' discharge shall be strictly adopted and no effluent from the process shall be discharged outside the premises.	<p>STP of capacity 600 KLD has been installed to treat the domestic waste water generated and the treated waste water is being utilized for green belt development, dust suppression and cooling and the sludge waste so generated from the sewage treatment plant is used as manure in plantation.</p> <p>No effluent discharge from the plant premises is there and has maintained the Zero discharge.</p> <p>Analysis of treated water is enclosed as Annexure 5(b).</p>																				
8	Rainwater harvesting measures shall be adopted for the augmentation of ground water at cement plant, colony and mine site.	Rain water harvesting measures have been implemented in plant premises as well in Mines and nearby villages. Details of water harvesting measures are mentioned below:																				



		<ol style="list-style-type: none"> 1. Water harvesting pond of capacity 13 Lac m³ has been constructed in Mines area. 2. 12 Nos. of Roof Top rain water harvesting has been developed to harvest rain water. 3. Runoff Water Harvesting Structure Near Guest House. 4. Ground water recharge with 3 Abandoned bore-wells. 5. Groundwater Recharge Pit Connected with Storm Drain - A type Colony. 6. Groundwater Recharge Pit Connected with Storm Drain - Near Nursery 7. Ground water recharge with abandoned bore well near steel yard. 8. Recharge Bore Hole for Recharging the Ground Water - 22 Nos 9. Deepening of Nava, Badhura, Ram Sagar Chormari Pond. 10. Single and double bore recharge shaft at Badhura and chormari <p>Photographs of rain water Harvesting Structure is enclosed as Annexure 6.</p>
	Besides, company must also harvest the rain water from the roof tops and storm water drains to recharge the ground water	<p>There are 12 Nos of Roof top rain water harvesting structures in plant premises These are:</p> <ol style="list-style-type: none"> 1. MRSS building 2. Project Office building 3. School Building. 4. Cement Mill Unit II Load Center 5. Cooler load Center of Unit I 6. Cooler load Center of Unit II 7. Store building. 8. Security Barrack. 9. Duratech Shed. 10. Packing plant Unit I 11. Packing plant II 12. Mines Workshop. <p>Filters have been installed at roof top drain so as to filter out the dust, grits solid contents into bore-wells.</p>
	The company must also collect rain water in the mined out pits of captive lime stone mine and use the same water for the various activities of the project to avoid fresh water requirement.	<p>The company collects rain water in the mined out pits of captive lime stone mine and use the same water for the various activities. The water is used for various activities i.e. spraying On haul roads, crusher hopper, green belt development etc.</p> <p>Rain water harvesting pond with capacity of 13 lac m³ has been developed and the harvested water is used for various purpose which helps conservation of fresh ground water.</p>
	<p>The company shall construct the rain water harvesting and ground water recharge structures outside the plant premises also in consultation with local gram panchayat and Village heads to augment the ground water level.</p> <p>An action plan shall be submitted to Ministry's Regional Office at Bhopal within 3 months from date of issue of this letter.</p>	<p>Rain water Harvesting structures have been measures have been implemented in nearby villages are also. Some of them are as follows:</p> <ol style="list-style-type: none"> 1. Deepening of Nava, Badhaura and Ram Sagar, Chormari Pond 2. Single & Double bore recharge shaft at Badhura and Chormari. 3. Perforated Drum based water harvesting structures at Bamhauri & Bathiya . Annexure 7

9	<p>The project proponent shall modify the mine plan of the project at the time of seeking approval for the next mining scheme from the Indian Bureau of Mines so as to reduce the area for external over burden dump by suitably increasing the height of the dumps with proper terracing. It shall be ensured that the overall slope of the dump does not Exceed 28 degrees.</p>	<p>We have obtained approval of further Schemes of mining for the leases of PCL as follows:</p> <ol style="list-style-type: none"> 1. 772.067 ha (Hinauti & Sijahata) vide IBM letter no MP/Satna/ Limestone/RMP-39/2019-20 Dt.31.03.2020, 2. 99.416 ha (Hinauti & Sijahata) vide IBM letter no MP/Satna/ Limestone/RMP-50/2021-22 Dt. 20.12.2021, 3.512.317ha (Baghai) vide IBM letter no MP/Satna/Limestone/RMP-57/2020-21 Dt.09.04.2021 and 4. 117.594 ha (Mendhi) vide IBM letter no MP/Satna/ Limestone/ M.Sch-6/16-1 Dt. 04.11.2016by the Indian Bureau of Mines. <p>Copy of approval letter is enclosed as Annexure 8.</p> <p>Dump height and slope has been maintained as per guidelines. The details are enclosed as Annexure 9.</p>
10	<p>Top soil if any, shall be stacked with proper slope at earmarked site(s) only with adequate measures and should be used for reclamation and rehabilitation of mined out areas.</p>	<p>The top soil generated during Mining is being stacked at the earmarked site and is used for reclamation of Mined out area by spreading it over the waste rock after backfilling, and for plantation purpose.</p> 
11	<p>The project proponent shall ensure that no natural water course shall be obstructed due to any mining and plant operations</p>	<p>The Surface water bodies in area are observed as Tamas River, which is adjacent to the Hinauti & Sijhata Limestone Mine in North direction. The Magardaha nalla is located outside the lease area in the western side. Magardaha nalla ultimately joins the Tamas River. Nar Nala falls outside the lease area and flanks the Baghai mining lease from the western side.</p> <p>No natural water course is obstructed due to mining and plant operations. The company is taking following measures for Protection of the Tamas River, Magardaha Nala and Nar Nala (natural water course) which is adjacent to the Hinouti Sijhata and Baghai Limestone Mine in North East and west direction respectively.</p> <ul style="list-style-type: none"> • Solid barrier of minimum 60 m width has been made from the river bank to avoid the flow of surface run off to the River. • Garland drains made along the slope of dumps. • Rain water is channelized to a Settling Tank to eliminate silting of river and then discharged in natural drainage course. • Plantation has been done all along inside safety barrier of Tamas River. • Proper landscape has been developed near the River bank to avoid erosion.

		There is no proposal for diversion/ obstruction/ modification of any natural water course during mining activity.
	The company shall make the plan for protection of the natural water course passing nearby mine area and submit to the Ministry's Regional Office at Bhopal.	The proposal for natural water course protection passing nearby mines area is submitted. Annexure 22
12	The inter burden and other waste generated shall be stacked at earmarked dump site(s) only and should not be kept active for long period.	<p>The inter burden and waste generated during mining has been stacked at earmarked dump site as per approved mining plan. Dumps have been stabilized simultaneously by planting local species and bushes i.e. Bouganvillea, karanj, Alstonia, Neem etc.</p> <p>Total 46155 number of plantation has been done in Mines area and 5100 no. of plantation has been done in plant and colony premises. In addition to the above we have planted 88100 no. of plants during CSR activities in nearby village area FY 2021-22.</p>
	The total height of the dumps shall not exceed 30 m in three terraces of 10 m each and the overall slope of the dump shall be maintained to 28. The inter burden dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off.	<p>The total height of the dumps are not exceeding then 30 m and the slope of the dumps are maintained at 28^o.</p> <p>Details regarding dumps is enclosed as Annexure 9.</p>
	Monitoring and management of rehabilitated areas should continue until the vegetation becomes self- sustaining.	Monitoring and management of rehabilitated areas will be continued until the vegetation becomes self-sustaining.
	Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office, Bhopal on six monthly bases.	Compliance status is submitted on regular basis to Ministry of Environment & Forests and its Regional Office, Bhopal. Last EC Compliance was submitted vide letter no. PJL/ENV/2021/426 dated 01.12.21.
13	The void left unfilled shall be converted into water body.	<p>Agreed.</p> <p>A Rain water harvesting reservoir has been already developed which is having capacity of 13 lakh Cubic meter.</p> <p>The accumulated water is used for industrial purpose at mine and cement plant. Proper landscaping is done around the water body.</p>
	The higher benches of excavated void/mining pit shall be terraced and plantation to be done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body.	Mined out pit has been terraced and the gentle slope is stabled and planted with adequate vegetation of local species.
	Peripheral fencing shall be carried out along the excavated area.	Fencing is being done around the periphery of Mines excavated area.


			
14	<p>Catch drains and siltation ponds of appropriate size should be constructed for the working pit, inter-burden and mineral dumps to arrest flow of silt and sediment.</p>	<p>Approximately 720 m. of Catch drains along dumps and 02 siltation ponds of appropriate size have been constructed. The catch drains are for inter-burden and Mineral dumps to arrest flow of silt and sediment.</p> <p>Garland drain along lease boundaries of 3.0 Km (cumulative in two locations) has been constructed.</p> <p>Check dams have been made at regular intervals in garland drains to hinder the flow of rain water and to arrest the silt.</p>   	
	<p>The water so collected should be utilized for watering the mine area, roads, green belt development etc.</p>	<p>Complying with.</p> <p>The water so collected is being utilized for watering of Mine area, green belt development etc.</p>	




	The drains should be regularly de-silted, particularly after monsoon, and maintained properly.	The drains are regularly de- silted, particularly after monsoon, and maintained properly
15	Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and inter-burden dumps and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and de-silted at regular intervals.	Garland drain having dimension of cumulative length of 3.0 Km, a width of 2.0 to 3 meters and depth of 0.75 to 1.2 meter. It is having appropriate gradient following Natural contour. Sump size of length 25m x width 15m and depth 4m. has been constructed along the garland drain. One additional siltation ponds has been constructed. It is having a capacity of 50% safety margin to accommodate over and above peak sudden rainfall and maximum Discharge in the area. Garland drains and de-siltation ponds are de-silted at regular intervals, especially after monsoon.
16	Dimension of the retaining wall at the toe of inter-burden dumps and inter-burden benches within the mine to check run-off and siltation should be based on the rain fall data.	Retaining walls and toe drains are maintained to check runoff and siltation.
17	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, Central Ground Water Board. The frequency of monitoring should be four times a year- pre-monsoon (April / May), monsoon (August), post monsoon (November), and winter (January). Data thus collected shall be sent at regular intervals to Ministry of Environment and Forests and its Regional Office at Bangalore, Central Ground Water Authority and Central Ground Water Board.	Regular monitoring of ground water level and quality is being carried out by the means of constructed Piezometers at the site in and around Project area. Frequency of monitoring is four times a year- pre-monsoon (April / May), monsoon (August), post monsoon (November), and winter (January). The monitoring results for Ground water Quality & water level is being submitted to the MoEF, New Delhi, Regional Office of MoEF, Bhopal, Central Ground Water Authority, New Delhi, Central Ground Water Board, Bhopal on regular basis. Analysis report is enclosed as Annexure 10.
18	Blasting operation should be carried out only during the daytime.	Complying with. Blasting operations are carried out during the day time only.
	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented	Controlled blasting is carried out according to the recommendation of Central Institute of Mining And Fuel Research. The salient recommendations are given below: <ul style="list-style-type: none"> The AOP has been recorded within prescribed limits All the recorded data (blast vibrations, air overpressures and fly rocks) were well within the safe limit at the houses/structures concerned. The dominant peak frequencies of ground vibrations were in the range of 11.4 to 129 Hz. FFT analysis of blast vibration frequencies confirmed that concentration of frequencies is in band of 13.3-40.3 Hz.

		<p>So, the safe level of vibration has been taken as 10 mm/s for the safety of houses/structures of the surrounding villages as per DGMS standard.</p> <ul style="list-style-type: none">• Propagation equation for the prediction of blast vibration has been established and is given as Equation 1. The permissible explosive weight per delay may be computed from the Equation to contain vibration within safe limits for distances of houses/ structures concerned. For convenience, the recommended explosives weight per delay has been computed and is given in Table A3.• The delay interval between the holes in a row should be 17 ms whereas between the rows, it should be 65 ms or more depending upon the number of rows and effective burden. If the numbers of rows are more than two, the delay interval between rows should be increased by 15% in successive rows.• It is recommended that the existing Nonel initiation system should be continued in the Blasting operations and Electronic initiation systems should be practiced on the benches near to the structures for more precise and accurate delay design. The sub-grade drilling should be 0.3 to 0.5 m for a blast hole depth of 6 to 7 m and should be initiated from the Bottom of the hole.• It is advisable to use blasting mate with sand bags in sensitive area to ensure any non ejection of fly rocks. For this Nonel as well as electronic system may be used as an Initiation system. <p>Each blast is monitored for vibrations with Minimate and Nomis seismographs.</p>  <p>Vibration report is enclosed as Annexure 11</p>
19	The project proponent shall adopt wet drilling.	<p>Complying with Regular wet drilling is practiced.</p> 

20	As proposed, green belt should be developed in 33% in and around the plant as per the CPCB guidelines.	Total 46155 number of plantation has been done in Mines area and 5100 no. of plantation has been done in plant and colony premises. In addition to the above we have planted 88100 no. of plants during CSR activities in nearby village area FY 2021-22.		
21	All the recommendations of the Corporate Responsibility for Environmental Protection (CREP) shall be strictly followed.	Action Plan	Compliance status	
		Cement Plant, which are not complying with notified standards shall do the following to meet the standards <ul style="list-style-type: none"> • Augmentation of existing Air Pollution Control Devices : by July 2003 • Replacement of existing Air Pollution Control devices : by July 2003 	Complied with.	
		Cement plants located in the critically polluted or urban areas (including 5 Km distance outside urban boundary) will meet 100 Mg/Nm ³ limit of particulate matter by December 2004 and continue working to reduce the emission of the particulate to 50 mg/Nm ³	Complied with. We are achieving the PM emission norms within 30 mg/Nm ³ .	
		The new cement kilns to be accorded NOC/Environmental Clearance w.e.f 01.04.2003 will meet the limit of 50 mg/Nm ³ for particulate matter emissions	Complied.	
		CPCB will evolve load based standards by December 2003	-----	
		CPCB & NCBM will evolve SO ₂ & NO _x emission standards by June 2004	Not applicable.	
		The cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall	Complied Bag Filters installed at all Material transfer points, Water spraying regularly on haul roads.	

		submit its recommendations within three months	
		CPCB , NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003	We are using pet coke.
		After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003	Installed continuous monitoring systems (CEMS) in all process stack.
		Trippings in kiln ESP to be minimized by July 2003 as per the recommendation of NTF	Complied.
		Industries will submit the target date to enhance the utilization of waste material by April 2003	We are using the AFR waste material in our kiln.
		NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003	Not Applicable
		Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003	Agreed.
22	Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.	<p>Vehicular emission is kept under control. Regular maintenance of all vehicles is done as per manufacturer's maintenance schedule i.e. changing of timely diesel filters, calibration of Fuel pump, overhauling of engines etc.</p> <p>No vehicle without valid PUC is allowed inside the plant and mines area.</p> <p>The vehicles engaged in transportation of minerals outside the core zone are provided with tarpaulin and no overloading is allowed.</p>	
23	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bhopal	<p>Complying with.</p> <p>Digital processing of entire lease area using remote sensing technique is being done and copy of same has been submitted to MoEF&CC and its Regional office.</p> <p>Copy is enclosed as Annexure 12.</p>	

24	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment& Forests 5 years in advance of final mine closure, for approval.	The documents will be submitted well before the 5 years of mine closure.
25	The company shall comply with all the commitments made during public hearing on 22 nd May, 2008.	Adhering to the given condition we will strictly Comply with all the commitments made during public hearing on 22 nd May, 2008. The public hearing comments are enclosed as Annexure 13 .
B. General Condition:		
1	The project authority shall adhere to the stipulations made by State Pollution Control Board (SPCB) and State Government.	Cement plant and all the mining operation are carried out with valid consent under air and water act issued by SPCB. The copy of consent is enclosed as Annexure-14 .
2	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry	Agreed, further expansion or modification will be carried only after obtaining the permission from Ministry.
3	At least four ambient air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the SPCB	We are regularly monitor the ambient air quality at different locations in villages.
	Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office and SPCB /CPCB once in six months.	Complying with. Data on ambient air quality and stack emissions are being regularly submitted.
4	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	<p>No industrial wastewater is generated as the cement plant is operated on dry process.</p> <p>For domestic wastewater, there is a sewage treatment plant with capacity of 600 KLD.</p>  <p>Contaminated water generated due to washing of equipment is passed through oil and grease separation tankers. For separation of oil and grease particles from water, prime mover has been provided.</p>

		   <p>STP treated water analysis report is enclosed as Annexure 5 (b). Mines workshop treated water Analysis Report is enclosed as Annexure- 15</p>	
5	The overall noise levels in and around the plant area shall be kept well within the standards [85 dB(A)] by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	<p>The overall noise level is within threshold limit of 85 dB(A). To arrest the noise levels all equipment are equipped with acoustic hoods, silencer, enclosures etc. besides that operators have been provided with PPE.</p> <p>Green belt is developed along the plant and mining area to minimize the noise pollution.</p>	
	The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dB(A) (day time) and 70 dB(A) (night time).	<p>Ambient Noise levels are maintained well within the prescribed norms under Environmental (Protection) Act, 1986 Rules, 1989.</p> <p>Noise Monitoring report is enclosed as Annexure 4.</p>	
6	Proper housekeeping and adequate occupational health programs shall be taken up. Occupational Health Surveillance programme shall be done on a regular basis and records for at least 30-	We have already conducted various health surveillance programs whose records are maintained properly. Also sufficient preventive measures are adopted during the plant and mining operation to avoid direct exposure to dust etc.	

	<p>40 years. The programme shall include lung function and sputum analysis maintained properly tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc</p>	<p>Occupational Health Survey (OHS)</p> <p>a) Periodical Medical Examinations are conducted of each employee by outside specialists once in every 5 years. Under this scheme each employee undergoes Pathological tests, blood group test, chest X-Rays, Audiometry tests, eyetest etc. once every 5 years. Proper records of such tests are maintained. Not a single case of any occupational disease has so far been detected in our mines/plant. – Sample medical examination note is displayed.</p> <p>b) Welfare Amenities: A well-equipped Dispensary has been provided with Provision of Ambulance, Pathological Laboratory& X-Ray, and Audiometry etc.</p> <p>OHC reports are enclosed as Annexure 16 Details of various health programmes conducted is enclosed as Annexure 16 (a).</p>
7	<p>The company shall undertake eco-development measures including community welfare measures in the project area.</p>	<p>Various programs per training to eco development and community welfare has been taken up by the company. Various Social, educational, healthcare and environment initiative have been taken by the company.</p> <p>Details of CSR Activities of year 2021-22 are enclosed as Annexure 17.</p>
8	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP.</p>	<p>Complying with We are strictly adhering with the Environment protection measures as stipulated in approved EMP of mines.</p> <p>Environment Management measures adopted in Prism Johnson Limited:-</p> <ol style="list-style-type: none"> 1. Air Pollution Control Measures i.e. bag house, ESP and bag filters installed at all process stack & transfer tower respectively. 2. Truck mounted road sweeping machine for fugitive emission control. 3. CO₂ abatement by the way of plantation. 4. Limiting and minimization of hazardous materials and chemicals during manufacturing and zero disposal of hazardous waste within the boundaries. 5. Fleet and route optimization for energy and fuel saving resulting in a reduction of the CO₂ emission. 6. Installation of Continuous Emission Monitoring System (CEMS) to monitor and analyze the flue gas emitting from the stack and other emission devices. 7. Installation of bag filter, bag house and Electrostatic Precipitators (ESP) to prevent the emission of Particulate Matters. 8. Continuous and regular housekeeping of shop floor and premises to collect the waste generated and put back that waste back into a process which is to target circular economy. Zero waste has been generated through processing; all waste is reused for manufacturing.

		<ol style="list-style-type: none"> 9. Rigid pavements have been constructed within the plant and in the vicinity of plant for the transportation of the fleets. 10. Carbon sinks have been made; plantation have been done in the periphery of the establishment under to absorb the CO₂ emitted and to become a carbon neutral. 11. In house Sewage Treatment Plant (STP) of the capacity of 600KLD has been in operation from (1996) and the no all treated water is used in nursery and in manufacturing operations especially for cooling purposes. 12. Various AFRs like carbon black and plastic waste have been used to as a fuel to avoid disposal of the waste. 13. Natural STP has been set up to reuse the leaked or spilled water during the operations and the treated water is used for gardening purposes. 14. All the water pipelines are reviewed and maintained on a regular basis. Leaked taps have been replaced immediately which resulted in saving water resources. 15. Mist Cannons are used to prevent the fugitive emissions occurred during the operations. 16. Installation of Waste Heat Recovery System (WHRS) and Selective Non-Catalytic Reduction (SNCR) has been carrying out to reduce the impact of CO₂& Nox on the environment respectively. 17. Solar Panels of the capacity of 24.5 MW which is 40% of the total energy required for the entire establishment are being installed. 18. Waste heat recovery system of capacity 22.5 MW is installed, which is 25% of the total energy required.
9	A separate Environmental Management Cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be setup under the control of Senior Executive.	Environmental Management Cell is functioning effectively, Structure of which is enclosed as Annexure 18 .
10	The capital cost and recurring cost annum earmarked for environmental protection equipments shall be Rs. 115 Crores and Rs.3.20 Crores to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. Time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.	<p>Complying with the condition, the capital cost and the recurring cost earmarked for environmental protection are not diverted for any other purpose.</p> <p>Year Wise Recurring Expenditure for Environmental Management is enclosed as Annexure 19.</p>
11	The Regional Office of this Ministry / CPCB / SPCB shall monitor the stipulated conditions. The project authorities shall extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	<p>Agreed.</p> <p>Full cooperation shall be provided to the officer(s) of the Regional Officer in furnishing the requisite data/ information/ monitoring reports.</p>

	A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Six monthly compliance report and the monitored data is being submitted to Regional Office of the Ministry / CPCB / SPCB regularly. Last compliance report was submitted vide letter no – PJL/ENV/2021/426 dated 01.12.21.
12	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	The copy of the intimation of the financial closure Of the project is enclosed as Annexure-20.
13	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests. No change in the calendar plan including excavation, quantum of limestone and waste shall be made.	Agreed. No change in mining technology and scope of working will be made without prior approval of the Ministry of Environment & Forests.
14	Measures should be taken for control of noise levels below 85dB (A) in the work environment. Workers engaged in operations of HEMM etc. should be provided with ear plugs/muffs.	Noise monitoring is carried out on regular basis so as to comply with the prescribed norms. Workers and employees are provided with earmuffs and necessary PPE's.
15	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	No industrial wastewater is generated as the cement plant is operated on dry process. For domestic wastewater, there is a sewage treatment plant of the state-of-art technology. It has the capacity to treat domestic wastewater of 600 KLPD. Contaminated water generated due to washing of equipment is passed through grease and oil trap tank having separation chambers and pumping arrangement. For separation of oil and grease particles from water, prime mover has been provided. The oil and grease is skimmed and kept in sealed barrels for further disposal to authorized vendors.
16	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contraindications due to exposure to dust and take corrective measures, if needed.	Personal protective Equipment's are being provided to the workers and they are given adequate training and information regarding safety and health aspects related to the kind of job they are engaged in. Regular Health check-up program is conducted is done for the workers.
17	The project authorities shall inform to the Regional Office located regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The copy of the intimation of the financial closure of the project is enclosed as Annexure-20.

18	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation, if any, was received while processing the proposal.	Complied.
19	State pollution control board should display a copy of the clearance letter at the Regional Office, District Industry Centre & Collector's office/ Tehsildar's office for 30 days.	
20	The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at " http://envfor.nic.in " and a copy of the same shall be forwarded to the Regional Office of this Ministry.	<p>Complied.</p> <p>The advertisement regarding issuance of Environment clearance and the copy of same is available at State Pollution Control Board and also at web site of the Ministry of Environment and Forests at "http://envfor.nic.in" was given in two newspapers i.e. Nav swadesh and Desh Bandhu on 25.09.2008.</p> <p>Copy of advertisement is enclosed as Annexure 21.</p>

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E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1**ecoMen**
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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack1/818/12/21

TEST REPORT ISSUE DATE:05.01.2022

TEST REPORT OF STACK EMISSIONS*

Name of the Company : **M/s Prism Johnson Ltd.**
 Address of the Company : Village Mankahari
 Tehsil Rampur Baghelan
 District Satna (M.P.)
 Date of Monitoring : 28.12.2021
 Sample Collected by : Mr.Anish Singh & Mr.Manoj Gupta
 Source of Emission : Raw Mill Emission
 Sampling Method : IS: 11255
 Instrument Used : Stack Monitoring Kit

Details of Stack

Material of Construction : M.S.
 Stack Attached to : Kiln/Raw Mill Unit-1
 Stack Height (m) : 100
 Stack Top : Circular
 Inside Diameter of Stack (m) : 4.75
 (at sampling point)
 Cross Sectional Area of Duct/Stack (m²) : 17.71
 Ambient Air (°C) : 25.0
 Flue Gas Temperature (°C) : 86.0
 Exit Velocity of Gas (m/sec.) : 13.45
 Flow Rate (Nm³/ sec.) : 238.19
 APCD if any : Bag House

Sl.No.	Tests Conducted	Method	<u>Pollutant</u> <u>Concentration in</u> <u>(At 10% O₂)</u>
1.	Particulate Matter (PM)mg/Nm ³	IS 11255:Part 1:1985(Reaffirmed Year : 2019)	25.80
2.	Sulphur Dioxide (SO ₂) mg/Nm ³	IS 11255:Part 2:1985 (Reaffirmed Year : 2019)	14.38
3.	Nitrogen Oxides (NO _x) mg/Nm ³	IS 11255:Part 7:2005 (Reaffirmed Year : 2017)	526.30

*The results are related only to item tested.

Verified By


 Technical Manager

Authorized By


 Quality Manager

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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack2/818/12/21

TEST REPORT ISSUE DATE:05.01.2022

TEST REPORT OF STACK EMISSIONS*

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 28.12.2021
Sample Collected by : Mr. Anish Singh & Mr. Manoj Gupta
Source of Emission : Raw Mill Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit

Details of Stack

Material of Construction : M.S.
Stack Attached to : Kiln/Raw Mill Unit-2
Stack Height (m) : 100
Stack Top : Circular
Inside Diameter of Stack (m) : 4.75
(at sampling point)
Cross Sectional Area of Duct/Stack (m²) : 17.71
Ambient Air (°C) : 25.50
Flue Gas Temperature (°C) : 84.0
Exit Velocity of Gas (m/sec.) : 15.94
Flow Rate (Nm³/ sec.) : 282.29
APCD if any : Bag House

Sl.No.	Tests Conducted	Method	Pollutant Concentration in (At 10% O ₂)
1.	Particulate Matter (PM)mg/Nm ³	IS 11255:Part 1:1985(Reaffirmed Year : 2019)	27.58
2.	Sulphur Dioxide (SO ₂) mg/Nm ³	IS 11255:Part 2:1985 (Reaffirmed Year : 2019)	16.34
3.	Nitrogen Oxides (NO _x) mg/Nm ³	IS 11255:Part 7:2005 (Reaffirmed Year : 2017)	532.58

*The results are related only to item tested.

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Quality Manager

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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack3/818/12/21

TEST REPORT ISSUE DATE:05.01.2022

TEST REPORT OF STACK EMISSIONS*

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 29.12.2021
Sample Collected by : Mr.Anish Singh & Mr.Manoj Gupta
Source of Emission : Coal Mill Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit

Details of Stack

Material of Construction : M.S.
Stack Attached to : Coal Mill Unit-1
Stack Height (m) : 65.0
Stack Top : Circular
Inside Diameter of Stack (m) : 2.24
(at sampling point)
Cross Sectional Area of Duct/Stack (m²) : 3.94
Ambient Air (°C) : 26.0
Flue Gas Temperature (°C) : 96.0
Exit Velocity of Gas (m/sec.) : 12.15
Flow Rate (Nm³/ sec.) : 47.871
APCD if any : Bag House

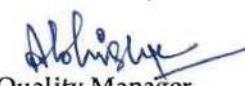
Sl. No.	Tests Conducted	Method	Pollutant Concentration
1. N	Particulate Matter (PM)mg/Nm ³	IS 11255:Part 1:1985(Reaffirmed Year : 2019)	22.86

ote:- *The results are related only to tested item.

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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack4/818/12/21
TEST REPORT ISSUE DATE:05.01.2022**TEST REPORT OF STACK EMISSIONS***

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 29.12.2021
Sample Collected by : Mr. Anish Singh & Mr. Manoj Gupta
Source of Emission : Coal Mill Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit

Details of Stack

Material of Construction : M.S.
Stack Attached to : Coal Mill Unit-2
Stack Height (m) : 65.0
Stack Top : Circular
Inside Diameter of Stack (m) : 2.24
(at sampling point)
Cross Sectional Area of Duct/Stack (m²) : 3.94
Ambient Air (°C) : 25.0
Flue Gas Temperature (°C) : 86.0
Exit Velocity of Gas (m/sec.) : 16.58
Flow Rate (Nm³/ sec.) : 65.32
APCD if any : Bag House

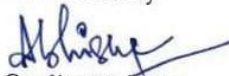
Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM)mg/Nm ³	IS 11255:Part 1:1985(Reaffirmed Year : 2019)	19.05

Note:- *The results are related only to tested item.

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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack5/818/12/21

TEST REPORT ISSUE DATE:05.01.2022

TEST REPORT OF STACK EMISSIONS*

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 29.12.2021
Sample Collected by : Mr. Anish Singh & Mr. Manoj Gupta
Source of Emission : Cooler Stack Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit

Details of Stack

Material of Construction : M.S.
Stack Attached to : Cooler Unit-1
Stack Height (m) : 50.0
Stack Top : Circular
Inside Diameter of Stack (m) : 4.5
(at sampling point)
Cross Sectional Area of Duct/Stack (m²) : 15.89
Ambient Air (°C) : 24.5
Flue Gas Temperature (°C) : 116.0
Exit Velocity of Gas (m/sec.) : 15.77
Flow Rate (Nm³/ sec.) : 250.58
APCD if any : ESP

Sl. No.	Tests Conducted	Method	Pollutant Concentration
I.	Particulate Matter (PM)mg/Nm ³	IS 11255:Part 1:1985(Reaffirmed Year : 2019)	25.98

Note:- *The results are related only to tested item.

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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack6/818/12/21

TEST REPORT ISSUE DATE:05.01.2022

TEST REPORT OF STACK EMISSIONS*

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 29.12.2021
Sample Collected by : Mr.Anish Singh & Mr.Manoj Gupta
Source of Emission : Cooler Stack Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit

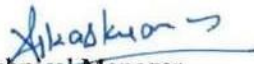
Details of Stack

Material of Construction : M.S.
Stack Attached to : Cooler Unit-2
Stack Height (m) : 50.0
Stack Top : Circular
Inside Diameter of Stack (m) : 4.5
(at sampling point)
Cross Sectional Area of Duct/Stack (m²) : 15.89
Ambient Air (°C) : 25.6
Flue Gas Temperature (°C) : 123.0
Exit Velocity of Gas (m/sec.) : 17.32
Flow Rate (Nm³/ sec.) : 275.21
APCD if any : ESP

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM)mg/Nm ³	IS 11255:Part 1:1985(Reaffirmed Year : 2019)	23.62

Note-*The results are related only to item tested.

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FORMAT NO. ECO/QS/FORMAT/12 TEST REPORT NO: ECO LAB/Stack7/818/12/21
TEST REPORT ISSUE DATE:05.01.2022**TEST REPORT OF STACK EMISSIONS***

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 29.12.2021
Sample Collected by : Mr. Anish Singh & Mr. Manoj Gupta
Source of Emission : Cement Mill Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit

Details of Stack

Material of Construction : M.S.
Stack Attached to : Cement Mill-1 (Unit II)
Stack Height (m) : 49.0
Stack Top : Circular
Inside Diameter of Stack (m) : 1.0
(at sampling point)
Cross Sectional Area of Duct/Stack (m²) : 0.785
Ambient Air (°C) : 24.8
Flue Gas Temperature (°C) : 93.0
Exit Velocity of Gas (m/sec.) : 12.64
Flow Rate (Nm³/ sec.) : 9.92
APCD if any : Bag House

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM)mg/Nm ³	IS 11255:Part 1:1985(Reaffirmed Year : 2019)	19.53

Note-*The results are related only to item tested.

Verified By


Technical Manager

Authorized By


Quality Manager

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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack8/818/12/21

TEST REPORT ISSUE DATE:05.01.2022

TEST REPORT OF STACK EMISSIONS*

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 28.12.2021
Sample Collected by : Mr.Anish Singh & Mr.Manoj Gupta
Source of Emission : Cement Mill Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit


Details of Stack

Material of Construction : M.S.
Stack Attached to : Cement Mill-2 (Unit II)
Stack Height (m) : 49.0
Stack Top : Circular
Inside Diameter of Stack (m) : 1.0
(at sampling point)
Cross Sectional Area of Duct/Stack (m²) : 0.785
Ambient Air (°C) : 24.70
Flue Gas Temperature (°C) : 84.0
Exit Velocity of Gas (m/sec.) : 7.22
Flow Rate (Nm³/ sec.) : 5.66
APCD if any : Bag House

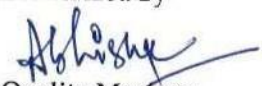
Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) mg/Nm ³	IS 11255:Part 1:1985(Reaffirmed Year : 2019)	18.12

Note-*The results are related only to item tested.

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Technical Manager

Authorized By


Quality Manager

--End of the Report--

Ecomen Laboratories Pvt. Ltd.
Second Floor Hall, House No. B-1/8,
Sector-H, Aliganj, Lucknow - 226 024

ECOMEN LABORATORIES PVT. LTD.

Second Floor Hall, House No. B-1/8, Sector-H, Aliganj, Lucknow - 226 024

Phone No. : 0522 - 4079201/2746282

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LABORATORIES PVT LTD.E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1

An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/12 TEST REPORT NO: ECO LAB/Stack9/818/12/21
TEST REPORT ISSUE DATE:05.01.2022**TEST REPORT OF STACK EMISSIONS***

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 28.12.2021
Sample Collected by : Mr.Anish Singh & Mr.Manoj Gupta
Source of Emission : Cement Mill Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit

Details of Stack

Material of Construction : M.S.
Stack Attached to : Cement Mill -2 (Unit -I)
Stack Height (m) : 36.0
Stack Top : Circular
Inside Diameter of Stack (m) : 0.96
(at sampling point)
Cross Sectional Area of Duct/Stack (m²) : 0.72
Ambient Air (°C) : 25.0
Flue Gas Temperature (°C) : 88.0
Exit Velocity of Gas (m/sec.) : 7.92
Flow Rate (Nm³/ sec.) : 5.70
APCD if any : Bag House

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM)mg/Nm ³	IS 11255:Part 1:1985(Reaffirmed Year : 2019)	26.4

Note-*The results are related only to item tested.

Verified By


Technical Manager

Authorized By


Quality Manager

--End of the Report--

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E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1**ecoMen**
LABORATORIES PVT LTD.

An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack10/818/132/21

TEST REPORT ISSUE DATE:05.01.2022

TEST REPORT OF STACK EMISSIONS*

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 28.12.2021
Sample Collected by : Mr. Anish Singh & Mr. Manoj Gupta
Source of Emission : Cement Mill Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit

Details of Stack

Material of Construction : M.S.
Stack Attached to : Cement Mill -1 (Unit -I)
Stack Height (m) : 36.0
Stack Top : Circular
Inside Diameter of Stack (m) : 0.96
(at sampling point)
Cross Sectional Area of Duct/Stack (m²) : 0.72
Ambient Air (°C) : 25.5
Flue Gas Temperature (°C) : 84.0
Exit Velocity of Gas (m/sec.) : 8.38
Flow Rate (Nm³/ sec.) : 6.03
APCD if any : Bag House


Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM)mg/Nm ³	IS 11255:Part 1:1985(Reaffirmed Year : 2019)	17.93

Note-*The results are related only to item tested.

