

COMPLIANCE REPORT

For INTEGRATED CEMENT PROJECT

Cement Plant – II & Mines (Hinouti & Sijahata-I-772 Ha. Hinouti & Sijahata-II-99 Ha., Mendhi – 117 Ha. & Bagahai – 512 Ha.)

(Period : Oct, 2018 - March, 2019)



OF



M/s Prism Johnson Limited.
(Formerly Prism Cement Limited)
Village—Mankahari, P.O.-Bhatila
Distt., - Satna (M.P.)



दूर की सोच

Date: 15.06.2019

Ref: PJJ/ENV/ 2019/

To,
The Regional Director,
Ministry of Environment, Forest & Climate Change
Paryavaran Bhawn,
Ravishankar Nagar, Bhopal.

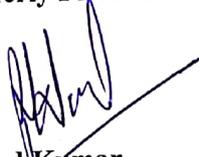
Sub: Six Monthly EC Compliance Report of Prism Cement Unit – II & Int. Limestone mines.
Ref: Environmental Clearance letter No. F. No. – J- 11011/949/2007/IA-II(I) dated
22.09.2008

Dear Sir,

With reference to above mentioned subject, we are herewith submitting the half yearly report (October 2018 to March 2019) related to the 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 Ltd.
(Formerly Prism Cement Limited)


Pramod Kumar
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

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

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Corres. Add.: 'Rajdeep', Rewa Road, Satna - 485 001 (M.P.) India. T: +91-07672-402726
Registered Office: Prism Johnson Limited, 305, Laxmi Niwas Apartments, Ameerpet, Hyderabad - 500 016, India.
www.prismjohnson.in, www.cement.prismjohnson.in, E: info@prismjohnson.in

CIN: L26942TG1992PLC014033



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.	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/Nm ³ .	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.									
	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.	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. Photographs of AAQMS, CEMS & display board is enclosed as Annexure 2. 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.									
2	Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored Guidelines/Code of Practice issued by the CPCB in this regard should be followed.. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at material transfer points. 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. Concreting of all the roads, water	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. Guidelines/Code of Practice issued by the CPCB in this regard are being followed. Details of practices adopted to control fugitive emission are as follows:- 1. Covered Sheds and Silos are provided for storage of Raw materials. Details are mentioned below:- <table border="1" data-bbox="844 1690 1437 1892"> <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> </tbody> </table>	S.No.	Name of raw material	Storage Facility	1.	Limestone	Covered Shed	2.	Coal	Covered Shed
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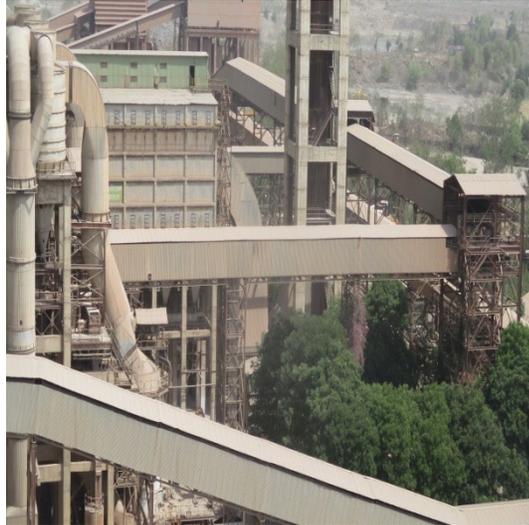
	<p>sprinkling system at limestone and coal handling area shall be ensured to reduce fugitive emissions</p>	<table border="1" data-bbox="842 191 1438 445"> <tr> <td>3.</td> <td>Gypsum</td> <td>Covered Shed</td> </tr> <tr> <td>4.</td> <td>Laterite</td> <td>Covered Shed</td> </tr> <tr> <td>5.</td> <td>Clinker</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> </table> <ol style="list-style-type: none"> 2. Flexible curtains and water spray arrangement has been provided at the unloading of limestone at crusher. 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 tankeris 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.	Gypsum	Covered Shed	4.	Laterite	Covered Shed	5.	Clinker	Silo	6.	Fly ash	Silo	7.	Cement	Silo
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3	<p>Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities.</p>	<p>Ambient Air emission parameters are well within the prescribed norms. Noise levels are also within the norms. Monitoring report of ambient air quality analysis and noise monitoring is enclosed as Annexure 4</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>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. Calibration certificates are attached at -Annexure no. 4(b)</p>															

4

Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.

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.

Raw materials and end products are transported within the plant premises with the help of closed conveyor belts to reduce impact of transport.



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

		<p>control fugitive emission.</p> <p>4. Dense plantation is done in Plant & Mines premises.</p>																		
5.	<p>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>	<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 Silos having capacity of..... and 100 % fly ash is used in cement manufacturing.</p> <p>Consumption of fly ash is as follows:</p> <table border="1"> <thead> <tr> <th colspan="2">Yearly Fly Ash Consumption</th> </tr> <tr> <th>Year Qty</th> <th>(MT)</th> </tr> </thead> <tbody> <tr> <td>13-2014</td> <td>688628</td> </tr> <tr> <td>14-2015</td> <td>907848</td> </tr> <tr> <td>15-2016</td> <td>848939</td> </tr> <tr> <td>16-2017</td> <td>810908</td> </tr> <tr> <td>17-2018</td> <td>701922</td> </tr> <tr> <td>18-2019</td> <td>855770</td> </tr> </tbody> </table>	Yearly Fly Ash Consumption		Year Qty	(MT)	13-2014	688628	14-2015	907848	15-2016	848939	16-2017	810908	17-2018	701922	18-2019	855770		
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6.	<p>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>	<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> <p>Details of hazardous waste used are as follows:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Name of waste utilized</th> <th>Source of waste</th> <th>Quantity used in Particular year</th> <th>Utilization points</th> <th>Pollution Control arrangement</th> </tr> </thead> <tbody> <tr> <td>13-14</td> <td>Plastic waste</td> <td>Sarthak Samudiyik & Vikash Sansthan</td> <td>15MT</td> <td>Kiln</td> <td>RABH</td> </tr> <tr> <td>14-15</td> <td>Plastic</td> <td>JK Traders, Satna</td> <td>13MT</td> <td>Kiln</td> <td>RABH</td> </tr> </tbody> </table>	Year	Name of waste utilized	Source of waste	Quantity used in Particular year	Utilization points	Pollution Control arrangement	13-14	Plastic waste	Sarthak Samudiyik & Vikash Sansthan	15MT	Kiln	RABH	14-15	Plastic	JK Traders, Satna	13MT	Kiln	RABH
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		15-16	Plastic waste	JK Traders, Satna	16.5MT	Kiln RABH
		16-17	Plastic waste	JK Traders, Satna	4.2 MT	Kiln RABH
		17-18	Plastic waste	JK Traders, Satna	10.1MT	Kiln RABH
		18-19	Plastic waste	JK Traders, Satna&CruzeRoadline, Kolkata.	40.29 MT	Kiln RABH
7.	Total water requirement shall not exceed 2500 m ³ /day.	<p>Water consumption will not exceed 2500 mm³ / day. Details of water consumption is mentioned below:</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). STP treated water analysis report is enclosed as Annexure 5 (b). Photographs of STP and Green Belt is enclosed as Annexure 5 (c).</p>				
	<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.</p> <p>'Zero' discharge shall be strictly adopted and no effluent from the process shall be discharged outside the premises.</p>	<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.	<p>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:</p>				

		<ol style="list-style-type: none"> 1. Water harvesting pond of capacity 13 Lac m³ has been constructed in Mines area. 2. 7 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 Ponds at Mankahari and Bamhauri village with Hume pipe and ground water recharge system. 10. Construction of water reservoir at Baghai village for water conservation. <p>Photographs of rain water Harvesting Structure is enclosed as Annexure 6.</p>
	<p>Besides, company must also harvest the rain water from the roof tops and storm water drains to recharge the ground water</p>	<p>There are 7 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. <p>Filters have been installed at roof top drain so as to filter out the dust, grits solid contents into bore-wells.</p>
	<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>	<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 Ponds at Mankahari and Bamhauri village with Hume pipe and ground water recharge system. 2. Construction of water reservoir at Baghai village for water conservation. <p>The action plan is submitted to Ministry's Regional Office at Bhopal. Copy of same is enclosed as Annexure 7.</p>
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°.</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 P/Satna/ Limestone/M.Sch-86/14-15/2443 Dt.06.04.15, 2. 99.416 ha (Hinauti&Sijahata) vide IBM letter no MP/Satna/ Limestone/RMP-44/17-18Dt. 27.04.2017, 3.512.317ha (Baghai) vide IBM letter no MP/Satna/Limestone/MPLN/MOD63/20172018/3365 Dt.29.02.16 and 4. 117.594 ha (Mendhi) vide IBM letter no MP/Satna/ Limestone/ M.Sch-6/16-1 Dt. 04.11.2016 by 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 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	The project proponent shall ensure that no natural water course shall be obstructed due to any mining and plant operations	<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 Magardahanalla is located outside the lease area in the western side. Magardahanalla 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, MagardahaNala and Nar Nala (natural water course) which is adjacent to the HinoutiSijhata 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. <p>There is no proposal for diversion/ obstruction/ modification of any natural water course during mining activity.</p>
	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. Copy is enclosed as Annexure no. 10.
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 interburden 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 113316 number of plantation has been done in Mines area and 6497 no. of plantation has been done in plant and colony premises.</p> <p>In addition to the above we have planted 106158no. of plants during CSR activities in nearby village area.</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	<p>The total height of the dumps are not exceeding then 30 m and the slope of the dumps are maintained at 28°.</p> <p>Details regarding dumps is enclosed as Annexure 9.</p>

	maintained to 28. The interburden dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off.	
	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. PCL/ ENV/ 2019 / 100 dated 14.01.2019.
13	The void left unfilled shall be converted into water body.	Agreed. A Rain water harvesting reservoir has been already developed which is having capacity of 13lakh Cubic meter. The accumulated water is used for industrial purpose at mine and cement plant. Proper landscaping is done around the water body.
	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	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.	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. Garland drain along lease boundaries of 3.0 Km (cumulative in two locations) has been constructed. Check dams have been made at regular intervals in garland drains to hinder the flow of rain water and to arrest the silt.

		
	<p>The water so collected should be utilized for watering the mine area, roads, green belt development etc.</p>	<p>Complying with. The water so collected is being utilized for watering of Mine area, green belt development etc.</p>
	<p>The drains should be regularly de-silted, particularly after monsoon, and maintained properly.</p>	<p>The drains are regularly de- silted, particularly after monsoon, and maintained properly</p>
<p>15</p>	<p>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</p>	<p>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.</p>

	should be constructed at the corners of the garland drains and de-silted at regular intervals.	
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 11.
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

		<p>of blast vibration frequencies confirmed that concentration of frequencies is in band of 13.3-40.3 Hz. 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 12.</p>
19	The project proponent shall adopt wet drilling.	Complying with Regular wet drilling is practiced.

			
20	As proposed, green belt should be developed in 33% in and around the plant as per the CPCB guidelines.	Total 113316 number of plantation has been done in Mines area and 6497 no. of plantation has been done in plant and colony premises. In addition to the above we have planted 106158 no. of plants during CSR activities in nearby village area.	
21	All the recommendations of the Corporate Responsibility for Environmental Protection (CREP) shall be strictly followed.	<p>Action Plan</p> <p>Cement Plant, which are not complying with notified standards shall do the following to meet the standards</p> <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 	<p>Compliance status</p> <p>Complied with.</p>
		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	Complied.

		emissions	
		CPCB will evolve load based standards by December 2003	-----
		CPCB & NCBM will evolve SO2 & NOx 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 submit its recommendations within three months	Complied Bag Filters installed at all Material transfer points, Water spraying regularly on haul roads.
		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	Complied.

		be minimized by July 2003 as per the recommendation of NTF		
		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.	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. No vehicle without valid PUC is allowed inside the plant and mines area. The vehicles engaged in transportation of minerals outside the core zone are provided with tarpaulin and no overloading is allowed.		
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	Complying with. 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. Copy is enclosed as Annexure 13.		
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 14.		
	B.General Condition:			
1		Cement plant and all the mining operation are carried out		

	The project authority shall adhere to the stipulations made by State Pollution Control Board (SPCB) and State Government.	with valid consent under air and water act issued by SPCB. The copy of consent is enclosed as Annexure-15 .
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	Agreed.
4	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.
5	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- 16</p>
6	<p>The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.</p>	<p>The overall noise level is within threshold limit of 85dBA. To arrest the noise levels all equipment are equipped with acoustic hoods, silencer,enclosures etc. besides that operators havebeen provided with PPE. Green belt is developed along the plant andmining area to minimize the noise pollution.</p>
	<p>The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act,1986 Rules,1989 viz. 75 dBA (day time) and 70 dBA (night time).</p>	<p>Ambient Noise levels are maintained well within the prescribed norms under Environmental (Protection) Act, 1986 Rules, 1989. Noise Monitoring report is enclosed as Annexure 4.</p>
7	<p>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 least30-40 years. The programme shall include lung function and sputum analysis maintained properly tests once in</p>	<p>We have already conducted various healthsurveillance programs whose records aremaintained properly. Also sufficient preventive measures are adopted during the plant and miningoperation to avoid direct exposure to dustetc.</p> <p>Occupational Health Survey (OHS)</p> <p>a) Periodical Medical Examinations are conducted of each employee by outsidespecialists</p>

	<p>six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc</p>	<p>once in every 5 years. Under this scheme each employee undergoes Pathological tests, blood group test, chest X-Rays, Audiometry tests, eye test 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 17 (a). Details of various health programmes conducted is enclosed as Annexure 17 (b).</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 2018-19 is enclosed as Annexure 18.</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 analyse 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

		<p>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.</p> <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 17MW which is 40% of the total energy required for the entire establishment are being installed.
9	<p>Environmental Management Cell has to be established to carry out functions relating to environmental management action plans. The head of the cell should directly report to the Chief Executive</p>	<p>Environmental Management Cell is functioning effectively, Structure of which is enclosed as Annexure 19.</p>
10	<p>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</p>	<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 20.</p>

	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.	
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.	Agreed.
	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 - PCL/ ENV/ 2019 / 100 dated 14.01.2019.
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-21.
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	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.

	31st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	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 contractions 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-21 .
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.	Noted.
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	Complied. 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 news papers i.e. Navswadesh and DeshBandhu on 25.09.2008. Copy of advertisement is enclosed as Annexure 22 .

	<p>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>	
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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack2/03/19

TEST REPORT ISSUE DATE:25.03.2019

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 : 11.03.2019
 Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
 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) : 38.0
 Flue Gas Temperature (°C) : 154.0
 Exit Velocity of Gas (m/sec.) : 15.87
 Flow Rate (Nm³/ sec.) : 188.94
 APCD if any : Bag House

Sl. No.	Tests Conducted	Method	<u>Pollutant Concentration in</u> (At 10% O ₂)
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	19.80
2.	Sulphur Dioxide (SO ₂) (mg/Nm ³)	IS:11255 (Part-2)	21.65
3.	Nitrogen Oxides (NOx) (mg/Nm ³)	IS:11255 (Part-7)	552.20

*The results are related only to item tested.

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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack4/03/19

TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF STACK EMISSIONS*

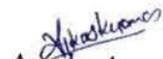
Name of the Company : M/s Prism Johnson Ltd.
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 12.03.2019
Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
Source of Emission : Coal Mill Emission
Sampling Method : IS: 11255
Instrument Used : 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) : 38.0
Flue Gas Temperature (°C) : 80.0
Exit Velocity of Gas (m/sec.) : 9.72
Flow Rate (Nm³/ sec.) : 31.14
APCD if any : Bag House

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	18.85

*The results are related only to item tested.


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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack6/03/19

TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF STACK EMISSIONS*

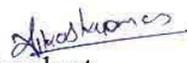
Name of the Company : M/s Prism Johnson Ltd.
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 12.03.2019
Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
Source of Emission : Cooler Stack Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit

Details of Stack

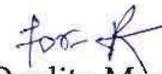
Material of Construction : M.S.
Stack Attached to : Cooler Unit-2
Stack Height (m) : 50.0
Stack Top : Circular
Inside Diameter of Stack (m) : 4.5
(at sampling point)
Cross Sectional Area of Duct/Stack (m²) : 15.89
Ambient Air (°C) : 38.0
Flue Gas Temperature (°C) : 270.0
Exit Velocity of Gas (m/sec.) : 15.87
Flow Rate (Nm³/ sec.) : 133.31
APCD if any : ESP

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	24.10

*The results are related only to item tested.


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FORMAT NO. ECO/QS/FORMAT/12 TEST REPORT NO: ECO LAB/Stack9/03/19
TEST REPORT ISSUE DATE:25.03.2019**TEST REPORT OF STACK EMISSIONS***

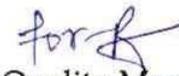
Name of the Company : M/s Prism Johnson Ltd.
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 12.03.2019
Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
Source of Emission : Cement Mill Emission
Sampling Method : IS: 11255
Instrument 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) : 38.0
Flue Gas Temperature (°C) : 83.0
Exit Velocity of Gas (m/sec.) : 7.84
Flow Rate (Nm³/ sec.) : 5.0
APCD if any : Bag House

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	19.20

*The results are related only to item tested.


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LABORATORIES PVT. LTD.FORMAT NO. ECO/QS/FORMAT/12 TEST REPORT NO: ECO LAB/Stack10/03/19
TEST REPORT ISSUE DATE:25.03.2019**TEST REPORT OF STACK EMISSIONS***

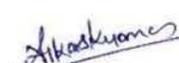
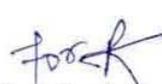
Name of the Company : M/s Prism Johnson Ltd.
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 12.03.2019
Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
Source of Emission : Cement Mill Emission
Sampling Method : IS: 11255
Instrument 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) : 39.0
Flue Gas Temperature (°C) : 85.0
Exit Velocity of Gas (m/sec.) : 7.49
Flow Rate (Nm³/ sec.) : 4.75
APCD if any : Bag House

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	23.25

*The results are related only to item tested.

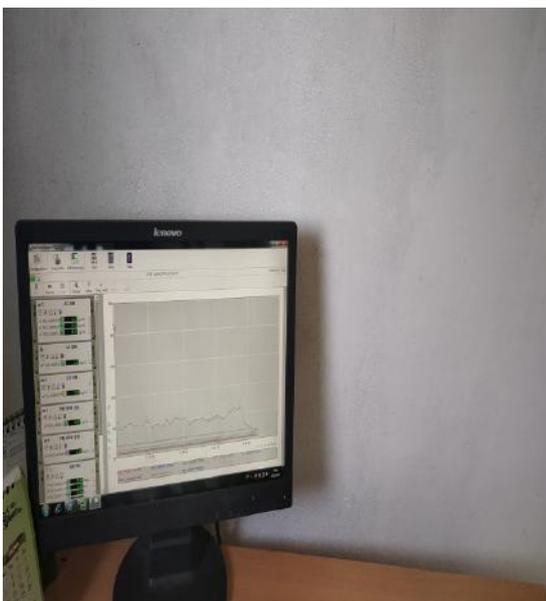

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AAQMS Station



AAQMS Panel



Desktop showing Monitoring data Panel



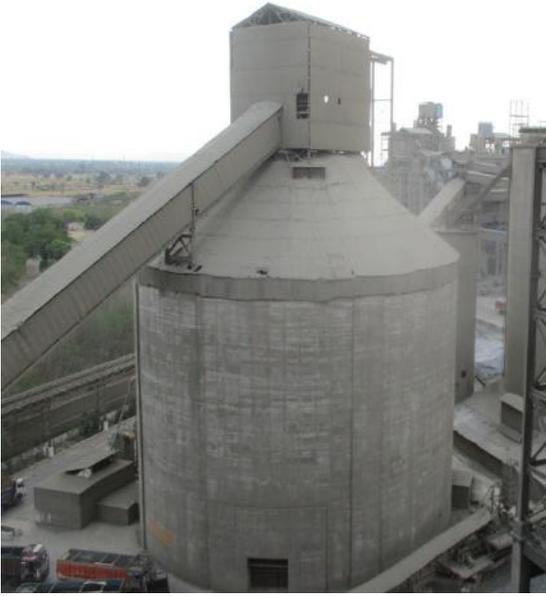
Continuous Emission Monitoring system Panel



LED Display of emission parameters at Main Gate of premises

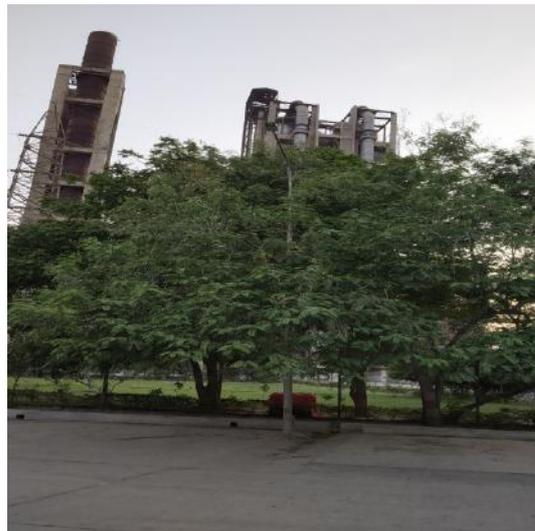
Annexure 3





Plantation & Concrete roads





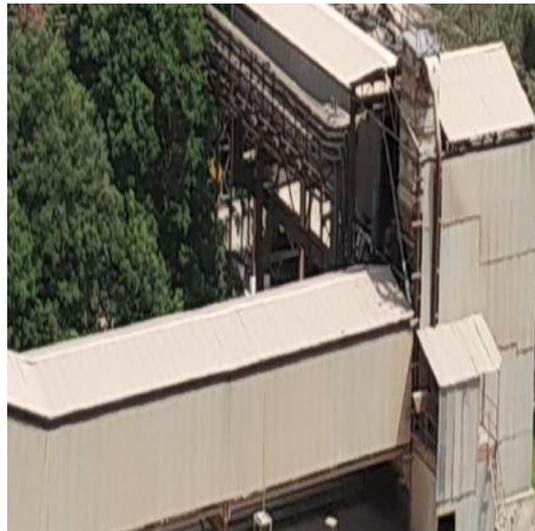


Water Sprinkling





Covered Conveyor Belt & Bag filters





ENVIRONMENTAL TEST REPORT

of



M/s Prism Cement Limited

Village - Mankahari
Tehsil - Rampur Baghelan
District - Satna (M.P.)

for

March, 2019

Prepared by:
ecoMen

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FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ1/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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. Maan Singh & Mr. Virendra Singh
 Sampling Method : IS: 5182
 Instrument Used : FDS & RDS

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			11.03.2019	11.03.2019	11.03.2019	11.03.2019	
1	PM _{2.5} (µg/m ³)	NAAQM guide line volume - I by CPCB	38.40	42.80	50.70	45.15	60
2	PM ₁₀ (µg/m ³)	IS:5182 (Part-23)	72.90	78.86	88.55	82.90	100
3	SO ₂ (µg/m ³)	IS:5182 (Part-2)	14.48	14.81	15.30	17.85	80
4	NO _x (µg/m ³)	IS:5182 (Part-6)	21.20	23.50	24.28	28.80	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.80	0.82	0.86	0.90	02

*The results are related only to item tested.

Note:

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

Standards:

S1 = Ambient Air Quality Standard for Residential, Industrial & Rural Other Area

Analyst

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Quality Manager

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FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ2/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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. Maan Singh & Mr. Virendra Singh
Sampling Method : IS: 5182
Instrument Used : FDS & RDS

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			12.03.2019	12.03.2019	12.03.2019	12.03.2019	
1	PM _{2.5} (µg/m ³)	NAAQM guide line volume - I by CPCB	50.40	43.85	35.20	38.70	60
2	PM ₁₀ (µg/m ³)	IS:5182 (Part-23)	88.45	78.20	62.10	68.40	100
3	SO ₂ (µg/m ³)	IS:5182 (Part-2)	15.70	18.50	16.29	20.50	80
4	NO _x (µg/m ³)	IS:5182 (Part-6)	23.25	25.16	24.20	26.80	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.85	0.80	0.54	0.60	02

*The results are related only to item tested.

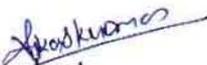
Note:

L1= Nr Mines Site Office
L3=Village Hinauti

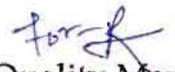
L2= Near Western Block Garden,
L4= Village Sijahata

Standards:

S1 = Ambient Air Quality Standard for Residential, Industrial & Rural Other Area


Analyst


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FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ3/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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. Maan Singh & Mr. Virendra Singh
 Sampling Method : IS: 5182
 Instrument Used : FDS & RDS

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			13.03.2019	13.03.2019	13.03.2019	13.03.2019	
1	PM _{2.5} (µg/m ³)	NAAQM guide line volume - I by CPCB	37.20	44.90	50.65	52.60	60
2	PM ₁₀ (µg/m ³)	IS:5182 (Part-23)	76.90	77.15	79.70	80.52	100
3	SO ₂ (µg/m ³)	IS:5182 (Part-2)	12.85	16.30	15.54	14.87	80
4	NO _x (µg/m ³)	IS:5182 (Part-6)	18.20	22.98	22.87	21.20	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.72	0.75	0.78	0.80	02

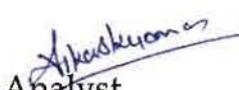
*The results are related only to item tested.

Note:

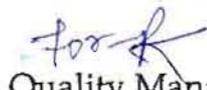
L1= Adiwasi Tola (Nr Bagahai ML Area) L2= At BaisanTola (Nr. Bagahai ML Area),
 L3=South Side of Working Pit (Bagahai Mines) L4= Near Boundary Pillar No.64 Bagahai

Standards:

S1 = Ambient Air Quality Standard for Residential, Industrial & Rural Other Area


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FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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. Maan Singh & Mr. Virendra Singh
 Sampling Method : IS: 5182
 Instrument Used : FDS & RDS

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			14.03.2019	14.03.2019	14.03.2019	14.03.2019	
1	PM _{2.5} (µg/m ³)	NAAQM guide line volume – I by CPCB	57.30	54.90	55.70	50.10	60
2	PM ₁₀ (µg/m ³)	IS:5182 (Part-23)	99.12	94.20	98.10	92.60	100
3	SO ₂ (µg/m ³)	IS:5182 (Part-2)	20.30	24.28	14.80	13.80	80
4	NO _x (µg/m ³)	IS:5182 (Part-6)	28.10	30.30	23.60	22.40	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.92	0.94	0.92	0.88	02

*The results are related only to item tested.

Note:L1= Near Cement Mill Unit –II
L3= Near Packing PlantL2= Near Railway Yard,
L4= Kiln Unit-II

Analyst

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FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ5/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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. Maan Singh & Mr. Virendra Singh
 Sampling Method : IS: 5182
 Instrument Used : FDS & RDS

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			15.03.2019	15.03.2019	15.03.2019	15.03.2019	
1	PM _{2.5} (µg/m ³)	NAAQM guide line volume - I by CPCB	33.60	42.85	40.74	36.70	60
2	PM ₁₀ (µg/m ³)	IS:5182 (Part-23)	75.20	84.58	72.10	66.90	100
3	SO ₂ (µg/m ³)	IS:5182 (Part-2)	12.40	16.85	20.20	16.42	80
4	NO _x (µg/m ³)	IS:5182 (Part-6)	17.60	22.20	26.40	20.60	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.87	0.85	0.76	0.70	02

*The results are related only to item tested.

Note:

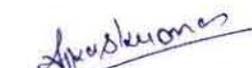
L1=Nr. Nar Nala Bridge,

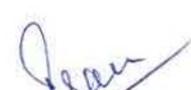
L2= Nr. Medhi Mines Boundary Pillar No 28

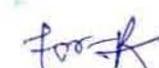
L3= Nr. Medhi Mines Boundary Pillar No.23 L4= Village Malgaon

Standards:

S1 = Ambient Air Quality Standard for Residential, Industrial & Rural Other Area


 Analyst


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FORMAT NO. ECO/QS/FORMAT/10

TEST REPORT NO: ECO LAB/AAQ6/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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. Maan Singh & Mr. Virendra Singh
 Sampling Method : IS: 5182
 Instrument Used : FDS & RDS

Sl. No.	Tests Conducted	Method	Result				Limit as per National Ambient Air Quality Standards
			L1	L2	L3	L4	
			16.03.2019	16.03.2019	16.03.2019	16.03.2019	
1	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	NAAQM guide line volume - I by CPCB	30.10	36.90	34.54	32.80	60
2	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	IS:5182 (Part-23)	61.58	70.20	64.41	68.40	100
3	SO ₂ ($\mu\text{g}/\text{m}^3$)	IS:5182 (Part-2)	14.32	17.93	13.84	14.88	80
4	NO _x ($\mu\text{g}/\text{m}^3$)	IS:5182 (Part-6)	20.28	26.50	22.52	23.47	80
5	CO (mg/m ³)	IS:5182 (Part-10)	0.50	0.68	0.70	0.62	02

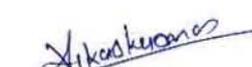
*The results are related only to item tested.

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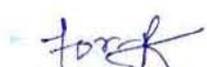
L1=Village Badarkha L2= Village Hinauta
 L3= Village Chulhi L4= Village Kulhari

Standards:

S1 = Ambient Air Quality Standard for Residential, Industrial & Rural Other Area


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 Quality Manager

FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN1/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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. RamjeetYadav& Mr. MaanSingh
 Date of Monitoring : 11.03.2019 to 12.03.2019
 Instrument Description : Noise Meter (Make:HTC)
 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	54.9	44.2
2.	Near Guest House	54.6	44.7
3.	Near Crusher Unit-II	70.9	64.2
4.	Near Admin. Building	66.5	61.6

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:

- 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.

Analyst

Authorized Signatory

Quality Manager

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FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN2/03/19

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF AMBIENT NOISE LEVEL

Name of the Company : M/s Prism Johnson Ltd
Hinauti- Sijahata &
Mankahari Limestone mines
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District- Satna (M.P.)
Sample Collected by : Mr. Ramjeet Yadav & Mr. Maan Singh
Date of Monitoring : 11.03.2019 to 12.03.2019
Instrument Description : Noise Meter (Make-HTC)
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	71.8	62.0
2.	Near Western Block Garden	62.7	54.5
3.	Village Hinauti	54.5	42.9
4.	Village Sijahata	50.2	40.3

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.

Analyst

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FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN3/03/19

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF AMBIENT NOISE LEVEL

Name of the Company : M/s Prism Johnson Ltd.
 Address of the Company : Medhi Limestone mines
 Village Mankahari
 Tehsil Rampur Baghelan
 District- Satna(M.P.)
 Sample Collected by : Mr. RamjeetYadav& Mr. Maan Singh
 Date of Monitoring ; 13.03.2019 to 14.03.2019
 Instrument Description : Noise Meter (Make-HTC)
 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	52.9	42.2
2.	Near Medhi Mines Boundary Pillar No28	61.3	51.4
3.	Near Medhi Mines Boundary Pillar No23	60.9	53.7
4.	Village Malgaon	50.6	43.2

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.

Ravi Bhargava
Analyst

Maan Singh
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For A
Quality Manager

FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN4/03/19

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF AMBIENT NOISE LEVEL

Name of the Company : M/s Prism Johnson Ltd.
 Address of the Company : Bagahai Limestone Mines
 Village Mankahari
 Tehsil Rampur Baghelan
 District- Satna(M.P.)
 Sample Collected by : Mr. RamjeetYadav& Mr. Maan Singh
 Date of Monitoring : 13.03.2019 to 14.03.2019
 Instrument Description : Noise Meter (Make:HTC)
 Test Method : IS: 4412, Part-1 & 2, 1991

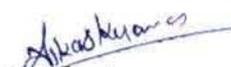
Sl. No.	Locations	Day Time Leq Value in dB(A)	Night Time Leq Value in dB(A)
1.	At AdiwasiTola	54.2	42.9
2.	At BaisanTola	52.6	40.6
3.	South Site of Working Pit	68.9	61.2
4.	Near Boundary Pillar No.64	63.6	57.9

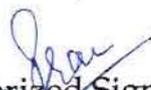
Noise (Ambient Standard)

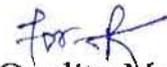
Area Code	Category of area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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.


Analyst


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Quality Manager

FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN5/03/19

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF AMBIENT NOISE LEVEL

Name of the Company : M/s Prism Johnson Ltd.
 Address of the Company : Bagahai Limestone mines
 Village Mankahari
 Tehsil Rampur Baghelan
 District- Satna(M.P.)
 Sample Collected by : Mr. Ramjeet Yadav & Mr. Maan Singh
 Date of Monitoring : 15.03.2019 to 16.03.2019
 Instrument Description : Noise Meter (Make:HTC)
 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	51.8	43.4
2.	Village Hinauta	50.4	42.2
3.	Village Chulhi	53.6	43.9
4.	Village Kulhari	49.7	41.4

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.

Analyst

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Quality Manager

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FORMAT NO. ECO/QS/FORMAT/13

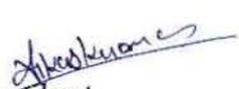
TEST REPORT NO: ECO LAB/AN6/03/19

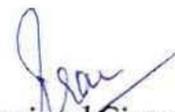
TEST REPORT ISSUE DATE: 25.03.2019

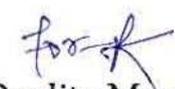
TEST REPORT OF WORK PLACE NOISE LEVEL

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. RamjeetYadav& Mr. Maan Singh
Date of Monitoring : 15.03.2019 to 16.03.2019
Instrument Description : Noise Meter (Make:HTC)
Test Method : IS: 4412, Part-1 & 2, 1991

Sl. No.	Locations	Noise Level dB(A)
1.	Kiln Unit-II	84.5
2.	Cement Mill Unit -II	81.6
3.	Near Railway Yard,	77.6
4.	Near Packing Plant	81.2


Analyst


Authorized Signatory
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FORMAT NO. ECO/QS/FORMAT/13

TEST REPORT NO: ECO LAB/AN1/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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. Ramjeet Yadav & Mr. Maan Singh
 Date of Monitoring : 13.05.2019 to 14.05.2019
 Instrument Description : Noise Meter (Make:HTC)

Sl. No.	Locations	Leq Value in dB(A)	Protective Measures Adopted
Dozer-155 A			
1	Operator's cabin idle running	66.2	Ear muff provided
2	Operator's Cabin running on load	83.4	Ear muff provided
Poclain 300 CK			
3	Operator's cabin idle running	75.9	Ear muff provided
4	Operator's Cabin while loading	80.4	Ear muff provided
HAULPAK-PH 40			
5	Operator's Cabin while being loaded	73.6	Ear muff provided
6	Operator's Cabin while hauling	75.8	Ear muff provided
7	Operator's Cabin unloading in the hopper of crusher	97.6 (For 20 Second)	Ear muff provided
8	Alarm (while Reversing of dumper)	104.0	Short Duration
ATLASCOPCODRILL			
9	Operator's point while drilling	81.6	Ear muff provided
ROCKBREAKER			
10	Operator's Cabin	76.5	Ear muff provided
HEAVY BLASTING (INSTANTANEOUS)			
11	Blasting shelter	111.6	Momentary
12	At safe zone	81.2	
AMBIENT NOISE LEVEL DURING WORKING HOURS			
13	Office Campus, Mines workshop, Outfield (Haul Road)	73.4	-
14	Office Campus, Mines Workshop, Outfield (Haul Road) (at Night)	57.6	-

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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack1/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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 : 11.03.2019
 Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
 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) : 125
 Stack Top : Circular
 Inside Diameter of Stack (m) : 4.6
 (at sampling point)
 Cross Sectional Area of Duct/Stack (m²) : 16.61
 Ambient Air (°C) : 38.0
 Flue Gas Temperature (°C) : 162.0
 Exit Velocity of Gas (m/sec.) : 14.84
 Flow Rate (Nm³/ sec.) : 164.43
 APCD if any : Bag House

Sl. No.	Tests Conducted	Method	<u>Pollutant Concentration in</u> (At 10% O ₂)
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	20.80
2.	Sulphur Dioxide (SO ₂) (mg/Nm ³)	IS:11255 (Part-2)	21.25
3.	Nitrogen Oxides (NOx) (mg/Nm ³)	IS:11255 (Part-7)	565.50

*The results are related only to item tested.