Verified By


Technical Manager

Authorized By


Quality Manager
Ecomen Laboratories Pvt. Ltd.
Second Floor Hall, House No. B-1/8,
Sector-H, Aliganj, Lucknow-226 024

--End of the Report--

UNIT - I

DISPLAY OF INFORMATION RELATED TO AIR, WATER AND HAZARDOUS WASTE GENERATION

NAME OF THE INDUSTRY/FACILITY WITH CONTACT DETAILS (AS PER THE CONSENT TO ESTABLISH/OPERATE) **RECK JOHNSON LIMITED**

DATE OF UPDATE OF DISPLAY **05.04.2022**

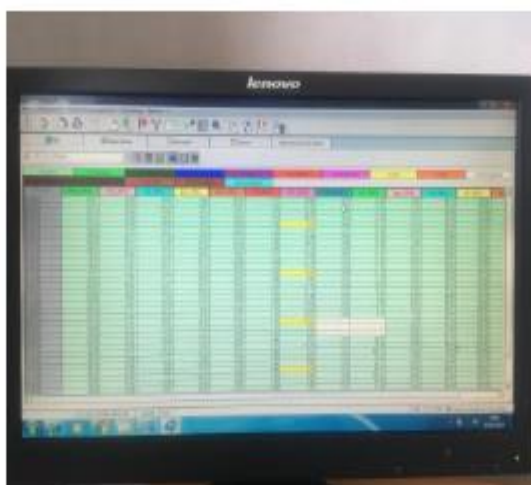
DETAILS OF UPSTREAM CONSENT TO OPERATE AND AUTHORIZATION WITH VALIDITY- CAT. VALUITY-30.04.2028 HW AUTHORIZATION VALUITY-30.04.2028

DETAILS OF OPERATIONAL STATUS: OPERATIONAL / NON-OPERATIONAL

S.NO	PRODUCTS MANUFACTURED (INCLUDING RECYCLING UTILIZATION)	DETAILS OF HAZARDOUS CHEMICALS USED WITH QUANTITY AND PURPOSE	TYPE OF HW GENERATED WITH CATEGORY AS PER HWM RULES 2016	QUANTITY OF HW GENERATED STORED AND DISPOSED (IN TONNES) (770,512,117 W.O.S.HA)	MODE OF TREATMENT AND DISPOSAL (PREPROCESSING/CO-PROCESSING RECYCLING/UTILIZING/REUSE/SL/INCINERATOR ETC)
1	COKE	COKE	HW	NIL	NIL
2	COKE	COKE	HW	NIL	NIL
3	COKE	COKE	HW	NIL	NIL
4	COKE	COKE	HW	NIL	NIL
5	COKE	COKE	HW	NIL	NIL
6	COKE	COKE	HW	NIL	NIL
7	COKE	COKE	HW	NIL	NIL
8	COKE	COKE	HW	NIL	NIL
9	COKE	COKE	HW	NIL	NIL
10	COKE	COKE	HW	NIL	NIL
11	COKE	COKE	HW	NIL	NIL
12	COKE	COKE	HW	NIL	NIL
13	COKE	COKE	HW	NIL	NIL
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20	COKE	COKE	HW	NIL	NIL
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94	COKE	COKE	HW	NIL	NIL
95	COKE	COKE	HW	NIL	NIL
96	COKE	COKE	HW	NIL	NIL
97	COKE	COKE	HW	NIL	NIL
98	COKE	COKE	HW	NIL	NIL
99	COKE	COKE	HW	NIL	NIL
100	COKE	COKE	HW	NIL	NIL

DETAILS OF OPERATIONAL STATUS: OPERATIONAL / NON-OPERATIONAL

Display showing Hazardous Waste Details



Desktop showing AAQMS Monitoring data



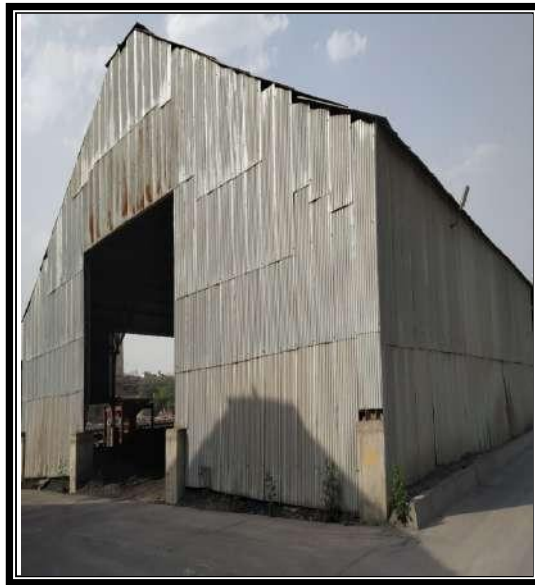
Continuous Emission Monitoring System Panel



Continuous Emission Monitoring System



LED Display of emission parameters at Main Gate of premises



Covered Shed Storage Facilities



Covered Shed Storage



Covered Conveyor Belt



Covered Conveyor Belt

Plantation & Concrete roads





Water Sprinkling



Covered Conveyor Belt & Bag filters





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E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74218UP1989PTC010604, GSTIN : 09AAACE6076H1Z1

An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/AAQ1/818/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT AIR*

Name of the Company : M/s Prism Johnson Ltd.
 Address of the Company : Village Mankahari
 Tehsil Rampur Baghelan
 District Satna (M.P.)
 Sample Collected by : Mr. Anish Singh & Manoj Gupta
 Sampling Method : IS: 5182
 Date of Monitoring : 28.12.2021
 Date of Testing : 01.01.2022 to 05.01.2022
 Environmental Condition : Temp (°C) 24, Humidity (%) 70,
 Weather Condition – Partially Cloudy
 Instrument Name & Lab ID : ECO/HO/FDS/02 & ECO/HO/RDS/02

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			28.12.2021	28.12.2021	28.12.2021	28.12.2021	
1	Particulate Matter (PM _{2.5}) (µg/m ³)	IS 5182 : Part 24 : 2019	23.41	25.50	27.69	28.18	60
2	Particulate Matter (PM ₁₀) (µg/m ³)	IS 5182 : Part 23 : 2006(Reaffirmed Year : 2017)	55.81	68.38	61.59	56.36	100
3	Sulphur Dioxide (SO ₂) (µg/m ³)	IS 5182:Part 2:2001(Reaffirmed Year:2017)	10.43	9.34	10.16	9.87	80
4	Oxides of Nitrogen (NO _x) (µg/m ³)	IS 5182:Part 6:2006(Reaffirmed Year:2017)	11.75	13.12	15.45	13.21	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.31	0.58	0.45	0.49	02

Note- *The results are related only to item tested.

L1= Near PCL Colony L2=Near Guest House,
 L3= Near Crusher Unit-II L4= Near Admin. Building

Standards:

Ambient Air Quality Standard for Residual, Industrial, Rural & Other Area based on 24 hours sampling except Ozone.

Verified By


 Technical Manager

Authorized By


 Quality Manager
 Ecomen Laboratories Pvt. Ltd.
 Second Floor Hall, House No. B-1/8,
 Sector-H, Aliganj, Lucknow-226024

---End of Report---

FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ2/818/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT AIR

Name of the Company : M/s Prism Johnson Ltd.
 Address of the Company : Village Mankahari
 Tehsil Rampur Baghelan
 District Satna (M.P.)
 Sample Collected by : Mr. Anish Singh & Manoj Gupta
 Sampling Method : IS: 5182
 Date of Monitoring : 28.12.2021
 Date of Testing : 01.01.2022 to 05.01.2022
 Environmental Condition : Temp ($^{\circ}$ C) 24, Humidity (%) 69,
 Weather Condition – Partially Cloudy
 Instrument Name & Lab ID : ECO/HO/FDS/03 & ECO/HO/RDS/03

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			28.12.2021	28.12.2021	28.12.2021	28.12.2021	
1	Particulate Matter (PM _{2.5}) (μ g/m ³)	IS 5182 : Part 24 : 2019	36.38	34.05	26.56	25.13	60
2	Particulate Matter (PM ₁₀) (μ g/m ³)	IS 5182 : Part 23 : 2006(Reaffirmed Year : 2017)	67.60	58.72	48.32	41.63	100
3	Sulphur Dioxide (SO ₂) (μ g/m ³)	IS 5182:Part 2:2001(Reaffirmed Year:2017)	8.84	9.41	13.14	11.13	80
4	Oxides of Nitrogen (NO _x) (μ g/m ³)	IS 5182:Part 6:2006(Reaffirmed Year:2017)	11.45	11.29	11.47	13.96	80
5	CO (mg/m3)	IS:5182 (Part-10)	0.55	0.38	0.39	0.28	02

Note-*The results are related only to item tested.

L1= Nr Mines Site Office
 L3= Hinauti Village

L2= Near Western Block Garden,
 L4= Sijahata Village

Standards:

Ambient Air Quality Standard for Residual, Industrial, Rural & Other Area based on 24 hours sampling except Ozone.

Verified By


 Technical Manager

Authorized By


 Quality Manager

----End of Report----

Ecomen Laboratories Pvt. Ltd.
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FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ3/818/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT AIR

Name of the Company : M/s Prism Johnson Ltd.
 Address of the Company : Village Mankahari
 Tehsil Rampur Baghelan
 District Satna (M.P.)
 Sample Collected by : Mr. Anish Singh & Manoj Gupta
 Sampling Method : IS: 5182
 Date of Monitoring : 29.12.2021
 Date of Testing : 01.01.2022 to 05.01.2022
 Environmental Condition : Temp ($^{\circ}$ C) 26, Humidity (%) 69,
 Weather Condition – Partially Cloudy ,
 Instrument Name & Lab ID : ECO/HO/FDS/02 & ECO/HO/RDS/02

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			29.12.2021	29.12.2021	29.12.2021	29.12.2021	
1	Particulate Matter (PM _{2.5}) (μ g/m ³)	IS 5182 : Part 24 : 2019	26.29	30.41	33.89	34.91	60
2	Particulate Matter (PM ₁₀) (μ g/m ³)	IS 5182 : Part 23 : 2006(Reaffirmed Year : 2017)	46.48	53.33	50.96	51.60	100
3	Sulphur Dioxide (SO ₂) (μ g/m ³)	IS 5182:Part 2:2001(Reaffirmed Year:2017)	10.09	12.06	12.96	10.85	80
4	Oxides of Nitrogen (NOx) (μ g/m ³)	IS 5182:Part 6:2006(Reaffirmed Year:2017)	12.07	13.27	14.46	15.04	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.39	0.30	0.49	0.47	02

Note-*The results are related only to item tested.

L1= Adiwasia Tola (Nr Bagahai ML Area)

L2= At Baisan Tola (Nr. Bagahai ML Area),

L3=South Side of Working Pit (Bagahai Mines)

L4= Near Boundary Pillar No.64 Bagahai

Standards:

Ambient Air Quality Standard for Residual, Industrial, Rural & Other Area based on 24 hours sampling except Ozone.

... Verified By


 Technical Manager

Authorized By


 Quality Manager

----End of Report----

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An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ/818/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF WORK PLACE AIR MONITORING

Name of the Company : M/s Prism Johnson Ltd.
 Address of the Company : Village Mankahari
 Tehsil Rampur Baghelan
 District Satna (M.P.)
 Sample Collected by : Mr. Anish Singh & Manoj Gupta
 Sampling Method : IS: 5182
 Date of Monitoring : 29.12.2021
 Date of Testing : 01.01.2022 to 05.01.2022
 Environmental Condition : Temp (⁰C) 25, Humidity (%) 68
 Weather Condition – Partially Cloudy ,
 Instrument Name & Lab ID : ECO/HO/FDS/03 & ECO/HO/RDS/03

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			29.12.2021	29.12.2021	29.12.2021	29.12.2021	
1	Particulate Matter (PM _{2.5}) (µg/m ³)	IS 5182 : Part 24 : 2019	49.32	41.28	45.13	42.14	60
2	Particulate Matter (PM ₁₀) (µg/m ³)	IS 5182 : Part 23 : 2006(Reaffirmed Year : 2017)	73.28	76.29	77.58	75.70	100
3	Sulphur Dioxide (SO ₂) (µg/m ³)	IS 5182:Part 2:2001(Reaffirmed Year:2017)	15.06	11.38	11.89	11.95	80
4	Oxides of Nitrogen (NO _x) (µg/m ³)	IS 5182:Part 6:2006(Reaffirmed Year:2017)	16.90	14.42	19.91	15.19	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.50	0.45	0.57	0.53	02

Note:-*The results are related only to item tested.L1= Near Cement Mill Unit -II
L3= Near Packing PlantL2= Near Railway Yard,
L4= Kiln Unit-II**Standards:**

Ambient Air Quality Standard for Residual, Industrial, Rural & Other Area based on 24 hours sampling except Ozone.

Verified By


 Technical Manager

Authorized By


 Quality Manager
 Ecomen Laboratories Pvt. Ltd.
 Second Floor Hall, House No. B-1/8,
 Sector-H, Aliganj, Lucknow - 226 024

---End of Report---

ECOMEN LABORATORIES PVT. LTD.

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An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ5/818/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT AIR

Name of the Company : M/s Prism Johnson Ltd.
 Address of the Company : Village Mankahari
 Tehsil Rampur Baghelan
 District Satna (M.P.)
 Sample Collected by : Mr. Anish Singh & Manoj Gupta
 Sampling Method : IS: 5182
 Date of Monitoring : 29.12.2021
 Date of Testing : 01.01.2022 to 05.01.2022
 Environmental Condition : Temp ($^{\circ}$ C) 28, Humidity (%) 73
 Weather Condition – Partially Cloudy
 Instrument Name & Lab ID : ECO/HO/FDS/02 & ECO/HO/RDS/02

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			30.12.2021	30.12.2021	30.12.2021	30.12.2021	
1	Particulate Matter (PM _{2.5}) (μ g/m ³)	IS 5182 : Part 24 : 2019	29.45	30.48	31.78	28.61	60
2	Particulate Matter (PM ₁₀) (μ g/m ³)	IS 5182 : Part 23 : 2006(Reaffirmed Year : 2017)	56.13	69.72	59.17	51.38	100
3	Sulphur Dioxide (SO ₂) (μ g/m ³)	IS 5182:Part 2:2001(Reaffirmed Year:2017)	9.80	11.49	13.12	13.21	80
4	Oxides of Nitrogen (NO _x) (μ g/m ³)	IS 5182:Part 6:2006(Reaffirmed Year:2017)	13.45	14.05	18.49	17.16	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.47	0.46	0.43	0.44	02

Note- *The results are related only to item tested.

L1=Nr. Nar Nala Bridge, L2= Nr. Medhi Mines Boundary Pillar No 28

L3=Nr. Medhi Mines Boundary Pillar No.23 L4= Malgaon Village

Standards:

Ambient Air Quality Standard for Residual, Industrial, Rural & Other Area based on 24 hours sampling except Ozone.

Verified By


 Technical Manager

Authorized By


 Quality Manager

---End of Report---

 Ecomen Laboratories Pvt. Ltd.
 Second Floor Hall, House No. B-1/8,
 Sector-H, Aliganj, Lucknow-226024

ECOMEN LABORATORIES PVT. LTD.

Second Floor Hall, House No. B-1/8, Sector-H, Aliganj, Lucknow - 226 024

Phone No. : 0522 - 4079201/2746282

E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1

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LABORATORIES PVT LTD.

An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ6/818/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT AIR

Name of the Customer : M/s Prism Johnson Ltd.
 Address of the Customer : Village Mankahari
 Tehsil Rampur Baghelan
 District Satna (M.P.)
 Sample Collected by : Mr. Anish Singh & Manoj Gupta
 Sampling Method : IS: 5182
 Date of Monitoring : 29.12.2021
 Date of Testing : 01.01.2022 to 05.01.2022
 Environmental Condition : Temp (^oC) 28, Humidity (%) 73
 Weather Condition – Partially Cloudy
 Instrument Name & Lab ID : ECO/HO/FDS/03 & ECO/HO/RDS/03

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			30.12.2021	30.12.2021	30.12.2021	30.12.2021	
1	Particulate Matter (PM _{2.5}) (µg/m ³)	IS 5182 : Part 24 : 2019	28.45	29.12	26.29	29.30	60
2	Particulate Matter (PM ₁₀) (µg/m ³)	IS 5182 : Part 23 : 2006(Reaffirmed Year : 2017)	44.18	52.62	48.06	56.42	100
3	Sulphur Dioxide (SO ₂) (µg/m ³)	IS 5182:Part 2:2001(Reaffirmed Year:2017)	9.74	10.07	12.57	11.89	80
4	Oxides of Nitrogen (NO _x) (µg/m ³)	IS 5182:Part 6:2006(Reaffirmed Year:2017)	12.86	16.63	15.57	16.87	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.32	0.45	0.98	0.38	02

Note:-*The results are related only to item tested.

L1= Badarkha Village L2= Hinauta Village

L3= Chulhi Village L4= Kulhari Village

Standards:

Ambient Air Quality Standard for Residual, Industrial, Rural & Other Area based on 24 hours sampling except Ozone.

Verified By

Technical Manager

Authorized By

Quality Manager

Ecomen Laboratories Pvt. Ltd.
Second Floor Hall, House No. B-1/8,
Sector-H, Aliganj, Lucknow-226024

---End of Report---



LATA ENVIROTECH SERVICES - CENTRE FOR CALIBRATION LABORATORY

(A Division of Lata Envirotech Services)

K-307, UPSIDC Industrial Area, Site-5, Kasna, Greater Noida, Gautam Budh Nagar-201310 (U.P.)
E-mail : lescccl307@gmail.com, lescccllab@gmail.com, Cell No. 9821735177, 9821735178, 9355384939

Website : www.lescccllab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001929F	Calib. Field - Fluid Flow	Page 1 of 2
Certificate No.	LES-CCL/FF/PM/SC/1075		
Calibration Date	22.06.2021	Suggested Date of Next Calibration	21.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahar, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No. -	2021/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in instrument

Name	Make	Model	ID.No.
Fine Particulate Sampler	THERMO	TEI - 121	216 - TEF - 21

02. Details of DUC

Name	Dry Gas Meter	Environmental Conditions During Calibration	
Make/Model	Honeywell	Temperature (°C)	25 ± 10
SI.No.	1807079405	Relative Humidity (%)	45-75
Cal. Range	16.67 lpm (±5%)	Barometric Pressure (mmHg)	738.40

03. Standard Equipment used for calibration

SI.No.	Standard Equipment Name	Range	SI.No. / ID.No.	Traceability
1	Gas Flow Calibrator	0.5 -50 lpm	3319 / LES-CCL/R/4902	LES - CCL, Gr. Noida
2	Digital Stop Watch	10 Sec. - 59 min	LES-CCL/R/14510	LES - CCL, Gr. Noida
SI.No.	Certificate No.	Calibration Date	Valid Up to	
1	LES-CCL/FF/RF/2216	28.07.2020	27.07.2021	
2	LES-CCL/ET/SW/404	28.09.2020	27.09.2021	

04. Calibration Procedure :- LES-CCL/WII/31/FF/SC/07

Remark : 1. Refer page 2 of 2 for Calibration Results

2. The Flowrate has been Referenced to standard Temperature (20 °C) and Pressure (760 mmHg Absolute) Condition.

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
- Results reported are valid at the time of and under the stated conditions of measurement
- This Certificate refers only to the particular item calibrated.
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Authorized By

SHIVSHANKER SINGH
(Chief Executive Officer)





LES-Centre for Calibration Laboratory



ULR No.	CC225321000001929F		Page 2 of 2
Calibration Date	22.06.2021	Suggested Date of Next Calibration	21.06.2022
Certificate No.	LES-CCL/FF/PM/SC/1075		

05. Calibration Results for Flow of Dry Gas Meter

S.No.	Test meter (DUC) Measured Flow (lpm)	Reference True flow rate (lpm)	Error (%)
1	16.72	16.678	0.252
2	16.71	16.614	0.578
3	16.79	16.644	0.877
4	16.77	16.625	0.872
5	16.73	16.674	0.336

Type A standard Uncertainty
for repeated data (1-5)

± 0.0121 lpm

Expanded uncertainty in Actual flow
measurement, U (k=2)

± 0.9030 lpm ± 5.72 % Rdg

Note:- Final Readings of Dry Gas Meter at the end of Calibration: 8.3480 m³

Uncertainty Contributing factor :-

1. Repeatability (based on five measurement)
2. Uncertainty of master instruments
3. Uncertainty due to resolution of DUC

The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$,
for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

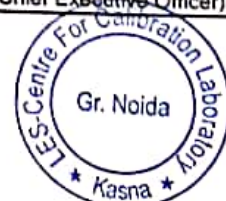
Calibration Place:- Calibration done at M/s Thermo Environmental Instruments in workshop at Okhla Industrial Area, Phase - II, New Delhi

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
3. This Certificate refers only to the particular item calibrated.
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E-mail : lescc1307@gmail.com, lescc1lab@gmail.com, Cell No. 9821735177, 9821735178, 9355384939

Website : www.lescc1lab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001930F	Calib. Field - Electro-Technical	Page 1 of 1
Certificate No.	LES-CCL/ET/TT/2419		
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahar, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :-	S.R.F No.: - 2021/1211	Date: - 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in instrument

Name	Make	Model	Sl. No.
Fine Particulate Sampler	THERMO	TEI - 121	216 - TEF - 21

02. Details of (DUC)

Name	Time Totalizer	Environmental Conditions During Calibration	
Sl.No.	T - 216	Temperature (°C)	25 ± 3
		Relative Humidity (%)	45 - 75
		B. Pressure (mmHg)	737.40

03. Standard Equipment used for calibration

Standard Equipment Name	Range	Sl.No./ID.No.	Traceability
Digital Automatic Timer	10 Sec - 4 hrs	LES-CCL/R/2507	Modtech Creative Labs Pvt. Ltd. Gurgaon (Haryana)
Calibration Certificate No.		Calibration Date	Valid Up to
21000008968		14 to 15.02.2021	14.02.2022

04. Calibration Procedure LES-CCL/WI/31/ET/01

05. Calibration Results :

DUC has been calibrated for following Parameter (S) ranges (S)

S.No.	Displayed Value on DUC Hrs(Min)	Reference Time (Min)	Error (%)	Expanded Uncertainty at 95 % of Confidence level (k = 2) (%)
1	0.25 (15.0 Min) (Final Readings of TTR at the end of Calibration: 33.40 hrs)	15.0086	-0.06	± 2.316 %

Uncertainty Contributing Factor :-

1. Repeatability (based on five measurement)
2. Uncertainty of master instruments
3. Uncertainty due to resolution of DUC

The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$, for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
3. This Certificate refers only to the particular item calibrated
4. This certificate shall not be reproduced, except in full without the written permission of LES-CCL Kasna, Greater Noida (U.P.)

Authorized By

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(Chief Executive Officer)





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Website : www.lescc1lab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001931F	Calb. Field - Fluid Flow	Page 1 of 2
Certificate No.	LES-CCL/FF/PM/SC/1076		
Calibration Date	22.06.2021	Suggested Date of Next Calibration	21.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No. -	2021/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in Instrument

Name	Make	Model	ID.No.
Fine Particulate Sampler	THERMO	TEI - 121	217 - TEF - 21

02. Details of DUC

Name	Dry Gas Meter	Environmental Conditions During Calibration	
Make/Model	Honeywell	Temperature (°C)	25 ± 10
SI.No.	1807079685	Relative Humidity (%)	45-75
Cal. Range	16.67 lpm (±5%)	Barometric Pressure (mmHg)	738.40

03. Standard Equipment used for calibration

SI.No.	Standard Equipment Name	Range	SI.No. / ID.No.	Traceability
1	Gas Flow Calibrator	0.5 -50 lpm	3319 / LES-CCL/R/4902	LES - CCL, Gr. Noida
2	Digital Stop Watch	10 Sec. - 59 min	LES-CCL/R/14510	LES - CCL, Gr. Noida
SI.No.	Certificate No.	Calibration Date	Valid Up to	
1	LES-CCL/FF/RF/2216	28.07.2020	27.07.2021	
2	LES-CCL/ET/SW/404	28.09.2020	27.09.2021	

04. Calibration Procedure :- LES-CCL/WI/31/FF/SC/07

Remark : 1. Refer page 2 of 2 for Calibration Results

2. The Flowrate has been Referenced to standard Temperature (20 °C) and Pressure (760 mmHg Absolute) Condition.

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
- Results reported are valid at the time of and under the stated conditions of measurement
- This Certificate refers only to the particular item calibrated.
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LES-Centre for Calibration Laboratory



ULR No.	CC225321000001931F		Page 2 of 2
Calibration Date	22.06.2021	Suggested Date of Next Calibration	21.06.2022
Certificate No.	LES-CCL/FF/PM/SC/1076		

05. Calibration Results for Flow of Dry Gas Meter

S.No.	Test meter (DUC) Measured Flow (lpm)	Reference True flow rate (lpm)	Error (%)
1	16.66	16.484	1.068
2	16.66	16.456	1.240
3	16.63	16.473	0.953
4	16.71	16.440	1.642
5	16.72	16.480	1.456

Type A standard Uncertainty

for repeated data (1-5)

± 0.0078

lpm

Expanded uncertainty in Actual flow
measurement, U ($k=2$)

± 0.8932

lpm

$\pm 5.72 \% \text{ Rdg}$

Note:- Final Readings of Dry Gas Meter at the end of Calibration: 12.3750 m³

Uncertainty Contributing factor :-

1. Repeatability (based on five measurement)
2. Uncertainty of master instruments
3. Uncertainty due to resolution of DUC

The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$,
for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Calibration Place:- Calibration done at M/s Thermo Environmental Instruments in workshop at Okhla Industrial Area, Phase - II, New Delhi

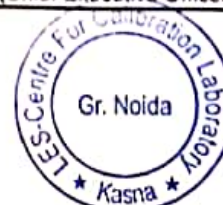
Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
3. This Certificate refers only to the particular item calibrated.
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Website : www.lescc1lab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001932F	Calib. Field - Electro-Technical	Page 1 of 1
Certificate No.	LES-CCL/ET/TT/2420		
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Customer Name :-	M/s Prism Johnson Limited		
Address :-	(Cement Division: Unit - II) Village - Mankahari, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :-	S.R.F No. :- 2021/1211	Date :- 19.06.2021	Date of Issue :- 24.06.2021

01. DUC Fitted in instrument

Name	Make	Model	Sl. No.
Fine Particulate Sampler	THERMO	TEI - 121	217 - TEF - 21

02. Details of (DUC)

Name	Time Totalizer	Environmental Conditions During Calibration
Sl.No.	T - 217	Temperature (°C)
		Relative Humidity (%)
		B. Pressure (mmHg)
		25 ± 3
		45 - 75
		737.40

03. Standard Equipment used for calibration

Standard Equipment Name	Range	Sl.No./ID.No.	Traceability
Digital Automatic Timer	10 Sec - 4 hrs	LES-CCL/R/2507	Modtech Creative Labs Pvt. Ltd. Gurgaon (Haryana)
Calibration Certificate No.		Calibration Date	Valid Up to
21000008968		14 to 15.02.2021	14.02.2022

04. Calibration Procedure LES-CCL/WI/31/ET/01

05. Calibration Results :

DUC has been calibrated for following Parameter (S) ranges (S)

S.No.	Displayed Value on DUC Hrs(Min)	Reference Time (Min)	Error (%)	Expanded Uncertainty at 95 % of Confidence level (k = 2) (%)
1	0.25 (15.0 Min) (Final Readings of TTR at the end of Calibration: 20.60 hrs)	15.0086	-0.06	± 2.316 %

Uncertainty Contributing Factor :-

1. Repeatability (based on five measurement)
2. Uncertainty of master instruments
3. Uncertainty due to resolution of DUC

The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$, for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
3. This Certificate refers only to the particular item calibrated.
4. This certificate shall not be reproduced, except in full without the written permission of LES-CCL, Kasna, Greater Noida (U.P.)

Authorized By

Shivshanker Singh

SHIVSHANKER SINGH
(Chief Executive Officer)





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Website : www.lescc1lab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001936F	Calib. Field - Electro-Technical	Page 1 of 1
Certificate No.	LES-CCL/ET/TT/2423		
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F No. :- 2021/1211	Date :- 19.06.2021	Date of Issue :- 24.06.2021	

01. DUC Fitted in Instrument

Name	Make	Model	SI.No.
Respirable Dust Sampler	THERMO	TEI - 108 NL	229 - TEF - 21

02. Details of (DUC)

Name	Time Totalizer	Environmental Conditions During Calibration	
SI.No.	T - 229	Temperature (°C)	25 ± 3
		Relative Humidity (%)	45 - 75
		B. Pressure (mmHg)	737.40

03. Standard Equipment used for calibration

Standard Equipment Name	Range	SI.No./ID.No.	Traceability
Digital Automatic Timer	10 Sec - 4 hrs	LES-CCL/R/2507	Modtech Creative Labs Pvt. Ltd. Gurgaon (Haryana)
Calibration Certificate No.	Calibration Date	Valid Up to	
21000008968	14 to 15.02.2021	14.02.2022	

04. Calibration Procedure LES-CCL/WI/31/ET/01

05. Calibration Results :

DUC has been calibrated for following Parameter (S) ranges (S)

S.No.	Displayed Value on DUC Hrs(Min)	Reference Time (Min)	Error (%)	Expanded Uncertainty at 95 % of Confidence level (k = 2) (%)
1	0.25 (15.0 Min) (Final Readings of TTR at the end of Calibration: 20.60 hrs)	15.0086	-0.06	± 2.316 %

Uncertainty Contributing Factor :-

1. Repeatability (based on five measurement)
2. Uncertainty of master instruments
3. Uncertainty due to resolution of DUC

The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$, for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement.
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E-mail : lescccl307@gmail.com, lescccllab@gmail.com, Cell No. 9821735177, 9821735178, 9355384939
Website : www.lescccllab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001935F	Calib. Field - Fluid Flow	Page 1 of 3
Certificate No.	LES-CCL/FF/MF/SC/1107		
Calibration Date	22.06.2021	Suggested Date of Next Calibration	21.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No.	2021/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in instrument

Name	Make	Model	SI.No.
Respirable Dust Sampler	THERMO	TEI - 108 NL	229 - TEF - 21

02. Details of (DUC)

Name	Orifice Manometer Flow	Environmental Conditions During Calibration	
Make	THERMO	Temperature(°C)	25 ± 10
SI.No.	229 - TEF - 21	Relative Humidity (%)	45-75
Cal. Range	0.6 -1.4 m ³ /min	Barometric Pressure (mmHg)	738.40

03. Standard Equipment used for calibration

Standard Equipment Name	Range	SI.No./ID No.	Traceability
Top Loading Orifice Calibrator	0.6 to 1.4 m ³ /min	57/LES-CCL/R/15304	LES-CCL, Gr. Noida
Certificate No.	Call. Date	Valid Up to	
LES-CCL/FF/TLC/145	08.06.2021	07.06.2022	

04. Calibration Procedure :- LES-CCL/WI/31/FF/SC/08

Remark : 1. Refer page 2 of 3 for Calibration Results and page 3 of 3 for Calibration Curve

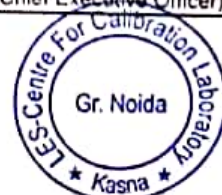
2. The Flowrate has been Referenced to standard Temperature (20 °C) and Pressure (760 mmHg Absolute) Condition.

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
- Results reported are valid at the time of and under the stated conditions of measurement
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LES-Centre for Calibration Laboratory



ULR No.	CC225321000001935F		Page 2 of 3
Calibration Date	22.06.2021	Suggested Date of Next Calibration	21.06.2022
Certificate No.	LES-CCL/FF/MF/SC/1107		

05. Calibration Results For Orifice Manometer Flow

S.No.	Test piece measured Indicated flow rate (m ³ /min)	Reference True measured flow rate in Calibration Curve (m ³ /min)	Error % (Rdg)	Expanded Uncertainty at 95 % of Confidence level (k = 2)	
				± (m ³ /min)	(% Rdg)
1	1.400	1.380	1.449	0.035	2.52
2	1.24	1.220	1.639	0.031	2.52
3	1.13	1.100	2.727	0.028	2.52
4	0.95	0.920	3.261	0.028	2.52
5	0.810	0.780	3.846	0.020	2.52

(Curve Enclosed)

Uncertainty Contributing Factors :-

- 1 Repeatability (based on five measurements)
- 2 Uncertainty of master instruments used for Flow measurement
- 3 Uncertainty of master instruments used for Temp.Measurement (Temp.& RH Indicator)
- 4 Uncertainty of master instruments used for Atm.Pressure Measurement (Barometer)
- 5 Uncertainty due to resolution of DUC

The evaluated Expanded Uncertainty in calibration at a coverage

factor k = 2 , for degrees of freedom = ∞ and C.L is 95 % for Normal distribution.

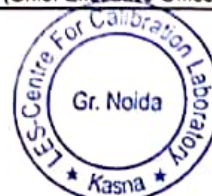
Calibration Place:- Calibration done at M/s Thermo Environmental Instruments in workshop at okhla Industrial Area, Phase - II, New Delhi

Notes :-

- 1 Reference used are directly traceable to national standard through unbroken chain of calibration .
- 2 Results reported are valid at the time of and under the stated conditions of measurement
- 3 This Certificate refers only to the particular item calibrated.
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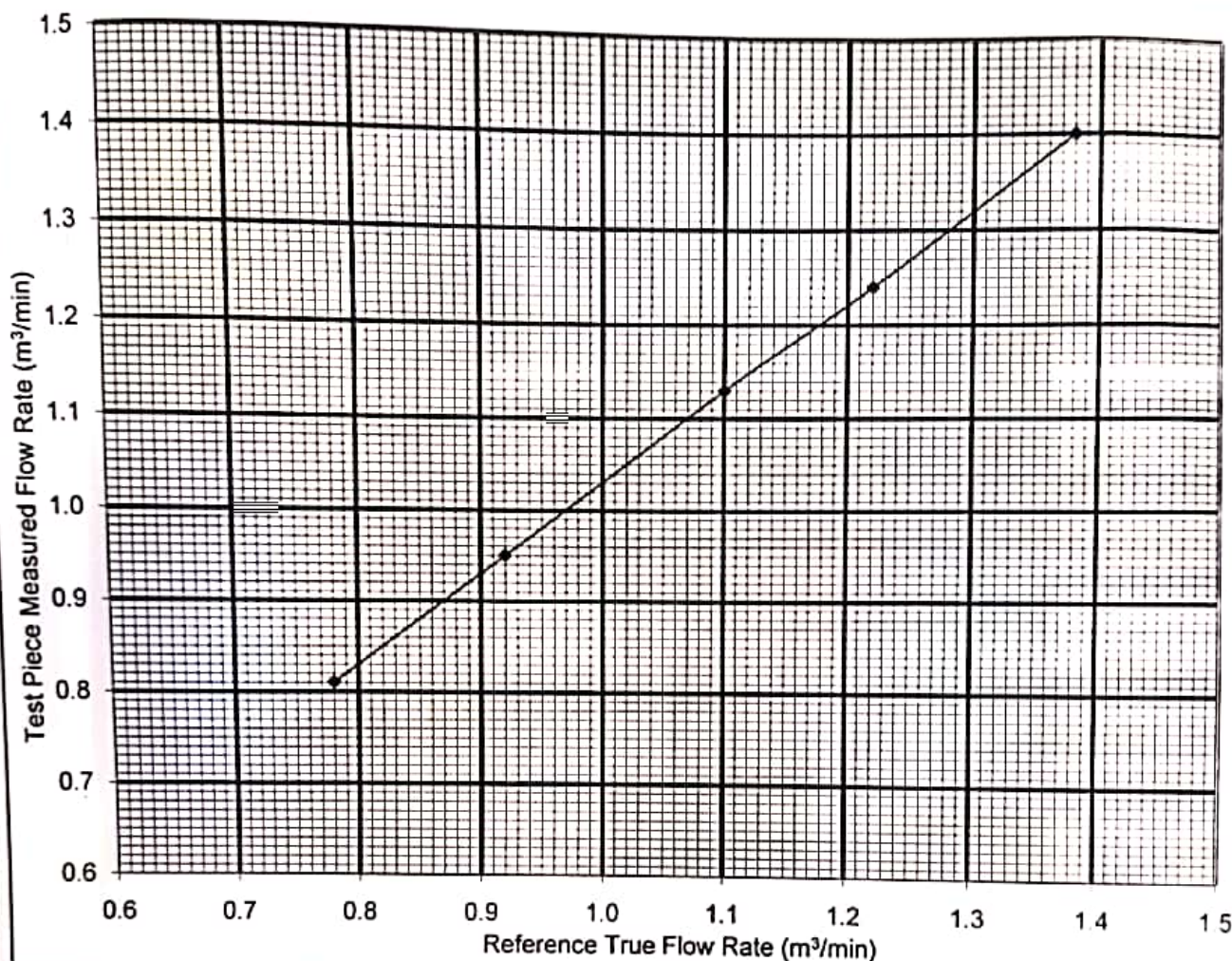


ULR No. CC225321000001935F
Date of Calibration:- 22.06.2021



CALIBRATION CURVE FOR ORIFICE MANOMETER FLOW

Page 3 of 3

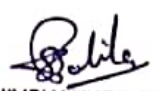


Sl.No.	Reference True Flow Rate (m³/min)	Test Piece Measured Flow Rate (m³/min)	Name of the Instrument	Respirable Dust Sampler
			SI.No. of the Instruments	229 - TEF - 21
			Name of the unit calibrated	Orifice Manometer Flow
			Name of the Party	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathia, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)
1	0.780	0.810		
2	0.920	0.95		
3	1.100	1.13		
4	1.220	1.24		
5	1.380	1.400		

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
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Website : www.lescc1lab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001933F	Calib. Field - Fluid Flow	Page 1 of 3
Certificate No.	LES-CCL/FF/MF/SC/1106		
Calibration Date	22.06.2021	Suggested Date of Next Calibration	21.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathia, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No.	2021/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in instrument

Name	Make	Model	SI.No.
Respirable Dust Sampler	THERMO	TEI - 108 NL	230 - TEF - 21

02. Details of (DUC)

Name	Orifice Manometer Flow	Environmental Conditions During Calibration	
Make	THERMO	Temperature(°C)	25 ± 10
SI.No.	230 - TEF - 21	Relative Humidity (%)	45-75
Cal. Range	0.6 - 1.4 m ³ /min	Barometric Pressure (mmHg)	738.40

03. Standard Equipment used for calibration

Standard Equipment Name	Range	SI.No./ID No.	Traceability
Top Loading Orifice Calibrator	0.6 to 1.4 m ³ /min	57/LES-CCL/R/15304	LES-CCL, Gr. Noida
Certificate No.	Call. Date	Valid Up to	
LES-CCL/FF/TLC/145	08.06.2021	07.06.2022	

04. Calibration Procedure :- LES-CCL/WI/31/FF/SC/08

Remark : 1. Refer page 2 of 3 for Calibration Results and page 3 of 3 for Calibration Curve

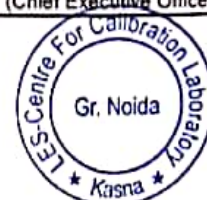
2. The Flowrate has been Referenced to standard Temperature (20 °C) and Pressure (760 mmHg Absolute) Condition.