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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack2/03/19

TEST REPORT ISSUE DATE:25.03.2019

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 : 11.03.2019
 Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
 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) : 38.0
 Flue Gas Temperature (°C) : 154.0
 Exit Velocity of Gas (m/sec.) : 15.87
 Flow Rate (Nm³/ sec.) : 188.94
 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)	19.80
2.	Sulphur Dioxide (SO ₂) (mg/Nm ³)	IS:11255 (Part-2)	21.65
3.	Nitrogen Oxides (NOx) (mg/Nm ³)	IS:11255 (Part-7)	552.20

*The results are related only to item tested.

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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack3/03/19

TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF STACK EMISSIONS*

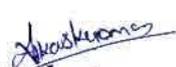
Name of the Company : M/s Prism Johnson Ltd.
 Address of the Company : Village Mankahari
 Tehsil Rampur Baghelan
 District Satna (M.P.)
 Date of Monitoring : 12.03.2019
 Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
 Source of Emission : Coal Mill Emission
 Sampling Method : IS: 11255
 Instrument Used : Stack Monitoring Kit

Details of Stack

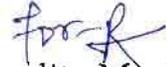
Material of Construction : M.S.
 Stack Attached to : Coal Mill Unit-1
 Stack Height (m) : 50.0
 Stack Top : Circular
 Inside Diameter of Stack (m) : 2.24
 (at sampling point)
 Cross Sectional Area of Duct/Stack (m²) : 3.94
 Ambient Air (°C) : 38.0
 Flue Gas Temperature (°C) : 78.0
 Exit Velocity of Gas (m/sec.) : 10.15
 Flow Rate (Nm³/ sec.) : 32.70
 APCD if any : Bag House

Sl. No.	Tests Conducted	Method	<u>Pollutant Concentration</u>
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	24.80

*The results are related only to item tested.


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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack4/03/19

TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF STACK EMISSIONS*

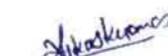
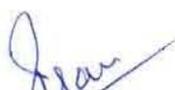
Name of the Company : M/s Prism Johnson Ltd.
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 12.03.2019
Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
Source of Emission : Coal Mill Emission
Sampling Method : IS: 11255
Instrument Used : 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) : 38.0
Flue Gas Temperature (°C) : 80.0
Exit Velocity of Gas (m/sec.) : 9.72
Flow Rate (Nm³/ sec.) : 31.14
APCD if any : Bag House

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	18.85

*The results are related only to item tested.


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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack5/03/19

TEST REPORT ISSUE DATE:25.03.2019

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 : 12.03.2019
 Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
 Source of Emission : Cooler Stack Emission
 Sampling Method : IS: 11255
 Instrument Used : Stack Monitoring Kit

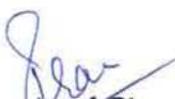
Details of Stack

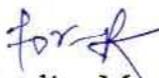
Material of Construction : M.S.
 Stack Attached to : Cooler Unit-1
 Stack Height (m) : 50.0
 Stack Top : Circular
 Inside Diameter of Stack (m) : 4.6
 (at sampling point)
 Cross Sectional Area of Duct/Stack (m²) : 16.61
 Ambient Air (°C) : 38.0
 Flue Gas Temperature (°C) : 278.0
 Exit Velocity of Gas (m/sec.) : 14.65
 Flow Rate (Nm³/ sec.) : 126.77
 APCD if any : ESP

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	22.30

*The results are related only to item tested.


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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack6/03/19

TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF STACK EMISSIONS*

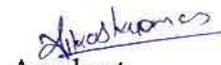
Name of the Company : M/s Prism Johnson Ltd.
 Address of the Company : Village Mankahari
 Tehsil Rampur Baghelan
 District Satna (M.P.)
 Date of Monitoring : 12.03.2019
 Sample Collected by : Mr.Ramjeet Yadav & Mr.Maam Singh
 Source of Emission : Cooler Stack Emission
 Sampling Method : IS: 11255
 Instrument Used : Stack Monitoring Kit

Details of Stack

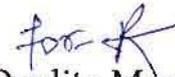
Material of Construction : M.S.
 Stack Attached to : Cooler Unit-2
 Stack Height (m) : 50.0
 Stack Top : Circular
 Inside Diameter of Stack (m) : 4.5
 (at sampling point)
 Cross Sectional Area of Duct/Stack (m²) : 15.89
 Ambient Air (°C) : 38.0
 Flue Gas Temperature (°C) : 270.0
 Exit Velocity of Gas (m/sec.) : 15.87
 Flow Rate (Nm³/ sec.) : 133.31
 APCD if any : ESP

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	24.10

*The results are related only to item tested.


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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack7/03/19

TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF STACK EMISSIONS*

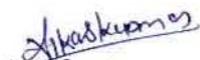
Name of the Company : M/s Prism Johnson Ltd.
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 12.03.2019
Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
Source of Emission : Cement Mill Emission
Sampling Method : IS: 11255
Instrument Used : Stack Monitoring Kit

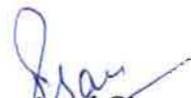
Details of Stack

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) : 38.0
Flue Gas Temperature (°C) : 81.0
Exit Velocity of Gas (m/sec.) : 7.17
Flow Rate (Nm³/ sec.) : 4.18

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	18.20

*The results are related only to item tested.


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FORMAT NO. ECO/QS/FORMAT/12

TEST REPORT NO: ECO LAB/Stack8/03/19

TEST REPORT ISSUE DATE:25.03.2019

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 : 12.03.2019
 Sample Collected by : Mr.Ramjeet Yadav & Mr.Maansingh
 Source of Emission : Cement Mill Emission
 Sampling Method : IS: 11255
 Instrument Used : Stack Monitoring Kit

Details of Stack

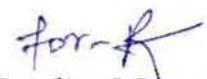
Material of Construction : M.S.
 Stack Attached to : Cement Mill-2 (Unit - I)
 Stack Height (m) : 36.0
 Stack Top : Circular
 Inside Diameter of Stack (m) : 0.96
 (at sampling point)
 Cross Sectional Area of Duct/Stack (m²) : 0.72
 Ambient Air (°C) : 39.0
 Flue Gas Temperature (°C) : 87.0
 Exit Velocity of Gas (m/sec.) : 8.13
 Flow Rate (Nm³/ sec.) : 4.71
 APCD if any : Bag House

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	16.75

*The results are related only to item tested.


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FORMAT NO. ECO/QS/FORMAT/12 TEST REPORT NO: ECO LAB/Stack9/03/19
TEST REPORT ISSUE DATE:25.03.2019**TEST REPORT OF STACK EMISSIONS***

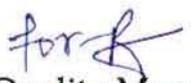
Name of the Company : M/s Prism Johnson Ltd.
Address of the Company : Village Mankahari
Tehsil Rampur Baghelan
District Satna (M.P.)
Date of Monitoring : 12.03.2019
Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
Source of Emission : Cement Mill Emission
Sampling Method : IS: 11255
Instrument 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) : 38.0
Flue Gas Temperature (°C) : 83.0
Exit Velocity of Gas (m/sec.) : 7.84
Flow Rate (Nm³/ sec.) : 5.0
APCD if any : Bag House

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	19.20

*The results are related only to item tested.


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FORMAT NO. ECO/QS/FORMAT/12 TEST REPORT NO: ECO LAB/Stack10/03/19
TEST REPORT ISSUE DATE:25.03.2019**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 : 12.03.2019
 Sample Collected by : Mr.Ramjeet Yadav & Mr.Maan Singh
 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) : 39.0
 Flue Gas Temperature (°C) : 85.0
 Exit Velocity of Gas (m/sec.) : 7.49
 Flow Rate (Nm³/ sec.) : 4.75
 APCD if any : Bag House

Sl. No.	Tests Conducted	Method	Pollutant Concentration
1.	Particulate Matter (PM) (mg/Nm ³)	IS:11255 (Part-1)	23.25

*The results are related only to item tested.

Atkash Kumar
Analyst

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW1/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maansingh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Bankhmaria Village – Hand Pump

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.32	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	348.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	144.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	160.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	38.4	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	15.55	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	26.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.29	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	36.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	9.98	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	0.10	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, B+C	Absent	1.8	0.05	Absent
31.	E.coli (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+E	Absent	1.8	Absent	Absent

*The result are related only to item tested.

BDL - Below Detection Limit

Analyst

Authorized signatory Ltd.

Quality Manager

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW2/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : Plant Site - Bore Well

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.21	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	510.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	116.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	228.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	56.0	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	21.38	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	46.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.27	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	136.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	11.28	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	0.18	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	0.21	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	0.18	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	Absent	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	Absent	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory

Quality Manager

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW3/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

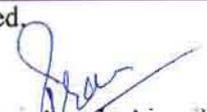
Source of Sample : Bagahai Village – Hand Pump

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	1.86	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.10	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	548.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	156.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	168.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	48.0	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	11.66	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	32.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.29	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	106.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	9.98	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	0.12	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	0.21	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst



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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW4/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : Rajaha Village – Hand Pump

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.28	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	356.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	140.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	156.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	36.8	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	14.58	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	24.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.23	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	105.75	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	9.0	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	BDL	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	0.20	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	0.23	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW5/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : MedhiVillage -Hand Pump

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.38	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	348.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	128.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	172.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	44.8	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	14.58	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	38.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.28	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	98.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	9.90	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	BDL	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	0.19	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	0.21	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW6/03/19

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF DRINKING WATER*

Name of the Company : M/s. Prism Johnson Ltd.
Address of the Company : Village Mankahari,
Tehsil Rampur Baghelan
Dist.Satna (M.P.)
Sampling Method : APHA/ IS: 3025
Sample Collected by : Mr.Maan Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Malgaon Village – Hand Pump

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.16	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	580.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	148.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	252.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	38.4	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	37.90	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	36.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.35	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	108.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	29.80	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	0.25	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, B+C	Absent	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	Absent	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Abhishek Kumar
Analyst

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW7/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maan Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Mankahari Village – Hand Pump

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.29	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	656.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	180.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	312.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	83.2	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	25.27	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	70.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.62	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	152.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	17.0	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	0.18	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	0.21	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	Absent	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	Absent	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

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Quality Manager

Annexure 6 (a)

Process	Water Consumption KLD	Waste Water Generation KLD	Treatment Point	Utilization /recycling points
Domestic	303	168	STP	Horticulture
Industrial	.....	.....	.....	.....
Boiler	.....	.....	.....	.....
Cooling Tower	1271	.....	.....	.....
Horticulture	168			

Water balance for Hinauti & Sijahata (772 .067ha)

Process	Water Consumption KLD	Waste Water generation KLD
Dust suppression	22	NIL
Mining	06	NIL
Drinking	02	NIL
Plantation and green belt	10	NIL
Total	40	NIL

Water balance for Baghai (512.317 ha)

Process	Water Consumption KLD	Waste Water generation KLD
Dust suppression	35	NIL
Mining	09	NIL
Drinking	02	NIL
Plantation and green belt	16	NIL
Total	62	NIL

Water balance for Mendhi (117.594 ha)

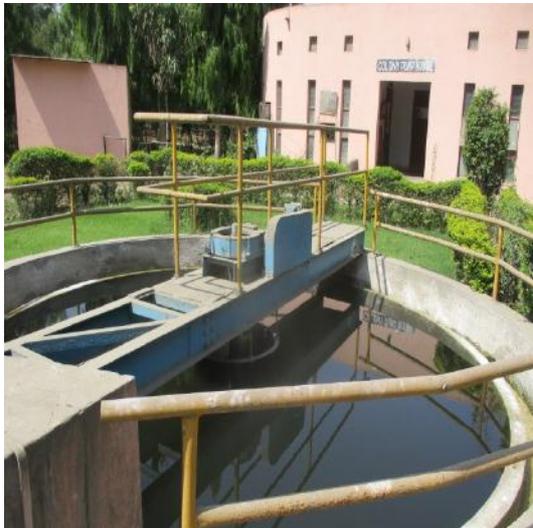
Process	Water Consumption KLD	Waste Water generation KLD
Dust suppression	01	NIL
Mining	00	NIL
Drinking	0.5	NIL
Plantation and green belt	1.5	NIL
Total	2.5	NIL

Water balance for Hinauti Sijhata (99.416 ha)

Process	Water Consumption KLD	Waste Water generation KLD
Dust suppression	02	NIL
Mining	01	NIL
Drinking	0.5	NIL
Plantation and green belt	01	NIL
Total	4.5	NIL

Sewage Treatment Plant has been provided to treat the domestic waste water. Treated effluent from sewage treatment plant is utilized for horticulture purpose inside plant premises. Sludge from drying beds is utilized as manure for horticulture purpose.

**Sewage Treatment Plant
Capacity : 600 KLD**



Green Belt development



Process	Water Consumption KLD	Waste Water Generation KLD	Treatment Point	Utilization /recycling points
Domestic	367	175	STP	Horticulture
Industrial	.....	.....	.....	.....
Boiler	.....	.....	.....	.....
Cooling Tower	1110	.....	.....	.....
Horticulture	175			

Water balance for Hinauti & Sijahata (772 .067ha)

Process	Water Consumption KLD	Waste Water generation KLD
Dust suppression	18	NIL
Mining	08	NIL
Drinking	10	NIL
Plantation and green belt	14	NIL
Total	50	NIL

Water balance for Baghai (512.317 ha)

Process	Water Consumption KLD	Waste Water generation KLD
Dust suppression	35	NIL
Mining	20	NIL
Drinking	05	NIL
Plantation and green belt	30	NIL
Total	90	NIL

Water balance for Mendhi (117.594 ha)

Process	Water Consumption KLD	Waste Water generation KLD
Dust suppression	04	NIL
Mining	00	NIL
Drinking	0.5	NIL
Plantation and green belt	2.0	NIL
Total	6.5	NIL

Water balance for Hinauti Sijhata (99.416 ha)

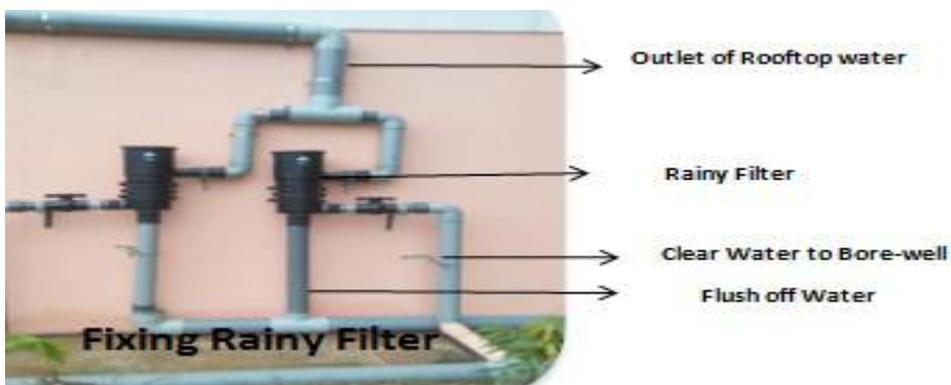
Process	Water Consumption KLD	Waste Water generation KLD
Dust suppression	06	NIL
Mining	01	NIL
Drinking	0.5	NIL
Plantation and green belt	04	NIL
Total	11.5	NIL

Sewage Treatment Plant has been provided to treat the domestic waste water. Treated effluent from sewage treatment plant is utilized for horticulture purpose inside plant premises. Sludge from drying beds is utilized as manure for horticulture purpose.

1. Rain water harvesting pond in Mines with capacity of.....:-



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 Ponds and construction of water harvesting structure in nearby villages:



6. Construction of water reservoir at Baghai village for water conservation:



Rainwater harvesting measures Action Plan for the augmentation of ground water at cement plant, colony and mine site of Prism Cement Limited.

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 none 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 Tamsa 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

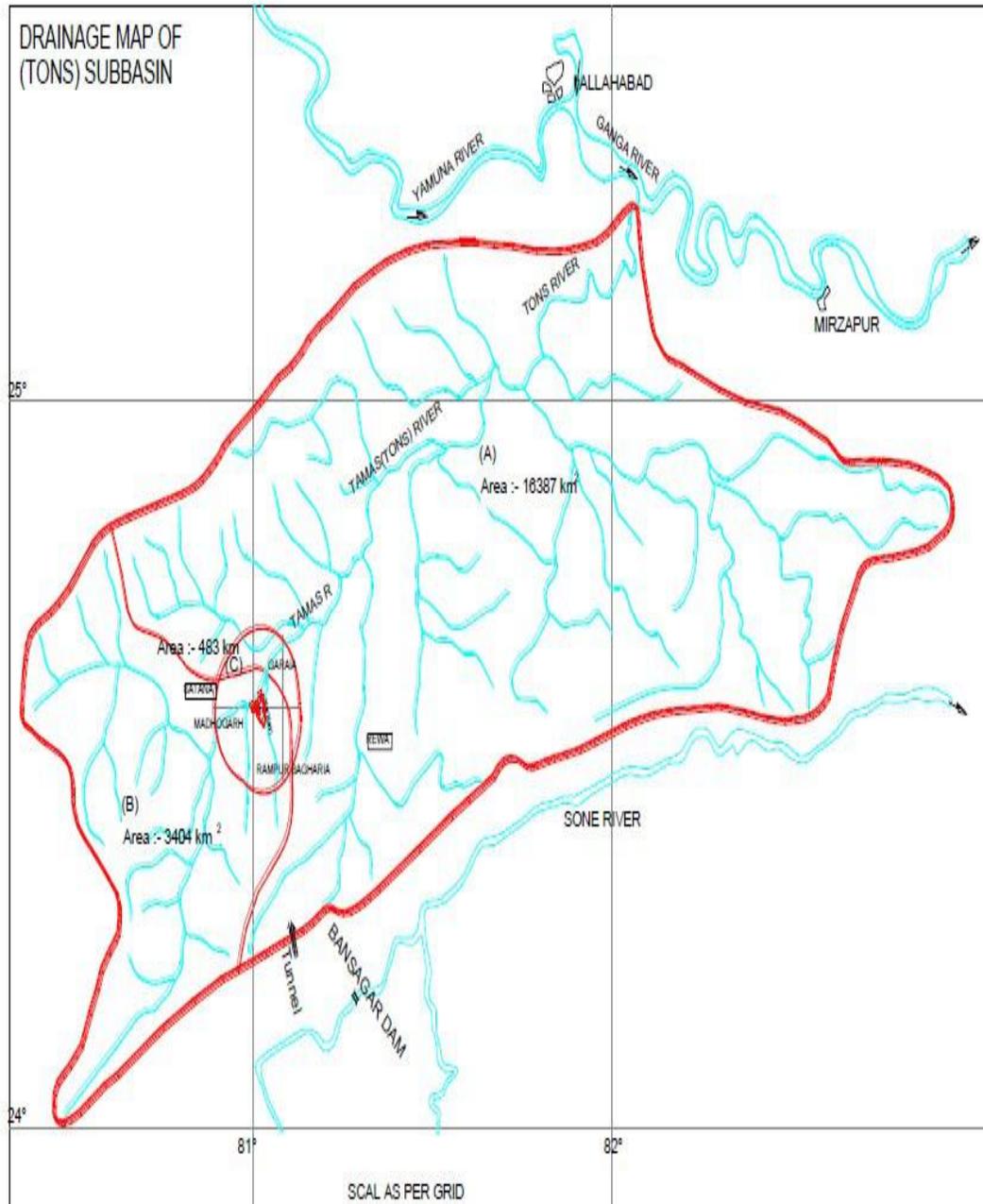
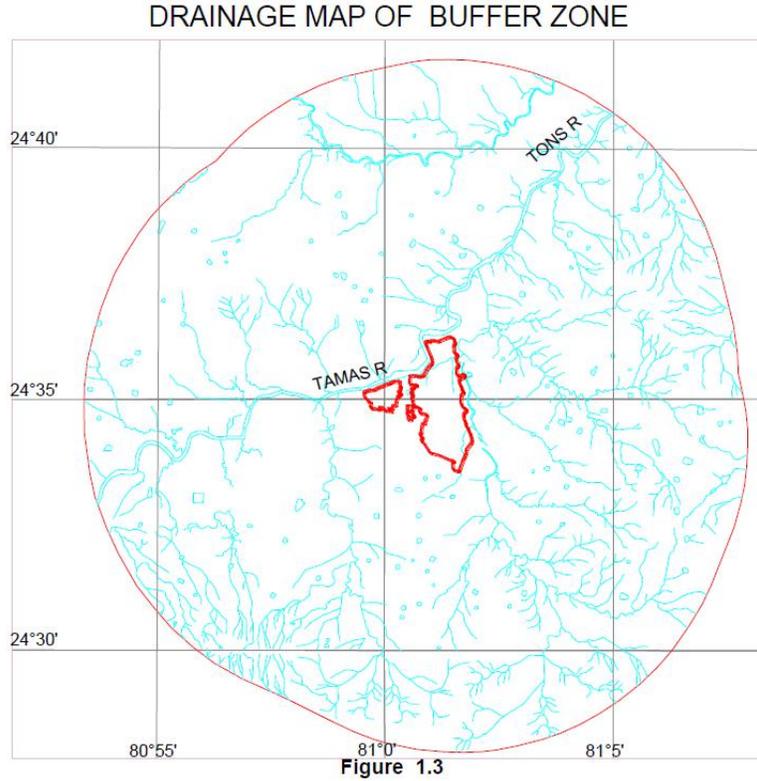


FIGURE 3



4. HYDROMETEROLOGY:

Madhya Pradesh state is situated within 18° N to 25° N and 74° E to 82° 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.

4.1 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 50. The litho stratigraphy of Vindhyan formation is given in **Table No.3**

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 HYDROLOGY

Hydrology of the area deals with evaporation, infiltration and surface runoff. In the present study infiltration and surface runoff as peak flow will be dealt herein

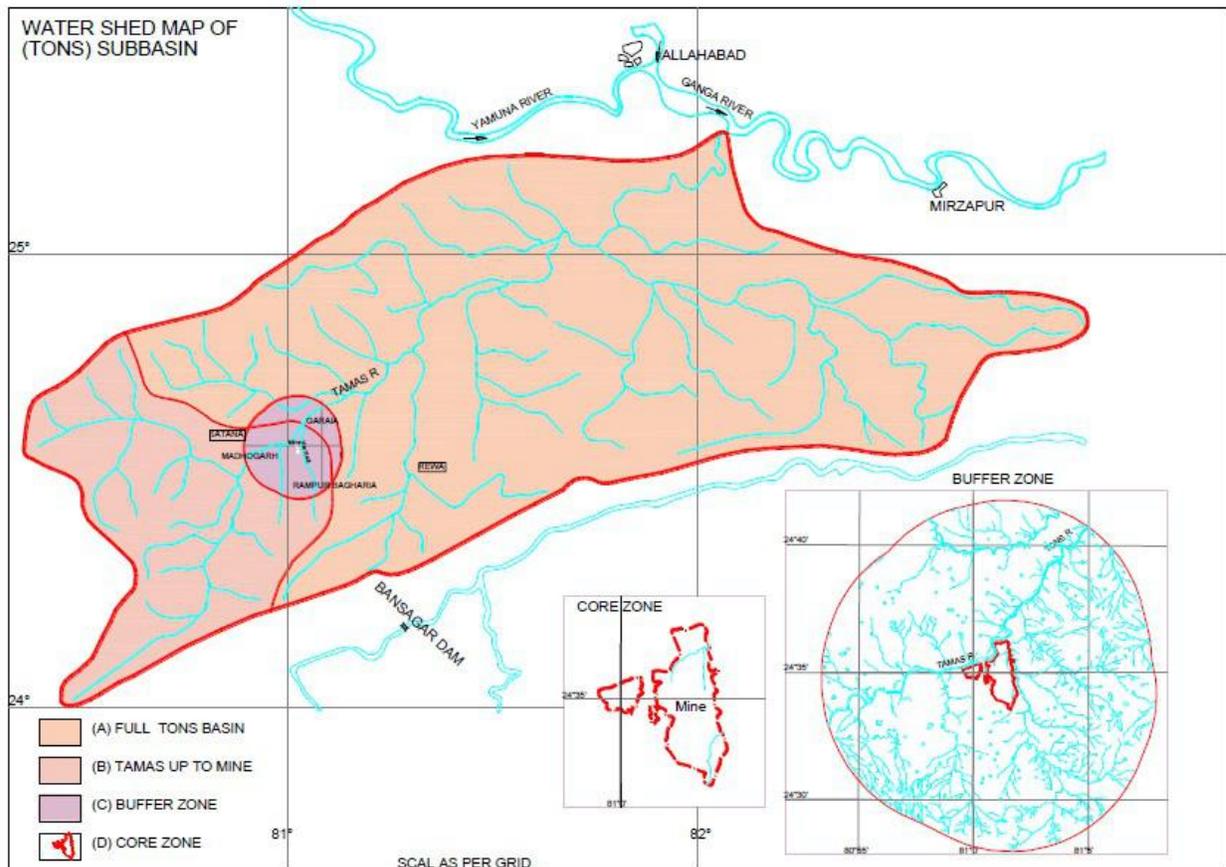
6.1 Infiltration: Infiltration is the flow of water into the ground through the soil surface. Since infiltrated water may contribute to the ground water discharge in addition to soil moisture, the process can be schematically modeled. Where two situation, viz. low intensity rainfall and high intensity rainfall are considered. It is recorded that in case of low intensity rainfall, there will be no contribution to groundwater flow. Whereas in the case of high intensity rainfall, there will be contribution to groundwater flow.

6.2 Surface Runoff :

Surface water is the component of rainfall, which is generated on-land surface and drain into Nala and pond as surface runoff.

6.2.1 Watershed:

The Watershed of the different magnitude have been drawn for the assessment of water resource of respective area. The Watershed have been depicted in Figure below:



6.3 Discussion:

There is no nala within mine lease area hence the diversion of local nala does not arise. Accordingly there will not be negative hydrological impact for the surface runoff in respect of competing users as long as mining operation continues. Mine pit will conserve the entire water resource for optimum utilization. The remaining water in the pit will work as recharge pit for ground water recharge. The ground water level of nearby area will rise. The competing users will

be benefited from this. Thus, the hydrological impact of Mining and construction of mine pit reservoir will be a positive step in respect of conservation of natural resource and their proper utilizations during the non-monsoon period.

7.0 HYDROGEOLOGY

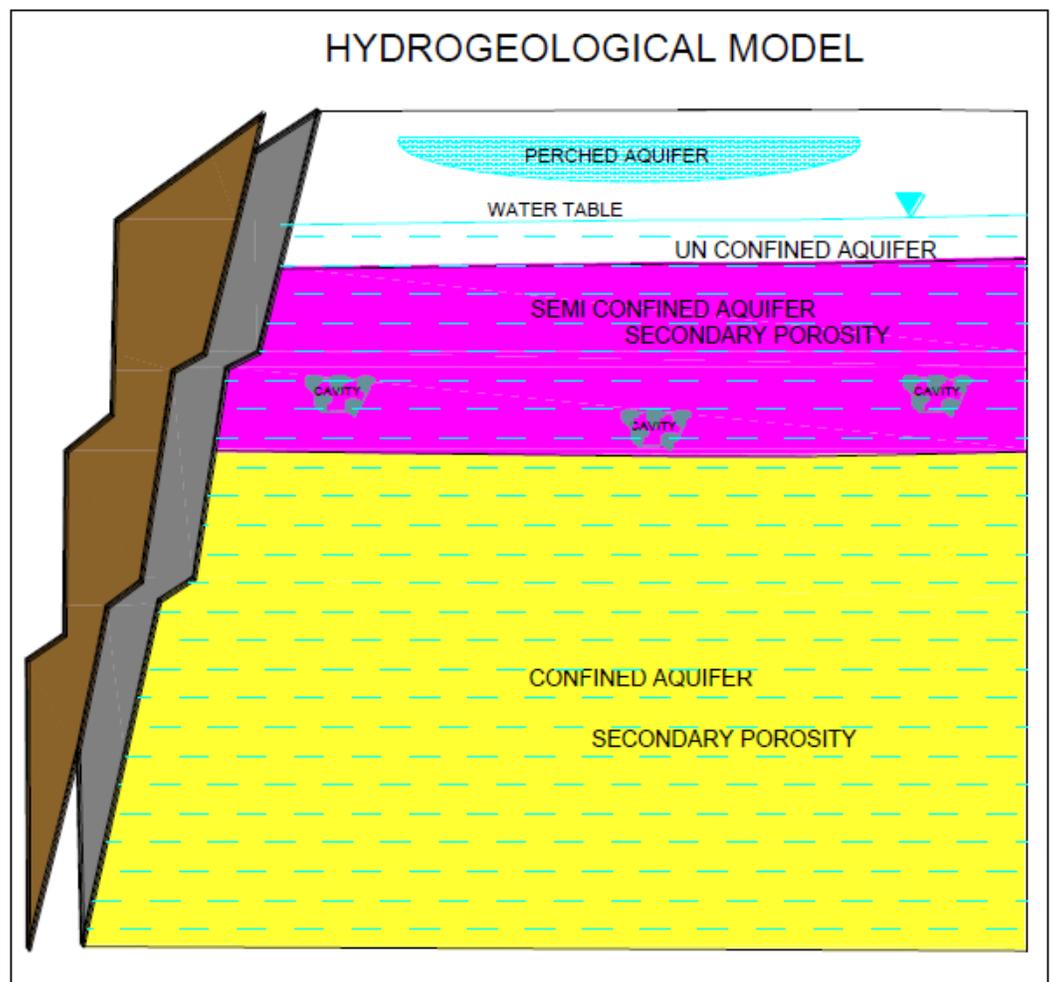
7.1 Hydrogeological Model:

A hydrogeological conceptual model have been assigned for mainly Vindhyan Limestone and shale surround the mining lease area (core zone) and, 10 km radius buffer zone. The aquifers can be categories in three segment. The conceptual model is depicted in **Figure below**:

7.1.1 Unconfined Aquifer :

An upper non-indurated unconfined aquifer extend down to maximum depth of 25 m. is recharged annually by monsoon rains and supports the majority of shallow wells serving local populations. At places formation of perched aquifer is noticed with in depth range of 15m. If the underlying strata of small extent but impervious, it will force water

contained in overlying porous material to the surface. In many places such water lies for above the ordinary water table and constitutes what is called perched water table of perched aquifer. This aquifer dried before summer every year. Perched water table mislead the general confirmation of deeper water table in the area.



7.1.2 Semi Confined Aquifer:

An upper weathered bed rock aquifer that irregularly extends beyond 25 m where jointing and minor fracture in limestone and Shale have been exploited within the depth range of 50 m. This support a more consistent supply through the year. The yield of tube wells may range between 1 and 3 liter per seconds. This aquifer may be termed as semi confined aquifer. The occurrence of cavity aquifer in kast topography is not un-common.

7.1.3 Confined Aquifer:

A typical fracture rock aquifer extend down to depth of 100m where secondary porosity in form of fault, bedding and lesser fractures control groundwater occurrence and yield 1 to 5 liter per second subject to encounter of cavity aquifer in limestone formation. In general the confined aquifer occurring in this zone where hydraulic conductivity can be variable. In general the maximum yield may be between 1 and 2 liters per second.

7.1.4 Water Level:

In order to understand regional and local Hydrogeological regime, the well inventory and setting of observation wells have been done at the locations marked in Key Plan (**Fig-6.4**). The water level data for 10 km buffer zone, are given in **Table 6.3** respectively. The depth to water level in the area in pre monsoon varies between 8.00 m bgl and 25.00 m bgl average being 12.00 m bgl. The depth to water level in post monsoon period varies between 5.00 m bgl and 20.00 m bgl average being 8.00 m bgl. Annual water level fluctuation pre & post monsoon varies between 3.00 and 5.90 m. The average being 4.5 m.

8.0 RAINWATER HARVESTING

8.1 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.

8.2 Source of Water:

The source or 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.

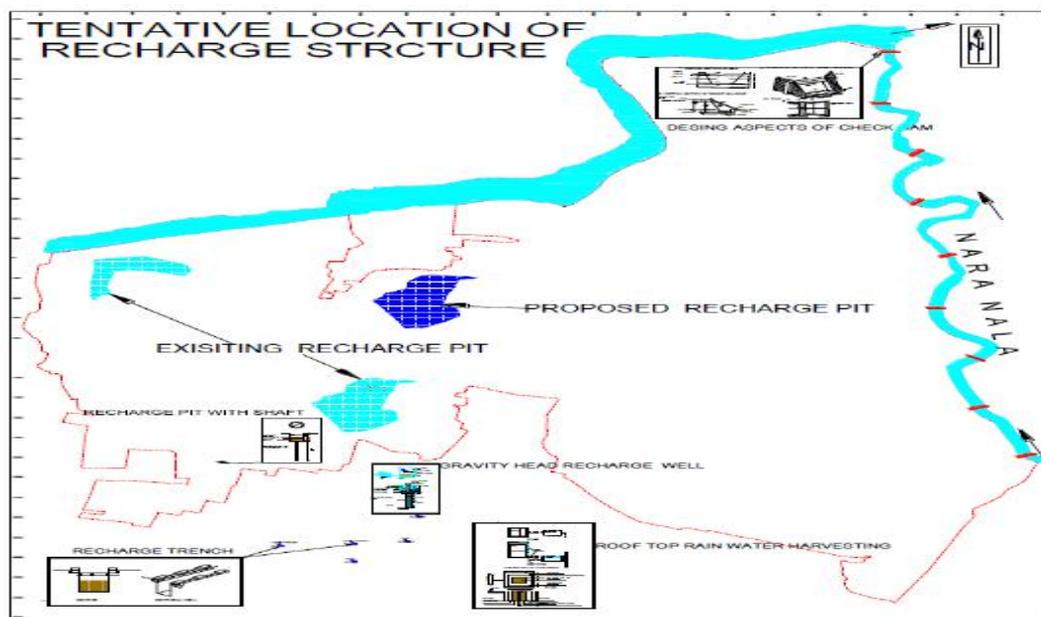
8.2.1 Identification of area:

The areas identified within lease area are given in Table below:

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	10 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

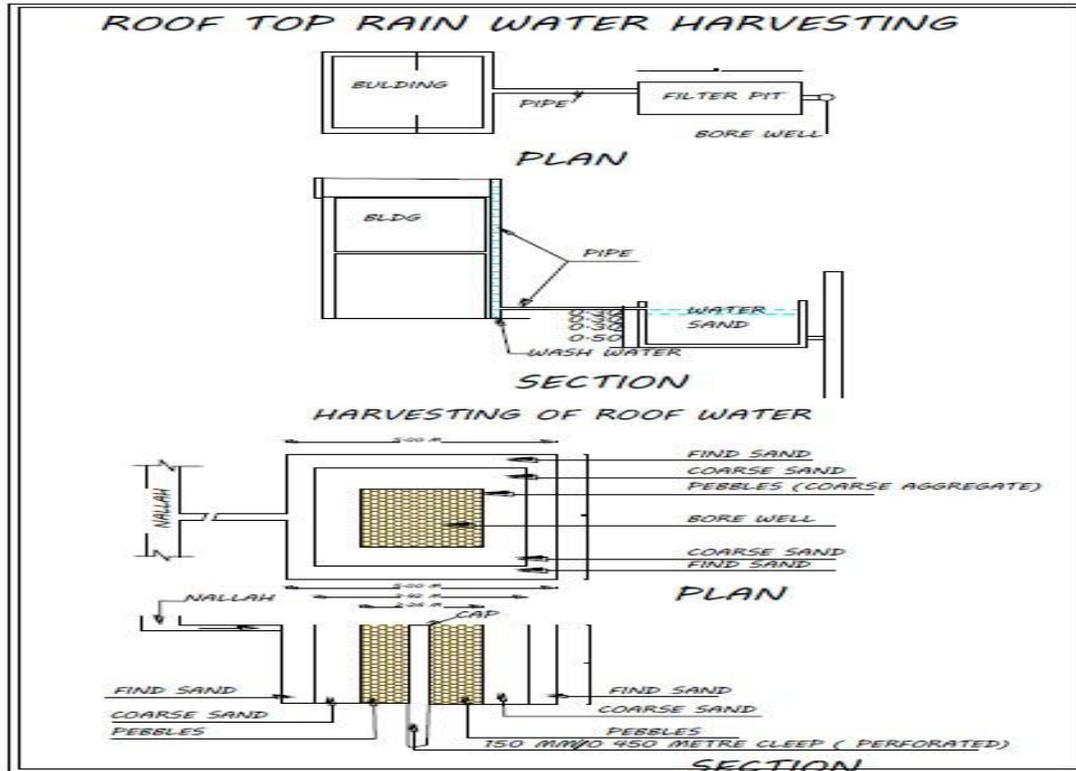
8.2.2 Surface water reservoir:

There will be three surface water reservoir as suggested in mine plan. Two mine out Pit reservoir is already working and hold rainwater to the tune of 1.62 MCM to meet the water requirement of plant and will also recharge the ground water in the area.