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
- Results reported are valid at the time of and under the stated conditions of measurement
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LES-Centre for Calibration Laboratory



ULR No.	CC225321000001933F		Page 2 of 3
Calibration Date	22.06.2021	Suggested Date of Next Calibration	21.06.2022
Certificate No.	LES-CCL/FF/MF/SC/1106		

05. Calibration Results For Orifice Manometer Flow

S.No.	Test piece measured Indicated flow rate (m ³ /min)	Reference True measured flow rate In Calibration Curve (m ³ /min)	Error % (Rdg)	Expanded Uncertainty at 95 % of Confidence level (k =2)	
				± (m ³ /min)	(% Rdg)
1	1.400	1.340	4.478	0.034	2.52
2	1.26	1.230	2.439	0.031	2.52
3	1.15	1.110	3.604	0.028	2.52
4	0.94	0.930	1.075	0.028	2.52
5	0.830	0.800	3.750	0.020	2.52

(Curve Enclosed)

Uncertainty Contributing Factors :-

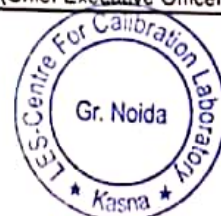
1. Repeatability (based on five measurements)
2. Uncertainty of master instruments used for Flow measurement
3. Uncertainty of master instruments used for Temp.Measurement (Temp.& RH Indicator)
4. Uncertainty of master instruments used for Atm.Pressure Measurement (Barometer)
5. Uncertainty due to resolution of DUC

The evaluated Expanded Uncertainty in calibration at a coverage

factor k = 2 , for degrees of freedom =∞ and C.L is 95 % for Normal distribution.

Calibration Place:- Calibration done at M/s Thermo Environmental Instruments in workshop at okhla Industrial Area, Phase - II, New Delhi

Notes :- 1. Reference used are directly traceable to national standard through unbroken chain of calibration . 2. Results reported are valid at the time of and under the stated conditions of measurement 3. This Certificate refers only to the particular item calibrated. 4. This certificate shall not be reproduced, except in full without the written permission of LES-CCL Kasna, Greater Noida (U.P.)	Authorized By
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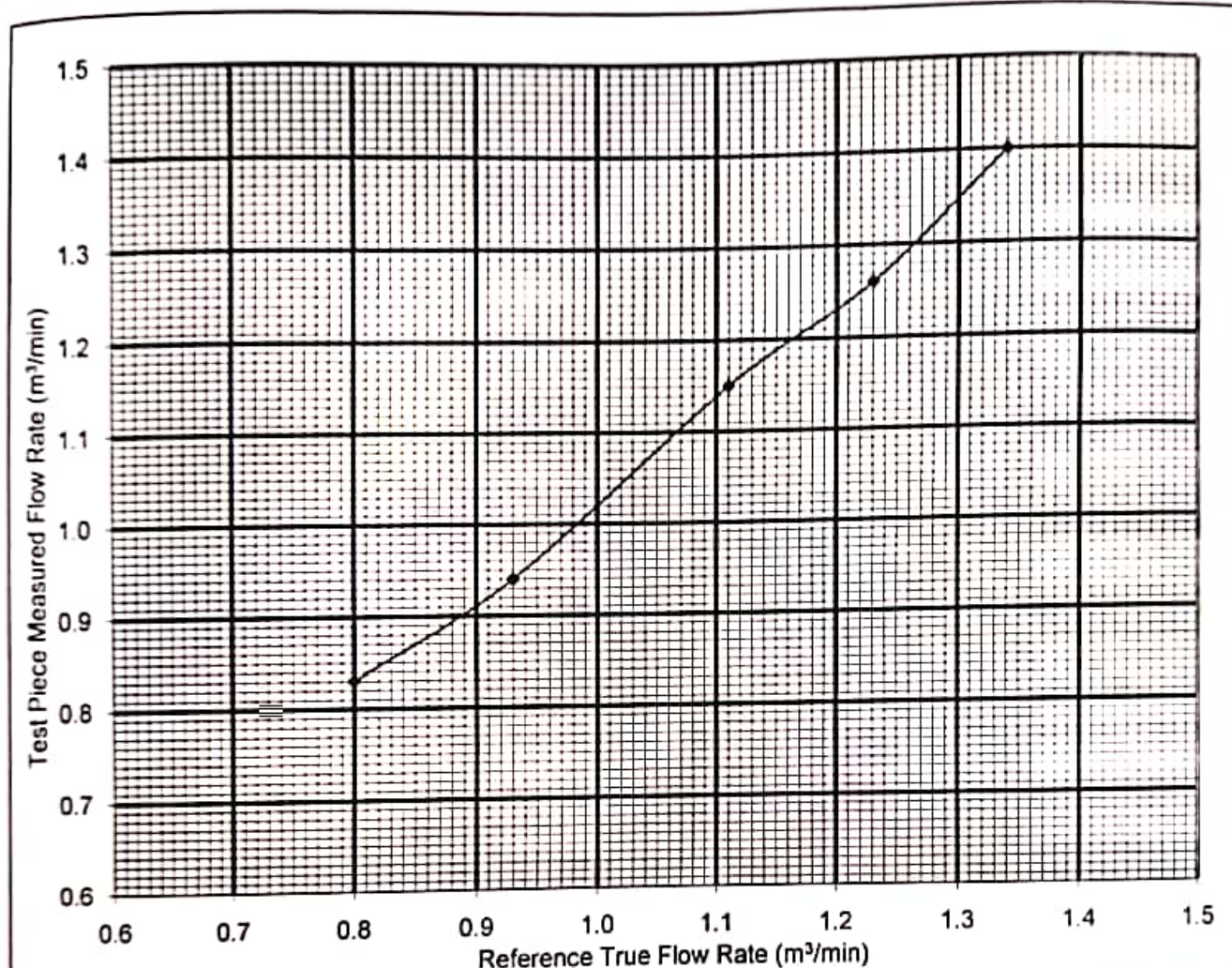
ULR No. CC225321000001933F

Date of Calibration:- 22.06.2021



CALIBRATION CURVE FOR ORIFICE MANOMETER FLOW

Page 3 of 3



Sl.No.	Reference True Flow Rate (m³/min)	Test Piece Measured Flow Rate (m³/min)	Name of the Instrument	Respirable Dust Sampler
			SI.No. of the Instruments	230 - TEF - 21
			Name of the unit calibrated	Orifice Manometer Flow
			Name of the Party	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathia, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)
1	0.800	0.830		
2	0.930	0.94		
3	1.110	1.15		
4	1.230	1.26		
5	1.340	1.400		

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement.
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(A Division of Lata Envirotech Services)

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Website : www.lescccllab.com



CALIBRATION CERTIFICATE

ULR No.	CC225321000001934F	Calib. Field - Electro-Technical	Page 1 of 1
Certificate No.	LES-CCL/ET/TT/2422	Suggested Date of Next Calibration	22.06.2022
Calibration Date	23.06.2021		
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F No. :- 2021/1211	Date :- 19.06.2021	Date of Issue :- 24.06.2021	

01. DUC Fitted in Instrument

Name	Make	Model	Sl.No.
Respirable Dust Sampler	THERMO	TEI - 108 NL	230 - TEF - 21

02. Details of (DUC)

Name	Time Totalizer	Environmental Conditions During Calibration	
Sl.No.	T - 230	Temperature (°C)	25 ± 3
		Relative Humidity (%)	45 - 75
		B. Pressure (mmHg)	737.40

03. Standard Equipment used for calibration

Standard Equipment Name	Range	Sl.No./ID.No.	Traceability
Digital Automatic Timer	10 Sec - 4 hrs	LES-CCL/R/2507	Modtech Creative Labs Pvt. Ltd. Gurgaon (Haryana)
Calibration Certificate No.	Calibration Date	Valid Up to	
21000008968	14 to 15.02.2021	14.02.2022	

04. Calibration Procedure LES-CCL/WI/31/ET/01

05. Calibration Results :

DUC has been calibrated for following Parameter (S) ranges (S)

S.No.	Displayed Value on DUC Hrs(Min)	Reference Time (Min)	Error (%)	Expanded Uncertainty at 95 % of Confidence level (k = 2) (%)
1	0.25 (15.0 Min) (Final Readings of TTR at the end of Calibration: 23.20 hrs)	15.0086	-0.06	± 2.316 %

Uncertainty Contributing Factor :-

1. Repeatability (based on five measurement)
2. Uncertainty of master instruments
3. Uncertainty due to resolution of DUC

The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$, for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
3. This Certificate refers only to the particular item calibrated.
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Website : www.lescc1lab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001937F		
Certificate No.	LES-CCL/FF/RF/3290	Callb. Field - Fluid Flow	Page 1 of 3
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahar, P.O. Bathia, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No.	2021/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in Instrument

Name	Make	Model	Sl.No.
Stack Sampler	THERMO	TEI - 130	165 - TEF - 21

02. Details of DUC

Name	Rotameter	Environmental Conditions During Calibration	
Resolution	0.1	Temperature(°C)	25±3
Sl.No.	S191045	Relative Humidity (%)	45-75
Cal. Range	0 - 6 lpm	B. Pressure (mmHg)	740.60

03. Standard Equipment used for calibration

Sl.No.	Standard Equipment Name	Range	Sl.No.	Traceability
1	Air Flow Calibrator	0.1 - 10.0 lpm	002-DTD-2015	CSIR, NPL, New Delhi
2	Digital Vacuum Indicator	0 - 75 mmHg	Sr. No. 03	LES-CCL, Gr. Noida
3	Digital Temp. Indicator	0 - 50°C	T- 02	BELZ, Faridabad
Sl.No.	Certificate No.	Calibration Date	Valid Up to	
1	20100656/DI.08/C-044	14.10.2020	14.10.2021	
2	LES-CCL/MECH/PI/395	30.10.2020	29.10.2021	
3	30039526	16.06.2021	16.06.2022	

04. Calibration Procedure :- LES-CCL/WI/31/FF/04

Remark 1. Refer page 2 of 3 for Calibration Results and 3 of 3 for Calibration Curve

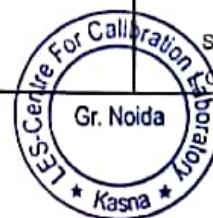
2. The Flowrate has been Referenced to Standard Temperature (20 °C) and Pressure (760 mmHg Absolute) Condition.

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
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Chief Executive Officer





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ULR No.	CC225321000001937F		Page 2 of 3
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Certificate No.	LES-CCL/FF/RF/3290		

05. Calibration Results for Flow of Rotameter

S.No.	(DUC) Indicated reading (lpm)	Reference True Flow rate (lpm)	Error (%) FS	Calibration factor
1	1.0	0.944	0.933	0.944
2	1.0	0.945	0.917	0.945
3	1.0	0.946	0.900	0.946
4	1.0	0.947	0.883	0.947
5	1.0	0.948	0.867	0.948
6	2.0	1.953	0.783	0.977
7	3.0	2.932	1.133	0.977
8	4.0	3.893	1.783	0.973
9	5.0	4.882	1.967	0.976
10	6.0	5.861	2.317	0.977
11	6.0	5.862	2.300	0.977
12	6.0	5.863	2.283	0.977
13	6.0	5.864	2.267	0.977
14	6.0	5.865	2.250	0.978

(Curve Enclosed)

Type A standard Uncertainty

- I. for repeated data (1-5) ± 0.1790 lpm
II. for repeated data (10 - 14) ± 0.0265 lpm

Expanded uncertainty in Actual flow

measurement at 95% as a coverage factor $k=2$

- I. 1.0 lpm ± 5.84 % Rdg
II. 6.0 lpm ± 5.84 % Rdg

Uncertainty Contributing Factor :-

1. Repeatability (based on five measurements)
2. Uncertainty of master instruments
3. Resolution of DUC

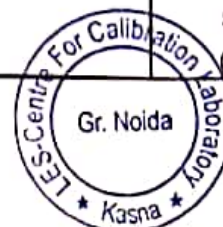
The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$,
for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
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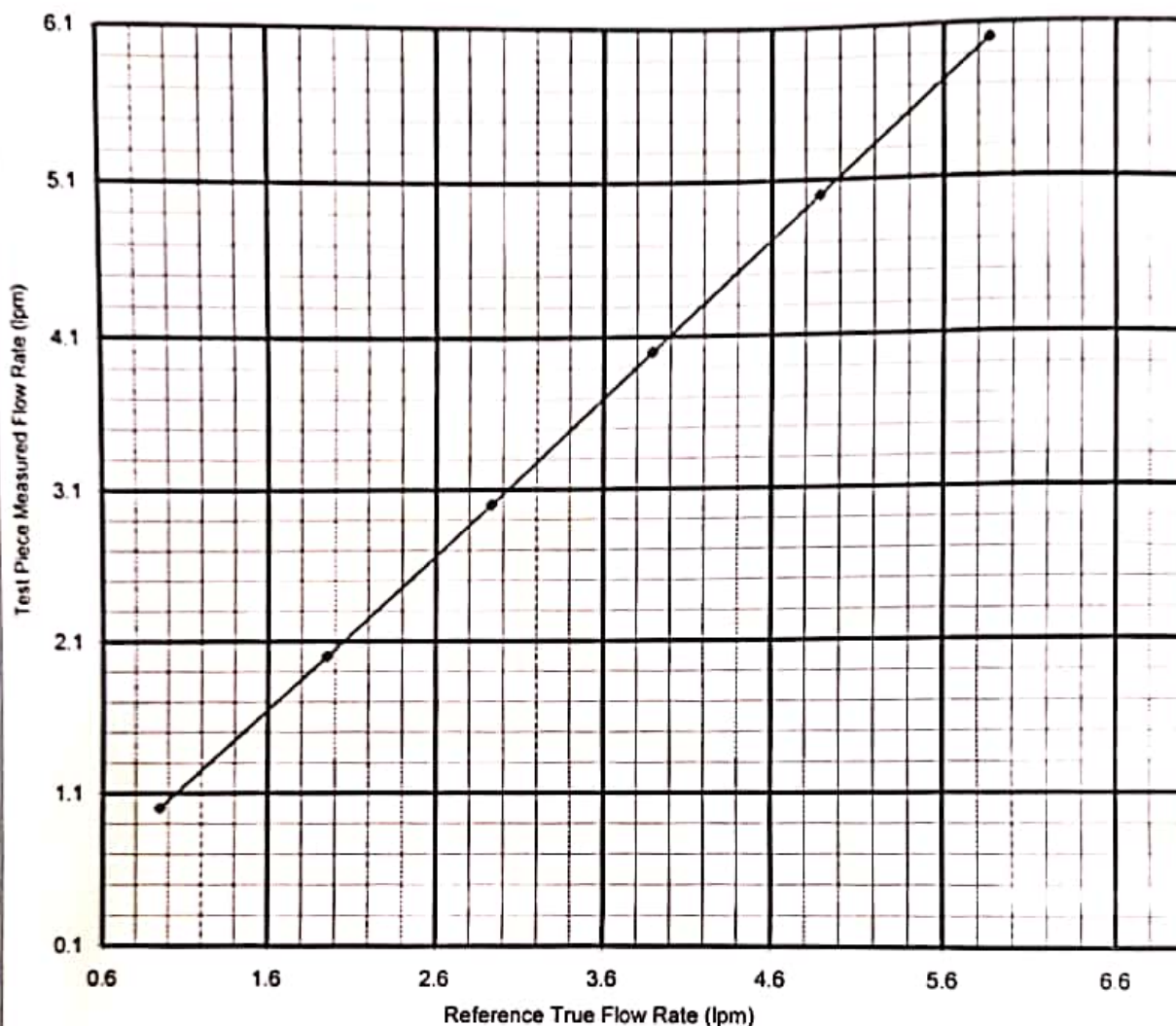


ULR No. CC225321000001937F
Calibration Date 23.06.2021



CALIBRATION CURVE FOR ROTAMETER

Page 3 of 3



Sl.No.	Reference True Flow Rate (lpm)	Test Piece Measured Flow Rate (lpm)	Name of the Instrument	Rotameter
			Sl.No. of the Instrument	S191045
			Name of the Party	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathia, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)
1	0.946	1.0		
2	1.953	2.0		
3	2.932	3.0		
4	3.893	4.0		
5	4.882	5.0		
6	5.863	6.0		

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
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CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001940F	Calibration Field - Mechanical	Page 1 of 2
Certificate No.	LES-CCL/MECH/VG/472		
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Customer Name :-	M/s Prism Johnson Limited		
Address :-	(Cement Division: Unit - II) Village - Mankahari, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No.	2021/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in Instrument

Name	Make	Model	SI.No.
Stack Sampler	THERMO	TEI - 130	165 - TEF - 21

02. Details of DUC

Name	Vacuum Gauge (GAS) / (SPM)	Environmental Conditions During Calibration	
Make	Akvalo	Temperature(°C)	25 ± 3
SI.No.	GVG - 165 / SVG - 165	Relative Humidity (%)	45 -75
Cal. Range	80 -500 mmHg	B. Pressure (mmHg)	744.60

03. Standard Equipment used for calibration

Standard Equipment Name	Range	SI.No. / ID.No.	Traceability
Digital Vacuum Gauge	-1.0 to 2 bar	VEM1503079 / LES-CCL/R/2504	BELZ, Faridabad
Certificate No.	Calibration Date		Valid Up to
40063232	14.06.2021		14.06.2022

04. Calibration Procedure :- LES-CCL/WI/31/MECH/02

Remark : Refer page 2 of 2 for Calibration Results

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
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LES - Centre For Calibration Laboratory

ULR No.	CC225321000001940F		
Calibration Date	23.06.2021	Suggested Date of Next Calibration	Page 2 of 2
Certificate No.	LES-CCL/MECH/VG/472		
			22.06.2022

05. Corrected Calibration Results for Vacuum Gauge (Sl. No. SVG- 165)

Set DUC Value (mmHg)	CYCLE 1		CYCLE 2		CYCLE 3		Standard Avg. Reading (mmHg)	Error % FS	Ue. ± (bar)
	UP (mmHg)	DOWN (mmHg)	UP (mmHg)	DOWN (mmHg)	UP (mmHg)	DOWN (mmHg)			
80	82.1	80.1	82.5	77.5	81.9	81.3	80.9	-0.15	0.060
100	93.1	91.8	94.1	92.9	92.9	94.8	93.9	0.80	0.060
200	193.4	189.9	194.9	190.5	189.1	188.6	191.1	1.17	0.060
300	291.3	290.3	287.4	289.6	289.6	288.4	289.4	1.39	0.060
400	393.9	392.3	394.2	393.1	397.2	392.5	393.9	0.81	0.060
480	496.0	494.5	494.3	491.6	490.7	489.7	492.8	-1.68	0.060

06. Corrected Calibration Results for Vacuum Gauge (Sl. No. GVG - 165)

Set DUC Value (mmHg)	CYCLE 1		CYCLE 2		CYCLE 3		Standard Avg. Reading (mmHg)	Error % FS	Ue. ± (bar)
	UP (mmHg)	DOWN (mmHg)	UP (mmHg)	DOWN (mmHg)	UP (mmHg)	DOWN (mmHg)			
80	86.5	80.1	87.6	85.9	81.9	87.9	87.0	-1.16	0.060
100	106.9	105.9	108.2	107.5	112.1	111.6	93.9	1.02	0.060
200	209.7	208.1	205.7	207.2	206.4	111.6	207.1	-1.18	0.060
300	307.7	306.7	307.3	305.8	206.4	305.1	306.5	-0.85	0.060
400	407.7	406.8	409.8	504.2	508.8	408.2	408.9	-1.17	0.060
480	508.0	506.6	504.7	504.2	508.8	506.9	506.5	-4.42	0.060

Remark : The reading of vacuum represents the Average of five reading

Uncertainty Contributing Factor 1. Repeatability (based on 3 Cycle) 2. Uncertainty of master instruments

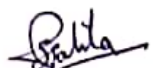
3. Uncertainty due to resolution of DUC 4. Uncertainty due to hysteresis,

The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$, for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
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Website : www.lescc1lab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001943F	Calib. Field - Fluid Flow	Page 1 of 2
Certificate No.	LES-CCL/FF/PT/789		
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No.	2021/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. Details of DUC

Name	S -TYPE PITOT TUBE	Environmental Conditions During Calibration	
Length	0.6 mtr+Extn.	Temperature (°C)	25 ± 3
Sl.No.	TP - 47	Relative Humidity (%)	45-75
Cal. Range	3 - 20 m/sec	Barometric Pressure (mmHg)	737.40

02. Standard Equipment used for calibration

Sl.No.	Standard Equipment Name	Range	Sl.No./ID.No.	Traceability
1	S Type Pitot Tube	3 to 25 m/s	V626 / LES-CCL/R/12101	FCRI, Palakkad
2	Digital Manometer	0 - 500 mmwc	VEMN1612014 / LES-CCL/R/2514	LES-CCL Gr. Noida
3	Dig.Temp.Indicator With Sensor	0 - 50 °C	T- 01 /LES -CCL/R/15301	BELZ, Faridabad
	Certificate No.		Calibration Date	Valid Up to
1	CAW 648 2009 070		15.09.2020	NM
2	LES-CCL/MECH/PI/471		30.01.2021	29.01.2022
3	30039525		16.06.2021	16.06.2022

03. Calibration Procedure :- LES-CCL/WI/31/FF/06

Remark 1. Refer page 2 of 2 for Calibration Results.

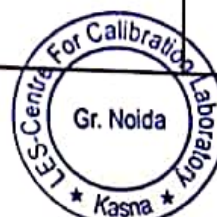
2. The Velocity has been Referenced to standard Temperature (20 °C) and Pressure (760 mmHg Absolute) Condition.

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
- Results reported are valid at the time of and under the stated conditions of measurement.
- This Certificate refers only to the particular item calibrated.
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ULR No.	CC225321000001943F	Page 2 of 2
Calibration Date	23.06.2021	Suggested Date of Next Calibration
Certificate No.	LES-CCL/FF/PT/789	22.06.2022

04. CALIBRATION OBSERVATIONS AND RESULTS FOR S - TYPE PITOT TUBE

S.No.	Standard 'S' Type Pitot Tube K = 0.8826		'S' Type Pitot Tube (DUC)	
	Dynamic Pressure (mmwc)	Air Velocity (m/s)	Dynamic Pressure (mmwc)	Factor K
1	0.85	3.551	0.8	0.9423
2a	6.14	9.324	5.8	0.9171
2b	6.15		5.6	
2c	6.13		5.9	
2d	6.17		5.4	
2e	6.12		5.7	
2f	6.19		5.8	
3	13.85	14.201	12.5	0.9306
4	22.65	17.340	22.3	0.8888
5	30.44	20.208	29.7	0.8933
Averaged Coefficient (K)				0.9144

Remark : The reading of dynamic pressure represents the mean of 6 reading.

Type A standard Uncertainty Repeated Data Serial No. (2a to 2f)
Expanded uncertainty in Actual flow
measurement at 95 % calibration at a coverage factor ($k=2$)

± 0.0078 m/s
 ± 0.1974 m/s or ± 2.6 % Rdg

Uncertainty Contributing factor :-

1. Repeatability (based on three measurement)
2. Uncertainty of master instruments
3. Resolution Of DUC

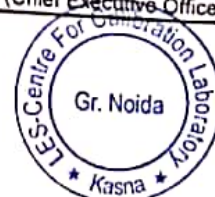
The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$,
for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
3. This Certificate refers only to the particular item calibrated.
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Authorized By

SHIVSHANKER SINGH
(Chief Executive Officer)





LATA ENVIROTECH SERVICES - CENTRE FOR CALIBRATION LABORATORY

(A Division of Lata Envirotech Services)

K-307, UPSIDC Industrial Area, Site-5, Kasna, Greater Noida, Gautam Budh Nagar-201310 (U.P.)
E-mail : lescccl307@gmail.com, lescccllab@gmail.com, Cell No. 9821735177, 9821735178, 9355384939
Website : www.lescccllab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001942F	Calib. Field - Mechanical	Page 1 of 2
Certificate No.	LES-CCL/MECH/PI/526		
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No.	2021/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in Instrument

Name	Make	Model	Sl.No.
Stack Sampler	THERMO	TEI - 132	47 - TEF - 21

02. Details of DUC

Name	Pressure Indicator	Environmental Conditions During Calibration	
Make	Testo	Temperature (°C)	25 ± 3
Model	Testo - 510	Relative Humidity (%)	45-75
Sl.No.	PI - 47	Barometric Pressure (mmHg)	744.60
Cal. Range	0 - 1000 mmH ₂ O		

03. Standard Equipment used for calibration

Standard Equipment Name	Range	Sl.No./I.D.No.	Traceability
Digital Pressure Gauge	0 - 2000 mmWC	VEM1503080/LES-CCL/R/2503	BELZ, Faridabad
Certificate No.	40063233	Calibration Date	Valid Up to
		14.06.2021	14.06.2022

04. Calibration Procedure :- LES-CCL/WI/31/MECH/ 01

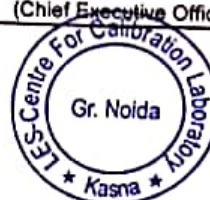
Remark : Refer page 2 of 2 for Calibration Results

Notes :-

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ULR No.	CC225321000001942F		Page 2 of 2
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Certificate No.	LES-CCL/MECH/PI/526		

05. Corrected Calibration Results for Pressure Indicator

Set (DUC) Value (mmH ₂ O)	CYCLE 1		CYCLE 2		CYCLE 3		Standard Avg.Rdg. (mmH ₂ O)	Error % (FS)	Expanded ± Uncertainty	
	UP (mmH ₂ O)	DOWN (mmH ₂ O)	UP (mmH ₂ O)	DOWN (mmH ₂ O)	UP (mmH ₂ O)	DOWN (mmH ₂ O)			(Pa)	(mmH ₂ O)
1.0	1.2	1.1	1.4	1.3	1.2	1.2	1.3	-0.03	20.0	2.04
10.0	9.9	9.8	10.1	10.0	9.9	9.9	10.0	0.00	20.0	2.04
100.0	100.1	100.9	100.3	100.2	101.0	100.7	100.4	-0.04	20.0	2.04
200.0	199.8	199.6	200.0	199.9	199.7	199.8	199.9	0.01	20.0	2.04
400.0	399.9	399.8	400.1	400.0	399.9	399.9	399.9	0.01	20.0	2.04
800.0	799.8	799.7	800.0	799.9	799.8	799.8	799.8	0.02	20.0	2.04
1000.0	999.5	999.4	999.4	999.5	999.5	1000.0	1000.0	0.00	20.0	2.04

Remark : The reading of Pressure represents the mean of six reading

Uncertainty Contributing Factors:-

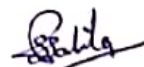
1. Repeatability (based on 3 Cycles)
2. Uncertainty of master instruments
3. Uncertainty due to resolution of DUC
4. Uncertainty due to hysteresis

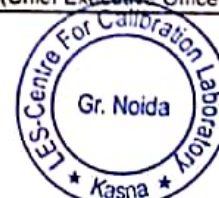
The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$, for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
3. This Certificate refers only to the particular item calibrated.
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(Chief Executive Officer)





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E-mail : lescc1307@gmail.com, lescc1lab@gmail.com, Cell No. 9821735177, 9821735178, 9355384939

Website : www.lescc1lab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001941F	Calibration Field - Thermal	Page 1 of 2
Certificate No.	LES-CCL/TH/TP/476		
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No.	2020/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in instrument

Name	Make	Model	SI.No.
Stack Sampler	THERMO	TEI - 132	47 - TEF - 21

02. Details of DUC

Name	Thermocouple with Temperature Indicator	Environmental Conditions During Calibration	
Make/Trade Mark	Audiotronics	Temperature(°C)	25 ± 3
SI.No.	TP - 47	Relative Humidity %	45 - 75
Cal. Range	50 - 600 °C	B. pressure (mmHg)	746.20

03. Standard Equipment used for calibration

Standard Equipment Name	Range	SI.No.	Traceability
Digital Thermometer with R - Type T/C	0 - 1600 °C	YD5002383	BELZ, Faridabad
Certificate No.	Calibration Date	Valid Up to	
30039524	16.06.2021	16.06.2022	

04. Calibration Procedure :- LES-CCL/WI/31/TH/01

Remark : Refer page 2 of 2 for Calibration Results.

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
- Results reported are valid at the time of and under the stated conditions of measurement
- This Certificate refers only to the particular item calibrated.
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Authorized By

Shiv Shankar Singh

SHIV SHANKAR SINGH
(Chief Executive Officer)





LES - Centre For Calibration Laboratory



ULR No.	CC225321000001941F		Page 2 of 2
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Certificate No.	LES-CCL/TH/TP/476		

05. Corrected Calibration Results for Thermocouple with Temperature Indicator

S.No.	Device Under Calibration (°C)	Std. Reading (°C)	Error FS (%)	Calibration Factor	Expanded Uncertainty at 95 % of Confidence level (k = 2) (°C)
1	47	48.2	-0.19	1.025	± 1.14
2	96	97.2	-0.20	1.012	± 1.07
3	194	194.8	-0.13	1.004	± 1.07
4	293	293.8	-0.13	1.003	± 4.52
5	391	391.4	-0.06	1.001	± 5.00
6	490	490.6	-0.10	1.001	± 6.05
7	588	588.0	-0.01	1.000	± 6.05

Remark : The Reported value is Average of ten readings.

Uncertainty Contributing Factor :-

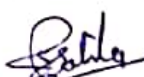
1. Repeatability (based on ten measurement)
2. Uncertainty of Master Instruments
3. Resolution of DUC
4. Drift of Master Thermocouple

The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$, for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

1. Reference used are directly traceable to national standard through unbroken chain of calibration.
2. Results reported are valid at the time of and under the stated conditions of measurement
3. This Certificate refers only to the particular item calibrated.
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(Chief Executive Officer)





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(A Division of Lata Envirotech Services)

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Website : www.lescccllab.com



CALIBRATION CERTIFICATE

ULR No.	CC225321000001938F	Callb. Field - Fluid Flow	Page 1 of 3
Certificate No.	LES-CCL/FF/RF/3291		
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathla, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No.	2021/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in instrument

Name	Make	Model	SI.No.
Stack Sampler	THERMO	TEI - 130	165 - TEF - 21

02. Details of DUC

Name	Rotameter	Environmental Conditions During Calibration	
Resolution	2.0 lpm	Temperature(°C)	25 ± 3
SI.No.	D21090	Relative Humidity (%)	45 - 75
Cal. Range	0 - 60 lpm	B. Pressure (mmHg)	746.05

03. Standard Equipment used for calibration

SI.No.	Standard Equipment Name	Range	Sr.No. / ID. No.	Traceability
1	Air Flow Calibrator	0.1 - 10.0 lpm	002-DTD-2015	CSIR, NPL, New Delhi
2	Digital Vacuum Indicator	0 - 75 mmHg	Sr. No. 03	LES-CCL, Gr. Noida
3	Digital Temp. Indicator	0-50°C	T- 02	BELZ, Faridabad
4	Orifice Flow Calibrator	11 to 100 lpm	001-DTD-2015	LES - CCL, Gr. Noida
SI.No.	Certificate No.	Calibration Date	Valid Up to	
1	20100656/DI.08/C-044	14.10.2020	14.10.2021	
2	LES-CCL/MECH/PI/395	30.10.2020	29.10.2021	
3	30039526	16.06.2021	16.06.2022	
4	LES-CCL/FF/RF/3280	08.06.2021	07.06.2022	

04. Calibration Procedure :- LES-CCL/WI/31/FF/03 & 04

Remark : 1.Refer page 2 of 3 for Calibration Results and 3 of 3 for calibration curve

2.The Flowrate has been Referenced to Standard Temperature (20 °C) and Pressure (760 mmHg Absolute) Condition.

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
- Results reported are valid at the time of and under the stated conditions of measurement
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LES-Centre for Calibration Laboratory



ULR No.	CC225321000001938F		Page 2 of 3
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Certificate No.	LES-CCL/FF/RF/3291		

05. Calibration Results for Flow Rate of Rotameter

S.No.	Measured Flow Rate (DUC) lpm	Reference True Flow Rate (lpm)	Error FS (%)	Calibration Factor
1	10.0	9.864	0.227	0.986
2	10.0	9.865	0.225	0.987
3	10.0	9.866	0.223	0.987
4	10.0	9.867	0.222	0.987
5	10.0	9.868	0.220	0.987
6	20.0	19.6	0.667	0.980
7	30.0	28.7	2.167	0.957
8	40.0	39.1	1.500	0.978
9	50.0	48.6	2.333	0.972
10	60.0	58.4	2.667	0.973
11	60.0	58.4	2.667	0.973
12	60.0	58.5	2.500	0.975
13	60.0	58.5	2.500	0.975
14	60.0	58.4	2.667	0.973

(Curve Enclosed)

A. Type A standard Uncertainty

I. for repeated data (1-5)

± 0.0070 lpm

II. for repeated data (10-14)

± 0.0237 lpm

B. Expanded uncertainty In Actual flow

measurement at 95% as a coverage factor $k=2$

I. For 10.0 lpm

± 3.72 %Rdg

II. For 60.0 lpm

± 3.2 %Rdg

Uncertainty Contributing Factor :-

1.Repeatability (based on five measurements)

2.Uncertainty of master instruments,

3.Resolution of DUC

The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$,

for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration .
- Results reported are valid at the time of and under the stated conditions of measurement
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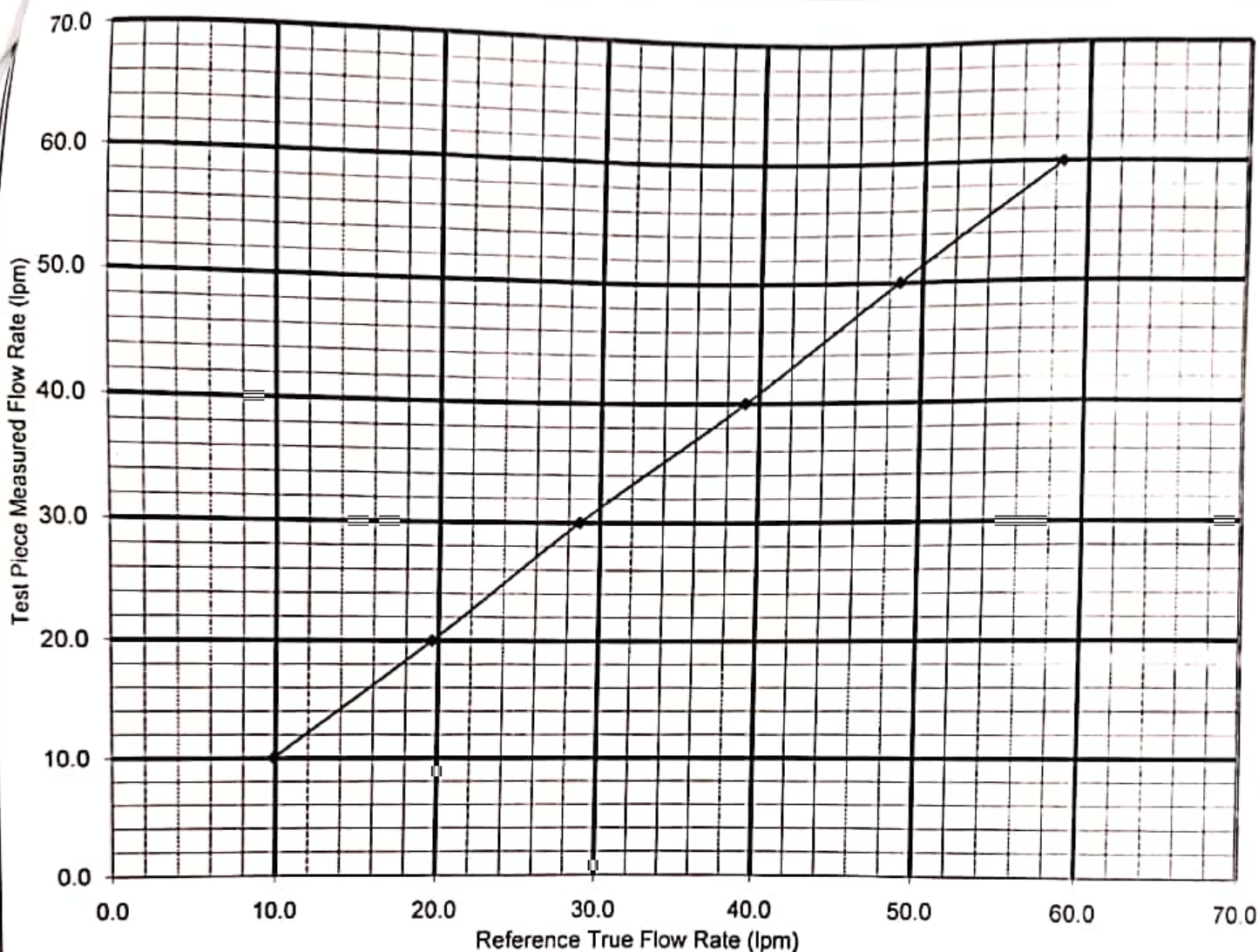


ULR No. CC225321000001938F
Calibration Date 23.06.2021



CALIBRATION CURVE FOR ROTAMETER

Page 3 of 3



Sl.No.	Reference True Flow Rate (lpm)	Test Piece Measured Flow Rate (lpm)	Name of the Instrument	Rotameter
			Sl.No. of the Instrument	D21090
			Name of the Party	M/s Prism Johnson Limited
				(Cement Division: Unit - II) Village - Mankahari, P.O. Bathia, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)
1	9.866	10.0		
2	19.6	20.0		
3	28.7	30.0		
4	39.1	40.0		
5	48.6	50.0		
6	58.4	60.0		

Notes :-

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E-mail : lescc1307@gmail.com, lescc1lab@gmail.com, Cell No. 9821735177, 9821735178, 9355384939

Website : www.lescc1lab.com



CC-2253

CALIBRATION CERTIFICATE

ULR No.	CC225321000001939F	Calib. Field - Electro-Technical	Page 1 of 1
Certificate No.	LES-CCL/ET/SW/569		
Calibration Date	23.06.2021	Suggested Date of Next Calibration	22.06.2022
Customer Name :- Address :-	M/s Prism Johnson Limited (Cement Division: Unit - II) Village - Mankahari, P.O. Bathia, Tehsil - Rampur Baghelan, Distt. Satna - 485111 (Madhya Pradesh)		
Reference :- S.R.F. No.	2021/1211	Date :- 19.06.2021	Date of Issue:- 24.06.2021

01. DUC Fitted in the Instruments

Name	Make	Model	Sl.No.
Stack Sampler	THERMO	TEI - 130	165 - TEF - 21

02. Details of DUC

Name	Stop watch	Environmental Conditions During Calibration	
Sl.No.	SW - 165	Temperature (°C)	25 ± 3
Cal. Range	0 - 15 min.	Relative Humidity (%)	45 - 75
		Barometric Pressure (mmHg)	737.40

03. Standard Equipment used for calibration

Standard Equipment Name	Range	ID.No.	Traceability
Digital Automatic Timer	10 Sec - 4 hrs	LES-CCL/R/2507	MODTECH CREATIVE LABS PVT. LTD, Gurgaon, Haryana
Calibration Certificate No.	Calibration Date	Valid Up to	
21000008968	14 to 15/02/2021	14.02.2022	

04. Calibration Procedure : LES-CCL/WI/31/ET/02

05. Calibration Results :-

DUC has been calibrated for following Parameter (S) ranges (S)

S.No.	Displayed Value on DUC (min)	Standard reading Average five Measurements Time (min)	Error (%)	Expanded Uncertainty at 95 % of Confidence level (k = 2) (sec)
1	15.004	15.0024	0.011	± 4.53

Uncertainty Contributing Factors :- 1. Repeatability (based on five measurements)

2. Uncertainty of master instruments 3. Resolution of DUC

The evaluated Expanded Uncertainty in calibration at a coverage factor $k = 2$, for degrees of freedom ∞ and confidence level is 95 % for Normal distribution.

Notes :-

- Reference used are directly traceable to national standard through unbroken chain of calibration.
- Results reported are valid at the time of and under the stated conditions of measurement.
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(Chief Executive Officer)



ECOMEN LABORATORIES PVT. LTD.

Second Floor Hall, House No. B-1/8, Sector-H, Aliganj, Lucknow - 226 024

Phone No. : 0522 - 4079201/2746282

E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1

ecomen

LABORATORIES PVT LTD.

An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN1/818/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT NOISE LEVEL

Name of the Company : **M/s Prism Johnson Ltd.**
 Address of the Company : Village Mankahari
 Tehsil Rampur Baghelan
 District- Satna (M.P.)
 Sample Collected by : Mr. Anish Singh & Manoj Gupta
 Date of Monitoring : 29.12.2021 to 30.12.2021
 Instrument Description : Noise Meter (Make:Envirotech)
 Test Method : IS: 4412, Part-1 & 2, 1991

Sl. No.	Locations	Day Time Leq Value in dB(A)	Night Time Leq Value in dB(A)
1.	Near PCL Colony	42.32	38.83
2.	Near Guest House	44.36	40.87
3.	Near Crusher Unit-II	59.78	52.56
4.	Near Admin. Building	53.87	47.06

Noise (Ambient Standard)

Area Code	Category of area	Limit 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

Note:

- Day time is reckoned in between 6:00 AM and 10:00 PM.
- Night time is reckoned in between 10:00 PM and 6:00 AM
- Silence zone is defined as area up to 100m around such premises as hospitals, educational institutions & courts. The silence zones are to be declared by a competent authority.
- Mixed categories of areas should be declared as one of the four above-mentioned categories by the competent authority and the corresponding standard shall apply.

Verified By


 Technical Manager

Authorized By


 Quality Manager

---End of Report---

Ecomen Laboratories Pvt. Ltd.
 Second Floor Hall, House No. B-1/8,
 Sector-H, Aliganj, Lucknow-226024

ECOMEN LABORATORIES PVT. LTD.

Second Floor Hall, House No. B-1/8, Sector-H, Aliganj, Lucknow - 226 024

Phone No. : 0522 - 4079201/2746282

E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1

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LABORATORIES PVT LTD.

An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN2/818/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT NOISE LEVEL

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District- Satna (M.P.)
Sample Collected by : Mr. Anish Singh & Manoj Gupta
Date of Monitoring : 29.12.2021 to 30.12.2021
Instrument Description : Noise Meter (Make:Envirotech)
Test Method : IS: 4412, Part-1 & 2, 1991

Sl. No.	Locations	Day Time Leq Value in dB(A)	Night Time Leq Value in dB(A)
1.	At Mines site Office	57.86	50.46
2.	Near Western Block Garden	53.87	51.89
3.	Village Hinauti	44.63	37.13
4.	Village Sijahata	43.23	36.42

Noise (Ambient Standard)

Area Code	Category of area	Limit 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

Note:

1. Day time is reckoned in between 6:00 AM and 10:00 PM.
2. Night time is reckoned in between 10:00 PM and 6:00 AM
3. Silence zone is defined as area up to 100m around such premises as hospitals, educational institutions & courts. The silence zones are to be declared by a competent authority.
4. Mixed categories of areas should be declared as one of the four above-mentioned categories by the competent authority and the corresponding standard shall apply.

Verified By



Technical Manager

Authorized By



Quality Manager

---End of Report---

Ecomen Laboratories Pvt. Ltd.
Second Floor Hall, House No. B-1/8,
Sector-H, Aliganj, Lucknow-226024

FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN/818/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT NOISE LEVEL

Name of the Company : M/s Prism Johnson Ltd.
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District- Satna(M.P.)
Sample Collected by : Mr. Anish Singh & Manej Gupta
Date of Monitoring : 29.12.2021 to 30.12.2021
Instrument Description : Noise Meter (Make:Envirotech)
Test Method : IS: 4412, Part-1 & 2, 1991

Sl. No.	Locations	Day Time Leq Value in dB(A)	Night Time Leq Value in dB(A)
1.	Near Nar Nala Bridge	44.3	38.4
2.	Near Medhi Mines Boundary Pillar No28	50.5	41.05
3.	Near Medhi Mines Boundary Pillar No23	52.8	46.1
4.	Village Malgaon	43.5	42.5

Noise (Ambient Standard)

Area Code	Category of area	Limit 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

Note:

1. Day time is reckoned in between 6:00 AM and 10:00 PM.
2. Night time is reckoned in between 10:00 PM and 6:00 AM
3. Silence zone is defined as area up to 100m around such premises as hospitals, educational institutions & courts. The silence zones are to be declared by a competent authority.
4. Mixed categories of areas should be declared as one of the four above-mentioned categories by the competent authority and the corresponding standard shall apply.

Verified By


Technical Manager

Authorized By


Quality Manager

---End of Report---

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Second Floor Hall, House No. B-1/8,
Sector-H, Aliganj, Lucknow-226024

ECOMEN LABORATORIES PVT. LTD.

Second Floor Hall, House No. B-1/8, Sector-H, Aliganj, Lucknow - 226 024

Phone No. : 0522 - 4079201/2746282

E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1

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An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN4/818/08/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT NOISE LEVEL

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District- Satna(M.P.)
Sample Collected by : Mr. Anish Singh & Manoj Gupta
Date of Monitoring : 29.12.2021 to 30.12.2021
Instrument Description : Noise Meter (Make:Envirotech)
Test Method : IS: 4412, Part-1 & 2, 1991

Sl. No.	Locations	Day Time Leq Value in dB(A)	Night Time Leq Value in dB(A)
1.	At Adiwasi Tola	47.32	42.3
2.	At BaisanTola	45.07	41.9
3.	South Site of Working Pit	55.60	50.7
4.	Near Boundary Pillar No.64	53.8	47.6

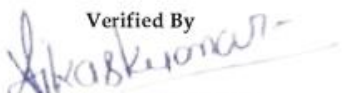
Noise (Ambient Standard)

Area Code	Category of area	Limit 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

Note:

1. Day time is reckoned in between 6:00 AM and 10:00 PM.
2. Night time is reckoned in between 10:00 PM and 6:00 AM
3. Silence zone is defined as area up to 100m around such premises as hospitals, educational institutions & courts. The silence zones are to be declared by a competent authority.
4. Mixed categories of areas should be declared as one of the four above-mentioned categories by the competent authority and the corresponding standard shall apply.

Verified By


Technical Manager

Authorized By


Quality Manager

---End of Report---

Ecomen Laboratories Pvt. Ltd.
Second Floor Hall, House No. B-1/8,
Sector-H, Aliganj, Lucknow-226024

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FORMAT NO. ECO/Q5/FORMA1/13

TEST REPORT NO: ECO LAB/AN5/S18/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT NOISE LEVEL

Name of the Company : **M/s Prism Johnson Ltd.**
 Address of the Company : Village Mankahari
 Tehsil Rampur Baghelan
 District- Satna(M.P.)
 Sample Collected by : Mr. Anish Singh & Manoj Gupta
 Date of Monitoring : 29.12.2021 to 30.12.2021
 Instrument Description : Noise Meter (Make:Envirotech)
 Test Method : IS: 4412, Part-1 & 2, 1991

Sl. No.	Locations	Day Time Leq Value in dB(A)	Night Time Leq Value in dB(A)
1.	Village Badarkha	47.20	37.43
2.	Village Hinaulta	46.74	36.29
3.	Village Chulhi	44.60	37.68
4.	Village Kulhari	45.38	36.13

Noise (Ambient Standard)

Area Code	Category of area	Limit 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

Note:

- Day time is reckoned in between 6:00 AM and 10:00 PM.
- Night time is reckoned in between 10:00 PM and 6:00 AM.
- Silence zone is defined as area up to 100m around such premises as hospitals, educational institutions & courts. The silence zones are to be declared by a competent authority.
- Mixed categories of areas should be declared as one of the four above-mentioned categories by the competent authority and the corresponding standard shall apply.

Verified By



Technical Manager

Authorized By



Quality Manager

---End of Report---

Ecomen Laboratories Pvt. Ltd.
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 Sector-H, Aliganj, Lucknow-226024

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E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1**ecoMen**
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FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN6/818/12/21

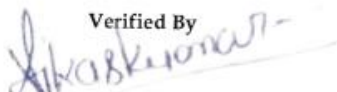
TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF WORK PLACE NOISE LEVEL

Name of the Company : **M/s Prism Johnson Ltd.**
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District- Satna(M.P.)
Sample Collected by : Mr. Anish Singh & Manoj Gupta
Date of Monitoring : 29.12.2021 to 30.12.2021
Instrument Description : Noise Meter (Make:Envirotech)
Test Method : IS: 4412, Part-1 & 2, 1991

Sl. No.	Locations	Noise Level dB(A)
1.	Kiln Unit-II	78.89
2.	Cement Mill Unit -II	72.89
3.	Near Railway Yard,	78.92
4.	Near Packing Plant	79.13

Verified By


Technical Manager

Authorized By


Quality Manager

---End of Report---

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FORMAT NO. ECO/Q5/FORMAT/13

TEST REPORT NO: ECO LAB/AN7/818/12/21

TEST REPORT ISSUE DATE: 05/01/2022

TEST REPORT OF AMBIENT NOISE LEVEL

Name of the Company : M/s Prism Johnson Ltd.
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District- Satna(M.P.)
Sample Collected by : Mr. Anish Singh & Manoj Gupta
Date of Monitoring : 29.12.2021 to 30.12.2021
Instrument Description : Noise Meter (Make:Envirotech)
Test Method : IS: 4412, Part-1 & 2, 1991

Sl. No.	Locations	Day Time Leq Value in dB(A)	Night Time Leq Value in dB(A)
1.	Near Site Office	53.89	42.06
2.	North side of mines pit	52.17	45.32
3.	South side of pit	47.56	43.69
4.	East side of pit.	44.36	40.88

Verified By



Technical Manager

Authorized By



Quality Manager

Ecomen Laboratories Pvt. Ltd.
Second Floor Hall, House No. B-1/8,
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---End of Report---

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FORMAT NO. ECO/Q5/FORMAT/13

TEST REPORT NO: ECO LAB/AN1/818/12/21

TEST REPORT ISSUE DATE: 05.01.2022

TEST REPORT OF NOISE LEVEL SURVEY

Name of the Customer : **M/s Prism Johnson Ltd.**
 Address of the Customer : Village Mankahari
 Tehsil Rampur Baghelan
 District- Satna (M.P.)
 Sample Collected by : Mr. Anish Singh & Manoj Gupta
 Date of Monitoring : 29.12.2021 to 30.12.2021
 Instrument Description : Noise Meter (Maske: Enivrotech)

Sl. No.	Locations	Leq Value in dB(A)	Protective Measures Adopted
Dozer-155 A			
1	Operator's cabin idle running	66.9	Ear muff provided
2	Operator's Cabin running on load	81.6	Ear muff provided
Poclain 300 CK			
3	Operator's cabin idle running	73.1	Ear muff provided
4	Operator's Cabin while loading	74.3	Ear muff provided
HAULPAK-PH 40			
5	Operator's Cabin while being loaded	71.2	Ear muff provided
6	Operator's Cabin while hauling	72.4	Ear muff provided
7	Operator's Cabin unloading in the hopper of crusher	89.3 (For 20 Second)	Ear muff provided
8	Alarm (while Reversing of dumper)	105.0	Short Duration
ATLASCOPCODRILL			
9	Operator's point while drilling	81.3	Ear muff provided
ROCKBREAKER			
10	Operator's Cabin	72.9	Ear muff provided
HEAVY BLASTING (INSTANTANEOUS)			
11	Blasting shelter	104.7	Momentary
12	At safe zone	82.4	
AMBIENT NOISE LEVEL DURING WORKING HOURS			
13	Office Campus, Mines workshop, Outfield (Haul Road)	74.4	-
14	Office Campus, Mines Workshop, Outfield (Haul Road) (at Night)	60.6	-

Verified By


 Technical Manager

Authorized By


 Quality Manager

Ecomen Laboratories Pvt. Ltd.
 Second Floor Hall, House No. B-1/8,
 Sector-H, Aliganj, Lucknow-226024

WATER CONSUMPTION FY 21-22

Month	Unit -II	
	Ground water (KL)	Mines pit (KL)
October 2021	56	9884
November 2021	45	6810
December 2021	125	16653
January 2022	74	17878
February 2022	279	20360
March 2022	125	22727

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An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/07

TEST REPORT NO: ECO LAB/WW/1525/12/21

TEST REPORT ISSUE DATE: 13.01.2022

TEST REPORT OF WASTE WATER*

Name of the Company : M/s. Prism Johnson Ltd.
Address of the Company : Village Mankahari,
Tehsil Rampur Baghelan
Distt. Satna (M.P.)
Sampling Method : APHA/ IS: 3025
Sample Collected by : Mr. Anish Singh
Sample Quantity : As per requirement.
Date of Sampling : 29.12.2021
Date of Receiving : 03.01.2022
Date of Analysis : 03.01.2022 to 07.01.2022
Source of Sample : STP Inlet
Sample ID Code : ELW-15304

Sl. No.	TESTS	PROTOCOL	RESULT	Limits of Detection
1	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	6.76	2-12
2	Total Suspended Solids(mg/l)	APHA, 23 rd Ed. 2017, 2540-D	158.0	5.0-1000
3	Oil & Grease as O & G (mg/l)	APHA, 23 rd Ed. 2017, 5520 A+B+D	BDL	5.0-600
4	Biochemical Oxygen Demand as BOD (mg/l) 3days at 27°C	APHA, 23 rd Ed. 2017, 5210 A+B	42.5	5-10000
5	Chemical Oxygen Demand as COD (mg/l)	APHA, 23 rd Ed. 2017, 5220 A+C	160.0	5-50000

*The result are related only to item tested.

BDL = Below Detection Limit

Verified By


Technical Manager

Authorized By


Quality Manager

--End of the Report--

Ecomen Laboratories Pvt. Ltd.
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E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1**ecoMen**
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FORMAT NO. ECO/QS/FORMAT/07 TEST REPORT NO: ECO LAB/WW/1525/12/21
TEST REPORT ISSUE DATE: 13.01.2022**TEST REPORT OF WASTE WATER***

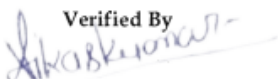
Name of the Company : M/s. Prism Johnson Ltd.
Address of the Company : Village Mankahari,
Tehsil Rampur Baghelan
Distt. Satna (M.P.)
Sampling Method : APHA/ IS: 3025
Sample Collected by : Mr. Anish Singh
Sample Quantity : As per requirement.
Date of Sampling : 29.12.2021
Date of Receiving : 03.01.2022
Date of Analysis : 03.01.2022 to 07.01.2022
Source of Sample : STP Outlet
Sample ID Code : ELW-15305

Sl. No.	TESTS	PROTOCOL	RESULT	Limits of Detection	G.S.R 1265 (E)
1	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	6.87	2-12	6.5-9.0
2	Total Suspended Solids (mg/l)	APHA, 23 rd Ed. 2017, 2540-D	20.54	5.0-1000	<100.0
3	Oil & Grease as O & G (mg/l)	APHA, 23 rd Ed. 2017, 5520 A+B+D	BDL	5.0-600	-
4	Biochemical Oxygen Demand as BOD (mg/l) 3days at 27°C	APHA, 23 rd Ed. 2017, 5210 A+B	6.0	5-10000	30.0
5	Chemical Oxygen Demand as COD (mg/l)	APHA, 23 rd Ed. 2017, 5220 A+C	36.0	5-50000	-
6.	Fecal Coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, 9221 A + E	156.0	-	<1000

*The result are related only to item tested.

BDL = Below Detection Limit

Verified By



Technical Manager

Authorized By


Quality Manager
Ecomen Laboratories Pvt. Ltd.
Second Floor Hall, House No. B-1/8,
Sector-H, Aliganj, Lucknow-226024

--End of the Report--

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FORMAT NO. ECO/QS/FORMAT/07

TEST REPORT NO: ECO LAB/WW/1525/12/21

TEST REPORT ISSUE DATE: 13.01.2022

TEST REPORT OF WASTE WATER*


Name of the Company : M/s. Prism Johnson Ltd.
Address of the Company : Village Mankahari,
Tehsil Rampur Baghelan
Distt. Satna (M.P.)
Sampling Method : APHA/ IS: 3025
Sample Collected by : Mr. Anish Singh
Sample Quantity : As per requirement.
Date of Sampling : 29.12.2021
Date of Receiving : 03.01.2022
Date of Analysis : 03.01.2022 to 07.01.2022
Source of Sample : Mine Workshop after separate Treated Water
Sample ID Code : ELW-15306

Sl. No.	TESTS	PROTOCOL	RESULT	Limits of Detection	G.S.R 1265 (E)
1	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.51	2-12	6.5-9.0
2	Total Suspended Solid as TSS (mg/l)	APHA, 23 rd Ed. 2017, 2540-D	23.5	5.0-1000	<100.0
3	Oil & Grease as O & G (mg/l)	APHA, 23 rd Ed. 2017, 5520 A+B+D	BDL	5.0-600	-
4	Biochemical Oxygen Demand as BOD (mg/l) 3days at 27°C	APHA, 23 rd Ed. 2017, 5210 A+B	7.5	5-10000	30.0
5	Chemical Oxygen Demand as COD (mg/l)	APHA, 23 rd Ed. 2017, 5220 A+C	60.0	5-50000	-
6.	Fecal Coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, 9221 A + E	Absent	-	<1000

*The result are related only to item tested.

BDL = Below Detection Limit

Verified By


Technical Manager

Authorized By


Quality ManagerEcomen Laboratories Pvt Ltd
Second Floor Hall, House No. B-1/8
Sector-H, Aliganj, Lucknow-226024

--End of the Report--

**Sewage Treatment Plant Capacity :
600 KLD**



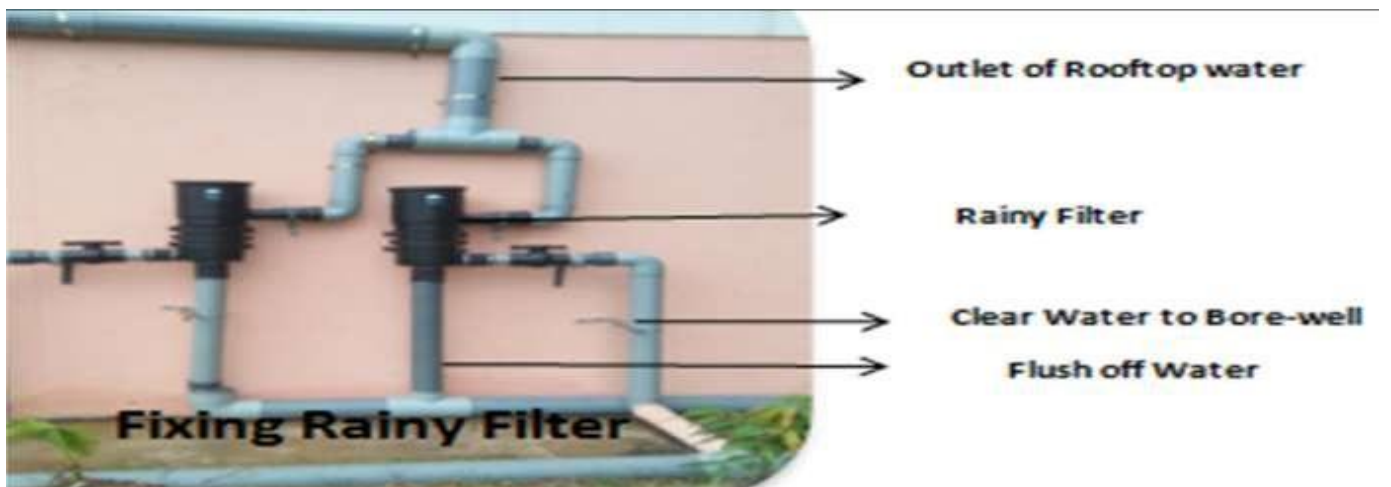
Green Belt development



1. Rain water harvesting pond in Mines



2. Roof top Rain water harvesting Structures:-





3. *Recharge Shaft with Abandoned bore-wells: Pits of size 3 X 3 X 3 M has been made around three abandoned bore- well inside plant premises to augment the ground water level as the rainwater is directly injected into ground water table, after filtration.*



4. *Construction of Percolation Tank with Bore Holes: A big percolation tank of size 46.5 X 3.5 X 1.5 Meter is made with four numbers of boreholes. Perforations made in the casing inside recharge structure and wrapped with fine net. Excavated pit has been filled with conventional filters.*



5. Recharge Bore Hole for Recharging the Ground Water:



5. Deeping of Nava, Badhura and Ram Sagar Pond:



6. Single and Double Bore recharge Shaft at Badhura and Chormari:



7. Perforated Drum based water harvesting structures at Bamhauri & Bathiya:



S. No.	Land use type	Area M2	Rainfall (M)	Runoff Coefficient (As per CGWB Guidelines)	Quantity of Rainfall Runoff Generated (Available for Harvesting / Artificial Recharge)
			2021 - 22		2021 - 22
1	Roof - Project office	386	1.37153	0.85	450
2	Roof - School	1150	1.37153	0.85	1341
3	Roof of MRSS	1900	1.37153	0.85	2215
4	Roof of Cement Mill Load Center U2	1100	1.37153	0.85	1282
5	Roof General Store	2000	1.37153	0.85	2332
6	Cooler Load Centre U1	1100	1.37153	0.85	1282
7	Cooler Load Centre U2	1000	1.37153	0.85	1166
8	Runoff Water Harvesting Structure Near Guest House	30000	1.37153	0.3	12344
9	Groundwater Recharge with Abandoned Bore well - 1	10000	1.37153	0.3	4115
10	Groundwater Recharge with Abandoned Bore well - 2	10000	1.37153	0.3	4115
11	Groundwater Recharge with Abandoned Bore well - 3	2500	1.37153	0.85	2915
12	Groundwater Recharge Pit Connected with Storm Drain - A type Colony	9746	1.37153	0.85	11362
		17307	1.37153	0.3	7121
13	Groundwater Recharge Pit Connected with Storm Drain - Near Nursery	22828	1.37153	0.85	26613
		47748	1.37153	0.3	19646
14	Ground water recharge with abandoned bore well near steel yard	40000	1.37153	0.85	46632
15	New security Barrack	10000	1.37153	0.85	11658
16	Durtech shed	800	1.37153	0.3	329
		30000	1.37153	0.85	34974
17	Packing Plant Unit I	375	1.37153	0.85	437
18	Packing Plant Unit II	1500	1.37153	0.85	1749
19	Mines Workshop	468	1.37153	0.85	546
	Total Recharge				194622

भारत सरकार
खान मंत्रालय
भारतीय खान भूरो
क्षेत्रीय खान नियंत्रक का कार्यालय



रजिस्टर्ड पारसल द्वारा
GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES
AND THE REGIONAL CONTROLLER OF MINES

फा0 सं0 - MP/Satna/Limestone/RMP-57/2020-21
प्रति,

जबलपुर, दिनांक : 09/04/2021

मेसर्स प्रिज्म जॉनसन लि0
राजगीर सीतारोड सतना
जिला सतना (MP) 485111

विषय- म0प्र0 राज्य के सतना जिले में स्थित आपकी बगहई लाइमस्टोन खान (क्षेत्र 512.317 हे0) के एमरीआर- 2018 के नियम 17 (1) के अंतर्गत जमा किए गए खनन योजना के पुनर्विलोकन का अनुमोदन।

- संदर्भ :- (1) आपका/क्यू पी0 का पत्र क्रमांक - PJI/MINE/2021-790, दि0 18/01/2021 एवं जमा प्रक्रिया शुल्क की रसीद संख्या जे 257 दि0 22/01/2020।
(2) इस कार्यालय का समसंख्यक संवीक्षा-पत्र दि0- 12/03/2020।
(3) आपका/क्यू पी0 का पत्र क्रमांक - PJI/MINE/BG/2021-809 दि0 19/03/2021।

महोदय,

In exercise of the powers conferred under Clause (b) of Sub-section (2) of Section 5 of Mines and Minerals (Development and Regulation) Amendment Act, 2015 read with Government of India Order no. S.O.1857(E), dated 18/05/2016, I hereby approve the above said Review of Mining Plan including Progressive Mine Closure Plan submitted under Rule 17(1) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016. This approval is subject to the following conditions:

- 1 The Review of Mining Plan is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
- 2 The proposals shown on the plates and /or given in the document is based on the lease map /sketch submitted by the applicant/ lessee and is applicable from the date of approval.
- 3 It is clarified that the approval of aforesaid Review of Mining Plan does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Amendment Act, 2015, or the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
- 4 Indian Bureau of mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the applicant / lessee.
- 5 At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.
- 6 The Financial Assurance submitted by you for Rs. 5,12,43,000/- (Rs. Five crore Twelve Lakh Forty Three Thousand only) is valid up to 31/03/2026 and next Financial Assurance shall be submitted on or before 31/03/2026.
- 7 This approval is restricted in respect of proposals given in the document for the period from 2021-22 to 2025-26 with validity up to 31/03/2026, from the date of approval, subject to all other statutory clearances.
- 8 If the approval conflicts with any other law or court order/direction under any statute, it shall be revoked immediately.
- 9 The next Review of Mining Plan will be due for submission on 01/10/2025.
- 10 As per Madhya Pradesh State Government's order dated 10/08/2011 if there is enhancement of production proposed from that in the approved scheme of mining under such circumstances additional stamp duty has to be paid by the lessee for the enhances quantum of production and also a supplementary agreement has to be made by the lessee.

संलग्न:- अनुमोदित पुनर्विलोकन खनन योजना की एक प्रति के साथ।

भवदीय,
(पुखराज नेणवाल)
09-4-2021
(पुखराज नेणवाल)
क्षेत्रीय खान नियंत्रक
भारतीय खान भूरो, जबलपुर

भारत सरकार
खान मंत्रालय
भारतीय खान ब्यूरो
क्षेत्रीय खान नियंत्रक का कार्यालय



GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES
O/O REGIONAL CONTROLLER OF MINES

जबलपुर, दिनांक : 20/12/2021

F.No. MP/Satna/Limestone/RMP-50/2021-22

To,

✓ Shri Vivek Krishan Agnihotri,
Nominated Owner,
M/s Prism Johnson Limited
"Rahejas" 2nd floor,
Main Avenue, V.P. Road,
Santacruz (W) Mumbai - 400054

विषय:- मध्य प्रदेश राज्य के सतना जिले में स्थित आपकी प्रिज्म सीमेंट लाइमस्टोन खान (क्षेत्र 99.416 हे०) जो कि ग्राम हिनौती एवं सिजेहटा में अवस्थित है के एमसीआर- 2016 के नियम 17 (1) के अंतर्गत जमा किए गए अनुमोदित खनन योजना के पुनर्विलोकन का अनुमोदन।

- संदर्भ :-1) आपका पत्र क्रमांक PCL/MIN/2021-21023 dated 29/10/2021, Received in this office on 03/11/2021 भारतकोष द्वारा जमा प्रक्रिया शुल्क की रसीद संख्या 2409210015324 dt.24/09/2021
2) इस कार्यालय का समसंख्यक संवीक्षा-पत्र दि०-01/12/2021
3) आपका/क्यू पी० का पत्र क्रमांक PCL/MIN/2021-210309 dated 15/12/2021.

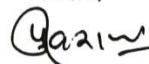
महोदय,

In exercise of the powers conferred under Clause (b) of Sub-section (2) of Section 5 of Mines and Minerals (Development and Regulation) Amendment Act, 2015 read with Government of India Order no. S.O.1857(E), dated 18/05/2016, I hereby **Approve** the above said Review of Mining Plan submitted under Rule 17(1) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016. This approval is subject to the following conditions:

- 1 The Review of Mining Plan is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
- 2 The proposals shown on the plates and /or given in the document is based on the lease map /sketch submitted by the lessee and is applicable from the date of approval.
- 3 It is clarified that the approval of aforesaid Review of Mining Plan does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Amendment Act, 2015, or the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
- 4 Indian Bureau of mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the lessee.
- 5 At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.
- 6 The Financial Assurance (FA) furnished by you for **Rs. 1,15,02,000/- (Rs. One Crore Fifteen Lakh Two Thousands only)** is valid up to **31/03/2027** and next FA shall be submitted on or before **31/03/2027**.
- 7 If the approval conflicts with any other law or court order/direction under any statute, it shall be revoked immediately.
- 8 As per Madhya Pradesh State Government's order dated 10/08/2011 if there is enhancement of production proposed from that in the approved review of mining plan under such circumstances additional stamp duty has to be paid by the lessee for the enhances quantum of production and also a supplementary agreement has to be made by the lessee.
- 9 This approval is restricted in respect of proposals given in the document for the period **2022-23 to 2026-27** with a validity up to **31/03/2027**, subject to all other statutory clearances.
- 10 The next Review of Mining Plan will be due for submission on **01/10/2026**.

संलग्न:-अनुमोदित पुनर्विलोकन खनन योजना की एक प्रति के साथ।

भवदीय,


(पुखराज नेगिवाल)
क्षेत्रीय खान नियंत्रक
भारतीय खान ब्यूरो, जबलपुर

भारत सरकार
खान मंत्रालय
भारतीय खान भूरो
क्षेत्रीय खान नियंत्रक का कार्यालय



रजिस्टर्ड पार्सल द्वारा
GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES
O/O THE REGIONAL CONTROLLER OF MINES

फा0 सं0 - MP/Satna/Limestone/RMP-39/2019-20

जबलपुर, दिनांक - 31/03/2020

प्रति,

भे0 प्रिज्म जॉनसन लिमिटेड,

"राजदीप" सीवा रोड,

जिला - सतना, (म0प0) 485001

विषय- म0प0 राज्य के सतना जिले में स्थित आपकी प्रिज्म सीमेंट लाइमस्टोन खान (क्षेत्र 772.067 हे0) के एमसीआर- 2016 के नियम 17 (1) के अंतर्गत जमा किए गए खनन योजना के पुनर्विलोकन का अनुमोदन।

संदर्भ :-1) आपका/यू पी0 का पत्र क्रमांक -PCL/MIN/2019-19289, दि0 24/12/2019, प्रक्रिया शुल्क की रसीद संख्या J/089, दि0 29/01/2020 ।
2) इस कार्यालय का समसंख्यक पत्र दि0- 03/03/2020 ।
3) आपका/यू पी0 का पत्र क्रमांक -PCL/MIN/2020, दि0 11/03/2020 ।

महोदय,

In exercise of the powers conferred by the Clause (b) of Sub-section (2) of Section 5 of Mines and Minerals (Development and Regulation) Amendment Act, 2015 read with Government of India Order no. S.O.1857(E), dated 18/05/2016, I hereby approve the above said Review of Mining Plan including Progressive Mine Closure Plan submitted under Rule 17(1) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016. This approval is subject to the following conditions:

- 1 The Review of Mining Plan is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
- 2 The proposals shown on the plates and /or given in the document is based on the lease map /sketch submitted by the applicant/ lessee and is applicable from the date of approval.
- 3 It is clarified that the approval of aforesaid Review of Mining Plan does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Amendment Act, 2015, or the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
- 4 Indian Bureau of mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the applicant / lessee.
- 5 At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.
- 6 The Financial Assurance submitted by you for Rs. 5,49,00,000/- (Rs. Five Crore Forty Nine Lakh only) is valid up to 31/03/2025 and next Financial Assurance shall be submitted on or before 31/03/2025.
- 7 This approval is restricted in respect of proposals given in the document for the period from 2020-21 to 2024-25 with validity up to 31/03/2025, from the date of approval, subject to all other statutory clearances.
- 8 If the approval conflicts with any other law or court order/direction under any statute, it shall be revoked immediately.
- 9 The next Review of Mining Plan will be due for submission on 01/10/2024.
- 10 As per Madhya Pradesh State Government's order dated 10/08/2011 if there is enhancement of production proposed from that in the approved scheme of mining under such circumstances additional stamp duty has to be paid by the lessee for the enhances quantum of production and also a supplementary agreement has to be made by the lessee.

संलग्न-अनुमोदित पुनर्विलोकन खनन योजना की एक प्रति के साथ।

भवदीय,

(रजनीश पुरोहित)
क्षेत्रीय खान नियंत्रक
भारतीय खान भूरो, जबलपुर

भारतसरकार
खानमंत्रालय
भारतीय खानभूतल
क्षेत्रीय खाननियंत्रक कार्यालय



रजिस्टर्ड / साधारण डाक
GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES
O/O THE REGIONAL CONTROLLER OF MINES

No. : MP/Satna/Limestone /M.Sch-6/16-17

Jabalpur, dt. 4/11/2016

To:

M/s Prism Cement Ltd.,
Rajdeep, Rewa Road, Satna,
District Satna (MP) 485001

विषय- मध्य प्रदेश राज्य के सतना जिले में स्थित आपकी मैडी (Mendhi) लाइमस्टोन खान (क्षेत्र 117.594 हे०) के एमसीडीआर-1988 के नियम 12 के अंतर्गत जमा किए गए माइनिंग स्कीम का अनुमोदन।

संदर्भ- 1) आपके द्वारा जमा किया गया प्रक्रिया शुल्क के रसीद संख्या J/170 दि०- 30/05/2016, आपका पत्र क्रमांक कुछ नहीं दि० 23/05/2016 एवं 19/09/2016।

2) इस कार्यालय का समसंख्यक पत्र दि०-12/09/2016।

महोदय,

खनिज संरक्षण एवं विकास नियमावली, 1988 के नियम 12 के उपनियम (4) के द्वारा प्रदत्त शक्तियों के अधीन एतद द्वारा मध्य प्रदेश राज्य के सतना जिले में स्थित आपकी मैडी (Mendhi) लाइमस्टोन खान (क्षेत्र 117.594 हे०) की माइनिंग स्कीम का अनुमोदन प्रदान करता हूँ। यह अनुमोदन निम्नलिखित शर्तों के अधीन है-

- 1 The Scheme of mining is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
- 2 The proposals shown on the plates and/or given in the document is based on the lease map /sketch submitted by the applicant/ lessee and is applicable from the date of approval.
- 3 It is clarified that the approval of aforesaid Scheme of Mining does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Act, 1957, or the Mineral Concession Rules, 1960 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
- 4 Indian Bureau of mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the applicant / lessee.
- 5 At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.
- 6 The Financial Assurance submitted by you for Rs 16,25,000 (Rs. Sixteen Lakh Twenty Five Thousand only) valid up to 31/03/2021 and next Financial Assurance shall be submitted on or before 31/03/2021.
- 7 This approval is restricted in respect of proposals given in the document for the period from 2016-17 to 2020-21 validity up to 31/03/2021 from the date of approval, subject to all other statutory clearances.
- 8 The next scheme of mining will be due for submission on 01/12/2020.
- 9 As per Madhya Pradesh State Government's order dated 10/08/2011 if there is enhancement of production proposed from that in the approved scheme of mining under such circumstances additional stamp duty has to be paid by the lessee for the enhances quantum of production and also a supplementary agreement has to be made by the lessee.
- 10 If the approval conflict with any other law or court order/direction under any statute, it shall be revoked immediately.