8.3.3 Rooftop rainwater harvesting:

Domestic Rain Water Harvesting or roof top Rain Water Harvesting is the technique through which Rain Water is captured from roof catchments and stored in tanks/reservoirs/Ground Water aquifers . It consist of conservation of roof top Rain Water to augment Ground water storage by artificial recharge. It requires connecting the outlet pipe from roof top to divert collected water to existing well/tube well/bore well of a specially designed well.



9.0 CONCLUSION AND RECOMMENDATION:

All details are taken from Report on hydrological studies for the lease area of 772.067 ha. The measures as above will help augmentation of ground water recharge in the area. The plan can be suitably amended to accommodate government run schemes and new techniques available from time to time.

भारतसरकार
खानमंत्रालय
भारतीय खानब्यूरो
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:- म0प्र0 राज्य के सतना जिले में स्थित आपकी मेंढी (Mendhi) लाइमस्टोन खान (क्षेत्र 117.594हे0) 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 दि0- 30/05/2016, आपका पत्र क्रमांक कुछ नहीं दि0 23/05/2016 एवं 19/09/2016।
2) इस कार्यालय का समसंख्यक पत्र दि0-12/09/2016।

महोदय,

खनिज संरक्षण एवं विकास नियमावली, 1988 के नियम 12 के उपनियम (4) के द्वारा प्रदत्त शक्तियों के अधीन एतद् द्वारा म0प्र0 राज्य के सतना जिले में स्थित आपकी मेंढी (Mendhi) लाइमस्टोन खान (क्षेत्र 117.594हे0) 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

4/11/2016

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

रजिस्टर्ड / साधारण / हाथोंहाथ

भारत सरकार
खानमंत्रालय
भारतीय खानब्यूरो
क्षेत्रीय खाननियंत्रक कार्यालय



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

सं. MP/Satna/Limestone /M.Sch.-86/14-15 /2443

जबलपुर, दिनांक : 06/04/2015

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

विषय:- मध्य प्रदेश राज्य के सतना जिले में स्थित आपकी हिनाूती एवं सिजेहटा (Hinauti&Sijhatta) लाइमस्टोन खान (क्षेत्र 772.067 हे०)के एमसीडीआर-1988 के नियम 12 के अंतर्गत जमा किए गए माइनिंग स्कीम का अनुमोदन।

- संदर्भ :- 1) आपके/आरक्षूपीके द्वारा जमा किया गया प्रक्रिया शुल्क के रसीद संख्या 42112 दि० 01/12/2014,आपके/आरक्षूपी के पत्र क्रमांक MINE/2015-15062 दि० 18/02/2015 एवं MINE/2015-15091 दि० 10/03/2015।
2) इस कार्यालय का समसंख्यक पत्र दि 29/01/2015

महोदय,

खनिज संरक्षण एवं विकास नियमावली, 1988 के नियम 12 के उपनियम (4) के द्वारा प्रदत्त शक्तियों के अधीन एतद् द्वारा मध्य प्रदेश राज्य के सतना जिले में स्थित आपकी हिनाूती एवं सिजेहटा (Hinauti&Sijhatta) लाइमस्टोन खान (क्षेत्र 772.067 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 44,25,000 (Rs. Forty Four Lac Twenty Five Thousand only) valid upto 31/03/2020 and next Financial Assurance shall be submitted on or before 31/03/2020
- 7 This approval is restricted in respect of proposals given in the document for the period from 2015-16 to 2019-20 validity upto 31/03/2020 from the date of approval, subject to all other statutory clearances
- 8 The next scheme of mining will be due for submission on 01/12/2019.
- 9 The Environmental Monitoring Cell shall be established by the company. This Environmental Monitoring Cell of the company, shall continue monitoring ambient air quality, dust-fall rate, water quality, soil sample analysis and noise level measurements at various stations established for the purpose both in the core zone and buffer zone as per requirement of Environment Guidelines and keeping in view IBM's circular No. 3/92 & 2/93 season-wise every year or by engaging the services of an Environmental Laboratory approved by MOEF/CPCB. The data so generated shall be maintained in a bound paged register kept for the purpose and the same shall be made available to the inspecting officer, on demand
- 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 माइनिंग स्कीम की एक प्रति के साथ।

भवदीय

(एस० आर० रॉय)
क्षेत्रीय खाननियंत्रक
भारतीय खानब्यूरो

प्रतिलिपि :-

1. मान्यता प्राप्त व्यक्ति श्री रवि शंकर शुक्ला, आर०क्यू०पी० एवं उप प्रबंधक जियोलाजी में० प्रिज्म सीमेंट लि० राजदीप रीवा रोड सतना, जिला सतना (म०प्र०) 485001 को सूचनार्थ प्रेषित ।
2. मान्यता प्राप्त व्यक्ति श्री पियूष गुप्ता, आर०क्यू०पी० एवं उप प्रबंधक खान में० प्रिज्म सीमेंट लि० राजदीप रीवा रोड सतना, जिला सतना (म०प्र०) 485001 को सूचनार्थ प्रेषित ।
3. संचालक, संचालनालय भौमिकी तथा खनिकर्म, 'खनिजभवन' 29-ए, अरेरा हिल्स, भोपाल (म०प्र०) को अनुमोदित माइनिंग स्कीम की एक प्रति के साथ रजिस्टर्ड डाक द्वारा प्रेषित ।

4
(एस० आर० रॉय)
क्षेत्रीय खाननियंत्रक
भारतीय खानब्यूरो

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



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

फा0 सं0 - MP/Satna/ Limestone /MPLN /MOD-30/2018-19

जबलपुर, दिनांक : 14/12/2018

प्रति,

मे0 प्रिज्म जॉनसन लिमिटेड,
राजदीप, रीवा रोड, सतना
जिला- सतना (म0प्र0) 485001

विषय:- म0प्र0 राज्य के सतना जिले में स्थित आपकी बगहाई (BAGAHAI) लाइमस्टोन खान (क्षेत्र 512.317 हे0) के एमसीआर-2016 के नियम 17(3) के अंतर्गत जमा किए गए अनुमोदित माइनिंग प्लान के लिए प्रस्तुत संशोधन का अनुमोदन।

संदर्भ :-1) आपका/क्यू0पी0 का पत्र क्रमांक- PJI/MINE/BG/2018/538, दि0 14/10/2018, प्रक्रिया शुल्क की रसीद संख्या J/838, दि0 30/10/2018।
2) इस कार्यालय का समसंख्यक पत्र दि0- 20/11/2018।

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 Modification in approved Mining Plan including Progressive Mine Closure Plan submitted under Rule 17(3) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016. This approval is subject to the following conditions:

- 1 The Modification in approved 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 Modified 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. 3,98,88,000/- (Rs. Three Crore Ninety Eight Lakh Eighty Eight Thousand only) is 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 2018-19 to 2020-21 with validity up to 31/03/2021, 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 modification in approved mining plan is approved subject to extension of period of mining lease as per Mines and Minerals (Development and Regulation) Amendment Act 2015.
- 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 संशोधित माइनिंग प्लान की एक प्रति के साथ।

भवदीय

14th Dec, 2018

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

भारत सरकार
खान मंत्रालय
भारतीय खान ब्यूरो
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

File No. - MP/Satna/Limestone /RMP-44/17-18

Jabalpur, dt.: 27/04/2017

To
✓ M/s Prism Cement Limited,
Rajdeep, Rewa Road, Satna (M.P.) 485001

विषय:- म0प्र0 राज्य के सतना जिले में स्थित आपकी प्रिज्म सीमेंट लाइमस्टोन खान (क्षेत्र 99.416 हे0) के एमसीआर- 2016 के नियम 17 (1) के अंतर्गत जमा किए गए खनन योजना के पुनर्विलोकन का अनुमोदन।

संदर्भ :-1) आपके द्वारा जमा किये गये प्रक्रिया शुल्क की रसीद संख्या J/427, दि0 22/03/2017, आपका/क्यू पी0 का पत्र क्रमांक - कुछ नहीं, दि0 20/03/2017 एवं 19/04/2017।
2) इस कार्यालय का समसंख्यक पत्र दि0- 13/04/2017।

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) Act, 1957 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. 54,37,800/- (Rs. Fifty Four Lakh Thirty Seven Thousand Eight Hundred only) is valid up to 31/03/2022 (Your kind attention for enhancement of financial assurance as per rule 27 of MCDR, 2017) and next Financial Assurance shall be submitted on or before 31/03/2022.
- 7 This approval is restricted in respect of proposals given in the document for the period from 2017-18 to 2021-22 with validity up to 31/03/2022, 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 In the approved document, wherever Rule 12(3) of MCDR, 1988 is mentioned, it should be read as Rule 17(1) of Minerals (Other than Atomic and Hydrocarbon Energy Minerals) Concession Rules, 2016.
- 10 The next Review of Mining Plan will be due for submission on 01/10/2021.
- 11 This approval is restricted to Major Mineral only and any reflection of minor mineral in the document is under purview of State Government.
- 12 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.
13. As per Undertaking dated 14/04/2017 appended with Review of Mining Plan, wherein it is stated that the boundary pillars of the remaining blocks will be erected during next six month, in this regard a Surface Plan showing all boundary pillars as well as their co-ordinates may be submitted to this office within 6(six) month of period from the date of issue of this letter.

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

भवदीय,

27th April, 2017

(रजनीश पुरोहित)

क्षेत्रीय खान नियंत्रक

भारतीय खान ब्यूरो, जबलपुर

ECOMEN LABORATORIES PVT. LTD.


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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW8/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

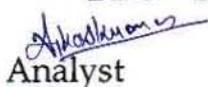
Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : Badarkha Village – Bore Well

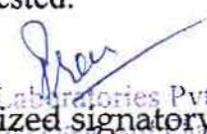
Sl. No.	TESTS	PROTOCOL	RESULT	Detection Range	INDIAN STANDARDS as per IS 10500:1991(Reaff:2012)	
					Desirable	Permissible
1.	Colour (Hazen unit)	APHA, 23 rd Ed. 2017, 2120 B	<5.0	5-100	5.00	15.0
2.	Odour	APHA, 23 rd Ed. 2017, 2150 B	Agreeable	Qualitative	Agreeable	Agreeable
3.	Taste	APHA, 23 rd Ed. 2017, A+B	Agreeable	Qualitative	Agreeable	Agreeable
4.	Turbidity as (NTU)	APHA, 23 rd Ed. 2017, 2130-A+B	1.90	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.40	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	556.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	154.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	236.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	57.6	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	22.35	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	24.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.25	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	108.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	10.80	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	0.15	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	0.21	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	0.26	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit



Analyst



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Authorized signatory
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E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1ZI

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW9/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : PCL Colony Supply Water – Bore Well

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.25	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	642.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	164.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	328.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	87.2	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	26.73	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	64.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.33	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	135.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	13.80	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	0.23	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	0.18	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory
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LABORATORIES PVT. LTD.

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW10/03/19

TEST REPORT ISSUE DATE:25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : Mines Site Office Hinauti Sijatah

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.26	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	462.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	120.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	224.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	62.4	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	16.52	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	32.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.38	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	42.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	14.98	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	BDL	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	0.18	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, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory
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LABORATORIES PVT. LTD.

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW11/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Sijhata Village – Bore Well

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.24	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	368.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	136.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	248.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	64.0	5 – 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	19.44	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	68.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.40	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	120.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	19.5	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	0.22	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	0.19	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	0.17	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW12/03/19

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF DRINKING WATER*

Name of the Company : M/s. Prism Johnson I.td.

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

Sampling Method : APHA/ IS: 3025

Sample Collected by : Mr.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : Chulhi Village – Bore Well

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.21	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	340.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	148.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	260.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	70.4	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	20.41	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	64.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.38	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	112.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	19.6	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	0.18	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	0.23	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	0.16	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW13/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : Hinauta Village – Bore Well

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.32	2.0-12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	328.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	140.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	256.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	62.4	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	24.3	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	58.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.33	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	98.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	17.90	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	0.17	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	0.24	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	0.23	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory

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LABORATORIES PVT. LTD.

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO: ECO LAB/GW1/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Bore well at Project Office

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	<1.0	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.39	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	380.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	152.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	244.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	59.2	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	23.32	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	36.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.34	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	65.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	17.0	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	0.12	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	0.20	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 - 1B	BDL	0.1-10	-	-
29.	Iron as Fe (mg/l)	APHA, 23 rd Ed. 2017, 3500 Fe B	0.21	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/GW2/09/18

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF DRINKING WATER*

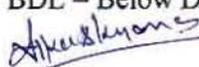
Name of the Company: M/s. Prism Johnson Ltd.

Address of the Company : Village Mankabari,
Tehsil Rampur Baghelan
Distt.Satna (M.P.)Sampling Method : APHA/ IS: 3025
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Plant Pump House

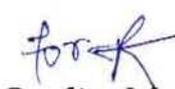
Sl. No.	TESTS	PROTOCOL	RESULT	Detection Range	INDIAN STANDARDS as per IS 10500:1991(Reaff:2012)	
					Desirable	Permissible
1.	Colour (Hazen unit)	APHA, 23 rd Ed. 2017, 2120 B	<5.0	5-100	5.00	15.0
2.	Odour	APHA, 23 rd Ed. 2017, 2150 B	Agreeable	Qualitative	Agreeable	Agreeable
3.	Taste	APHA, 23 rd Ed. 2017, A+B	Agreeable	Qualitative	Agreeable	Agreeable
4.	Turbidity as (NTU)	APHA, 23 rd Ed. 2017, 2130-A+B	<1.0	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.28	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	356.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	132.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	240.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	64.0	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	19.44	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	42.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.28	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	36.50	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	13.50	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	0.23	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	0.21	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	0.17	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit


Analyst


Ecomen Laboratories Pvt. Ltd.
Authorized signatory
Sector-H, Aliganj, Lucknow-226024
Ph.-2746282, Fax:2745726


Quality Manager

ECOMEN LABORATORIES PVT. LTD.

Flat No. 8, 2nd Floor, Arif Chamber-V, Sector H, Aliganj, Lucknow - 226 024

Phone No. : (91-522) 2746282, 2745726 Telefax No.: (91 - 522) 2745726

E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1

ecoMen
LABORATORIES PVT. LTD.