संलग्न-अनुमोदित माइनिंग स्कीम की एक प्रति के साथ।

भवदीय

4th NOV, 2016

(रजनीश पुरोहित)
क्षेत्रीय खान नियंत्रक
भारतीय खान भूतल, जबलपुर

Table no. 1. ML area 772.067 Ha. (Hinauti & Sijahata)

Present Dumps status

Dump No.	Location of Dump	Present Height of Dump (m)
S1	300E to 400E and 80N to 220N	2.0
S2	410E to 880E and 210N to 50N	6.0
S3	920E to 1010E and 320N to 360N	4.0
S4	1060E to 1220E and -60N to 320N	6.0

Table no. 2. ML area 99.416 Ha. (Hinauti & Sijahata)

Present Dumps status

Dump No.	Location of Dump	Present Height of Dump (m)
D1	1720E to 1810E and -1130N to -1155N	6.0
D2	1670E to 1720E and -1240N to -1120N	6.7

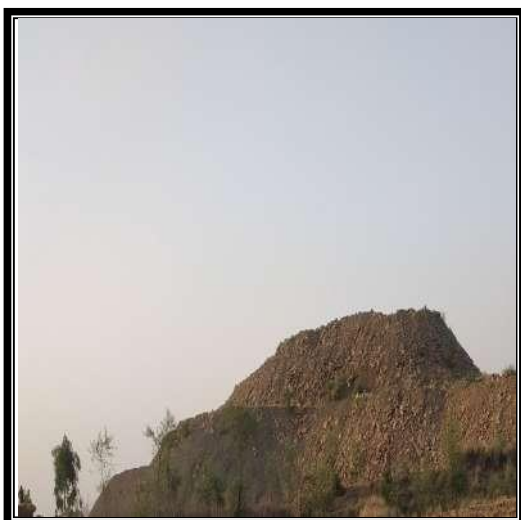
Table no. 3. ML area 512.317 Ha. (Baghai)

Present Dumps status

Dump No.	Location of Dump	Present Height of Dump (m)
S1	644E to 685E and 2092N to 2317N	3.5
S2	848E to 915E and 1432N to 1500N	15.0
S3	927E to 959E and 1242N to 1356N	4.0
S4	1060E to 1220E and -60N to 320N	3.5
S5	1112 E to 1162 E and 997 N to 1187 N	4.0
S6	1478 E to 1540 E and 1307 N to 1438 N	4.0
WS1	635E to 692E and 2338N to 2397N	3.0
WS2	879E to 904E and 2292N to 2323N	3.0
WS4	790E to 868E and 1477N to 1753N	13.0
WS5	1400E to 1538E and 1354N to 1531N	13.0

Table no. 4. ML area 117.594 Ha. (Mendhi)

Present Dumps status:-Nil

Photographs of Dumps:

**PLAN FOR PROTECTION OF THE NATURAL WATER COURSE PASSING NEARBY
PRISM CEMENT LIMITED LEASE AREAS**

1. INTROCUCTION:

The Limestone Mine of M/s. Prism Johnson Ltd. is near villages Hinauti & Sijhatta in district of Satna, Madhya Pradesh. The area is in Vindhyan Limestone/shale formations, where Limestone is bearing mined from mining lease areas of 772.067 Ha. 117.594 Ha. 512.317 Ha. 99.416 Ha., amongst other mining leases. As per the conditions of the Environment Clearance, a plan was protection of natural water courses passing nearby Prism Cement Ltd. Leases was to be prepared and submitted.

The natural water courses under the present plan comprise Tamas River, Nar Nala and Magardha Nala.

2. LAND USE IN THE BUFFER AREA OF THE LEASES:

Buffer zone:

The land use of buffer zone is given in **Table 1** based on satellite imaginary and census data.

TABLE NO.1
Land Use / Land Cover Details of Buffer Zone Area

LAND USE	AREA (in Hectares)	AREA (in %)
River/Canal	634.71	1.32
Ponds/Reservoir	561.73	1.17
Stonsy area	144.16	0.30
Open land	441.36	0.92
Open scrub land	3737.14	7.76
Forest Land	1685.11	3.50
Plantation	2445.89	5.08
Fallow land	29729.69	61.77
Crop land	7542.87	15.67
Human Settlement	706.28	1.47
Industrial Area	75.80	0.16
Mine Quarry	425.75	0.88
Total	48310.49	100

(Source – EIA/EMP)

3. DRAINAGE:

The Tamas (Tons) River mainly controls the drainage pattern. The non seasonal nalla viz. Magardaha and Nar nala flowing on west and east of the lease area respectively flow towards north and ultimately join the Tamas River. The area is almost flat with gentle slope towards East and Northeast. A substantial part of rainfall in the area drains away as surface run-off, along streamlets towards the Northeast to the Tamas River. The drainage map of Tamas (Tons) sub basin of Ganga basin is depicted in **Figure 2**. The drainage pattern of buffer zone (part of Tamas sub basin) is also given in **Figure 3**.

FIGURE 2

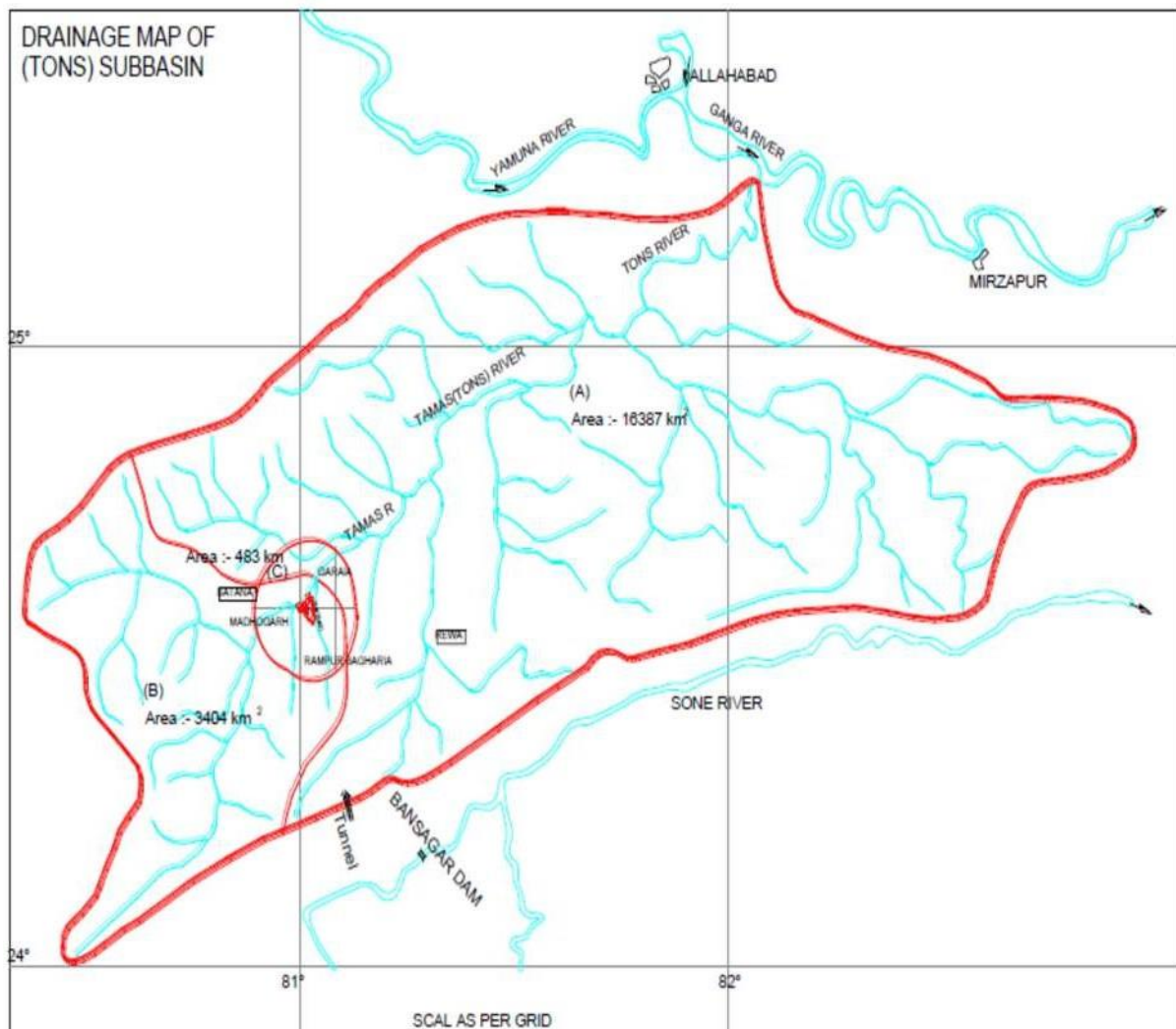


FIGURE-3

DRAINAGE MAP OF BUFFER ZONE

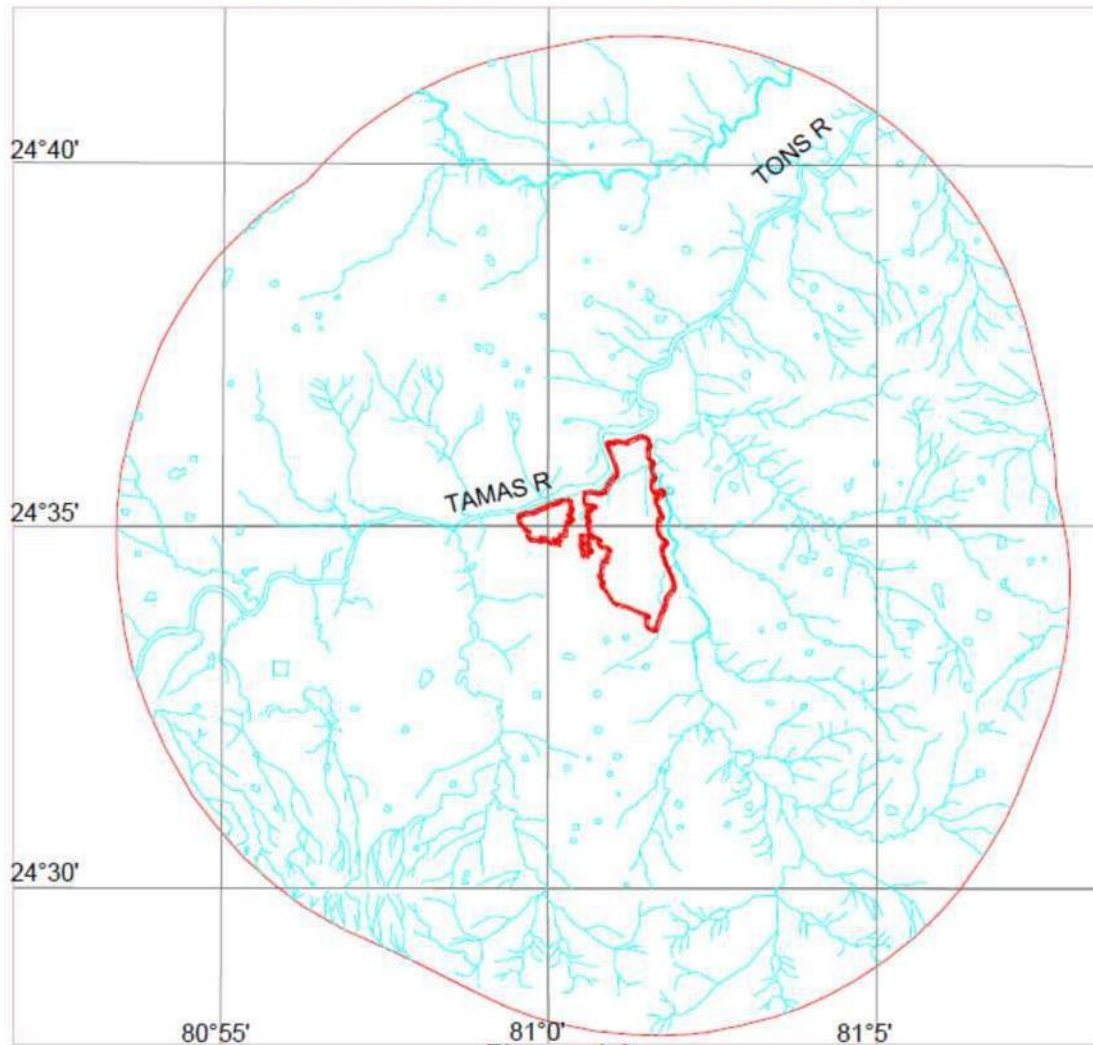


Figure 1.3

4. HYDROMETEROLOGY:

Madhya Pradesh state is situated within 180 N to 250 N and 740 E to 820 E experiences tropical climate. Frontispieces gives the orographic feature of the state. Geographical location and orographic features have profound influence on the climate of area. As per IMD the year may be divided into four seasons. The winter season from January to February is followed by the summer season from March to May. The period from June to September constitutes the southwest monsoon season and the period from October to December form the post monsoon season.

Rainfall : Rainfall data of Mine site and Satna IMD station are collected for the project of 2008 to 2014 and given in (**Table NO. -2**).

TABLE NO.2

Year wise rainfall data (2008 to 2014) : Satna and Mine Site

Month/ Year	2008	2009		2010		2011		2012		2013		2014
	Mine Site	Mine Site	Satna	Mine Site	Satna	Mine Site	Satna	Mine Site	Satna	Mine Site	Satna	Mine Site
Jan	2.0	35.3	12.9	8.8	1.7	0.0	0.0	36.0	32.3	0.0	0.0	38.9
Feb	35.1	0.0	0.0	13.3	5.5	1.0	0.9	0.0	0.0	67.9	45.9	104.3
Mar	1.3	3.6	1.4	0.0	0.0	3.2	0.2	3.6	3.9	34.6	11.5	29.3
Apr	12.0	0.7	3.8	0.0	0.1	0.0	1.1	0.0	0.2	1.8	4.2	8.7
May	12.5	10.5	14.5	18.6	1.6	36.2	7.3	0.0	0.0	0.0	0.0	1.3
Jun	215.6	12.5	25.8	16.9	16.4	313.9	328.6	17.9	15.6	270.4	384.2	90.2
Jul	216.8	173.2	207.6	283.3	228.1	140.2	252.1	380.7	279.7	576.5	338.6	305.2
Aug	220.2	214.9	192.5	198.3	209.7	206.7	289.8	435.0	455.1	414.5	451.6	127.2
Sep	71.5	109.7	152.0	213.5	176.4	205.3	143.9	132.1	169.3	134.9	71.5	193.9
Oct	0.0	72.9	220.4	29.6	13.7	0.0	3.1	15.1	2.5	131.4	143.7	200.7
Nov	20.1	80.9	58.9	11.8	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dec	0.0	2.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9
Total	807.1	716.7	892.7	794.0	662.9	906.5	1027.0	1020.3	958.6	1631.9	1451.2	1121.7

(Source - Mine & Satana Dist.)

5. GEOLOGY:

The relevant portion of Geological report of the area have been adapted for present study. Part of compilation done from other references.

5.1 Regional Geology

Geologically, this area forms part of the Rewa Plateau belonging to the Upper Vindhyan Supergroup of rock formations in Indian stratigraphy. The Vindhyan formations are roadly classified into lower calcareous and an upper arenaceous facies.

The limestone deposit in the area of investigation belongs to the Bhandar series. The general trend of Bhandar Limestone is East - Northeast to West - Southwest having low southerly dips of less than 5°. The litho stratigraphy of Vindhyan formation is given in

TABLE NO.3

Litho stratigraphy of Satna District

Supergroup	Group	Formation
Vindhyan Supergroup	Bhander Group	Maihar Sandstone Sirbu Shale Bhander Limestone
	Rewa Group	Sandstone and shale
	Kaimur Group	Sandstone and shale
	UNCONFORMITY	
	Semri Group	Rohtas Formation Khemjua Formation Porcellance Formation Basal Formation
UNCONFORMITY Bundekhand granites/Bijawar phyllites		

5.2 Local Geology:

The detailed geological prospecting was carried out by GEM Division of ACC to identify the geological structure in the area and association of different rock types. The lithological succession of various formations encountered in the area of investigations based on the sub-surface data generated is as follows:

Overburden Soil
Buff to pale grey magnesian limestone
Upper shaly limestone
Grey limestone
Lower shaly limestone
Grey to grayish grey shale

**6.0 SUGGESTED STRUCTURES FOR PROTECTION AND DEVELOPMENT OF
NATURAL WATER COURSES:**

6.1 RAINWATER HARVESTING

6.1.1 General: Rain water harvesting can be defined as activity of direct collection of Rain

water and storage of rainwater as well as other activity aimed at harvesting and conserving surface and ground water preventing loss through evaporation and seepage and other hydrological studies and engineering inventions aiming at most efficient utilization of rainwater towards best use for the humanity.

The detail project report for rainwater harvesting is given below incorporating; source, area, design of individual structure within mine lease area and outside.

6.1.2 Source of Water:

The source of water available for rainwater harvesting is only surface water. The resource estimation for lease area has been done considering total lease area of 10.25 km² (7.72 km² + 2.53 km²). Monsoon normal rainfall 0.973 m and surface runoff coefficient of 0.40. The estimated surface water resource will be 3.99 MCM out of this 0.58 MCM will be used in plant & mine. The mine water discharge will be zero. It is expected that remaining estimated resource 3.41 MCM will be available for recharge to the system and future use. CGWA while granting ground water had laid condition for implementation of ground water recharge measure to the tune of 1.206 MCM/ year for augmenting the ground water resource of the area.- Source of data, Hydrological Studies Report.

6.1.3 Identification of area:

The areas identified within lease area are given in **Table No.4**

Table no. 4: Identification of area

Sr. No.	Identification of area	Unit
1	Surface water reservoir in the Mined out area as recharge pond.	3 Nos
2	Check dam on Nar nadi.	8 Nos
3	Office and residential building area for Rooftop rainwater harvesting	12 Nos
4	Lease area (side of retention wall) of dump for recharge pit with shaft structure	4 Nos
5	Recharge trench in colony area.	500 m
6	In the colony area away from mine for Gravity head recharge tubewell.	10 Nos

These structures in respective areas will augment the ground water table and shall reduce load on the natural water courses for rural utility of irrigation amongst others.

In addition to the measures taken above, the area in proximity to Tamas River, Magardha Nala and Nar Nala will be provided with bunds above and beyond HFL. Safety barrier of 50 meters will be left out permanently. This barrier will be densely planted thus making the water courses totally immune from mining activities. No mine water will be discharged in the natural water courses without de-siltation in the settling ponds.

The garland drains with check dams are constructed all along the peripheries of the lease area. De-siltation of natural water ways up-stream and down-stream, will be undertaken after consultation with the authorities to keep the natural water courses healthy.

Periodical deepening of village ponds and de-siltation of the same will be carried out to augment water bodies in surrounding areas.

7. CONCLUSION AND RECOMMENDATION:

The natural water ways protection plan will be updated to accommodate new ideas and government water development programs. The present plan with all implementation will keep the natural water courses safe and health.

ECOMEN LABORATORIES PVT. LTD.

Second Floor Hall, House No. B-1/8, Sector-H, Aliganj, Lucknow - 226 024

Phone No. : 0522 - 4079201/2746282

E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1

ecoMen
LABORATORIES PVT LTD.**An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi**

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO: ECO LAB/DW/1525/12/21

TEST REPORT ISSUE DATE: 13.01.2022

TEST REPORT OF DRINKING WATER*

Name of the Company : M/s. Prism Johnson Ltd.

Address of the Company : Village Mankahari, Tehsil Rampur Baghelan
Distt. Satna (M.P.)

Sampling Method : APHA/ IS: 3025

Sample Collected by : Mr. Anish Singh

Sample Quantity : As per requirement.

Date of Sampling : 29.12.2021

Date of Receiving : 03.01.2022

Date of Analysis : 03.01.2022 to 07.01.2022

Source of Sample : PCL Colony Supply Water – Bore Well

Sample ID Code : ELW-15284

Sl. No.	TESTS	PROTOCOL	RESULT	Detection Range	INDIAN STANDARDS as per IS 10500:1991(Reaff:2012)	
					Desirable	Permissible
1.	Colour (Hazen unit)	APHA, 23 rd Ed. 2017, 2120 B	<5.0	5-100	5.00	15.0
2.	Odour	APHA, 23 rd Ed. 2017, 2150 B	Agreeable	Qualitative	Agreeable	Agreeable
3.	Taste	APHA, 23 rd Ed. 2017, A+B	Agreeable	Qualitative	Agreeable	Agreeable
4.	Turbidity as (NTU)	APHA, 23 rd Ed. 2017, 2130-A+B	1.26	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	6.88	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	620.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+B	160.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	296.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	75.20	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	26.24	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	60.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.32	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	102.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	12.45	5.0 - 100	45.0	No Relax.
15.	Manganese as Mn (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.1-5	0.10	0.30
16.	Zinc as Zn (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	0.16	0.02-50	5.0	15
17.	Lead as Pb (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.01-2	0.01	No Relax.
18.	Cadmium as Cd (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.002-2	0.003	No Relax.
19.	Nickel as Ni (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.02-5	0.02	No Relax.
20.	Arsenic as As (mg/l)	APHA, 23 rd Ed. 2017, 3114 C	BDL	0.01-2	0.01	0.05
21.	Total Chromium as Cr (mg/l)	APHA, 23 rd Ed. 2017, 3111 - A +B	BDL	0.04-10	0.05	No Relax.
22.	Mercury as Hg (mg/l)	APHA, 23 rd Ed. 2017, 3112 A+B	BDL	0.001-1	0.001	No Relax.
23.	Copper as Cu (mg/l)	APHA, 23 rd Ed. 2017, 3111 A+B	BDL	0.05-5	0.05	1.5
24.	Boron as B (mg/l)	APHA, 23 rd Ed. 2017, 4500 B A+C	BDL	0.2 - 10	0.5	1.0
25.	Aluminium as Al (mg/l)	APHA, 23 rd Ed. 2017 (3111-A+B)	BDL	1.0-100	0.03	0.2
26.	Free Residual Chlorine (mg/l)	APHA, 23 rd Ed. 2017, 4500-Cl B	BDL	0.5-10	0.20	1.0
27.	Sulphide as H ₂ S (mg/l)	APHA, 23 rd Ed. 2017, Reprint 2007	BDL	0.04-10	0.05	No Relax.
28.	Iodide as I (mg/l)	APHA, 23 rd Ed. 2017, 4500 - IB	BDL	0.1-10	-	-
29.	Iron as Fe (mg/l)	APHA, 23 rd Ed. 2017, 3500 Fe B	0.20	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, 9221 B+C	Absent	1.8	Absent	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, 9221B+E	Absent	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Verified By



Technical Manager

Authorized By



Quality Manager

Ecomen Laboratories Pvt. Ltd.
Second Floor Hall, House No. B-1/8,
Sector-H, Aliganj, Lucknow-226024

ECOMEN LABORATORIES PVT. LTD.

Second Floor Hall, House No. B-1/8, Sector-H, Aliganj, Lucknow - 226 024

Phone No. : 0522 - 4079201/2746282

E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1**ecoMen**
LABORATORIES PVT LTD.

An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi

FORMAT NO. ECO/QS/FORMAT/23 REPORT NO: ECO LAB/Piezo/GW/1243/12/21
TEST REPORT ISSUE DATE: 05.01.2022**REPORT OF WATER LEVEL MEASUREMENT**

Name of the Customer : M/s. Prism Johnson Ltd.
Address of the Customer : Village - Mankahari,
Tehsil - Rampur Baghelan
Distt. Satna (M.P.)
Measurement by : Mr. Anish Singh & Manoj Gupta
Date of Measurement : December 30th, 2021

Sl. No.	Piezometer Name.	Water Level (meter)
1.	Colony Gate	14.76
2.	Behind B Block	15.58
3.	Behind C Block	4.38
4.	Auto Work Shop	13.53
5.	In Front Den	5.41
6.	Rose Garden near boundary	18.90
7.	Rose Garden near Road	18.70
8.	Western Block Mines	11.20
9.	Near New Magazine Mines	11.21
10.	Mankahari Mines	16.58
11.	Mines near Ramprasan	13.41
12.	Side Office Mines	Block

Verified By


Technical Manager

Authorized By


Quality Manager

---End of Report---

Ecomen Laboratories Pvt. Ltd.
Second Floor Hall, House No. B-1/8,
Sector-H, Aliganj, Lucknow-226024



Event Report

Date/Time Vert at 10:40:24 March 22, 2022
 Trigger Source Geo: 0.500 mm/s, Mic: 2.000 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time 3.091 sec (Auto=7Sec) at 1024 sps
 Operator/Setup: Operator/SSB.mmb

Serial Number UM8131 V 10-76 Micromate ISEE
 Battery Level 3.3 Volts
 Unit Calibration December 6, 2021 by UES New Delhi
 File Name UM8131_20220322104024.IDFW

Notes
 Location:
 Client:
 User Name: PRISM JOHNSON LIMITED
 General:

Post Event Notes
 H-16/GRW/1st Bench (W/R), No of holes 60 nos, Depth - 3.0 Mtrs.
 Charge/delay - 2.91 Kg/delay, Observation Distance - 160 mts

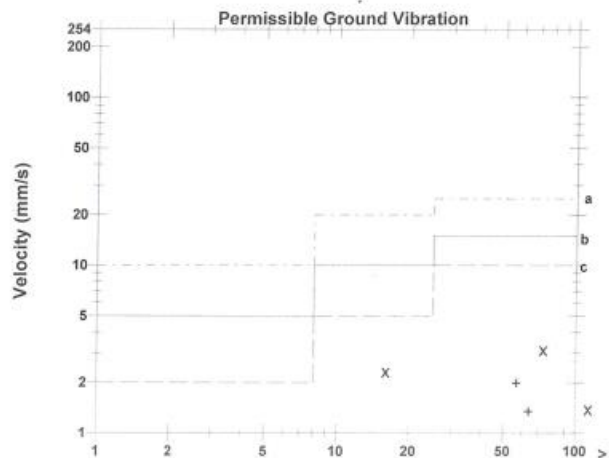
Extended Notes
 PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
 PSPL 1.645 pa.(L) at 0.009 sec
 ZC Freq 5.2 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1346 mv)

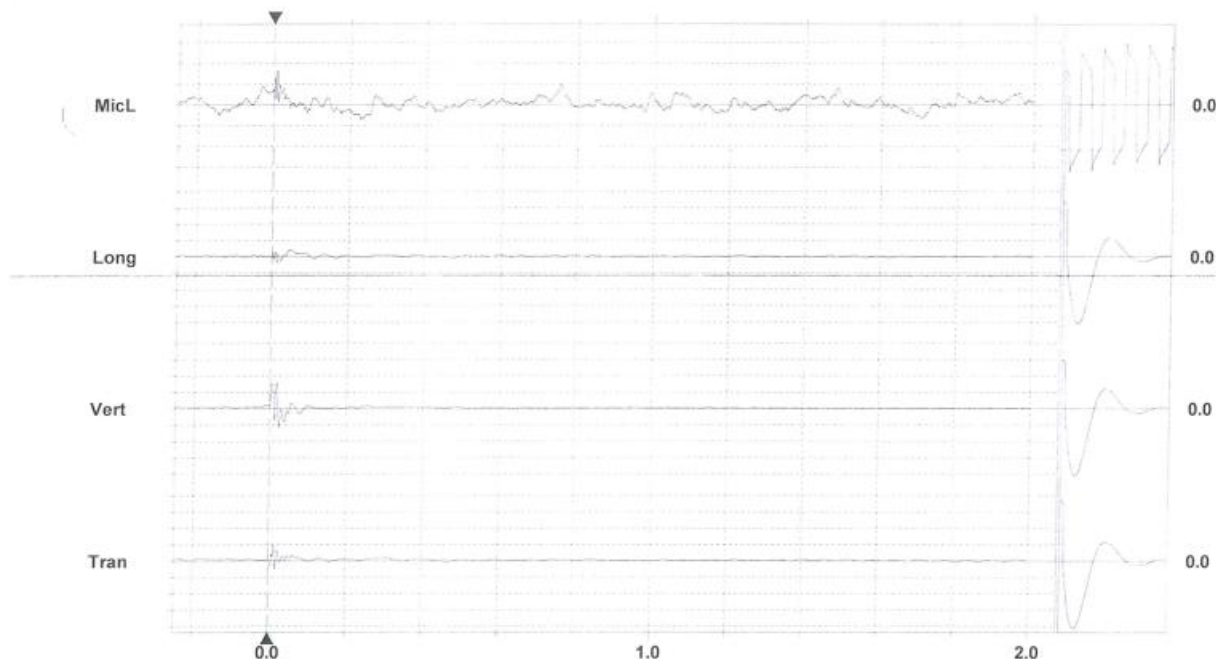
	Tran	Vert	Long	
PPV	1.994	3.153	0.828	mm/s
PPV (Ponderated)	0.711	2.057	0.888	mm/s
PPV	56.99	60.97	49.36	dB
ZC Freq	57	73	7.6	Hz
Time (Rel. to Trig)	0.014	0.018	0.046	sec
Peak Acceleration	0.108	0.146	0.061	g
Peak Displacement	0.129	0.112	0.053	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.1	Hz
Overswing Ratio	3.5	3.4	3.6	

Peak Vector Sum 3.298 mm/s at 0.018 sec

DGMS India (A)



- a) Industrial Buildings
 b) Domestic houses/structures
 c) Historic objects, sensitive structures



Time scale has been modified and may not represent the actual length of the event record

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Trigger =

Sensor Check

Scata *Shub*

Date/Time Vert at 10:48:36 March 24, 2022
 Trigger Source Geo: 0.500 mm/s, Mic: 2.000 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time 5.0 sec (Auto=7Sec) at 1024 sps
 Operator/Setup: Operator/SSB.mmb

Serial Number UM8131 V 10-76 Micromate ISEE
 Battery Level 3.3 Volts
 Unit Calibration December 6, 2021 by UES New Delhi
 File Name UM8131_20220324104836.IDFW

Notes
 Location:
 Client:
 User Name: PRISM JOHNSON LIMITED
 General:

Post Event Notes
 H-16/GRW/1st Bench (W/R), No of holes 61 nos, Depth - 3.0 Mtrs.
 Charge/delay - 2.86 Kg/delay, Obsevation Distance - 160 mts

Extended Notes

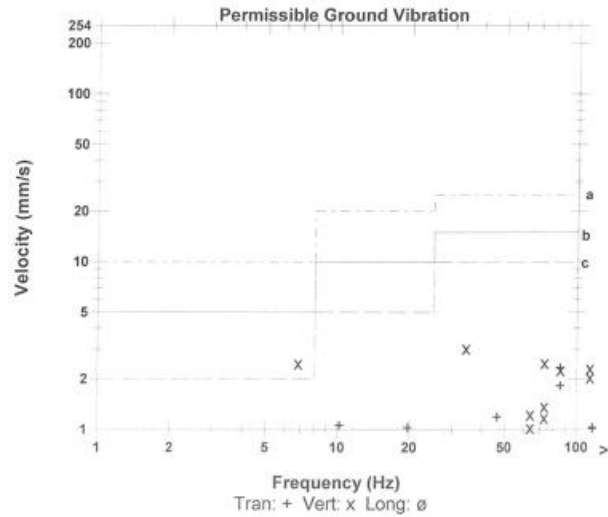
PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
 PSPL 1.055 pa.(L) at 1.238 sec
 ZC Freq 5.0 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1342 mv)

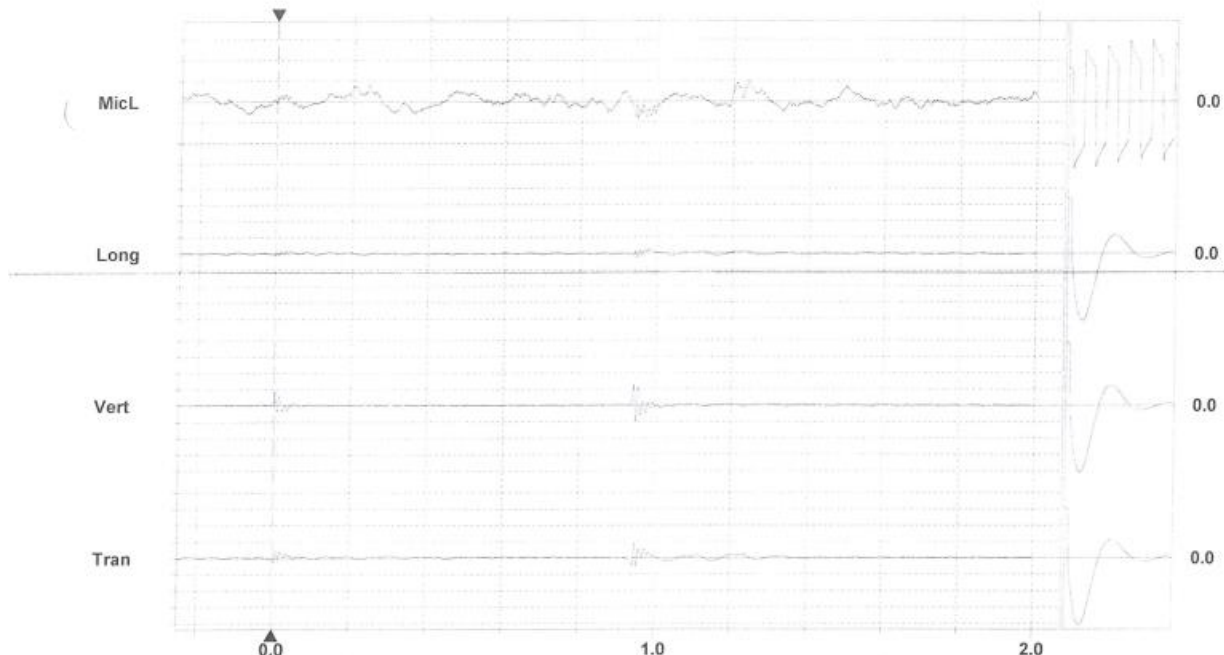
	Tran	Vert	Long	
PPV	2.325	3.050	0.552	mm/s
PPV (Ponderated)	0.706	1.204	0.485	mm/s
PPV	58.33	60.69	45.83	dB
ZC Freq	85	34	85	Hz
Time (Rel. to Trig)	3.374	3.368	0.947	sec
Peak Acceleration	0.117	0.178	0.036	g
Peak Displacement	0.065	0.080	0.007	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.3	Hz
Overswing Ratio	3.7	3.4	3.7	

Peak Vector Sum 3.254 mm/s at 3.368 sec

DGMS India (A)



a)Industrial Buildings
 b)Domestic houses/structures
 c)Historic objects, sensitive structures



Time scale has been modified and may not represent the actual length of the event record

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Trigger =

Sensor Check

Date/Time Vert at 10:52:22 March 26, 2022
 Trigger Source Geo: 0.500 mm/s, Mic: 2.000 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time 5.568 sec (Auto=7Sec) at 1024 sps
 Operator/Setup: Operator/SSB.mmb

Serial Number UM8131 V 10-76 Micromate ISEE
 Battery Level 3.4 Volts
 Unit Calibration December 6, 2021 by UES New Delhi
 File Name UM8131_20220326105222.IDFW

Notes
 Location:
 Client:
 User Name: PRISM JOHNSON LIMITED
 General:

Extended Notes
 PRISM CEMENT LIMESTONE MINES

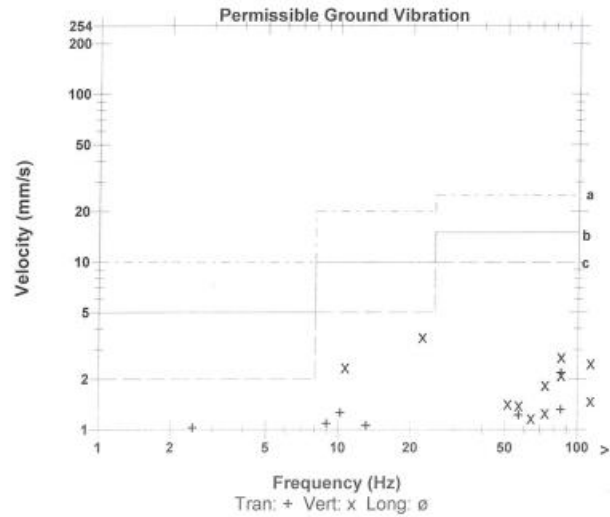
Microphone Linear Weighting
 PSPL 1.272 pa.(L) at 3.424 sec
 ZC Freq 8.4 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1351 mv)