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/GW3/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 4.03.2019 to 22.03.2019
Source of Sample : Packing Plant Unit-I

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	<1.0	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.26	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	320.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	128.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	232.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	54.4	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	23.32	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	40.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.37	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	38.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	14.6	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	0.22	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	0.21	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	0.24	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory
Ecomen Laboratories Pvt. Ltd.
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Quality Manager

FORMAT NO. ECO/QS/FORMAT/09 TEST REPORT NO:ECO LAB/SW1/03/19

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF SURFACE WATER*

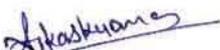
Name of the Company : M/s. Prism Johnson Ltd.
 Address of the Company : Village Mankahari,
 Tehsil Rampur Baghelan
 Distt.Satna(M.P.)
 Sampling Method : APHA/ IS: 3025
 Sample Collected by : Mr.Maam Singh
 Sample Quantity : As per requirement.
 Sample Collected by : Mr.Maam Singh
 Sample Quantity : As per requirement.
 Date of Sampling : 12.03.2019
 Date of Receiving : 14.03.2019
 Date of Analysis : 14.03.2019 to 22.03.2019
 Source of Sample : Himauti Sijahuta Mine Reservoir

S. No.	Parameter	Result	Detection Range	IS:2296 Class 'C' Limit
1	pH	7.32	2-12	6.5 to 8.5
2	Colour (Hazen Units)	<5.0	5.0-100	300
3	Dissolved Oxygen as DO (mg/l)	5.9	1-10	4.0
4	Biochemical Oxygen Demand as BOD (mg/l)	BDL	5-10000	3.0
5	Total Dissolved Solids as TDS (mg/l)	368.0	5-10000	1500
6	Total Hardness as CaCO ₃ (mg/l)	220.0	5-1500	-
7	Chemical Oxygen Demand as COD (mg/l)	6.5	5-50000	-
8	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	BDL	0.05-10	0.005
9	Total Suspended Solids as TSS (mg/l)	22.0	5-5000	-
10	Oil and Grease (mg/l)	BDL	5.0-600	0.1
11	Sulphate as SO ₄ (mg/l)	75.25	1.0-250	400
12	Nitrate as NO ₃ (mg/l)	16.0	5-100	50

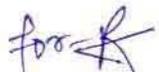
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13	Fluoride as F (mg/l)	0.53	0.05-10	1.5
14	Chloride as Cl (mg/l)	30.0	5.0-1000	600
15	Copper as Cu (mg/l)	BDL	0.05-5.0	1.5
16	Iron as Fe (mg/l)	0.15	0.02-50	50
17	Arsenic as As (mg/l)	BDL	0.01-2.0	0.2
18	Lead as Pb (mg/l)	BDL	0.01-2.0	0.1
19	Cadmium as Cd (mg/l)	BDL	0.002-2.0	0.01
20	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05-20	0.05
21	Zinc as Zn (mg/l)	0.20	0.02-50	15
22	Boron as B (mg/l)	BDL	0.2-10	-
23	Total Coliform (MPN/100ml)	85.0	1.8	5000.0

*The result are related only to item tested.
BDL = Below Detection Limit


Analyst


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Quality Manager

FORMAT NO. ECO/QS/FORMAT/09 TEST REPORT NO:ECO LAB/SW2/03/19

TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF SURFACE 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.Maam Singh
Sample Quantity : As per requirement.
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Bagahai Mines Pit

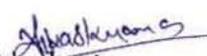
S. No.	Parameter	Result	Detection Range	IS:2296 Class 'C' Limit
1	pH	7.37	2-12	6.5 to 8.5
2	Colour (Hazen Units)	<5.0	5.0-100	300
3	Dissolved Oxygen as DO (mg/l)	6.0	1-10	4.0
4	Biochemical Oxygen Demand as BOD (mg/l)	BDL	5-10000	3.0
5	Total Dissolved Solids as TDS (mg/l)	756.0	5-10000	1500
6	Total Hardness as CaCO ₃ (mg/l)	324.0	5-1500	300
7	Chemical Oxygen Demand as COD (mg/l)	6.0	5-50000	-
8	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	BDL	0.05-10	0.002
9	Total Suspended Solids as TSS (mg/l)	28.0	5-5000	-
10	Oil and Grease (mg/l)	BDL	5.0-600	0.1
11	Sulphate as SO ₄ (mg/l)	84.0	1.0-250	400

Cont.

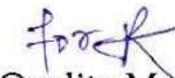
12	Nitrate as NO ₃ (mg/l)	12.5	5-100	50
13	Fluoride as F (mg/l)	0.50	0.05-10	1.5
14	Chloride as Cl (mg/l)	36.0	5.0-1000	600
15	Copper as Cu (mg/l)	BDL	0.05-5.0	1.5
16	Iron as Fe (mg/l)	0.16	0.02-50	50
17	Arsenic as As (mg/l)	BDL	0.01-2.0	0.2
18	Lead as Pb (mg/l)	BDL	0.01-2.0	0.1
19	Cadmium as Cd (mg/l)	BDL	0.002-2.0	0.01
20	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05-20	0.05
21	Zinc as Zn (mg/l)	0.21	0.02-50	15
22	Boron as B (mg/l)	BDL	0.2-10	-
23	Total Coliform (MPN/100ml)	78.0	1.8	5000.0

*The result are related only to item tested.

BDL = Below Detection Limit


Analyst


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Quality Manager

ECOMEN LABORATORIES PVT. LTD.

Flat No. 8, 2nd Floor, Arif Chamber-V, Sector H, Aliganj, Lucknow - 226 024

Phone No. : (91-522) 2746282, 2745726 Telefax No.: (91 - 522) 2745726

E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1ZI

ecoMen
LABORATORIES PVT. LTD.

FORMAT NO. ECO/QS/FORMAT/09 TEST REPORT NO:ECO LAB/SW3/03/19
TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF SURFACE WATER*

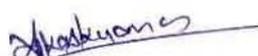
Name of the Company : M/s. Prism Johnson Ltd.
Address of the Company : Village Mankahari,
Tehsil Rampur Baghelan
Distt.Satna(M.P.)
Sampling Method : APHA/ IS: 3025
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Tamas River

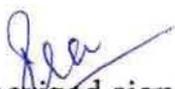
S. No.	Parameter	Result	Detection Range	IS:2296 Class 'C' Limit
1	pH	7.60	2-12	6.5 to 8.5
2	Colour (Hazen Units)	<5.0	5.0-100	300
3	Dissolved Oxygen as DO (mg/l)	5.4	1-10	4.0
4	Biochemical Oxygen Demand as BOD (mg/l)	BDL	5-10000	3.0
5	Total Dissolved Solids as TDS (mg/l)	566.0	5-10000	1500
6	Total Hardness as CaCO ₃ (mg/l)	372.0	5-1500	300
7	Chemical Oxygen Demand as COD (mg/l)	5.2	5-50000	-
8	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	BDL	0.05-10	0.002
9	Total Suspended Solids as TSS (mg/l)	28.0	5-5000	-
10	Oil and Grease (mg/l)	BDL	5.0-600	0.1
11	Sulphate as SO ₄ (mg/l)	80.0	1.0-250	400

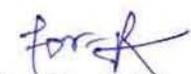
Cont.

12	Nitrate as NO ₃ (mg/l)	21.90	5-100	50
13	Fluoride as F (mg/l)	0.70	0.05-10	1.5
14	Chloride as Cl (mg/l)	40.0	5.0-1000	600
15	Copper as Cu (mg/l)	BDL	0.05-5.0	1.5
16	Iron as Fe (mg/l)	0.21	0.02-50	50
17	Arsenic as As (mg/l)	BDL	0.01-2.0	0.2
18	Lead as Pb (mg/l)	BDL	0.01-2.0	0.1
19	Cadmium as Cd (mg/l)	BDL	0.002-2.0	0.01
20	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05-20	0.05
21	Zinc as Zn (mg/l)	0.19	0.02-50	15
22	Boron as B (mg/l)	BDL	0.2-10	-
23	Total Coliform (MPN/100ml)	64.0	1.8	5000.0

*The result are related only to item tested.
BDL = Below Detection Limit


Analyst


Authorized signatory
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Quality Manager

FORMAT NO. ECO/QS/FORMAT/09 TEST REPORT NO:ECO LAB/SW4/03/19

TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF SURFACE 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.Maam Singh
Sample Quantity : As per requirement.
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Baghai Mines Pit Discharge water

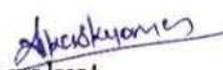
S. No.	Parameter	Result	Detection Range	IS:2296 Class 'C' Limit
1	pH	7.31	2-12	6.5 to 8.5
2	Colour (Hazen Units)	<5.0	5.0-100	300
3	Dissolved Oxygen as DO (mg/l)	4.9	1-10	4.0
4	Biochemical Oxygen Demand as BOD (mg/l)	BDL	5-10000	3.0
5	Total Dissolved Solids as TDS (mg/l)	556.0	5-10000	1500
6	Total Hardness as CaCO ₃ (mg/l)	336.0	5-1500	300
7	Chemical Oxygen Demand as COD (mg/l)	7.5	5-50000	-
8	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	BDL	0.05-10	0.002
9	Total Suspended Solids as TSS (mg/l)	34.0	5-5000	-
10	Oil and Grease (mg/l)	BDL	5.0-600	0.1
11	Sulphate as SO ₄ (mg/l)	78.0	1.0-250	400

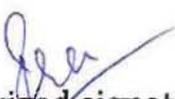
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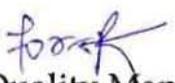
12	Nitrate as NO ₃ (mg/l)	12.0	5-100	50
13	Fluoride as F (mg/l)	0.60	0.05-10	1.5
14	Chloride as Cl (mg/l)	44.0	5.0-1000	600
15	Copper as Cu (mg/l)	BDL	0.05-5.0	1.5
16	Iron as Fe (mg/l)	0.22	0.02-50	50
17	Arsenic as As (mg/l)	BDL	0.01-2.0	0.2
18	Lead as Pb (mg/l)	BDL	0.01-2.0	0.1
19	Cadmium as Cd (mg/l)	BDL	0.002-2.0	0.01
20	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05-20	0.05
21	Zinc as Zn (mg/l)	0.15	0.02-50	15
22	Boron as B (mg/l)	BDL	0.2-10	-
23	Total Coliform (MPN/100ml)	42.0	1.8	5000.0

*The result are related only to item tested.

BDL = Below Detection Limit


Analyst


Authorized signatory
Ecomen Laboratories Pvt. Ltd.
Flat No.-8 2nd Floor, Arif Chamber-V
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Quality Manager

FORMAT NO. ECO/QS/FORMAT/09 TEST REPORT NO:ECO LAB/SW5/03/19
TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF SURFACE 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.Maam Singh
Sample Quantity : As per requirement.
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Western Block Pit

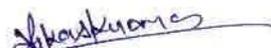
S. No.	Parameter	Result	Detection Range	IS:2296 Class 'C' Limit
1	pH	7.65	2-12	6.5 to 8.5
2	Colour (Hazen Units)	<5.0	5.0-100	300
3	Dissolved Oxygen as DO (mg/l)	5.9	1-10	4.0
4	Biochemical Oxygen Demand as BOD (mg/l)	BDL	5-10000	3.0
5	Total Dissolved Solids as TDS (mg/l)	568.0	5-10000	1500
6	Total Hardness as CaCO ₃ (mg/l)	372.0	5-1500	300
7	Chemical Oxygen Demand as COD (mg/l)	9.5	5-50000	-
8	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	BDL	0.05-10	0.002
9	Total Suspended Solids as TSS (mg/l)	18.0	5-5000	-
10	Oil and Grease (mg/l)	BDL	5.0-600	0.1
11	Sulphate as SO ₄ (mg/l)	62.0	1.0-250	400

Cont.

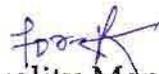
12	Nitrate as NO ₃ (mg/l)	15.0	5-100	50
13	Fluoride as F (mg/l)	0.65	0.05-10	1.5
14	Chloride as Cl (mg/l)	32.0	5.0-1000	600
15	Copper as Cu (mg/l)	BDL	0.05-5.0	1.5
16	Iron as Fe (mg/l)	0.17	0.02-50	50
17	Arsenic as As (mg/l)	BDL	0.01-2.0	0.2
18	Lead as Pb (mg/l)	BDL	0.01-2.0	0.1
19	Cadmium as Cd (mg/l)	BDL	0.002-2.0	0.01
20	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05-20	0.05
21	Zinc as Zn (mg/l)	0.15	0.02-50	15
22	Boron as B (mg/l)	BDL	0.2-10	-
23	Total Coliform (MPN/100ml)	56.0	1.8	5000.0

*The result are related only to item tested.

BDL = Below Detection Limit


Analyst


Authorized signatory
Ecomen Laboratories Pvt. Ltd.
Flat No.-8 2nd Floor, Arif Chamber-V
Sector-H, Aliganj, Lucknow-226024
Ph.-2746282, Fax:2745726


Quality Manager

PCL, Baghal
103728

49743 02/18

X Part

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.

Certified that Shri/Shrimati* employed as..... Dy. Mgr. Minesin..... Baghal
.....mine, Form No. 33 has been examined for an initial/periodical*
medical examination. He/she appears to be..... 44 yrsyears of age. The findings
of the examining authority are given in the attached sheet. It is considered that Shri
/Shrimati..... Santosh K.R. Choudhan

- * (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 fromand 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 PCL, Monikapur
Date 24/12/18

Santosh K.R. Choudhan
Signature of examining authority
मेडिकल सेक्टर
प्रिज्म जॉनसन लिमिटेड
(सीमेंट डीवीजेन)
मनकहरी, सतना (म०प्र०)

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.

18

m/s

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. as a result of medical examination on

Identification mark... Mole mark on left chest


 Left thumb impression of the candidate
 Good/Fair/Poor

1. General development .
2. Height 1.66Cms.
3. Weight 72Kg.
4. Eyes :
 - (i) Visual acuity -Distant vision (with or without glasses)
 Right eye. Norm..... Left eye Norm
 - (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 Norm.....Left ear Norm
 - (ii) any organic disease NO
6. Respiratory system : NO
 Chest measurement
 - (i) after full inspiration 97Cms.
 - (ii) after full expiration 92Cms.
7. Circulatory system :

Blood pressure 136/86 mm

Pulse 92b
8. Abdomen : NO
 Tenderness NO
 Liver Norm
 Spleen NO
 Tumour NO
9. Nervous system

History of fits or epilepsy NO

Paralysis NO

Mental Health NO
10. Locomotor system NO
11. Skin NO
12. Hernia NO
13. Hydrocele NO
14. Any other abnormality
15. Urine : Reaction Albumin 1 ; Sugar
16. Skiagram of chest
17. Any other "c" test considered necessary by the examining authority NO
18. Any opinion of specialist considered necessary.

Place pee

डॉ० डी० डी० मिश्रा
 एम०एस० (आर्थो)
 मेडिकल ऑफिसर
 प्रिंसिपल मेडिकल अधिकारी
 (सीमेंट डीविजन)
 मनकहरी, सतना (म०प्र०)

Signature of examining authority

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

Certificate No

Name:

Santosh Kumar Chauhan

Identification Marks:

mol on @ dml

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)			
Forced Vital Capacity I FEV1			
FEV1/FVC			
Peak Expiratory Flow			

Normal

~~*Refer to Appendix*~~

Spirometry Report enclosed

Normal


डॉ० डी० डी० मिश्रा
 एम०एस० (आर०ओ)
 मेडिकल सेक्टर
 सिविल सप्लाय डिपार्टमेंट
 (सिमेंट डीपॉजिट)
 मनकहरी, सुनार (मोप्रो)
 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

Name:

Sankar Kumar Chakrabarty

Identification Marks:

MD 01 (14) chun

1. Cardiological Assessment

Auscultation	S1	
	S2	
	Additional Sound	
Electrocardiograph (12 leads) findings:		<input checked="" type="checkbox"/> Normal/ Abnormal

Enclosed ECG

- done

2. Neurological Assessment

Findings	<input checked="" type="checkbox"/> Normal/Abnormal
Superficial Reflexes	
Deep Reflexes	
Peripheral Circulation	
Vibrational Syndromes	

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
<input checked="" type="checkbox"/> Present/Absent		

Enclosed Chest Radiograph

[Handwritten signature]

4. Audiometry Findings:

Conduction Type	Left Ear	Right Ear
Ear Conduction	<input checked="" type="checkbox"/> Normal/Abnormal	<input checked="" type="checkbox"/> Normal/Abnormal
Bone Conduction	<input checked="" type="checkbox"/> Normal/Abnormal	<input checked="" type="checkbox"/> Normal/Abnormal

Reports OK

Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

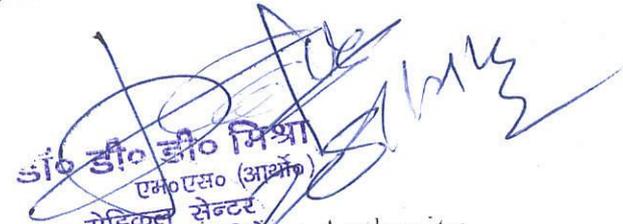
S.No	Tests	Findings
1.	Blood- Tc, Dc, Hb, ESR, Platelets	<input checked="" type="checkbox"/> WNL/Abnormal
2.	Blood Sugar- Fasting & PP	<input checked="" type="checkbox"/> WNL/Abnormal
3.	Lipid profile	<input checked="" type="checkbox"/> WNL/Abnormal
4.	Blood Urea, Creatinine	<input checked="" type="checkbox"/> WNL/Abnormal
5.	Urine Routine	<input checked="" type="checkbox"/> WNL/Abnormal
6.	Stool Routine	<input checked="" type="checkbox"/> WNL/Abnormal

Enclosed Investigation Reports. *NO*

6. Special Tests for Mn exposure

Behavioral Disturbances		<input checked="" type="checkbox"/> Present/ <input checked="" type="checkbox"/> Not Present
Neurological Disturbances	Speech Defect	<input checked="" type="checkbox"/> Present/ <input checked="" type="checkbox"/> Not Present
	Tremor	<input checked="" type="checkbox"/> Present/ <input checked="" type="checkbox"/> Not Present
	Adiadocokinesia	<input checked="" type="checkbox"/> Present/ <input checked="" type="checkbox"/> Not Present
	Emotional Changes	<input checked="" type="checkbox"/> Present/ <input checked="" type="checkbox"/> Not Present

7. Any other Special Test Required: *NO*


डॉ. डी. डी. मिश्रा
 एम.एस. (आर्थो)
 मेडिकल सेन्टर
 प्रिजम जॉबसेज लिमिटेड
 (सीमेन्ट डीवीजन)
 मन्कहरी, सतना (म.प्र.)
 Signature of the Examination Authority



CLIENT CODE : C000084392

CLIENT'S NAME AND ADDRESS :

PRISM JOHNSON LIMITED
VILLAGE: MANKAHARI, P.O.:BATHIA, TEHSIL: RAMPUR BAGHELAN,SATNA 485111
MADHYA PRADESH INDIA
9584468099SRL LIMITED
PRIME SQUARE BUILDING,PLOT NO 1,GAIWADI INDUSTRIAL
ESTATE,S.V. ROAD,GOREGAON (W)
Mumbai, 400062
MAHARASHTRA, INDIA
Tel : 1-800-222-000,
CIN - U74899PB1995PLC045956
Email : connect@srl.in

PATIENT NAME : SANTOSH KUMAR CHAUDHARI 103728

PATIENT ID :

ACCESSION NO : 0002RJ024226 AGE : 44 Years SEX : Male

DATE OF BIRTH : 09/09/1974

DRAWN :