	Tran	Vert	Long	
PPV	2.183	3.578	0.512	mm/s
PPV (Ponderated)	0.741	1.418	0.455	mm/s
PPV	57.78	62.07	45.19	dB
ZC Freq	85	22	>100	Hz
Time (Rel. to Trig)	3.048	3.042	3.042	sec
Peak Acceleration	0.114	0.198	0.036	g
Peak Displacement	0.117	0.117	0.075	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.3	Hz
Overswing Ratio	3.5	3.4	3.6	

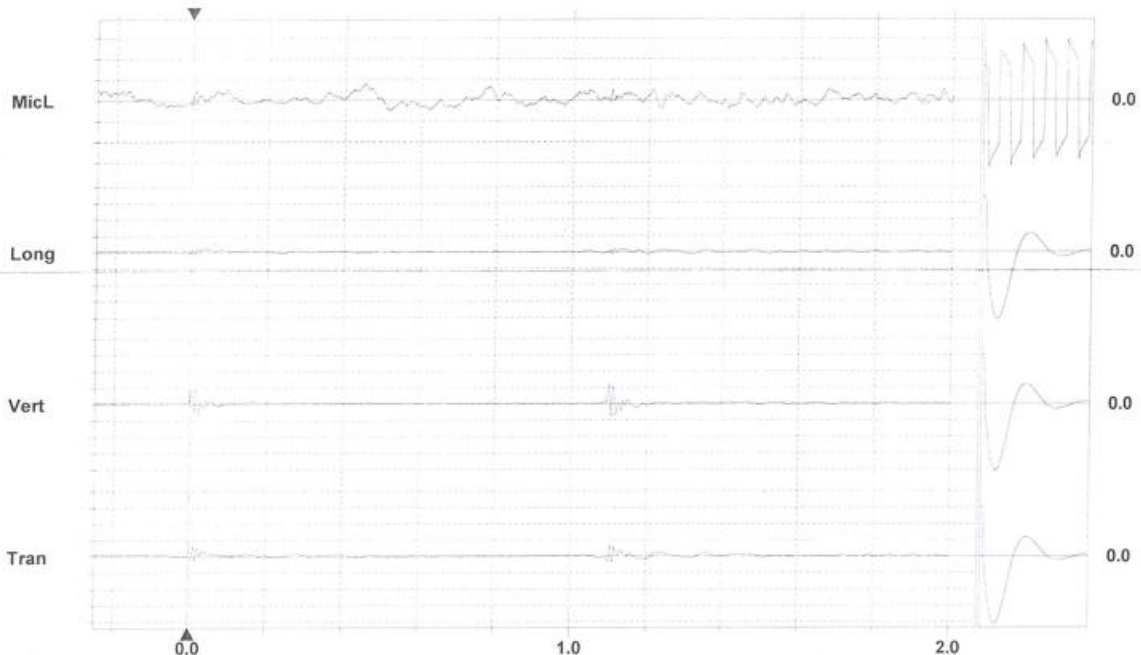
Peak Vector Sum 3.766 mm/s at 3.042 sec

Post Event Notes
 H-16/GRW/1st Bench (W/R), No of holes 54 nos, Depth - 3.0 Mtrs.
 Charge/delay - 2.77 Kg/delay, Obsevation Distance - 160 mts

DGMS India (A)



a) Industrial Buildings
 b) Domestic houses/structures
 c) Historic objects, sensitive structures



Time scale has been modified and may not represent the actual length of the event record

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Trigger =

Sensor Check

[Handwritten signatures]

Date/Time Vert at 11:06:36 March 26, 2022
 Trigger Source Geo: 0.500 mm/s, Mic: 2.000 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time 1.5 sec (Auto=7Sec) at 1024 sps
 Operator/Setup: Operator/SSB.mmb

Serial Number UM8131 V 10-76 Micromate ISEE
 Battery Level 3.4 Volts
 Unit Calibration December 6, 2021 by UES New Delhi
 File Name UM8131_20220326110636.IDFW

Notes
 Location:
 Client:
 User Name: PRISM JOHNSON LIMITED
 General:

Post Event Notes
 H-16/GRW/1st Bench (W/R), No of holes 55 nos, Depth - 3.0 Mtrs.
 Charge/delay - 2.72 Kg/delay, Obsevation Distance - 160 mts

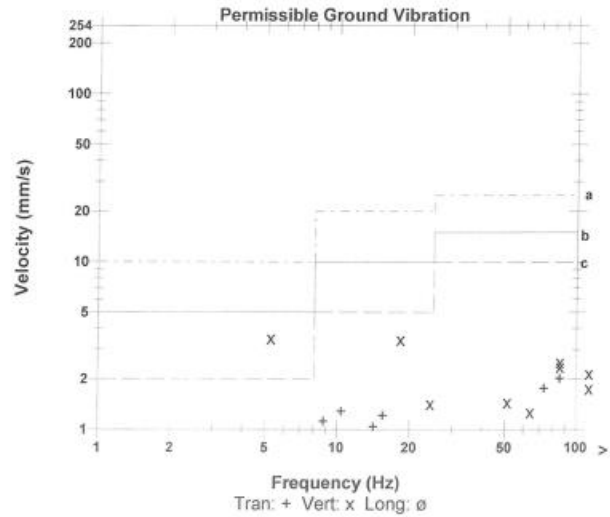
Extended Notes
 PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
 PSPL 1.055 pa.(L) at -0.189 sec
 ZC Freq 5.8 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1346 mv)

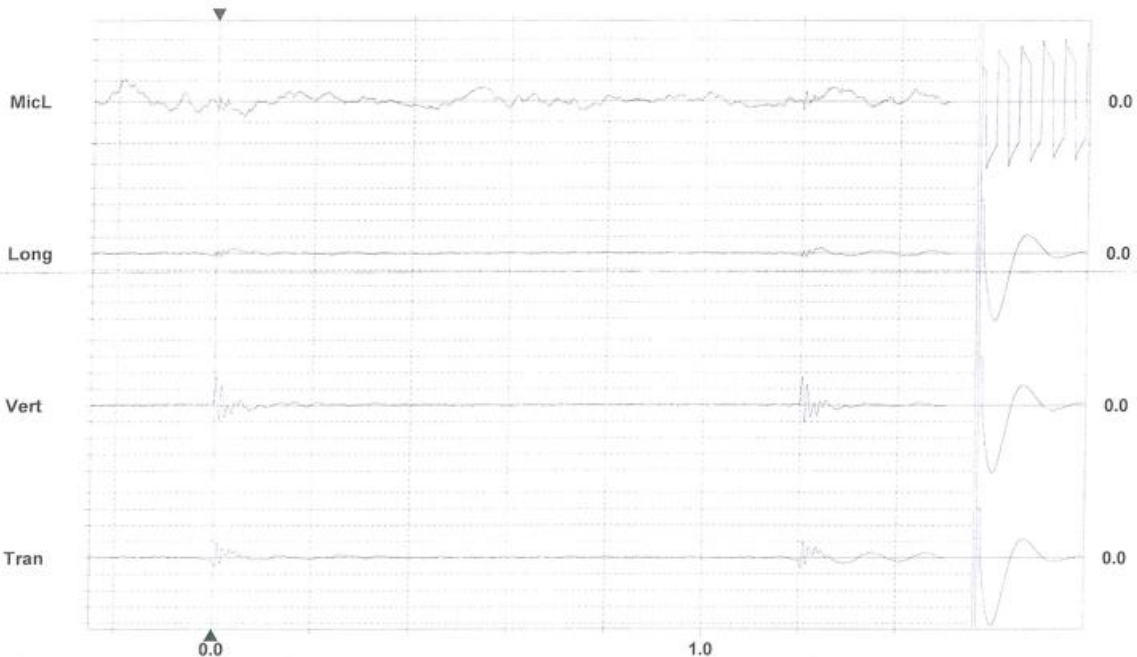
	Tran	Vert	Long	
PPV	2.018	3.500	0.701	mm/s
PPV (Ponderated)	0.881	1.624	0.641	mm/s
PPV	57.10	61.88	47.92	dB
ZC Freq	85	5.3	14	Hz
Time (Rel. to Trig)	1.210	0.004	1.239	sec
Peak Acceleration	0.108	0.180	0.029	g
Peak Displacement	0.048	0.036	0.010	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.3	Hz
Overswing Ratio	3.6	3.4	3.7	

Peak Vector Sum 3.662 mm/s at 1.205 sec

DGMS India (A)



- a) Industrial Buildings
- b) Domestic houses/structures
- c) Historic objects, sensitive structures



Time scale has been modified and may not represent the actual length of the event record

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Trigger =

Sensor Check

Shal

Date/Time Vert at 10:41:16 March 28, 2022
Trigger Source Geo: 0.500 mm/s, Mic: 2.000 pa.(L)
Range Geo: 254.0 mm/s
Record Time 1.597 sec (Auto=7Sec) at 1024 sps
Operator/Setup: Operator/SSB.mmb

Serial Number UM8131 V 10-76 Micromate ISEE
Battery Level 3.7 Volts
Unit Calibration December 6, 2021 by UES New Delhi
File Name UM8131_20220328104116.IDFW

Notes
Location:
Client:
User Name: PRISM JOHNSON LIMITED
General:

Post Event Notes
H-16/GRW/1st Bench (W/R), No of holes 71 nos, Depth - 3.0 Mtrs.
Charge/delay - 2.81 Kg/delay, Obsevation Distance - 160 mts

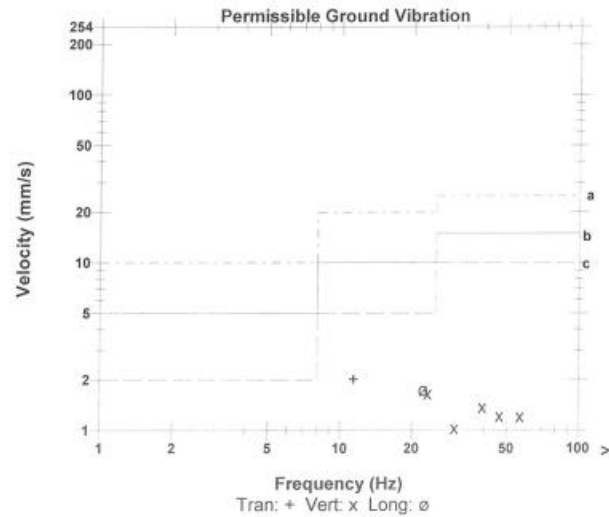
Extended Notes
PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
PSPL 0.884 pa.(L) at 0.004 sec
ZC Freq 85 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1351 mv)

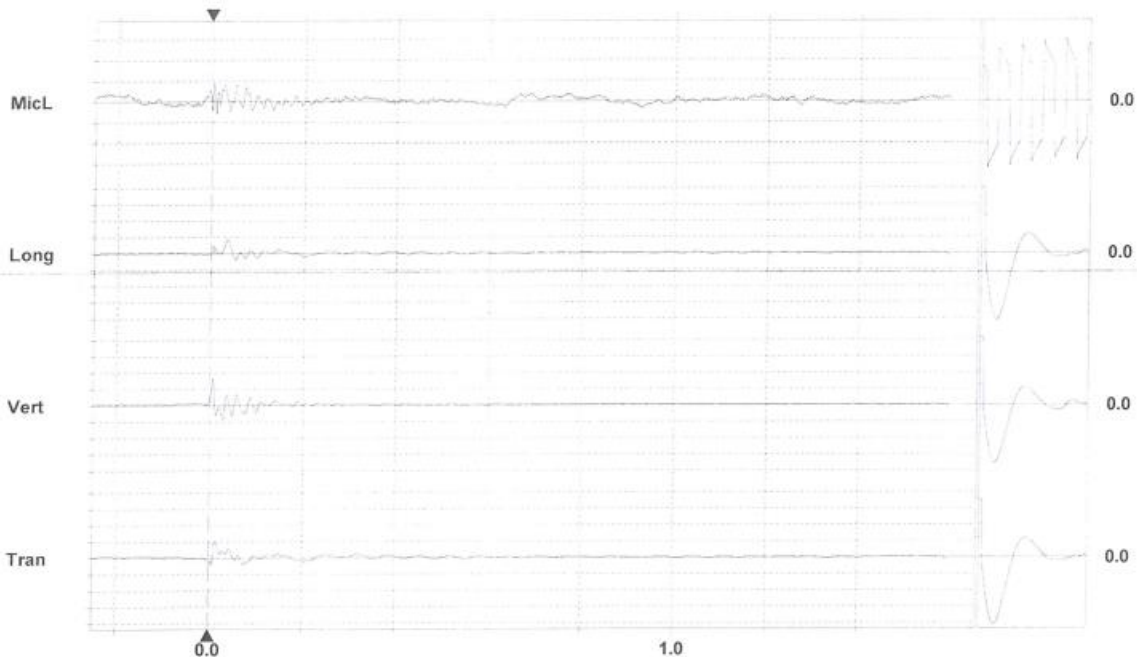
	Tran	Vert	Long	
PPV	2.018	3.326	1.742	mm/s
PPV (Ponderated)	1.690	1.929	1.623	mm/s
PPV	57.10	61.44	55.82	dB
ZC Freq	11	N/A	22	Hz
Time (Rel. to Trig)	0.013	0.007	0.037	sec
Peak Acceleration	0.078	0.110	0.044	g
Peak Displacement	0.086	0.119	0.024	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.3	Hz
Overswing Ratio	3.5	3.3	3.5	

Peak Vector Sum 3.401 mm/s at 0.007 sec
N/A: Not Applicable

DGMS India (A)



- a) Industrial Buildings
- b) Domestic houses/structures
- c) Historic objects, sensitive structures



Time scale has been modified and may not represent the actual length of the event record

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Trigger =

Sensor Check

Shah *Shah*

***An Analysis to Monitor the change in Land Use /
LandCover Using Remote Sensing & GIS Technique
Final Report***

“ Digital Processing of Mining Leases- 772Ha, 512Ha, 117Ha & 99Ha using Remote Sensing Technique for the fulfillment of EC Compliance of Cement Unit Plant II and Integrated Mines” for Prism Johnson Ltd (Formerly Prism Cement Ltd)in Satna, Madhya Pradesh.



Submitted By:

SPA GEO TECHNOLOGIES PVT LIMITED

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Sector -4, Vaishali, NCR, Ghaziabad - 201012

URL: www.spageo.co.in

Email: info@spageo.co.in ; alok@spageo.co.in

Tel: 91-120-4567200, Fax: 91-120-4567100

Purchase Order

PO No : 3100157191 - P200

PO Date : 22.06.2020



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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 (Formerly Prism cement 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 772.067 HA, 512.317 HA, 117.594 HA & 99.416 HA 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 (Formerly Prism cement 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, Satna district (MP) where cement Plant-II . 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. it is 22 km. from Satna city and 3 Km. from Satna - Rewa highway.

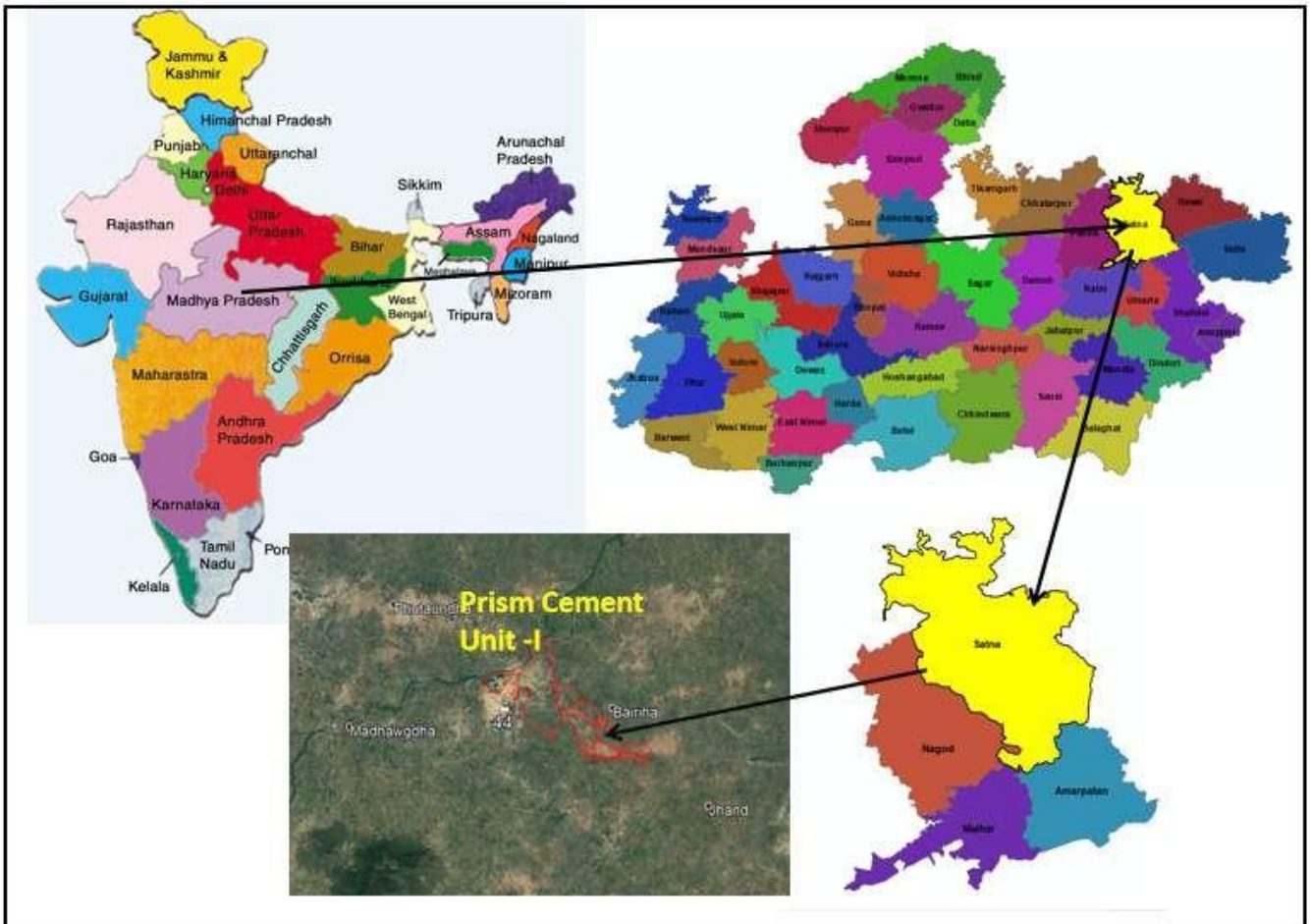
The details of the Mine lease areas are listed in the Table 1:

Table - 1

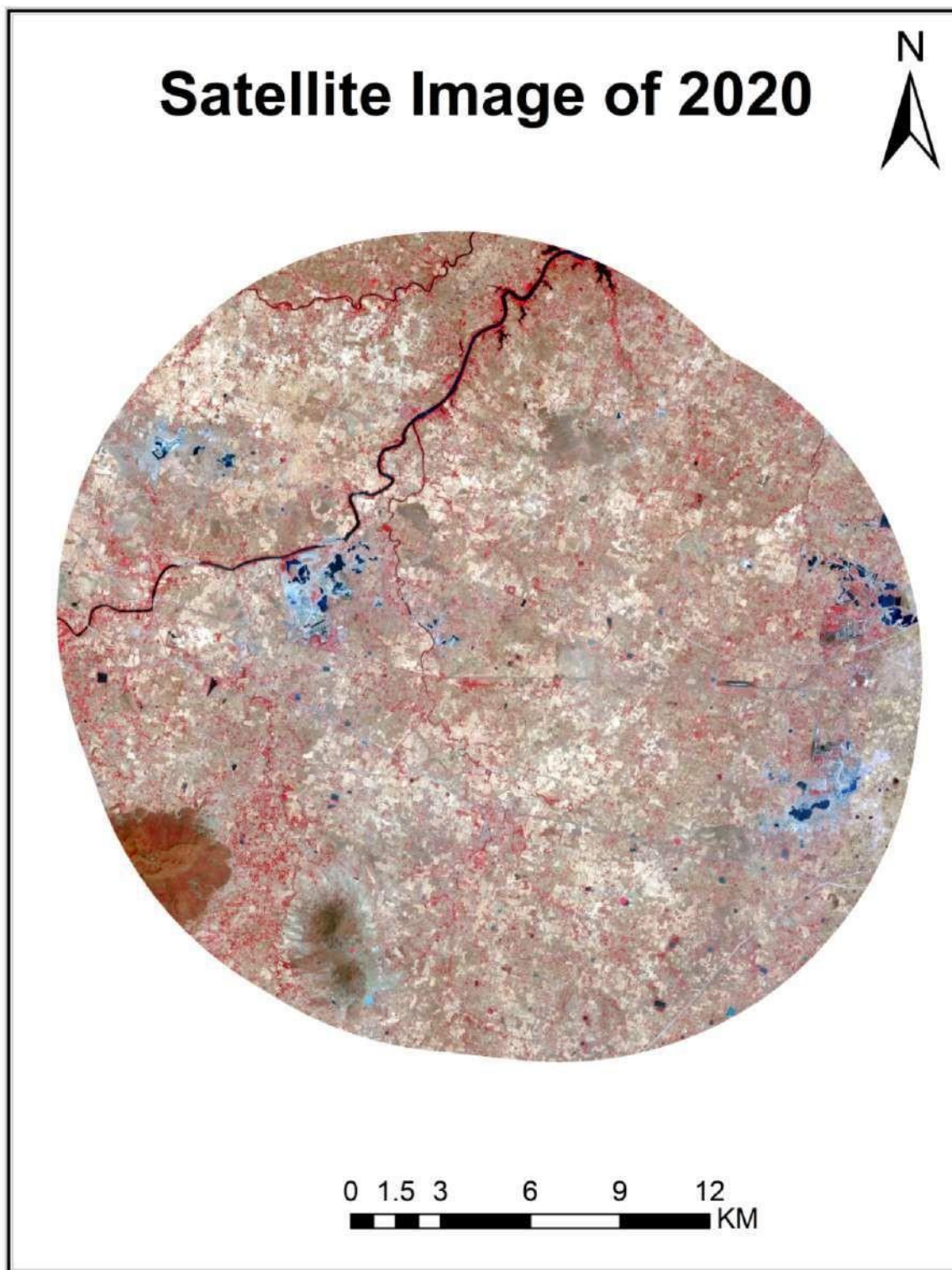
Details	Cement Plant	Hinouti & Sijhatta Lime stone (772.067 & 99.416)	Mendhi Lime stone Mine (117.594)	Baghai Limestone Mine (512.317)
Village	Mankhari	Hinouti & Sijhatta	Mendhi	Baghai
Tehsil	Rampur, Baghelan	Rampur, Baghelan	Rampur, Baghelan	Rampur, Baghelan
District	Satna	Satna	Satna	Satna
State	Madhya 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°33'32.3"N	24°33'20.71"N	24°34'15.3."N	24°33'20.71"N
Longitude	80°59'34.12"E	80°59'20"E	81°02'26.1"E	81°04'47.8"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



1.6. Satellite Image of Study Area



2. APPROACH & METHODOLOGY

Indian remote sensing satellite LISS-IV 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-IV 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-IV 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 truth verification was carried out in the key areas to rectify the errors in generated maps and then land use/land cover maps were finalized.

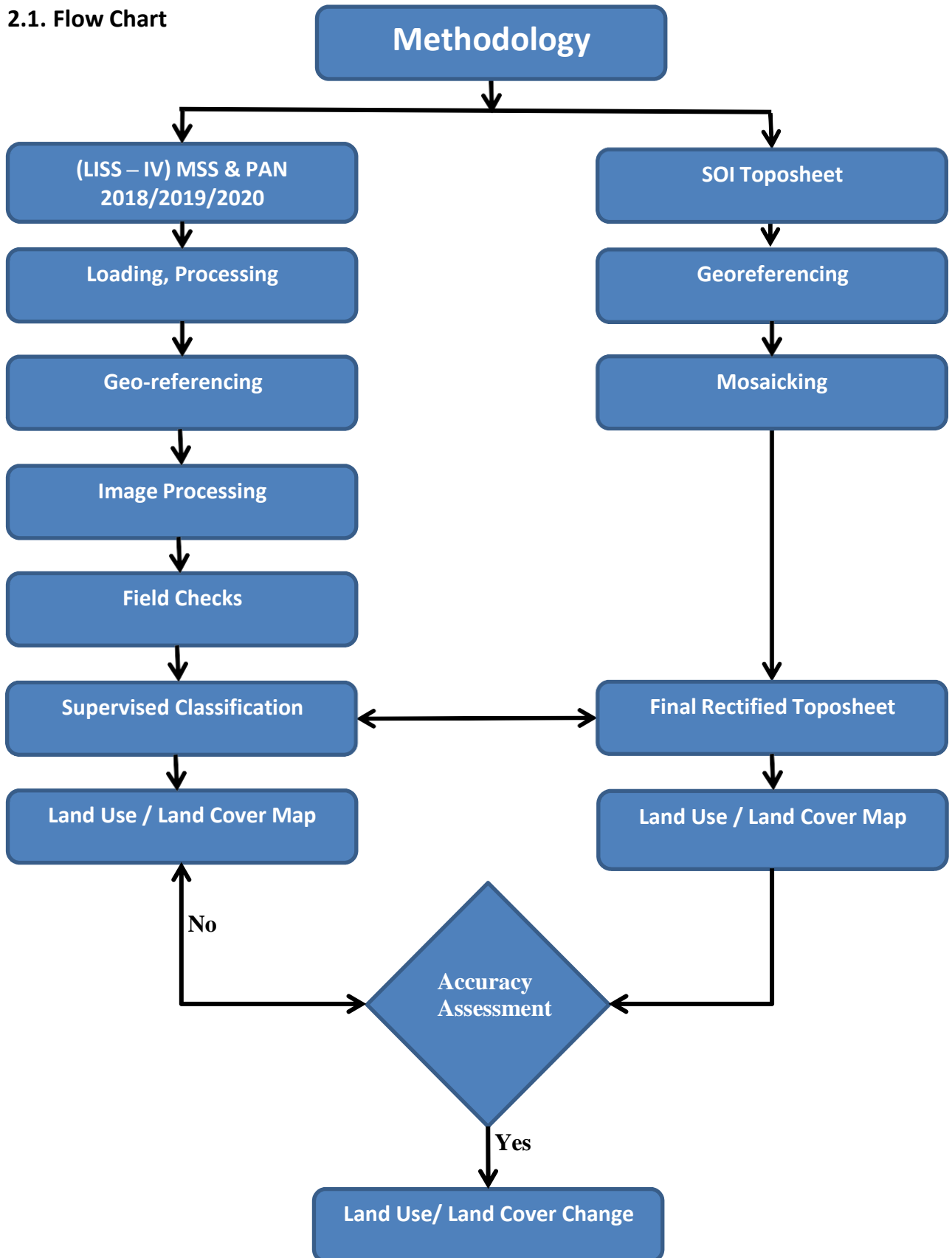
Data available gives uniform spectral and radiometric characteristics and minimize the seasonal variation. The survey of India topographic sheets No. G44U14 & G44V2 on scale 1:50,000 were used for preparation of base map. Secondary data obtained from published material. Visual interpretation is the effective 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. Baghai Lime Stone Mine

Land use /land cover information derived from IRS LISS-IV 2018, 2019 & 2020 (Table 3). 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 **Baghai Lime Stone Mine (512.317)**.

Table - 2 Baghai Lime Stone Mine Land use Details (512.317)(Fig.2)	
Description	2020 (Area In Ha)
<i>CropLand</i>	<i>4.5569</i>
<i>Agriculture-Fallow</i>	<i>413.402</i>
<i>Built up Land</i>	<i>18.1843</i>
<i>Soil Dump</i>	<i>21.844</i>
<i>Limestone Quarry</i>	<i>28.119</i>
<i>Drainage / WaterBody</i>	<i>9.009</i>
<i>WasteLand</i>	<i>24.7409</i>
<i>Plantation</i>	<i>0</i>
<i>Road</i>	<i>0</i>
Total	512.317

2.10.2. Mendhi Lime Stone Mine

Land use /land cover information derived from IRS LISS-IV 2018, 2019 & 2020 (Table 4). 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 of **Mendhi Lime Stone Mine (117 Ha)**.

Table - 3 Mendhi Lime Stone Mine (117 Ha.)(Fig.3)	
Description	2020 (Area In Ha)
<i>Crop Land</i>	3.7463
<i>Agriculture-Fallow</i>	101.88
<i>Built up Land</i>	9.1168
<i>Soil Dump</i>	0.3761
<i>Limestone Quarry</i>	5.9157
<i>Wasteland</i>	1.536
<i>Plantation</i>	1.5347
<i>Road</i>	0
Total	117

2.10.3. Hinouti & Sijhatta Lime Stone Mine

Land use /land cover information derived from IRS LISS-IV 2018, 2019 & 2020 (Table 5). 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 of **Hinouti & Sijhatta Lime stone Mine(772.067 & 99.416 Ha)**.

Table - 4 Hinouti & Sijhatta Lime Stone Mine (772.067 & 99.416 Ha)(Fig. 4)	
Description	2020 (Area In Ha)
<i>Crop Land</i>	18.617
<i>Agriculture-Fallow</i>	574.481
<i>Built up Land</i>	74.568
<i>DumpingLand</i>	13.262
<i>Limestone Quarry</i>	120.267
<i>Drainage / WaterBody</i>	55.512
<i>Wasteland</i>	19.144
<i>Plantation</i>	36.437
Total	871.583

2.10.4. Land Use/Land Cover Map Of Buffer Zone with 10 Sq.km.

Land use /land cover information derived from IRS LISS-IV 2018, 2019 & 2020 (Table 6). 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 - 5 Land Use Details of Buffer Zone (Fig. 5)	
Description	2020 (Area in Ha)
<i>Cement plant unit II Boundary</i>	134.3396
<i>Settlements</i>	4732.44
<i>Agriculture Fallow</i>	49411.6077
<i>Dense Forest</i>	2529.8061
<i>Dumping Land</i>	63.7381
<i>Lime Stone Quarry</i>	838.0919
<i>Open Scrub</i>	2443.2466
<i>Plantation</i>	335.2833
<i>River</i>	572.1627
<i>Road</i>	80.0801
<i>Waste Land</i>	46.6298
<i>Crop Land</i>	229.37306
<i>Water Body</i>	676.9213
<i>Open Mix Jungle</i>	136.7961
<i>Other Quarry Land</i>	677.6188
Total	62598.3184

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 forest land, 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 2020 in the Table no-6. 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.

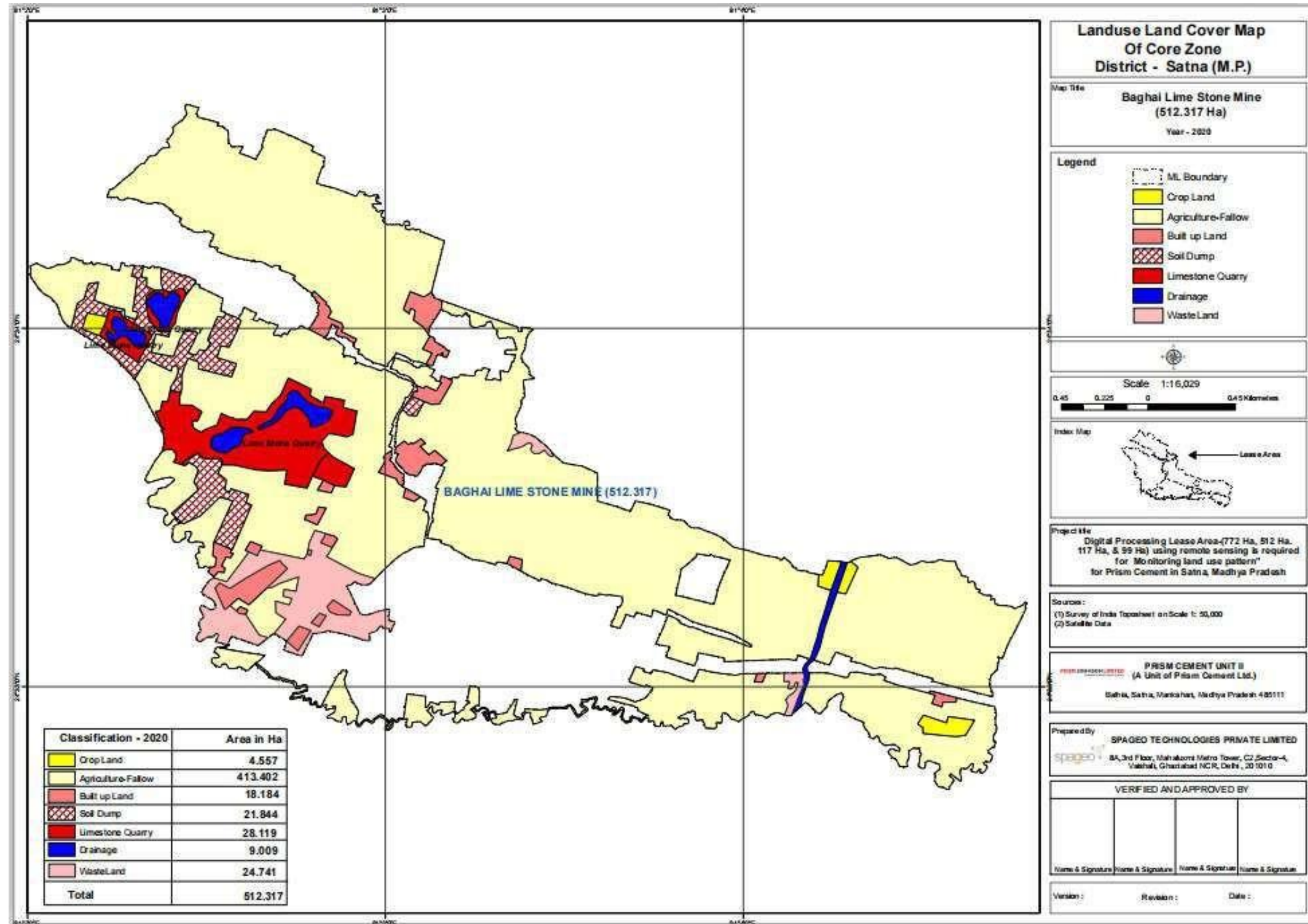


Fig:- 2 Baghai Lime stone Mine Land use Details 2020 (512.317)

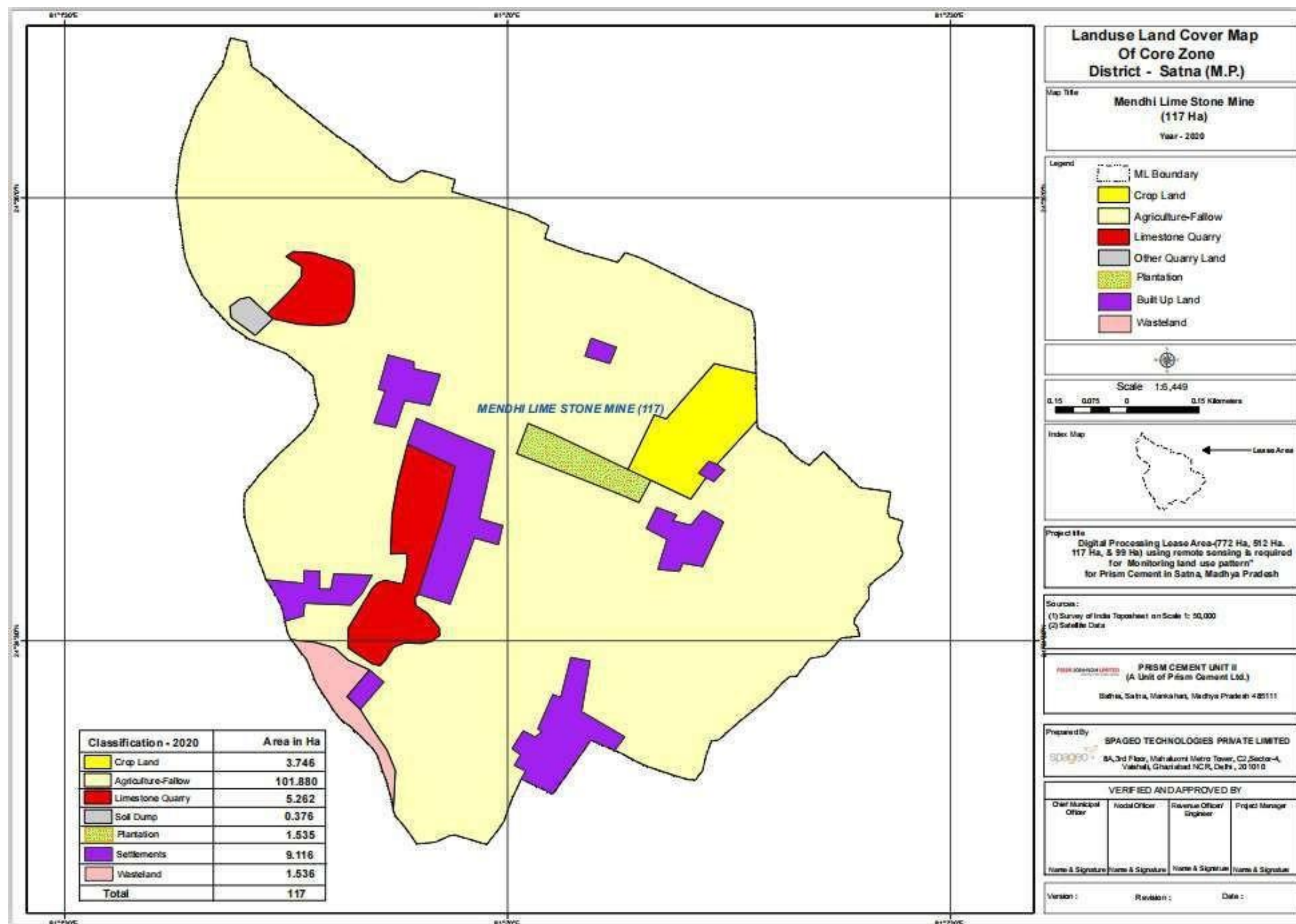


Fig:-3 Mendhi Lime stone Mine Land use Details 2020 (117 Ha.)