RECEIVED : 09/10/2018 09:25

REPORTED : 10/10/2018 15:37

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

Test Report Status	Final	Results	Biological Reference Interval	Units
--------------------	-------	---------	-------------------------------	-------

PRISM JOHNSON- ONSITE PACKAGE**LUNG FUNCTION TEST**

LUNG FUNCTION TEST

WITHIN NORMAL LIMITS

AUDIOMETRY BASIC

AUDIOMETRY

RIGHT EAR MILD LOSS AT HIGH FREQUENCY
LEFT EAR MILD LOSS**BASIC EYE EXAMINATION**

DISTANT VISION RIGHT EYE WITHOUT GLASSES

REDUCE VISUAL ACUITY (6/9)

DISTANT VISION LEFT EYE WITHOUT GLASSES

REDUCE VISUAL ACUITY (6/9)

NEAR VISION RIGHT EYE WITHOUT GLASSES

WITHIN NORMAL LIMIT (N6)

NEAR VISION LEFT EYE WITHOUT GLASSES

WITHIN NORMAL LIMIT (N6)

COLOUR VISION

NORMAL (17/17)

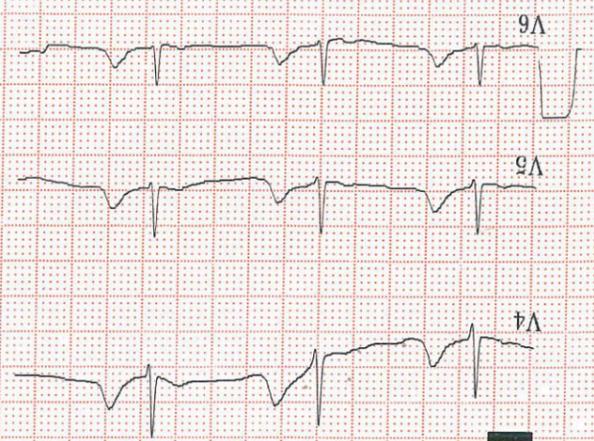
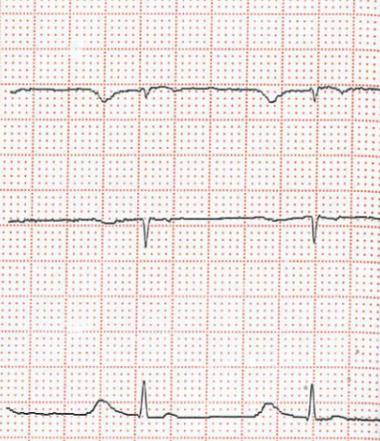
ECG

ECG

WITHIN NORMAL LIMITS

****End Of Report****Please visit www.srlworld.com for related Test Information for this accession

Dr. J N Shukla ,MBBS, AFIH
Consultant Physician



Vent. rate 65 bpm
 QRS duration 68 ms
 QT/QTc 368/382 ms
 PR interval 164 ms
 P duration 88 ms
 RR interval 923 ms
 P-R-T axes 47 13 42

Normal sinus rhythm
Normal ECG

DR. J. N. SHUKLA
 M.B.B.S., A.F.I.C.
 Reg. No. 51857

16

Sanjosh Kumar Chaudhary
 Age: 44m
 163728

Oct-2018 10:17:48

50% Contrast

50% Contrast

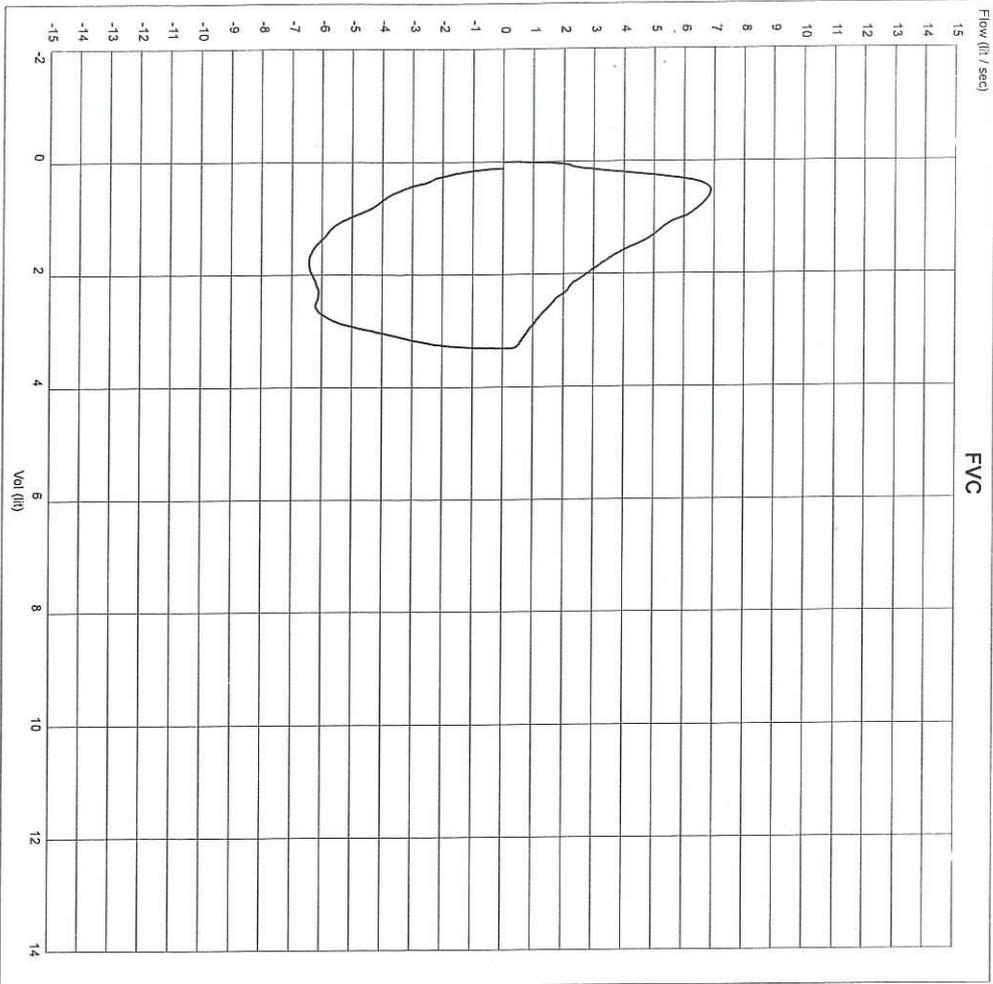
50% Contrast

50% Contrast

50% Contrast

Clinical History : NONE

Medications :



Params	Pred	Best Effort	Best Value	% Pred
FVC (L)	3.39	3.32	3.32	97.9
FEV0.5 (L)	---	2.1	2.1	---
FEV1.0 (L)	2.56	2.89	2.89	112.9
FEV3.0 (L)	3.16	0	0	0.0
FEV0.5 / FVC (%)	---	63.39	63.39	---
FEV1.0 / FVC (%)	79.21	87.13	87.13	110.0
FEV3.0 / FVC (%)	---	0	0	---
FEF 25% - 75% (L/s)	2.71	3.38	3.38	124.7
FEF 75% - 85% (L/s)	---	1.4	1.4	---
FEF 25% (L/s)	---	6.49	6.49	---
FEF 50% (L/s)	3.39	3.76	3.76	110.9
FEF 75% (L/s)	1.19	1.68	1.68	141.2
FEF 0.2 - 1.2 (L/s)	---	6.1	6.1	---
PEF (L/s)	7.16	6.89	6.89	96.2
FMFT (s)	---	0.5	0.5	---
FVC (L)	---	3.41	3.41	---
FV1 (L)	---	0	0	---
FV1/FVC (%)	---	0	0	---
FV1/FEV1 (%)	---	0	0	---
PIF (L/s)	---	6.44	6.44	---
FIF 50% (L/s)	---	6.44	6.44	---

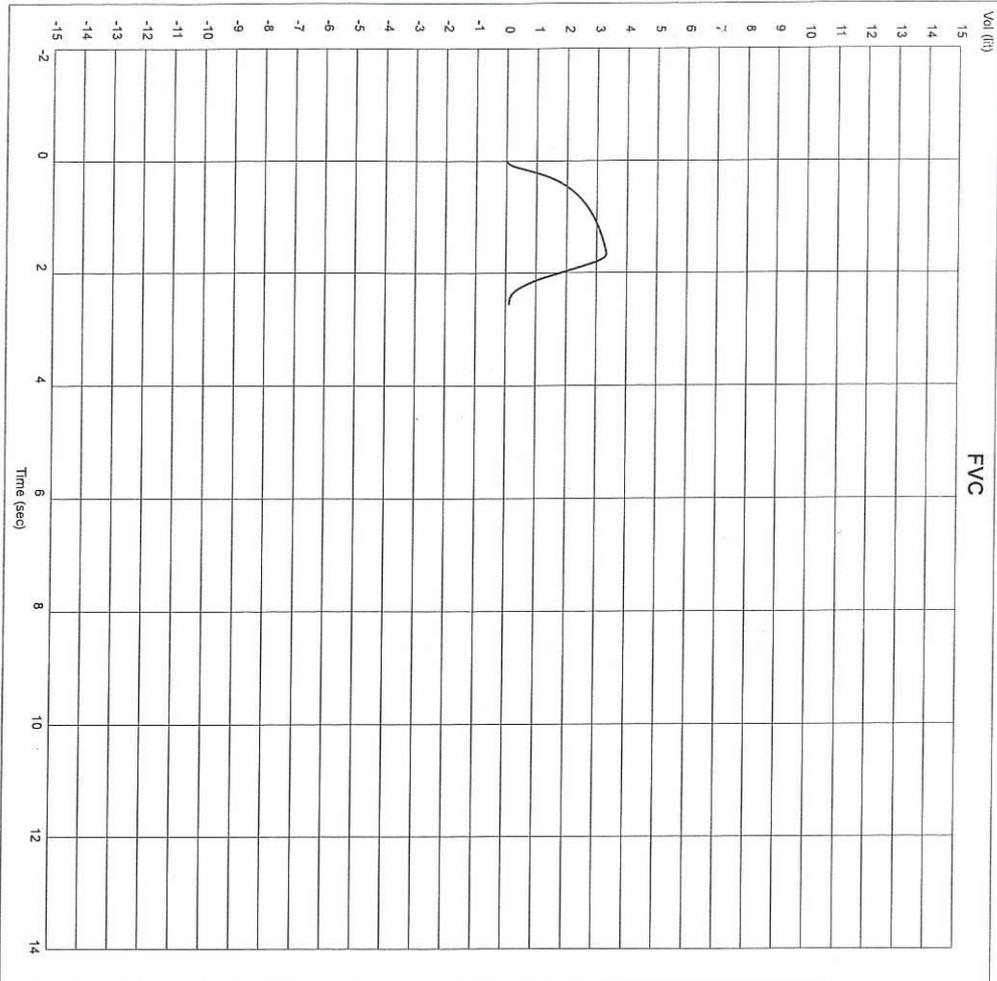
Pre Post

Interpretation : Pre Effort indicates Normal

Dr. J. B. S. A. R. I. M.
S. UKLA
Ref. No. 51851

Clinical History : NONE

Medications :



Params	Pred	Best Effort	Pre		% Pred
			Best Value	Value	
FVC (L)	3.39	3.32	3.32	3.38	97.9
FEV 0.5 (L)	---	2.1	2.1	1.4	---
FEV 1.0 (L)	2.56	2.89	2.89	3.76	112.9
FEV 3.0 (L)	3.16	0	0	6.1	0.0
FEV 0.5 / FVC (%)	---	63.39	63.39	6.89	---
FEV 1.0 / FVC (%)	79.21	87.13	87.13	8.89	110.0
FEV 3.0 / FVC (%)	---	0	0	1.4	---
FEF 25% - 75% (L/s)	2.71	3.38	3.38	3.76	124.7
FEF 75% - 85% (L/s)	---	1.4	1.4	1.68	---
FEF 25% (L/s)	---	6.49	6.49	6.1	---
FEF 50% (L/s)	3.39	3.76	3.76	3.76	110.9
FEF 75% (L/s)	1.19	1.68	1.68	1.68	141.2
FEF 0.2 - 1.2 (L/s)	---	6.1	6.1	6.1	---
PEF (L/s)	7.16	6.89	6.89	6.89	96.2
FMFT (s)	---	0.5	0.5	0.5	---
FVC (L)	---	3.41	3.41	3.41	---
FV1 (L)	---	0	0	0	---
FV1/FVC (%)	---	0	0	0	---
PIF (L/s)	---	6.44	6.44	6.44	---
FIF 50% (L/s)	---	6.44	6.44	6.44	---

Interpretation : Pre Effort indicates Normal

DR. J N SHUKLA
M.B.B.S., A.F.I.C.C.

Reg. No. 51857 Ref. By: -----

Audiometry

Name Santosh chaudhary

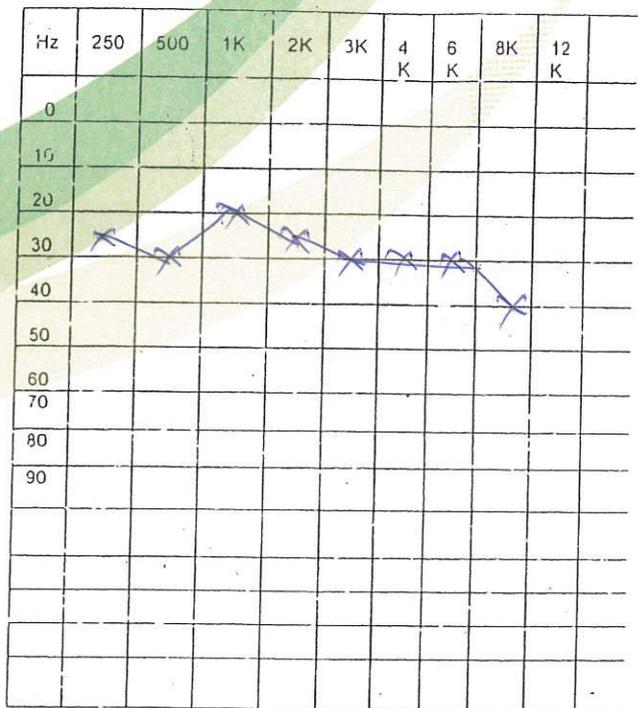
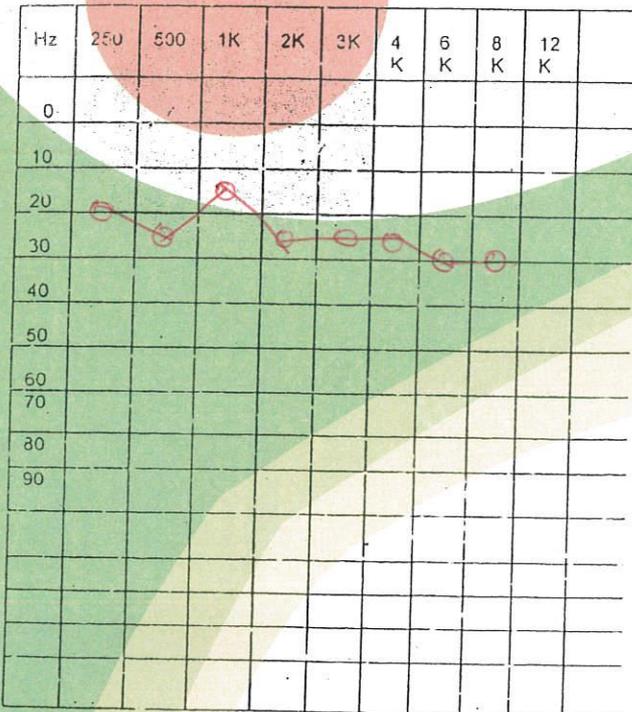
Date 4-10-18

Age 44

Sex m

Right Ear

Left Ear



Remarks:

R: Mild loss at HF.

L: Mild loss

Test Done By:

Signature:

SRL LIMITED
PRIME SQUARE BUILDING PLOT NO.1,
GAIWADI INDUSTRIAL ESTATE,
S V ROAD, NR. PATEL PETROL PUMP,
GOREGAON WEST,
TEL : 07901244

DR. J. N. SHUKLA
M.B.B.S., A.F.I.E.
Reg. No. 51857

X-RAY REPORT

①

DATE 26/12/18

NAME Santosh Kumar FATHER NAME Ramesh Chandra
AGE/SEX 44y EMP COD 103728
FACTORY NAME/CONTRACTOR NAME..... PCL/.....
DEPARTMENT/ADDRESS..... mineff

CHEST X RAY PA VIEW FINDINGS

- 1>TRACHEAL SHADOW..... Normal
2>LUNG FIELD..... Normal
3>HILAR SHADOW..... Normal
4>BOTH C P ANGLE..... Normal
5>CARDIAC SHADOW..... Normal
6>VISUALIZED BONE RIB CAGE..... Normal
7>IMPRESSION..... N.A.P


NAME & SIGNATURE RADIOLOGIST
Dr. Anuj Pandey
Regd. No.-2162
Sampoorna **REGD. NO. MP2162** Centre
SATNA (M.P.)

R

PA

NTOSH 44Y C/O RAM EKWAL M CHEST PA WE BO MINES H C) DR D D MISHRA 26 12 2018 3004
PRISM JOHNSON LIMITED MANKHARI SATNA(M P)

PRISM JOHNSON LIMITED

((FORMERLY PRISM CEMENT LIMITED))



Village:-Mankahari, P.O.-Bathia, Tehsil- Rampur Baghelan, Distt.- Satna, PIN-485111 (M.P.) India

Phone:-07672-302600, Email:-

Registration No. : 49743

Lab No. : 18-3934

Patient Name : Mr. SANTOSH KUMAR CHAUDHARI

Age/Sex : 43 / Male

Doctor: Dr.