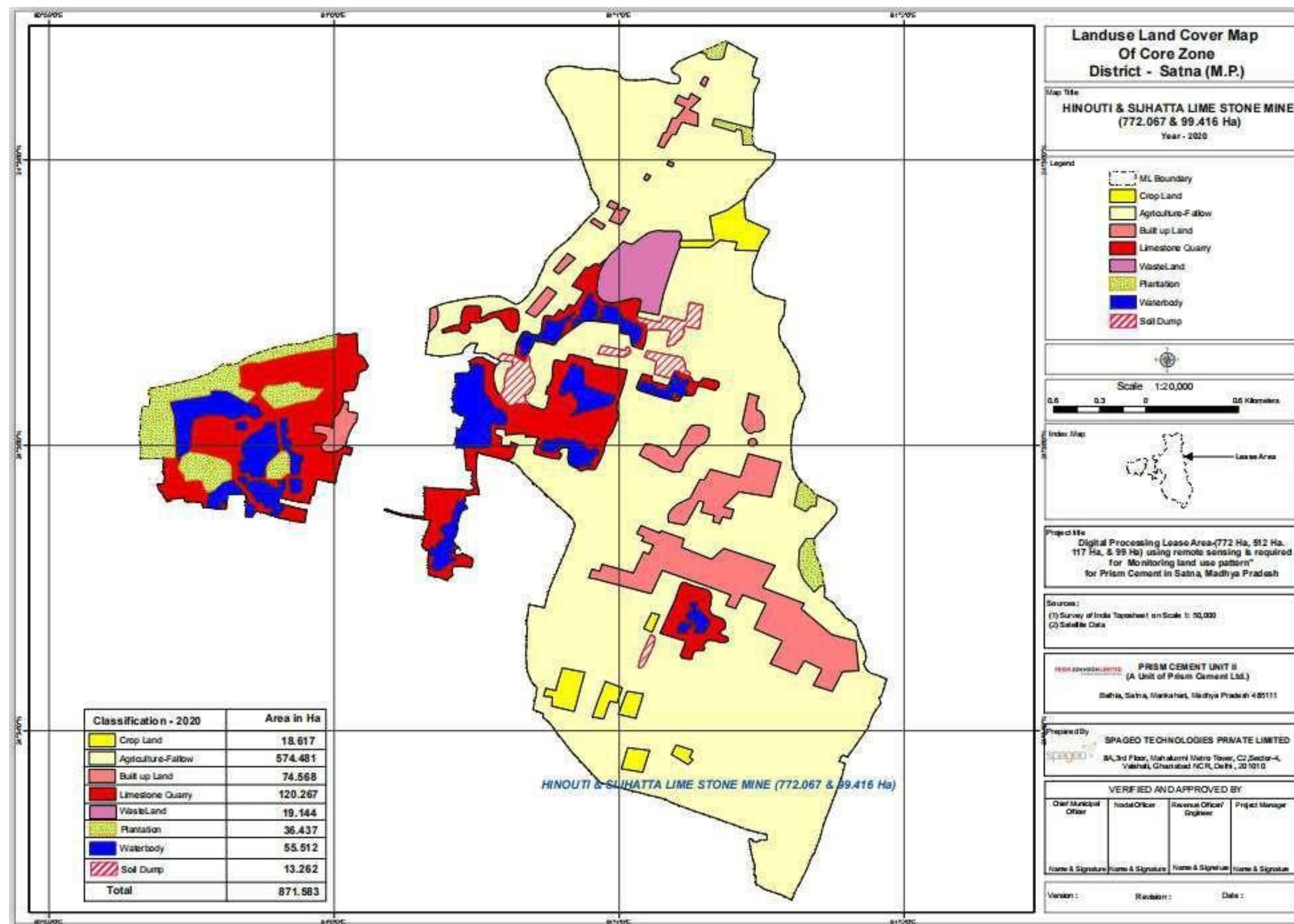


Fig:- 4 Hinouti & Sijhatta Lime stone Mine Land use Details 2020 (772.067 & 99.416)



STATUS OF COMMITMENTS MADE DURING PUBLIC HEARING HELD ON 22.05.2008

S.No.	Name of Candidate	Suggestions & Points raised	Reply of Project Proponent	Present Status
1	Mrs. Guddi devi, Chairperson "Garib Sangh Samiti" Bamhauri, Satna	a) Admission on merit and free of fee for admission b) Plantation to be done from plant gate to Mahuracch Junction c) Street light facility from Plant gate to Mahuracch Junction d) Permanent employment to effected person	Provision for proper facilities will be considered Agreed, plantation will be done during rainy season Work will be taken up by the management as per financial position of the company Employment will be granted as per rules and regulations of company	Admission is given to the students of surrounding villages as per availability of seats and guidelines of the company Plantation is being done on road side and around the Mankahari Pond Few lamp posts have been established and will be extended in phase wise Employment and other facilities are being provided to affected persons
2	'Sarpanch' Village Panchayat – Bathia, Satna	Employment to local villagers of Bamhauri	Employment will be granted as per rules and regulations of company	More than 50% employment has been given to local persons
3	Mithilesh – (student) Bamhauri, Satna	Appeal of Pollution Control in industry	All pollution control acts will be complied with	All due provisions have been made to combat pollution likely to be caused. <ul style="list-style-type: none"> • Details of APCEs are as under 1- Raw mill/ Kiln – Bag House (1) 2- Cooler – ESP (1) 3- Coal Mill – Bag House (1) 4- Cement mills – Bag House (2) 5- 92 Bag filters installed to cover all the transfer points • Arrangement of water sprinkling at crusher hopper and limestone conveyor bet • Water sprinkling on haul roads

				through tankers
4	Mr. Triloki Singh Baghel, Village – Bamhauri, Satna	a) Priority to employment for eligible persons b) Construction of Stadium in the ground of Higher Secondary School c) Permanent water & electricity supply in school d) Admission for village children to Prism Bhawan School e) To & fro School Bus facility to Satna for the students of villages f) Distribution of sports material to Panchayat	Employment will be granted as per rules and regulations of company Action will be taken Adequate action will be taken Admission will be granted as per rules and regulation of company Provision for proper facilities will be considered Adequate action will be taken	Employment is being given to eligible persons as per rules framed by the company Play ground has been rehabilitated. Maintenance is done as per requirement. Water & Electricity supply are available at school Admissions is being given to village students as per availability of seats School bus service has been provided to students of villages for commuting to Satna Study and sports materials are being distributed to village students
5	Mrs. Kalawati Singh, Bamhauri, Satna	Provision of facilities from Prism Cement for the land sellers to company	Adequate action will be taken as per rules & regulation of company	All the possible services are being provided to land losers
6	Mr. Ajit Khureshi, National Civil Human Right Association, Country Head Qtr Delhi, Camp Satna	19 point comments raised on pollution	All pollution control acts will be complied with	All due provisions have been made to combat pollution likely to be caused. <ul style="list-style-type: none"> Details of APCEs are as under 1- Raw mill/ Kiln – Bag House (1) 2- Cooler – ESP (1) 3- Coal Mill – Bag House (1) 4- Cement mills – Bag House (2) 5- 90 Bag filters installed to cover

				all the transfer points <ul style="list-style-type: none"> • Arrangement of water sprinkling at crusher hopper and limestone conveyor belt • Water sprinkling on haul roads through tankers
7	Mr. Shankar Singh, Rtd. Commissioner, (Milk & Dairy Dept), 31 Rachna Nagar, Bhopal	Employment should be provided to effected villagers	Employment will be granted as per rules and regulations of company	Employment is being provided to affected villagers. More than 50% employment has been given to local persons
8	Mr. Ramadhar Prasad, Sarpanch, Village- Hinauti, Satna	Necessary assistance & help will be extended by him for the establishment of industry with the protection of environment from Pollution	Thanks & All pollution control acts will be complied with	All the efforts are being done to control the pollution
9	Sarpanch, Village Panchayat- Mankahari, Satna	Expressed his consent to establish the industry	Thanks & Agreed	----
10	Sarpanch, Village Panchayat- Sijahata, Satna	Expressed his consent to establish the industry	Thanks & Agreed	----
11	Sarpanch, Village Panchayat- Sijahata, Satna	Suggested to plant 10000 saplings, seek help to improve health, sanitation facilities in villages and employment for educated persons	Agreed, Plantation will be done during rainy season, health, sanitation and employment will be considered as per rules and regulation of company	Improving green cover in and around plant premises is always company's utmost priority. Saplings are also distributed to village students to promote plantation & to make awareness. Villagers seeking medical attention have also easy access to medical centre of prism cement plant. Apart from this, free medical camps are also being regularly organised in nearby villages. Employment is also being given as

				per rules of the company
12	Mr. Diwakar Pd. Mishra Mr. Shankhadhar Mishra Panch – Village Bamhauri, Satna	Expressed his consent to establish the industry	Thanks & Agreed	---
13	Mr. Sobha Nath Tiwari, Village- Bamhauri, Satna	Plantation to be done on road side & water spraying on roads	Agreed	Plantation is in continuous practice. Saplins are also distributed to villagers.
14	Mr. Tejpal Singh Parihar, & Mr. Shankhadhar Mishra, Village – Hinauti, Satna	Eradication of diseases & pollution from village Hinauti	Best efforts and assistance will be extended	Medicals camps and other awareness programmes are being organised by the company
15	Mr. Ramesh Kumar Tiwari & Sarpanch Village Mankahari, Satna	Expressed their consent to established the industry	Thanks & agreed	----
16	Mr. Girija Prasad Tiwari & Others, Village Panchayat Bagahai	Improvement in tree plantation, health, education, drinking water, employment & setting up of worship places	All demands will be considered as per rules and regulations of company	Plantation is in continuous practice. Saplins are also distributed to villagers. Villagers seeking medical attention have also easy access to medical centre of prism cement plant. Apart from this, free medical camps are also being regularly organised in nearby villages. Study materials, bags, uniforms etc are being distributed to the students of nearby villages. Free drinking water is being supplied through tankers during summer season as per requirement Renovation of Jabala Baba temple, construction of Ghat and Yagya Shala has been done by the company.



Consent Order

Annexure 14

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

RED-LARGE

CCA-Expansion
Validity [A/W] : 30.06.2023

CONSENT NO: ***

PCB ID: 13880

Outward No:115047,25/03/2022

Consent No:AW-55475

To,
The Occupier,
M/s. Prism Johnson Ltd., (Cement Division Unit-II),
Village-Mankahari, P.O. Bathia,
Tehsil-Rampur Baghelan,
Distt. Satna-485111 (M.P.)

Subject: Grant of Consent to Operate for Expansion 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: 1. Your Application Receipt No. 1129999 Dt. 07/03/2022 and last communication received on Dt. 11/03/2022
2. Notification issued by the MoEF&CC dated 9th May, 2016

With reference to your above application, the consent to operate for expansion has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board agreed to grant consent for unification of PCB ID 13880 of existing cement plant (Cement Division Unit-II) and PCB ID 13191 of existing DG Set, with validity up to 30/06/2023, subject to the fulfillment of the terms & conditions incorporated in consent issued to cement plant vide order outward no. 55415 dt. 24.07.2017, outward no. 87440 dt. 22/10/2018, outward no. 87549 dt.15/11/2018, outward no. 100309 dt. 26/05/2020, its subsequent renewal orders and to DG-Set issued vide order no. 11188-11190 dt. 29.06.2000, its subsequent renewal orders & as enclosed with this letter.

SUBJECT TO THE FOLLOWING CONDITIONS :-

a. **Location:** Village-Mankahari, P.O. Bathia, Tehsil-Rampur Baghelan, Distt. Satna-485111 (M.P.)

b. **The capital investment in lakhs:** Rs. 125700

c. **Product & Production Capacity:**

Product	CTE Qty./Year	CCA Qty./Year	Applied Qty./Year
Cement	6700000.000 M.T.	6700000.000 M.T.	6700000.000 M.T.
Clinker	3000000.000 M.T.	3000000.000 M.T.	3000000.000 M.T.
Generation of Electricity for captive use by DG-Set-1x 6 M.W.H	6.000 MWH	6.000 MWH	6.000 MWH

Note:- The consent issued vide PCB ID 13191 for 1x6 MWH DG Set has been merged in this consent and hence this this PCB ID has no existence now. There is no change in the existing production capacity, for any change in above industry shall obtain fresh consent from the Board.

The Validity of the consent is up to 30/06/2023 and has to be renewed before its expiry. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent. 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



Signature Not Verified
Digitally Signed by : A. A
Mishra, Member Secretary
Date: 25/03/2022 05:08:57 PM

ACHYUT ANAND MISHRA
Member Secretary

(Organic Authentication on AADHAR from UIDAI Server)
TPAV # 19OM93IO3L

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

1. The daily quantity of trade effluent generation shall not exceed 0.000 KL/day, and the daily quantity of generation of sewage shall not exceed 200.000 KL/day

2 Sewage Treatment:- The applicant shall operate the sewage treatment system so as to achieve following standards as notified vide GSR No. 1265(E) Dt. 13.10.2017:

pH	Between	6.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD ₃ Days 27°C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.
Fecal Coliform (FC) MPN/100ml	Not exceed	1000

Note: Reuse/Recycling of treated effluent shall be encouraged and in cases where part of the treated effluent is reused and recycled involving possibility of human contact, standards as specified above shall apply.

Sr.	Water Code (Qty. in klpd.)	WC : 1290.000	WWG : 200.000	Water Source
1	Cooling Water	1000.000	0.000	Mine Water
2	Domestic Purpose	290.000	200.000	Bore well

3. The sewage 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.

4. 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

5. Reporting of Monitoring Results:-

Monitoring Information required by this Consent shall be summarized and reported by submitting a monthly Discharge Monitoring report on line to the Board through the link “Periodic Compliances” on XGN.

6. 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.

7. 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:

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

8. Industry shall submit the information online through the link “Periodic Compliances” on XGN in reference to compliance of consent conditions.

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

1. The applicant shall operate air pollution control system and maintain continuously so as to achieve the level of pollutants to the following standards:-

Name of section	Stack height (mtrs.)	Fuel	Control equipment	P.M, SOX, NOX(mg/NM3)
Cement Mill	49	---	Bag Filter	30,NA,NA
Coal Mill	65	---	Bag Filter	30,NA,NA
Cooler Exit	50	---	E.S.P.	30,NA,NA
Raw Mill Kiln	110	Coal/Petcoke	Bag Filter	30,700,800
D.G. Sets (1x6 MWH)	58	F.O	acoustic enclosure	150,NA,NA
Note:- SO ₂ emission norms for Raw Mill Kiln has been incorporated as per the MoEF&CC notification dated 9th May, 2016				

2. The fuel pattern for the DG Set shall be as follows:

Name of Fuel	Quantity
Furnace Oil	35

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:

- Particulate Matter (less than 10 micron) - 100 µg/m³ (PM10 µg/m³ 24 hrs. basis)
- Particulate Matter (less than 2.5 micron) - 60 µg/m³ (PM2.5 µg/m³ 24 hrs. basis)
- Sulphur Dioxide [SO₂] (24 hrs. Basis) - 80 µg/m³
- Nitrogen Oxides [NO_x] (24 hrs. Basis) - 80 µg/m³
- Carbon Monoxide [CO] (8 hrs. Basis) - 2000 µg/m³

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 the internal roads shall be maintained 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.

6. Industry shall take effective steps for extensive tree plantation of the local tree species within or around the industry/unit premises for general improvement of environmental conditions and a target of 5000 plantation during 2022-23 shall be achieved.

7. Reporting of Monitoring Results:- Monitoring Information required by this Consent shall be summarized and reported by submitting a monthly emission Monitoring report on line to the Board through the link "Periodic Compliances" provided on XGN.

Additional Air condition:-

- The continuous online monitoring system with all emission sources shall always be connected with Environment Surveillance Centre, M.P. Pollution control board Bhopal with online remote calibration facility for real time remote surveillance.
- The industry shall maintain the pneumatic system for the handling of AFR. The industry is permitted to use of Biomass – 120 MT, Carbon Black –18000 MT, Polythene waste/Plastic waste/ Pouches etc. –2105 MT & Rice Husk –15000 MT per annum as AFR and chemical Gypsum – 75000MT, chemical waste gypsum- 36000 MT per annum as raw material.
- The industry is permitted to use Pet-coke –210000 MT/Annum as feed stock or in the manufacturing process.
- The industry shall furnish the online monthly patrak through XGN separately for indigenous /imported pet coke showing the balance quantity at the start of month, quantity procured during the month, the quantity consumed during the month as feedstock or in the manufacturing Process and the balance quantity in the end of the month.
- Arrangements shall be made for the covered storage of Coal/ Pet coke, laterite/bauxite/Red Ochre, Fly ash, Gypsum, Clinkers and AFR. In no case these raw materials shall be stored in open.



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
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 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 industry/unit shall establish a separate environmental cell, headed by senior officer of the unit for reporting the environmental compliances. The industry/ Unit shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.
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 of the Water Act or 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 the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

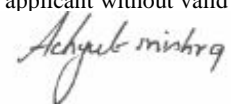
Additional condition:-

The industry shall operate the Outdoor HD Industrial grade IP (Internet Protocol) Cameras with pan-Tilt-Zoom (PTZ) feature, minimum focal length 30X with night vision facility and temper proof mechanism at suitable location to display all emission sources and effluent discharge point shall be kept operational & in working order and connect the same with Environment Surveillance Centre of MP Pollution control board Bhopal for remote surveillance.

Consent as required under the Water (Prevention & Control of Pollution) Act, 1974 & The Air (Prevention & Control of Pollution) Act, 1981 is 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. 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 em

 Sending from UIDAI
Server
Digitally Sign with Aadhaar

(Organic Authentication on AADHAR from UIDAI Server)
TPAV # 19OM93IO3L



ACHYUT ANAND MISHRA
Member Secretary

Consent No:AW-55475

ECOMEN LABORATORIES PVT. LTD.

Second Floor Hall, House No. B-1/8, Sector-H, Aliganj, Lucknow - 226 024

Phone No. : 0522 - 4079201/2746282

E-mail: contactus@ecomen.in, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1

ecoMen
LABORATORIES PVT LTD.**An approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India, New Delhi**

FORMAT NO. ECO/QS/FORMAT/07

TEST REPORT NO: ECO LAB/WW/1525/12/21

TEST REPORT ISSUE DATE: 13.01.2022

TEST REPORT OF WASTE WATER*

Name of the Company : M/s. Prism Johnson Ltd.
 Address of the Company : Village Mankahari,
 Tehsil Rampur Baghelan
 Distt. Satna (M.P.)
 Sampling Method : APHA/ IS: 3025
 Sample Collected by : Mr. Anish Singh
 Sample Quantity : As per requirement.
 Date of Sampling : 29.12.2021
 Date of Receiving : 03.01.2022
 Date of Analysis : 03.01.2022 to 07.01.2022
 Source of Sample : Mine Workshop after separate Treated Water
 Sample ID Code : ELW-15306

Sl. No.	TESTS	PROTOCOL	RESULT	Limits of Detection	G.S.R 1265 (E)
1	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.51	2-12	6.5-9.0
2	Total Suspended Solid as TSS (mg/l)	APHA, 23 rd Ed. 2017, 2540-D	23.5	5.0-1000	<100.0
3	Oil & Grease as O & G (mg/l)	APHA, 23 rd Ed. 2017, 5520 A+B+D	BDL	5.0-600	-
4	Biochemical Oxygen Demand as BOD (mg/l) 3days at 27°C	APHA, 23 rd Ed. 2017, 5210 A+B	7.5	5-10000	30.0
5	Chemical Oxygen Demand as COD (mg/l)	APHA, 23 rd Ed. 2017, 5220 A+C	60.0	5-50000	-
6.	Fecal Coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, 9221 A + E	Absent	-	<1000

*The result are related only to item tested.

BDL = Below Detection Limit

Verified By



Technical Manager

Authorized By



Quality Manager

Ecomen Laboratories Pvt
 Second Floor Hall, House No. B-1/8
 Sector-H, Aliganj, Lucknow-226024

--End of the Report--

Deotale Diagnostic 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

Annexure 16

MEDICAL CHECK-UP

SR NO	33
TEST NO	49
Employee No	102996
Designation	MINE MANGER
Department	BAGHAI MINES
Contractor Name	
MOB NO	9584460385
CHECK-UP DATE	30-09-21

EMPLOYEES NAME : KOUSHIK DAS

Gender: MALE	Age: 37 Yrs	Ht: 170 Cms	Wt: 88 Kg	BMI:30.45
TEMP.: 35 °C	SPO2: 99 %	Chest: 40/42 inch	Waist: 39 inch	

Company Address: PRISM JOHNSON, Vill. Mankahari, P.O. Bathia, Teh.: Rampur Baghelan,
Dist.: Satna PIN- 485 111 (M.P.) India

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

General Exam:-	BP.: 122/82 mmHg	Pulse: 83 bps
----------------	------------------	---------------

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

TEST	Result	Units	Normal Range
Blood Glucose (Random)	142	mg/dl	80-110

TEST	Result	Units	Normal Range
Hematology			
Hemoglobin	12.1	gm/dl	12-17
Leukocyte Count	5900	/CUMM	3500-10,000
Neutrophils	72	%	43-76
Lymphocytes	25	%	17-48
Monocytes	2	%	2-10
Eosinophils	1	%	1-6
ESR	5	MM/HR	0.20

LIVER FUNCTION & KIDNEY FUNCTION TEST

TEST	Result	Units	Normal Range
SGOT	23	IU/L	0-40
SGPT	27	IU/L	0-40
Blood Urea	25	mg/dl	10-50
Sr. Creatinine	0.8	mg/dl	0.8-1.3

LIPID PROFILE

Cholesterol	165	mg/dl	< 220
Triglycerides	152	mg/dl	> 200
HDL	47	mg/dl	35-50
LDL	87.6	mg/dl	
VLDL	30.4	mg/dl	
CHO/HDL Ratio:	3.51		

Urine Test

Urine Pus Cell : NIL	Urine ALB : NIL	Urine Sugar : NIL
----------------------	-----------------	-------------------

ECG: WNL	X-RAY: WNL	SPIROMETRY: WNL
----------	------------	-----------------

AUDIOMETRY: RT.WNL	LF. WNL	Colorblindness: NO
--------------------	---------	--------------------

Vision:	Unaided - Dist. Rt - 6/6	Dist. Lf - 6/6
	Unaided - Near Rt - N/6	Near Lf - N/6
	With Spect Dist. Rt -	With Spect Dist. Lf -
	With Spect Near. Rt -	With Spect Near. Lf -

MEDICAL CHECK - UP:- NORMAL

Opinion: He/She is physically & mentally fit. He/She is not suffering from any infectious or contagious disease.

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

Deotale

Dr. D. P. Deotale
M.B.B.S. A.F.I.H.
Reg. No. 48366

FORM "O"

[See Rule 29 - F (2) and 29 - L]
Report of medical examination under rule 29-B.
(To be issued in triplicate)**

Certificate No. 49

Certified that, Shri/Shrimati* employed as Mines Manager in Baghai mine, Form No. 15 has been examined for an initial/periodical* medical examination. He/she appears to be 15 years of age. The findings of the examining authority are given in the attached sheet. It is considered that Shri/Shrimati Koushik Das

- *(a) is medically fit for any employment in mines.
*(b) is suffering from and is medically unfit for
(i) any employment in mines
(ii) any employment below ground; or
(iii) any employment or work.....
(c) is suffering from and 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.



Deotale

Dr. D. P. Deotale
M.B.E.S. A.F.I.H.
Reg. No. 48366

Signature of examining authority

Place PJL, VT Centre
Date 30/9/2021

DR. DEEPAK DEOTALE
M.B.E.S. A.F.I.H.

Name and Designation Block Letters

- * Delete whatever 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 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. 47 as a result of medical examination on

Identification mark... Black mole at R/H Thumb

Left thumb impression of the candidate
Good/Fair/Poor

1. General development .
2. Height 170 Cms.
3. Weight 88 Kg.
4. Eyes :
 - (i) Visual acuity -Distant vision (with or without glasses)
Right eye 6/6 Left eye 6/6
 - (ii) any organic disease of eyes No
 - * (iii) night blindness No
 - * (iv) Colour blindness No
 - * (v) Squint No

(*to be tested in special cases)
5. Ears :
 - (i) Hearing right ear WNL Left ear WNL
 - (ii) any organic disease No
6. Respiratory system :
Chest measurement
 - (i) after full inspiration 40 Cms.
 - (ii) after full expiration 42 Cms.
7. Circulatory system :
Blood pressure 122/82 mmHg
Pulse 83 bps
8. Abdomen :
Tenderness Soft
Liver No
Spleen No
Tumour NP
9. Nervous system NP
History of fits or epilepsy No
Paralysis N
Mental Health Good
10. Locomotor system
11. Skin N
12. Hernia No
13. Hydrocele No
14. Any other abnormality No
15. Urine : Reaction Alkaline Albumin Nil Sugar Nil
16. Skiagram of chest WNL
17. Any other "c" test considered necessary by the examining authority No
18. Any opinion of specialist considered necessary No

Place

P.J.L

Signature of examining authority

Dr. P. Deotale
M.B.B.S. A.F.I.H.
Reg. No 42366

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

Certificate No 49

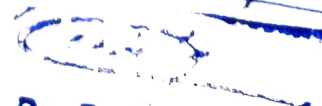
Name: Koushik Das

Identification Marks: Black mole on R/H Thumb

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)	03 . 44	02 . 44	084
Forced Vital Capacity 1 FEV1	02 . 89	02 . 72	094
FEV1/FVC	82 . 81	92 . 52	112
Peak Expiratory Flow	08 . 46	06 . 68	075

Spirometry Report enclosed

Colville

Dr. D. P. Dootale
M.B.B.S. A.F.I.H.
Reg. No 40066

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

Certificate No 47

Name: Koushik Das

Identification Marks: Black mole R/H Thumb

1. Cardiological Assessment

Auscultation	S ₁	<u>N</u>
	S ₂	<u>N</u>
	Additional Sound	<u>no</u>
Electrocardiograph (12 leads) findings:		<u>Normal/ Abnormal</u>

Enclosed ECG

2. Neurological Assessment

Findings	Normal/Abnormal
Superficial Reflexes	<u>N</u>
Deep Reflexes	<u>N</u>
Peripheral Circulation	<u>N</u>
Vibrational Syndromes	<u>N</u>

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
<u>Present/Absent</u>	<u>-</u>	<u>-</u>

Enclosed Chest Radiograph

4. Audiometry Findings

Conduction Type	Left Ear	Right Ear
Air Conduction	✓ Normal/Abnormal	✓ Normal/Abnormal
Bone Conduction	✓ Normal/Abnormal	✓ Normal/Abnormal

JERS
21 03:49 PM

s/Sec)

Enclosed Audiometry Report

5. Pathological/Microbiological Investigations:

S.No	Tests	Findings
1.	Blood- Tc, Dc, Hb, ESR, Platelets	✓ WNL/Abnormal
2.	Blood Sugar- Fasting & PP	✓ WNL/Abnormal
3.	Lipid profile	✓ WNL/Abnormal
4.	Blood Urea, Creatinine	✓ 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

7. Any other Special Test Required: **NO**

Dr. D. P. Deotale
M.B.B.S. A.F.I.H.
Reg. No. 48366

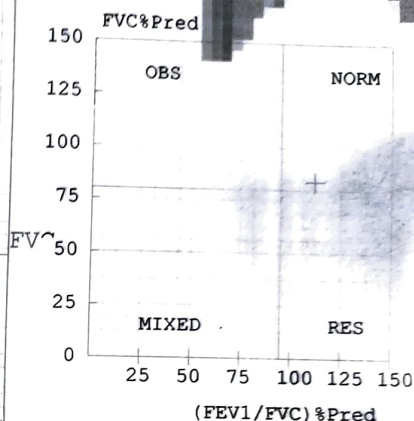
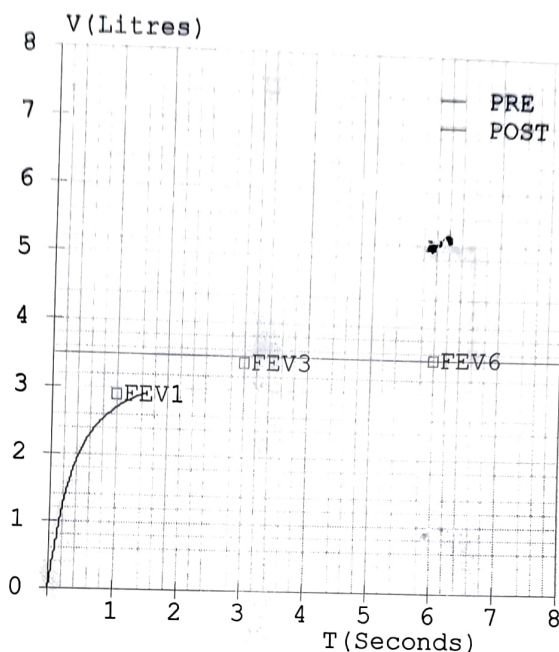
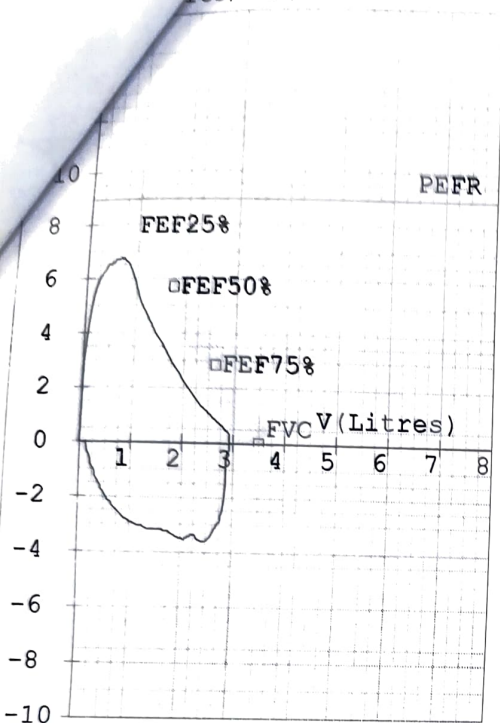
Signature of the Examination Authority

DAS
ORDERS
2021 03:49 PM

Age : 37 Years
Height : 170 Cms
Weight : 88 Kgs
ID: PJ49

Gender : Male
Smoker : No
Eth. Corr: 100
Temp : degrees

res/Sec)



FVC Results

Parameter	Pred	M. Pre	%Pred	M. Post	%Pred	%Imp
FVC (L)	03.49	02.94	084	-----	---	---
FEV1 (L)	02.89	02.72	094	-----	---	---
FEV1/FVC (%)	82.81	92.52	112	-----	---	---
FEF25-75 (L/s)	04.08	03.38	083	-----	---	---
PEFR (L/s)	08.96	06.68	075	-----	---	---
FIVC (L)	-----	02.79	---	-----	---	---
FEV.5 (L)	-----	02.14	---	-----	---	---
FEV3 (L)	03.39	02.94	087	-----	---	---
PIFR (L/s)	-----	03.60	---	-----	---	---
FEF75-85 (L/s)	-----	01.30	---	-----	---	---
FEF.2-1.2 (L/s)	07.09	05.98	084	-----	---	---
FEF 25% (L/s)	07.94	06.66	084	-----	---	---
FEF 50% (L/s)	05.71	03.84	067	-----	---	---
FEF 75% (L/s)	02.84	01.66	058	-----	---	---
FEV.5/FVC (%)	-----	72.79	---	-----	---	---
FEV3/FVC (%)	97.13	100.00	103	-----	---	---
FET (Sec)	-----	01.50	---	-----	---	---
ExptTime (Sec)	-----	00.10	---	-----	---	---
Lung Age (Yrs)	037	039	105	-----	---	---
FEV6 (L)	03.49	-----	---	-----	---	---

Pre Medication Report Indicates

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

Dr. D. P. Deotale

M.D.S. A.P.M.

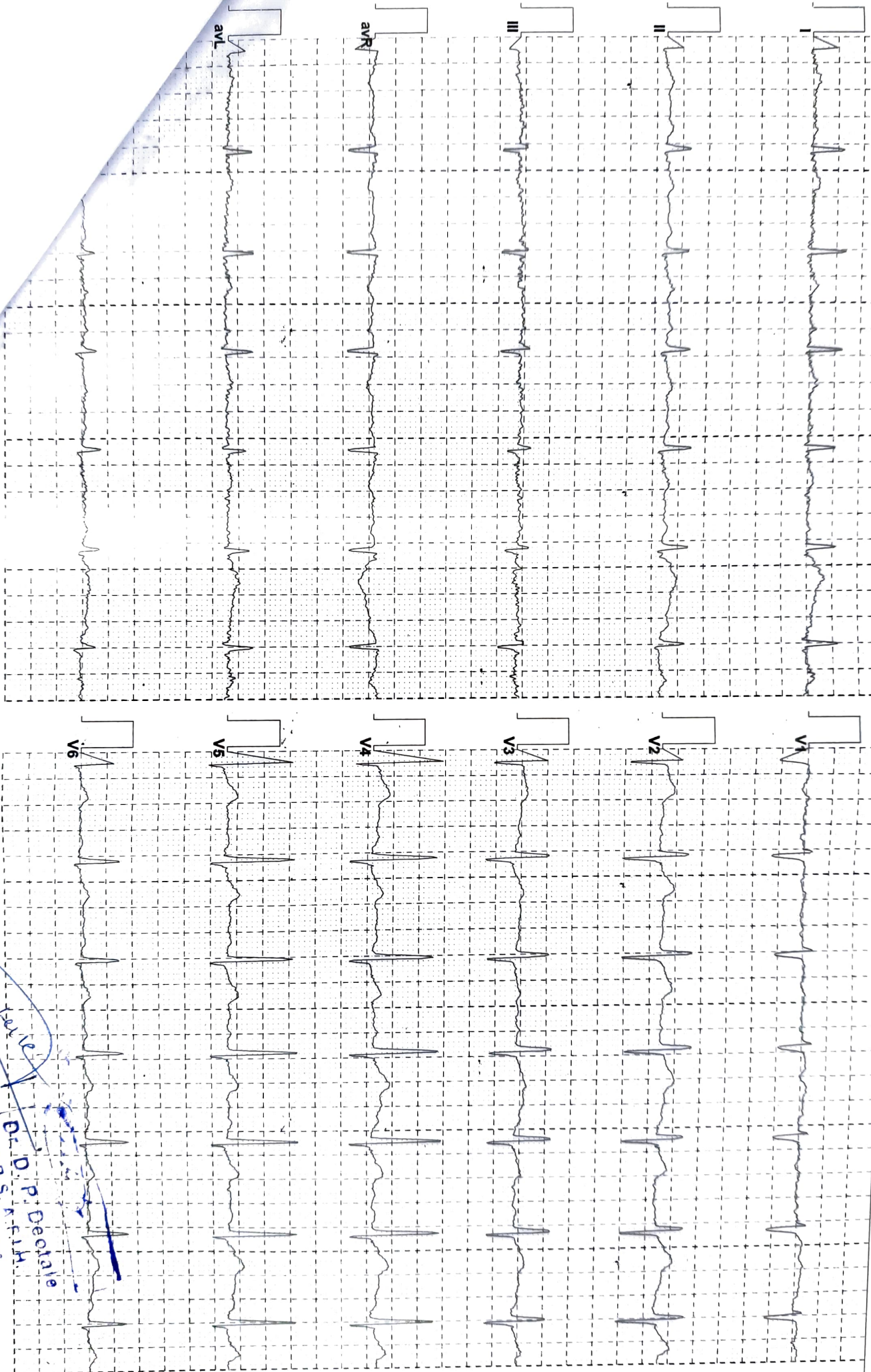
Sup. NO. 40008

estelle



ST49 / KOU SHIK PAS / 37 Yrs / M / 60cms. / 88Kgs / Non Smoker

Heart Rate : 80 bpm / Tested On : 30-Sep-21 15:58:27 / HF 0.05 Hz - LF 100 Hz / Notch 50 Hz / Sn 1.00 Cm/mV / Sw 25 mm/s



Dr. D. P. Decale
Dr. D. P. Decale
 N. B. S. N. F. H.
 Reg. No. 48306

Baghai, Mines

02/5/2021

FORM "O"

102996

[See Rule 29 - F (2) and 29 - L]
Report of medical examination under rule 29-B.
(To be issued in triplicate)**

Certificate No.

Certified that Shri/Shrimati* employed as Mines Manager in Baghai
mine, Form No. 15 has been examined for an initial/periodical*
medical examination. He/she appears to be 10/04/87 (34) years of age. The findings
of the examining authority are given in the attached sheet. It is considered that Shri
/Shrimati Koushik Das

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

*(b) is suffering from and is medically unfit for

(i) any employment in mines

(ii) any employment below ground; or

(iii) any employment or work.....

(c) is suffering from and 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.



Place
Date

VT Center PJL
30/09/2021

Signature of examining authority

DR. DEEPAK DEOTALE
M.B.B.S. A.F.I.H.

Name and Designation Block Letters

* Delete whatever 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 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. 49 as a result of medical examination on

Identification mark Black mole at R/H Thumb

Left thumb impression of the candidate
Good/Fair/Poor

1. General development .
2. Height 5'7 Cms.
3. Weight 88 Kg.
4. Eyes :
 - (i) Visual acuity -Distant vision (with or without glasses)
Right eye 6/6 Left eye 6/6
 - (ii) any organic disease of eyes No
 - *(iii) night blindness No
 - *(iv) Colour blindness No
 - *(v) Squint No

(*to be tested in special cases)
5. Ears :
 - (i) Hearing right ear WNL Left ear WNL
 - (ii) any organic disease No
6. Respiratory system :
Chest measurement
 - (i) after full inspiration 40" Cms.
 - (ii) after full expiration 42" Cms.
7. Circulatory system :
Blood pressure N
Pulse 122/82 mmHg
8. Abdomen : 83 bps
Tenderness Soft
Liver No
Spleen No
Tumour NP
9. Nervous system NP
History of fits or epilepsy No
Paralysis N
Mental Health Good
10. Locomotor system N
11. Skin N
12. Hernia No
13. Hydrocele No
14. Any other abnormality No
15. Urine : Reaction Alkaline Albumin Nil Sugar Nil
16. Skiagram of chest WNL
17. Any other "c" test considered necessary by the examining authority
18. Any opinion of specialist considered necessary.

Place

P. J. L

Signature of examining authority

Dr. D. P. Doolan
M.B.B.S. A.F.I.C.

Reg. No 15366

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

Certificate No 49

Name: Kaushik Das

Identification Marks: Black mole R/H Thumb

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)	03 . 49	02 . 94	084
Forced Vital Capacity I FEV1	02 . 89	02 . 72	094
FEV1/FVC	82 . 81	92 . 52	112
Peak Expiratory Flow	08 . 96	06 . 68	075

Spirometry Report enclosed

Dr. D. P. Deotale
M.B.B.S. A.F.I.H.
Reg. No 42366

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 49

Name: Kaushik Das

Identification Marks: Black mole R/n Thumb

1. Cardiological Assessment

Auscultation	S1	N
	S2	N
	Additional Sound	No
Electrocardiograph (12 leads) findings:		✓ Normal/ Abnormal

Enclosed ECG

2. Neurological Assessment

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

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
✓ Present/Absent	-	-

Enclosed Chest Radiograph

4. Audiometry Findings:

Conduction 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 Sugar- Fasting & PP	✓ WNL/Abnormal
3.	Lipid profile	✓ WNL/Abnormal
4.	Blood Urea, Creatinine	✓ WNL/Abnormal
5.	Urine Routine	✓ WNL/Abnormal
6.	Stool Routine	✓ WNL/Abnormal

Enclosed Investigation Reports.

6. Special Tests for Mn exposure

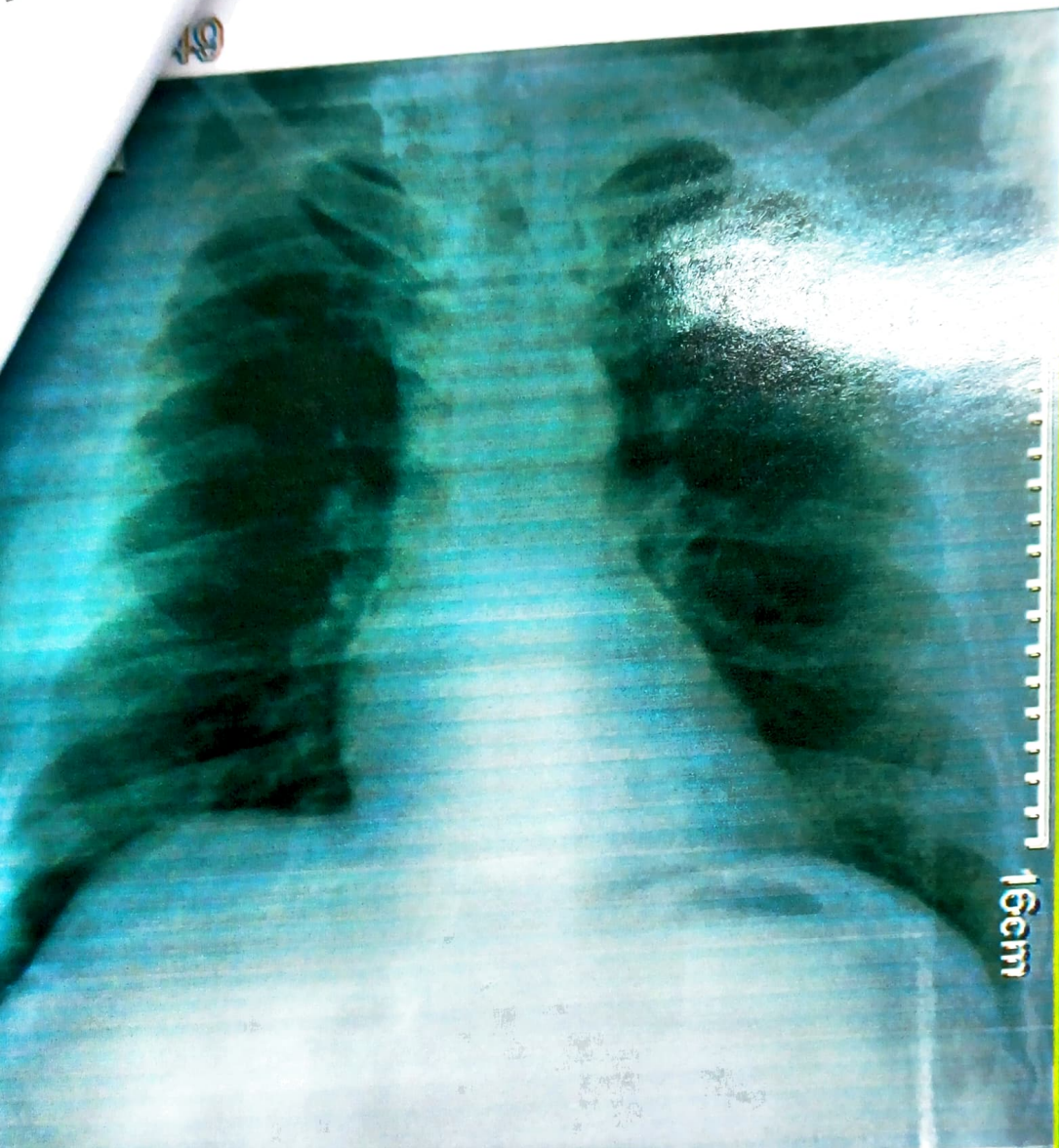
Behavioral Disturbances	Present/ Not Present
Neurological Disturbances	Present/ Not Present
Speech Defect	Present/ Not Present
Tremor	Present/ Not Present
Adiadocokinesia	Present/ Not Present
Emotional Changes	Present/ Not Present

7. Any other Special Test Required: no

(Signature)
 Dr. D. P. Deotale
 M.B.B.S. A.F.I.H.
 Reg. No. 42366

Signature of the Examination Authority

AS 37 Y Acq. Date: 30-Sep-21
Acq. Time: 4:29:49 PM
Exp. Index: 1813



CHEST
PA
W: 4096, C: 2048

Scale: 0.13

MAYA DIAGNOSTICS

Consultation Diagnostics Health Check- Ups Immunization.

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

Resi:- 1B, Prashant Nagar Wardha-Road Nagpur.

For any assistance call at . 9860204241, 0712-2421868

Email ID : shyam7780@gmail.com

Patient Details

Name: KOUSHIK DAS

Age: 37

Sex: Male

Contact:

Address:

Company:

Contractor:

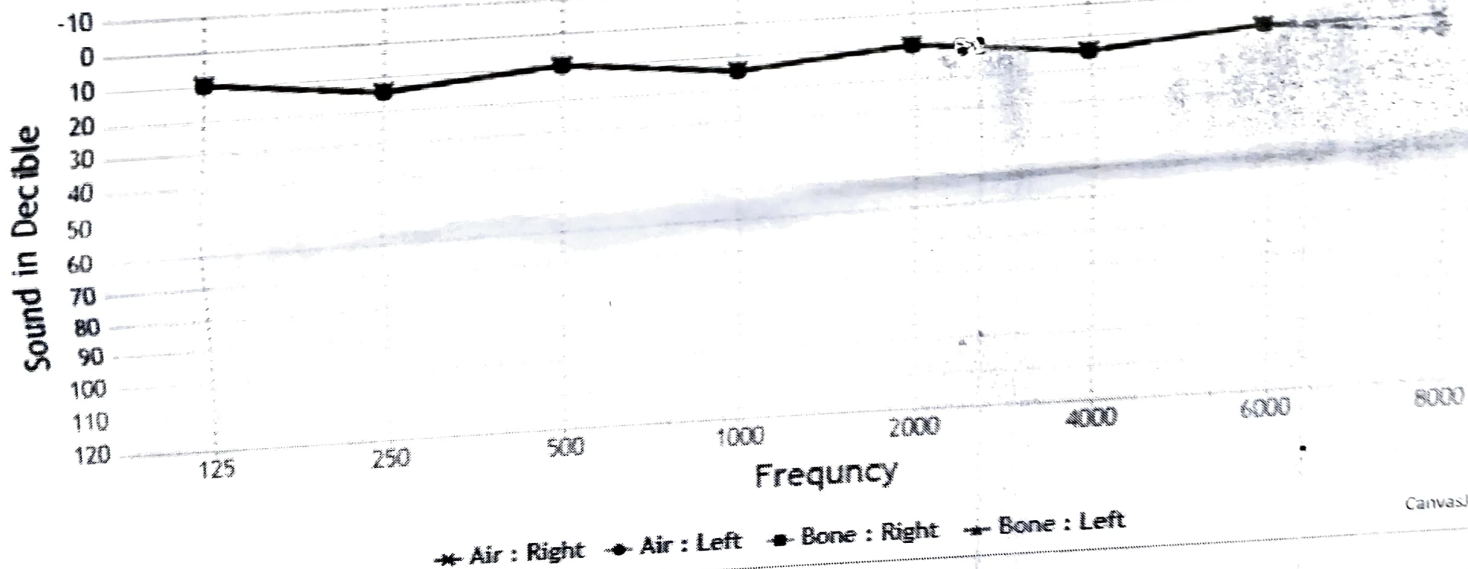
Department:

Designation:

CPF: 49

Date: 30.09.21

Audiological Evaluation



Trial version

TEST FREQUENCY

Air Conduction Test

PTA Right (X)

11.875

PTA Left (•)

12.5

Bone Conduction Test

PTA Right (■)

0

PTA Left (▲)

0

Note: NORMAL

Dr. P. Deotale
M.B.B.S., A.F.I.H.
(Associated Fellow of Industrial Health)
Reg. No. 48366

HEALTH CARD

NAME : KOUSHIK DAS

Department : BAGHAI MINES

Designation : MINE MANGER

Employee Code : 102996

Contractor Name :

Sr. No : 33

Test No : 49

Age: 37 yrs

Date: 30-09-21

Sex: MALE

Ht: 170 Cms

Wt: 88 kg

CHEST : 40/42

Waist:39

BP: 122/82 mm/Hg

Pulse : 83 bps

Bl.Sugar: 142 mg/dl

PFT : WNL

ECG : WNL

X-Ray : WNL

Vision: Dist.Rt. 6/6

Lt: 6/6

Near. Rt. N/6

Lt. N/6

Audio Rt: WNL

Audio Lf : WNL

MEDICAL CHECK-UP: NORMAL

Colourblind: NO

Dr.Deepak Deotale (M.B.B.S, A.F.I.H) Mo.9860204241

• Consultation • Diagnostics Health Check- Ups • Immunization.

Clinic: Vinayak Apt. 3rd Floor Dhanoli Lokmat Chowk Nagpur

For Any Assistance Call At : 9860204241, 8329288561, 8007771341, 0712-2424868

Email Id : deotaledeepak19577@gmail.com

Customer		Our Reference	1300011982	
Prism Johnson Limited (Cement Division)		SAC Code	999799	
Village : Mankhari	P.O. Bathia	PO. Date :	27.08.2021	
Tehsil : Rampur Baghelan		PO No	3100174320-P027	
Dist : Satna		Invoice No.	NGP/DEO/10/2021	
Pin : 485111		Invoice Date :	12.10.2021	
Sr. No	Contractor name	NO . OF PERSON	RATE IN LUMSUM IN RS. PER PERSON	Total Amount
1	Company employees	83	1350.00	1,12,050.00
2	G. R. W	15	1350.00	20,250.00
3	KANHA	14	1350.00	18,900.00
4	PRATIKSHA	3	1350.00	4,050.00
5	R. S. CARGO	15	1350.00	20,250.00
6	S. V. L	6	1350.00	8,100.00
Transportation Charges				30,000.00
TOTAL AMOUNT				2,13,600.00

(Total Amount in words :- Two Lac Thirteen Thousand & Six Hundred Rs. Only)

Special Note

Please issue the cheque in favour of Dr. D. P. Deotale at the earliest
Bank And Account DetailsDr. D.P. Deotale PAN CARD NO: - AEDPD4007M
Federal Bank Code 049 RTGS No. FDRL 0001339,
Federal Bank Account No - 13390200010924

Thank You.



DR DEEPAK P. DEOTALE

M.B.B.S A.F.I.H

(Associated fellow Of industrial health)

(Reg. No. 48366)

Dr. Deepak P. Deotale

M.B.B.S., AFIH

(Associated Fellow of Industrial Health)

Reg No 48366

Deotale Diagnostic Centre (we care)

- Consultation • Diagnostics Health Check- Ups • Immunization.

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

For Any Assistance Call At : 9860204241, 8329288561, 8007771341, 0712-2424868

Email Id : deotaledeepak19577@gmail.com

BILL

Customer		Our Reference	1300011982	
Prism Johnson Limited (Cement Division)		SAC Code	999799	
Village : Mankhari P.O. Bathia		PO. Date :	27.08.2021	
Tehsil : Rampur Baghelan		PO No	3100174320-P027	
Dist. : Satna		Invoice No.	NGP/DEO/10/2021	
Pin : 485111		Invoice Date :	12.10.2021	
Sr. No	DESCRIPTION	NO . OF PERSON	RATE IN LUMSUM IN RS. PER PERSON	Total Amount
1	GENERAL PHYSICAL CHECK-UP	136	1350-00	1,83,600.00
2	BLOOD TEST (HAEMOGRAM)			
3	LIPID PROFILE			
4	UREA			
5	Creatinine			
6	BLOOD SUGAR (Random)			
7	Chest X -Ray			
8	AUDIOMETRY TEST			
9	VISION TEST			
10	Spirometry			
11	E.C.G.(ELECTROCARDIOGRAM)			
12	Urine R/E			
Transportation Charges			30,000.00	
TOTAL AMOUNT			2,13,600.00	

(Total Amount in words :- Two Lac Thirteen Thousand & Six Hundred Rs. Only)

Special Note

Please issue the cheque in favour of Dr. D. P. Deotale at the earliest
Bank And Account Details

Dr. D.P. Deotale PAN CARD NO: - AEDPD4007M
Federal Bank Code 049 RTGS No. FDRL 0001339,
Federal Bank Account No - 13390200010924

Thank You.



DR DEEPAK P. DEOTALE

M.B.B.S A.F.I.H

(Associated fellow Of industrial health)

(Reg. No. 48366)

Dr. Deepak P. Deotale

M.B.B.S., AFIH

(Associated Fellow of Industrial Health)

Reg No 48366

PRISM JOHNSON LIMITED								
CSR ACTIVITIES EXPENSE SUMMARY FY 2021-22								
(1)	(2)	(3)	(4)	(5)			(6)	(7)
Sl. No	Name of the Project	Item from the list of activities in schedule VII to the Act.	Local area (Yes/No).	Location of the project.		Amount Proposed (Rs. In Crore)	Amount spent on the projects or programs (Rs. In Crore)	Mode of implementation - Direct (Yes/No).
				State.	District.			
Availability of Safe Drinking Water								
1	Provided 50 trip drinking water Tankers as required by villagers	Availability of Safe Drinking Water Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0518	0.06	Yes
2	Installed 02 Hand pump with bore well at Chormari	Availability of Safe Drinking Water Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0132	0.01	Yes
3	Installed 02 Hand pump with bore well at Bairiha	Availability of Safe Drinking Water Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0128	0.01	Yes
4	Installed 01 Hand pump with bore well at Bathiya village	Availability of Safe Drinking Water Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0094	0.01	Yes
5	Installed of 02 Hand pump with bore well Mahurachh	Availability of Safe Drinking Water Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0131	0.01	Yes
6	Installed 01 Hand pump with bore well Pithaipur Hinauti	Availability of Safe Drinking Water Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.006	0.01	Yes
7	Installed 01 Hand pump with bore well Sijahata	Availability of Safe Drinking Water Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0062	0.01	Yes
8	Bore well with submersible pump installation at playground Mankahari	Availability of Safe Drinking Water Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.015	0.01	Yes
9	Provided Synthetic Water storage Tank - Govt H.S. School Bawadia - Dewas	Availability of Safe Drinking Water Schedule VII (i)	Yes	Madhya Pradesh	Devas	0.001	-	
10	Water Cooler nearby village Bilawali - Dewas	Availability of Safe Drinking Water Schedule VII (i)	Yes	Madhya Pradesh	Devas	0.0075	0.01	

						0.14	0.14	
Disaster Management & Social Welfare								
11	Provided 09 oxygen concentrator at Community health center Rampur Baghelan- (04) and Sardar Vallabh Bhai Patel District Hospital Satna (05)	Disaster Management Schedule VII (xii)	Yes	Madhya Pradesh	Satna and Bhopal	0.2093	0.11	Yes
12	Provided oxygen concentrator at Gandhi Medical College Bhopal (05)	Disaster Management Schedule VII (xii)	No	Madhya Pradesh	Bhopal	0	0.03	
13	Oxygen Concentrator to Central Medicine Store of Andhra Pradesh Medical Services Kurnool Andhra Pradesh (04)	Disaster Management Schedule VII (xii)	Yes	Andra Pradesh	Kurnool	0	0.03	Yes
14	Provided 1000 Covid care medicines kits at Government Community Health Center Rampur Baghelan	Disaster Management Schedule VII (xii)	Yes	Madhya Pradesh	Satna	0	0.02	Yes
15	Provided Financial assistance to SP office Kurnool AP through Cheque	Disaster Management Schedule VII (xii)	No	Andhra Pradesh	Kurnool	0	0.03	Yes
16	Support to Dr. Lalta Prasad Khare Charitable Trust for operating social welfare and Old Age Home	Social Welfare Schedule VII (iii)	Yes	Madhya Pradesh	Satna	0.07	0.07	No
17	Distributed 201 sets thermal innerwear to Senior Citizens at Satna	Social Welfare Schedule VII (iii)	Yes	Madhya Pradesh	Satna	0.0152	0.01	Yes
18	Provided Sponsorship to 31 orphans of Corona Pandemic in association with Collector Satna and District Program Officer WCD Satna	Setting up homes and hostels for orphans Schedule VII (iii).	Yes	Madhya Pradesh	Satna	0	0.09	Yes

19	Financial assistance to Amalgamated fund, managed by District Welfare Society, Satna for welfare of Soldiers, Martyrs, etc.	Measure for benefit of Armed Forces Veterans war widows and their dependents Schedule VII(vi)	Yes	Madhya Pradesh	Satna	0	0.01	Yes
20	Supporting measures for animal Welfare - Fodder for Gaushala Mahurachh Kadaila	Animal Welfare Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.02	0.02	Yes
21	Distribution of Blankets to orphans Dewas.	Measures for socially & Economically backward group Schedule VII (iii)	Yes	Madhya Pradesh	Devas	0.0029	-	Yes
22	Measures for development of societies, war widows, social weaker section of society, Freedom fighters and their family on the occasion of Republic Day & Independence Day - Karaikal	Measures for socially & Economically backward group Schedule VII (iii)	Yes	Puduchery	Karaikal	0.0016	-	Yes
23	Donation to Orphanage home nearby village - Karaikal	Measures for socially & Economically backward group Schedule VII (iii)	Yes	Puduchery	Karaikal	0.0015	-	Yes
						0.32	0.42	
Environment, water Conservation and Promoting renewable energy								
24	Road side plantation with construction of 201 honey comb structures at Mankahari, Mahurachh Turning and Kotar	Plantation for Environment Conservation Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0704	0.07	Yes
25	Construction of 03 protection gate at forest land Khamhariya plantation site	Plantation for Environment Conservation Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.1481	0.02	Yes
26	Survival & Maintenance of 53000 saplings at Forest Land Khamhariya (53000 plants)		Yes	Madhya Pradesh	Satna	0	0.13	Yes

27	Development of social forestry by distribution of 83000 hybrid fruit saplings to villagers and gram panchayats	Plantation for Environment Conservation Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.1115	0.11	Yes
28	Development and plantation at Satari village	Plantation for Environment Conservation Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0071	0.01	Yes
29	Plantation and survival of saplings in forest land Khamhariya	Plantation for Environment Conservation Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0204	0.02	Yes
30	Pond deepening at Chormari (6000 M3)	Conservation of Natural Resources Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0826	0.08	Yes
31	Pond deepening at Badhaura (4850 M3)	Conservation of Natural Resources Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0729	0.07	Yes
32	Pond deepening at Ghunghunchihai (2500 M3) with Hume pipe at Malgaon pond	Conservation of Natural Resources Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0381	0.04	Yes
33	Pond deepening at Baghai (2500 M3)	Conservation of Natural Resources Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.035	0.03	Yes
34	De-silting of pond at Malgaon and construction of single bore shaft at Malgaon	Conservation of Natural Resources Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0112	0.01	Yes
35	Construction of water ways channel at Pachauha Pond Malgon (150 meter)	Conservation of Natural Resources Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.007	0.01	Yes
36	Desilting project at KKL - Karaikal	Conservation of Natural Resources Schedule VII (iv)	Yes	Puduchery	Karaikal	0.014	0.02	Yes
37	Construction of single bore recharge system in ponds at Chormari-1, Ghunchihai-1, Badhuara-1	Water Conservation Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0368	0.04	Yes

38	Construction of double bore recharge system in ponds Chormari-1, Ghunchihai-1, Badhaura-1	Water Conservation Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0565	0.07	Yes
39	Construction of Single Bore shaft structures at Sharman Dongari Jamuniya	Water Conservation Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0158	0.02	Yes
40	Construction of 200 drum based Water Harvesting Structure at Bathiya and Bamhauri	Water Conservation Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0947	0.09	Yes
41	Installation of 10 solar street lights at Narsinghpur	Promoting renewable energy for environment Sustainability Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0149	0.01	Yes
42	Installation of 10 solar street lights at Bairiha	Promoting renewable energy for environment Sustainability Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0149	0.01	Yes
43	Installation of 06 solar street lights at Mahurachh Mod	Promoting renewable energy for environment Sustainability Schedule VII (iv)	Yes	Madhya Pradesh	Satna	0.0098	0.01	Yes
						0.86	0.87	
Health & Hygiene								
44	Provided free medical services to 14752 OPD patients from nearby villages	Health & Hygiene Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0585	0.06	Yes
45	Provided free ambulance services to 1057 villagers on 24X7 basis	Health & Hygiene Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.065	0.06	Yes
46	Construction of 10 ODF Toilets at Malgaon Chulhi	Health & Hygiene Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0247	0.02	Yes
47	Construction of 10 ODF Toilets at Bairiha	Hygiene & Sanitation Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0246	0.02	Yes
48	Construction of 20 ODF Toilets at Bamhauri	Hygiene & Sanitation Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0584	0.06	Yes

49	Construction of 15 ODF Toilets at Dafai Basti Hinauta	Hygiene & Sanitation Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0362	0.04	Yes
50	Maintenance of Sulabh Complex at Mahurachh Turning	Hygiene & Sanitation Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0041	-	Yes
51	Providing of nutritional food to 113 malnutrition children in Rampur Baghelan Block	Hygiene & Sanitation Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0139	0.01	Yes
52	Renovation of Community Health Center at Rampur Baghelan	Health & Hygiene Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.3457	0.36	Yes
53	Sponsor cataract surgery for 20 patients from nearby villages	Health & Hygiene Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0176	0.02	Yes
54	Financial assistance to Mr Ambar Tiwari Cancer patient for treatment	Health & Hygiene Schedule VII (i)	Yes	Madhya Pradesh	Satna	0	0.01	Yes
55	Financial Assistance to Government Sponsored ADIP Scheme for providing 73 (41+32) motorised tricycle to Handicapped in Madhya Pradesh in association with Artificial Limbs Manufacturing Corporation of India (A Govt. Of India Undertaking)	Health & Hygiene Schedule VII (i)	No.	Madhya Pradesh	Satna	0.105	0.16	No
56	Accessibility Equipment's for Physically Challenged People in Gadab Village - Pen	Health & Hygiene Schedule VII (i)	Yes	Maharastra	Raigarh	0.02	0.02	Yes
57	Constructing Toilets for Girls and Boys students at GKBMS Govt. Schools, Kunigal established in 1930 - Kunigal	Hygiene & Sanitation Schedule VII (i)	Yes	Karnataka	Tumakuru	0.08	0.07	Yes

58	Donating free food to Primary Health Centre, nearby village in view of Pulse Polio camp - Karaikal	Eradicating Hunger & Malnutrition Schedule VII (I)	Yes	Puduchery	Karaikal	0.0015	-	Yes
						0.86	0.91	
Promoting Education								
59	Renovation of Government Girls Middle School Sijahata	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.06	0.05	Yes
60	Repairing/extension of Government Higher Secondary School, Sijahata	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.1178	0.12	Yes
61	Renovation of Government Middle School Malgaon	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.0425	0.04	Yes
62	Renovation of Government Primary School Chormari	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.07	0.05	Yes
63	Renovation of Government Primary School Adiwasi basti Chulhi	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.002	-	Yes
64	Renovation of Govt Higher Sec School Bamhauri	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.0678	0.07	Yes
65	Construction of 132 meters boundary wall at Government Primary Vaikalpik Shala Sijahata	Health & Hygiene Schedule VII (i)	Yes	Madhya Pradesh	Satna	0.0659	0.07	Yes
66	wall painting for promoting education by wayd of 200 Slogan writing to create awareness and motivation amongst the local villagers	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.0072	0.01	Yes
67	Installation of 04 smart classes from class 9th to 12th at Government Higher Secondary School Sijahata	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.0483	0.05	Yes

68	Fencing work at Government Girls Degree College Satna	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0	0.01	Yes
69	Provided 35 computer and 03 printer at Government Girls Degree College Satna (10), Thakur Govind Narayan Singh Degree College Rampur Baghelan (10) and Government Higher Secondary School, Bamhauri, Satna (M.P.)	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0	0.14	Yes
70	Provided 20 Almirah cum book self at Government Girls Degree College Satna (10) and Thakur Govind Narayan Singh Degree College Rampur Baghelan (10)	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0	0.02	Yes
71	Books distribution to deaf and dumb children, Government School - Dewas	Promoting Education Schedule VII (ii)	Yes	Madhya Pradesh	Dewas	0.0041	-	Yes
72	Building two Class Rooms at G.S.S School Mandhala, Barotiwala, Baddi	Promoting Education Schedule VII (ii)	Yes	Himachal Pradesh	Solan	0.1	0.10	No
						0.59	0.73	Sub Total
Promotion of Sports								
73	Extension of Playground pavilion at Mankahari	Promotion of Sports Schedule VII (vii)	Yes	Madhya Pradesh	Satna	0.1176	0.11	Yes
74	Construction of 18.5 Meter Playground mini gallery development at Mankahari	Promotion of Sports Schedule VII (vii)	Yes	Madhya Pradesh	Satna	0.0566	0.05	Yes
75	Construction of main gate at playground Mankahari	Promotion of Sports Schedule VII (vii)	Yes	Madhya Pradesh	Satna	0.0422	0.04	Yes
76	Construction of covered Pavilion at playground Mankahari	Promotion of Sports Schedule VII (vii)	Yes	Madhya Pradesh	Satna	0.0898	0.09	Yes

77	Painting and boundarywall at Mankahari playground	Promotion of Sports Schedule VII (vii)	Yes	Madhya Pradesh	Satna	0.0188	0.02	Yes
						0.33	0.31	
Rural Infrastructure Development								
78	Construction of 2.5 kilometre WBM road at Tapa	Rural Infrastructure Development Schedule VII (X)	Yes	Madhya Pradesh	Satna	0.0956	0.10	Yes
79	Construction of bus shelter at Sajjanpur Ramvan	Rural Infrastructure Development Schedule VII (X)	Yes	Madhya Pradesh	Satna	0.0265	0.03	Yes
80	Construction of bus shelter at Baghai	Rural Infrastructure Development Schedule VII (X)	Yes	Madhya Pradesh	Satna	0.0265	0.02	Yes
81	Renovation of cremation 06 sheds at Hinauti, Malgaon, Bamhauri, Bathiya, Mahurachh & Sijahata	Rural Infrastructure Development Schedule VII (X)	Yes	Madhya Pradesh	Satna	0.042	0.02	Yes
82	Renovation of existing infrastructure - Cleaning and Maintenance of Solar lights at Baghai	Rural Infrastructure Development Schedule VII (X)	Yes	Madhya Pradesh	Satna	0	0.02	Yes
83	Construction of 118 meter drainage Bamhauri	Rural Infrastructure Development Schedule VII (X)	Yes	Madhya Pradesh	Satna	0.0308	0.03	Yes
84	Renovation of community center at Kotapdu Tadipatri	Rural Infrastructure Development Schedule VII (X)	Yes	Andhra Pradesh	Tadipatri		0.09	Yes
85	Construction of community health center shed at Pen village	Rural Infrastructure Development Schedule VII (X)	Yes	Maharashtra	Raigarh	0.08	0.04	Yes
86	Provided Tractor Trolley to Narayanpur Gram Panchayat for Waste Disposal	Rural Infrastructure Development Schedule VII (X)	Yes	Andhra Pradesh	Vijayawada	0.07	0.08	Yes
						0.37	0.43	
Vocational Skill Development								
87	Driving training to 150 persons with permanent driving license making to villagers/youth	Vocational Skill Development Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.0365	0.04	Yes

88	Permanent driving license making	Vocational Skill Development Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.0129	0.01	Yes
89	Bag making training to 50 women from Baghai and Mankahari villages	Vocational Skill Development Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.0345	0.04	No
90	Stitching and embroidery training to 50 women from Baghai and Mankahari villages	Vocational Skill Development Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.037	0.04	No
91	Cotton wick making training to 25 women from Baghai village	Vocational Skill Development Schedule VII (ii)	Yes	Madhya Pradesh	Satna	0.0137	0.02	No
92	Sewing Machine Distribution Gadab Village - Pen	livelihood enhancement projects Schedule VII (ii)	No	Maharashtra	Raigarh	0.01	0.01	Yes
						0.14	0.16	
	Grand Total					3.60	3.97	



Expenditure 2020-2021(October'21-March'22)

	Unit II
Maintenance of APCEs	2908091
Env Monitoring, STP Operation & Maintenance, Plantation Etc.	2105836
APCE Power Consumption	41497540
Total (INR)	46511467


PRISMA CEMENT LIMITED

Works : Vill-Ashoknagar, P.O. - Jafra, Dist. Solapur - 413 111 (M.P.) India
 Tel. : 0216/721 275209-2, 275221-22, Fax : 275 103
 Corp. Adl. : 'Rajdeep', Resv. Road, Sana - 485 001 (M.P.) India
 Tel. : 06/6721 902726, Fax : 062710



Ref: PCU/ENV/2011/31/U2
 Date: 11.04.2011

To,
Regional Director,
 Ministry of Environment & Forests
 Regional Office, Western Region
 Ravishankar Nagar, Bhopal

Dear Sir,

Sub: Intimation of financial closure of the project
Your Ref: J-11011/949/2007-1A-II (I) Date 22.09.2008

With reference to above mentioned subject and letter, we would like to inform you that the date of financial closure / commercial production is 01.01.2011. A certificate in this regard is attached.

Thanking you,

Yours faithfully,
 For PRISM CEMENT LIMITED

D.K. Singh
 Jt. General Manager (Environment)

Enc: as above

मध्यप्रदेश शासन
जिला व्यापार एवं उद्योग केन्द्र, सतना

क्रमांक / जिव्याउके-सत/बृहद उद्योग/2011/


सतना, दिनांक :-

उत्पादन प्रमाण पत्र

प्रमाणित किया जाता है कि मेसर्स ग्रिज्म सीमेंट यूनिट- 2 (ए यूनिट आफ ग्रिज्म सीमेंट लि0) ग्राम मनकहरी पो0 बठिया जिला-सतना (म0प्र0) को भारत सरकार उद्योग मंत्रालय से आई0ई0एन0 पार्ट बी जारी किया गया है जिसका नं0 3406/ आईआईएम/ पीआरओडी/2011 न्यू देहली दिनांक 27-1-11 है। इसमें वर्णित उत्पाद का नाम वार्षिक स्थापित क्षमता एवं उत्पादन दिनांक निम्नानुसार है :-

क्र0	आईएम कोड	उत्पाद का नाम	स्टील कैपसिटी	व्यवसायिक उत्पादन दिनांक
1-	3242	आल वैसइटीज आफ पोर्टलैण्ड सीमेंट	3600000 टन	1-1-2011
2-	3241	सीमेंट क्लिंकर	2300000 टन	1-1-2011

उपरोक्तानुसार एवं इकाई द्वारा प्रस्तुत किये गये अभिलेखों के आधार पर सीमेंट क्लिंकर की वार्षिक उत्पादन क्षमता 2300000 टन एवं आल वैसइटीज आफ पोर्टलैण्ड सीमेंट की वार्षिक उत्पादन क्षमता 3600000 टन के लिये, व्यवसायिक उत्पादन दिनांक 1-1-2011 है।


महाप्रबंधक

जिला व्यापार एवं उद्योग केन्द्र,
सतना(म0प्र0)

क्रमांक/जिव्याउके-सत/बृहद उद्योग/2011/ 65/5-
प्रतिलिपि :-

सतना, दिनांक :- 31/3/11

मेसर्स ग्रिज्म सीमेंट यूनिट- 2 (ए यूनिट आफ ग्रिज्म सीमेंट लि0) ग्राम मनकहरी पो0 बठिया जिला-सतना (म0प्र0)।


महाप्रबंधक

जिला व्यापार एवं उद्योग केन्द्र,
सतना(म0प्र0)
जिला व्यापार एवं उद्योग केन्द्र,
सतना (म0प्र0)

Advertisements given in Newspapers regarding information of Public Hearing.

नवद्वेष, दिनांक 25-05-2008
सतना

आम सूचना

सर्वसाधारण को यह सूचित किया जाता है कि प्रिज्म सीमेंट (यूनिट-II) क्लिंकर प्रोडक्शन 3.0 MTPA, सीमेंट प्रोडक्शन 6.7 MTPA और माइन्स (हिनीती और सिजहटा 772.067 हे., हिनीती और सिजहटा 99.416 हे. मेढी 117.594 हे. और बगहाई - 512.317 हे.) मनकहरी, पोस्ट-बठिया जिला सतना (म.प्र.) का पर्यावरणीय क्लियरेंस हो गया है। पर्यावरणीय क्लियरेंस हो गया है। पर्यावरणीय क्लियरेंस की प्रति म.प्र. प्रदूषण नियंत्रण बोर्ड एवं पर्यावरण एवं वन मंत्रालय की वेब साइट <http://entor.nic.in> पर उपलब्ध है।

सीएम 3630

देशबन्धु, सतना
दिनांक 25-05-2008

आम सूचना

सर्व साधारण को यह सूचित किया जाता है कि प्रिज्म सीमेंट (यूनिट-II) क्लिंकर प्रोडक्शन 3.0 एम टी पी ए, सीमेंट प्रोडक्शन 6.7 एम टी पी ए और माइन्स (हिनीती और सिजहटा 772.067 हे., हिनीती और सिजहटा 99.416 हे., मेढी 117.594 हे. और बगहाई 512.317 हे.) मनकहरी, पोस्ट बठिया जिला सतना (म.प्र.) का पर्यावरणीय क्लियरेंस हो गया है। पर्यावरणीय क्लियरेंस की प्रति म.प्र. प्रदूषण नियंत्रण बोर्ड एवं पर्यावरण एवं वन मंत्रालय की वेब साइट <http://entor.nic.in> पर उपलब्ध है।

प्रबंधक
प्रिज्म सीमेंट लि.
मनकहरी, जिला सतना म.प्र.