Date By: 25-12-2018
02:00:15 PM

Test Name	Result	Unit	Normal
LIPID PROFILE			
Total Cholestrol	182.1	mg/dl	130-220
Triglyceride	148.6	mg/dl	75-150
H.D.L.	32.6	mg/dl	30-95
L.D.L.	...	mg/dl	65-135
SERUM CREATININE			
Serum Creatinine	1.07	mg/dl	0.4-1.4
BLOOD SUGAR (F)			
Fasting Blood Glucose	118.6	mg/dl	70-110
BLOOD UREA			
Blood Urea	22.1	mg/dl	10-40
CBC			
HB	15.4	G/DL	12-16
TLC/Total Count Of WBC	7100	/CUMM of Bld.	4000-11000
DLC-NEUTROPHIL	52	%	40-75
LYMPHOCYTE	45	%	20-45
EOSINOPHIL	03	%	0-5
MONOCYTE	00	%	0-6
BASOPHIL	--	%	0-1
E.S.R.	05	/HR.	0-10
Platelet Count	1.70	lakh/cumm	1.5-3.5
R.B.C./Total Count of RBC	--	millions./cumm	4.5-6.5
P.C.V.	--	%	33-48
M.C.V.	--	fl	76-96
M.C.H.	--	pg	27-32
M.C.H.C.	--	%	31-35
URINE REPORTS			
REPORT OF URINE	--	FORMAT	-

COMMENT LINE

Dr. Deljeet Dutta
M.D.
Pathologist & Microbiologist

Registration No. : 49743

Lab No. : 18-3934

Patient Name : Mr. SANTOSH KUMAR CHAUDHARI

Age/Sex : 43 / Male

Referred By: Dr.

Date: 25-12-2018

-: URINE EXAMINATION :-**PHYSICAL EXAMINATION :-**

Quantity :- 15 ml

Appearance :- Clear

Colour :- Yellow

Reaction :- Acidic

Specific Gravity : 1020

CHEMICAL EXAMINATION :-

Albumin :- Absent

Bili salt :-

Sugar :- Absent

Bili Pigment :-

Acetone :---

Urobilinogen :-

Blood :----

Other :-

MICROSCOPIC EXAMINATION:-

Pus Cell :- Occasional

Cast :- Not seen

Epithelial Cell :- Occasional

Crystals :-----

R.B.Cell :- Not Seen

Other :-- -----

I/C Pathology



 Pathologist
 Dr. Debjeet Dutta
 M.D.
 Pathologist & Microbiologist

X Noted

Reg No. 67233

02/15/20

FORM "O"

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

503096
Baghai

Certificate No.

Baghai

Certified that Shri/Shrimati* employed as H.E.O in Baghai
H.S. mine, Form A, No. 54 has been examined for an initial/periodical*
medical examination. He/she appears to be 53 years of age. The findings
of the examining authority are given in the attached sheet. It is considered that Shri
/Shrimati H.L. Vishwakarma

- (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 fromand 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.



ixing
f the

[Handwritten Signature]
 डॉ० डी० डी० मिश्रा
 एम०एस० (आर्थो)
 मेडिकल सुपरि
 प्रिजम जॉनसन लिमिटेड
 (सीमेन्ट, इवीजन)
 मनकहरी, सतना (म०प्र०)

Place manikahai
Date 01/12/18

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).

H.L. Vagurkar

Annexure to certificate No. as a result of medical examination on

Identification mark *M.A. (R) Chik*

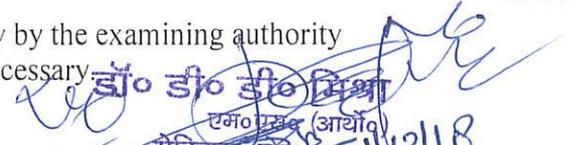
Left thumb impression of the candidate

✓ Good/Fair/Poor

1. General development .
2. Height *1.67*Cms.
3. Weight *68*Kg.
4. Eyes :
 - (i) Visual acuity -Distant vision (with or without glasses)
 - Right eye *Normal*..... Left eye *Normal*.....
 - (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 *Normal*.....Left ear *Normal*.....
 - (ii) any organic disease
6. Respiratory system : *No*
 - Chest measurement
 - (i) after full inspiration *9.5*Cms.
 - (ii) after full expiration *9.0*Cms.
7. Circulatory system :
 - Blood pressure *130/80 mmHg*
 - Pulse *78/4*
8. Abdomen :
 - Tenderness *No*
 - Liver *Normal*
 - Spleen *Normal*
 - Tumour *No*
9. Nervous system
 - History of fits or epilepsy *No*
 - Paralysis *No*
 - Mental Health *Normal*
10. Locomotor system *Normal*
11. Skin *Normal*
12. Hernia *No*
13. Hydrocele *No*
14. Any other abnormality
15. Urine : Reaction *MAP* Albumin *NAD* Sugar *MAP*
16. Skiagram of chest
17. Any other "c" test considered necessary by the examining authority
18. Any opinion of specialist considered necessary

Place *PCU (W)*


 डॉ० डी० डी० मिश्रा
 एम० एस्० (आर्थो)
 मेडिकल सेक्टर
 11218
Signature of examining authority
 (सीमेन्ट डीवीजन)
 मनकहरी, सतना (म०प्र०)

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

Certificate No

Name: *H.L. Vishnu Rao*

Identification Marks:

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)			
Forced Vital Capacity 1 FEV1			
FEV1/FVC			
Peak Expiratory Flow			

Mild obstructive in small airways
Report attached

Spirometry Report enclosed

[Signature]
डॉ. डी. डी. मिश्रा
एम.एस. (आर्थो)
मेडिकल सेंटर
प्रिज्म जॉब्स लिमिटेड
(एम्प्लॉयर्स) Authority
मनकहरी, सतना (म.प्र.)

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

Certificate No.

Name: *H.L. Vishwakumar*

Identification Marks:

1. Cardiological Assessment

Auscultation	S1	<i>Normal</i>
	S2	
	Additional Sound	
Electrocardiograph (12 leads) findings:		<input checked="" type="checkbox"/> Normal/ Abnormal

Enclosed ECG *Normal*

2. Neurological Assessment

Findings	<input checked="" type="checkbox"/> Normal/Abnormal
Superficial Reflexes	<i>Normal</i>
Deep Reflexes	
Peripheral Circulation	
Vibrational Syndromes	

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
<i>Present</i>		

Enclosed Chest Radiograph

[Signature]
11/1/2019

4. Audiometry Findings:

Conduction Type	Left Ear	Right Ear
Ear Conduction	<input checked="" type="checkbox"/> Normal/Abnormal	<input checked="" type="checkbox"/> Normal/Abnormal
Bone Conduction	<input checked="" type="checkbox"/> Normal/Abnormal	<input checked="" type="checkbox"/> Normal/Abnormal

Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

S.No	Tests	Findings
1.	Blood- Tc, Dc, Hb, ESR, Platelets	<input checked="" type="checkbox"/> WNL/Abnormal
2.	Blood Sugar- Fasting & PP	<input checked="" type="checkbox"/> WNL/Abnormal
3.	Lipid profile	<input checked="" type="checkbox"/> WNL/Abnormal
4.	Blood Urea, Creatinine	<input checked="" type="checkbox"/> WNL/Abnormal
5.	Urine Routine	<input checked="" type="checkbox"/> WNL/Abnormal
6.	Stool Routine	<input checked="" type="checkbox"/> WNL/Abnormal

P-120.1
T-228.1
T-212.1

Enclosed Investigation Reports.

NA

6. Special Tests for Mn exposure

Behavioral Disturbances		Present/ Not Present
Neurological Disturbances	Speech Defect	<input checked="" type="checkbox"/> Present/ Not Present
	Tremor	<input checked="" type="checkbox"/> Present/ Not Present
	Adiadocokinesia	<input checked="" type="checkbox"/> Present/ Not Present
	Emotional Changes	<input checked="" type="checkbox"/> Present/ Not Present

7. Any other Special Test Required:

NO

डॉ० डी० डी० मिश्रा
एम०एस० (अर्थो)
मेडिकल सेक्टर
प्रिजम जॉनसन लिमिटेड
(सीमेन्ट डीवीजब)
मनकहरी, सतना (म०प्र०)

Signature of the Examination Authority



CLIENT CODE : C000084392

CLIENT'S NAME AND ADDRESS :PRISM JOHNSON LIMITED
VILLAGE: MANKAHARI, P.O.:BATHIA, TEHSIL: RAMPUR BAGHELAN,SATNA 485111
MADHYA PRADESH INDIA
9584468099

SRL LIMITED

PRIME SQUARE BUILDING,PLOT NO 1,GAIWADI INDUSTRIAL
ESTATE,S.V. ROAD,GOREGAON (W)Mumbai, 400062
MAHARASHTRA, INDIA
Tel : 1-800-222-000,
CIN - U74899PB1995PLC045956
Email : connect@srl.in**PATIENT NAME : HEERA LAL VISHWAKARMA 503096**

PATIENT ID :

ACCESSION NO : **0002RJ023007** AGE : 52 Years SEX : Male DATE OF BIRTH : 02/11/1965

DRAWN : RECEIVED : 08/10/2018 18:50 REPORTED : 11/10/2018 15:25

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

Test Report Status	Final	Results	Biological Reference Interval	Units
--------------------	-------	---------	-------------------------------	-------

PRISM JOHNSON- ONSITE PACKAGE**LUNG FUNCTION TEST**

LUNG FUNCTION TEST

MILD OBSTRUCTION IN SMALL AIRWAY

AUDIOMETRY BASIC

AUDIOMETRY

HEARING WITHIN NORMAL LIMITS

BASIC EYE EXAMINATION

DISTANT VISION RIGHT EYE WITH GLASSES

WITH GLASSES NORMAL (6/6)

DISTANT VISION LEFT EYE WITH GLASSES

WITH GLASSES NORMAL (6/6)

NEAR VISION RIGHT EYE WITH GLASSES

WITH GLASSES NORMAL (N6)

NEAR VISION LEFT EYE WITH GLASSES

WITH GLASSES NORMAL (N6)

COLOUR VISION

NORMAL (17/17)

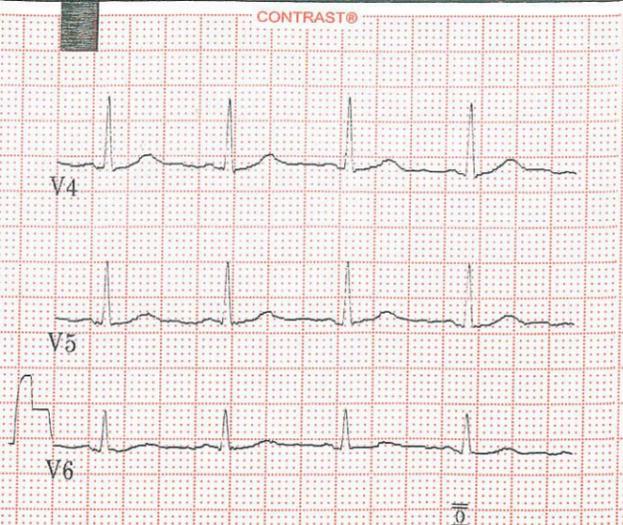
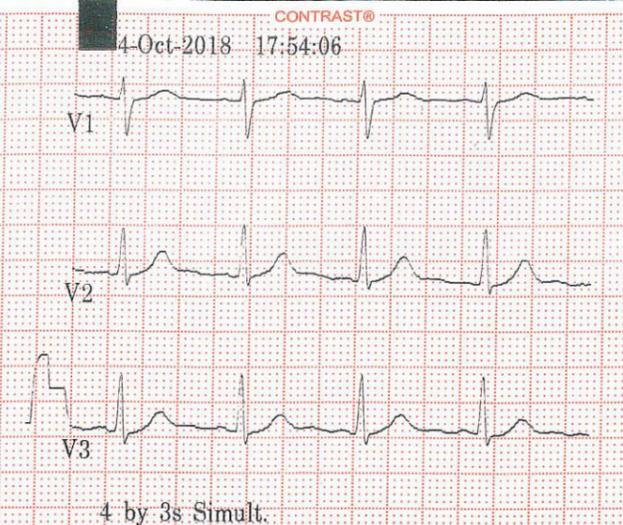
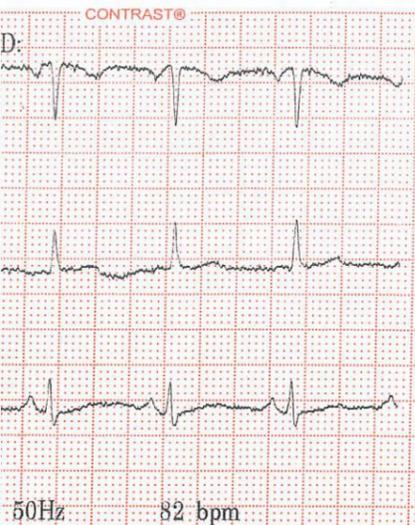
ECG

ECG

WITHIN NORMAL LIMITS

****End Of Report****Please visit www.srlworld.com for related Test Information for this accession

Dr. J N Shukla ,MBBS, AFIH
Consultant Physician



50Hz 82 bpm

4 by 3s Simult.

MAC600 1.02 12SL™v239

MAC600 1.02 12SL™v239

MAC600 1.02 12SL™v239

MAC600 1.02 12SL™v239

4-Oct-2018 17:54:06

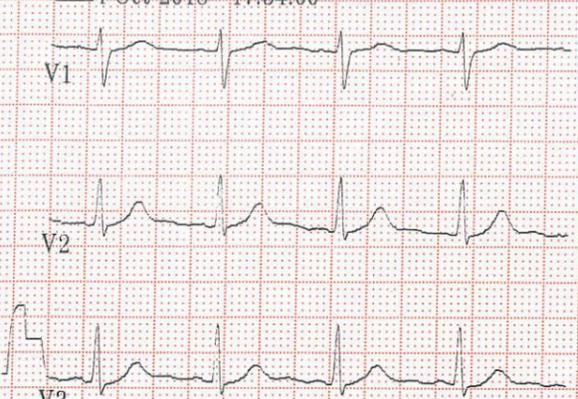
ID:

Sinus rhythm with short PR
Otherwise normal ECG

Vent. rate 82 bpm
QRS duration 76 ms
QT/QTc 366/427 ms
PR interval 100 ms
P duration 76 ms
RR interval 731 ms
P-R-T axes 57 36 50

Dr. J. N. SHUKLA
M.B.B.S., A.F.I.C.
Reg. No. 51851

Heera Lal Vishwakarma (79)
Age: - 53 / m.
503096



ID:

Vent. rate	82 bpm
QRS duration	76 ms
QT/QTc	366/427 ms
PR interval	100 ms
P duration	76 ms
RR interval	731 ms
P-R-T axes	57 36 50

Auto gain applied
0.16-20Hz 25.0 mm/s 10.0|5.0 mm/mV

50Hz 82 bpm

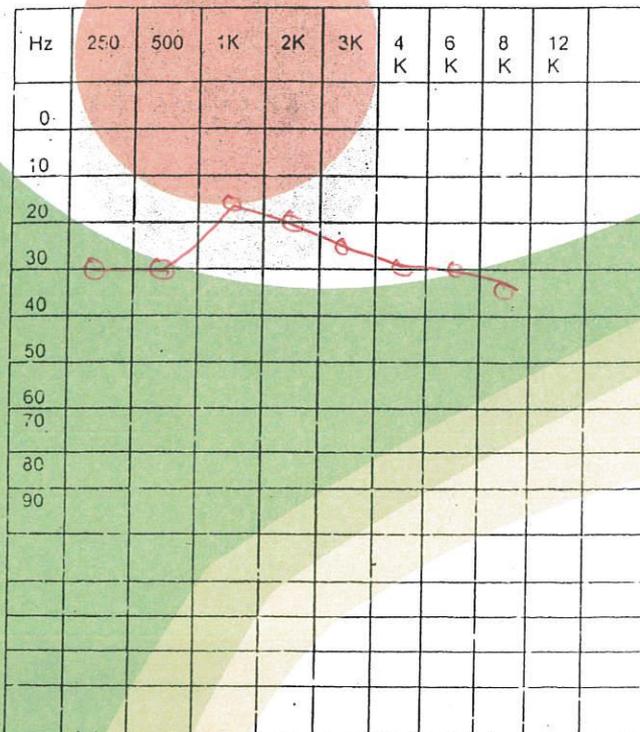
4 by 3s Simult.

2

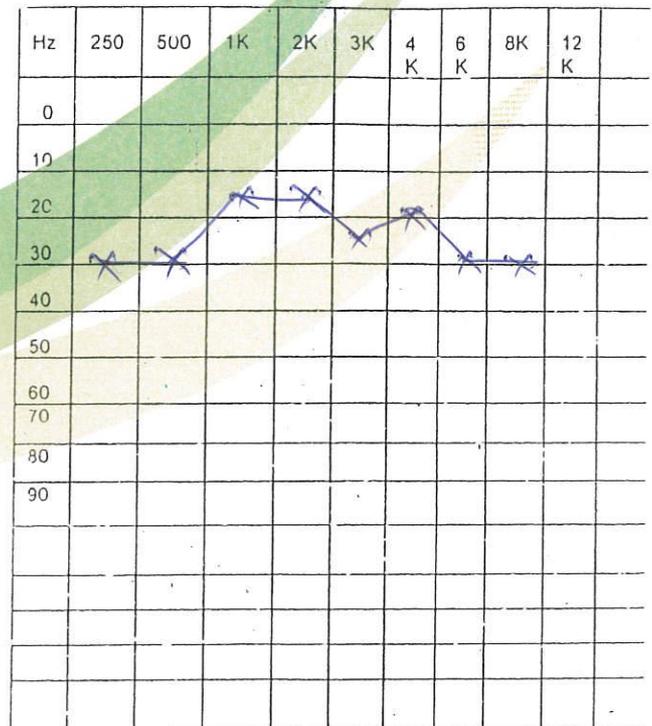
Audiometry

Name Hiralal Vishwakarma Date 4-10-18
Age 53 Sex M

Right Ear



Left Ear



Remarks:

1215 hrs (bil)

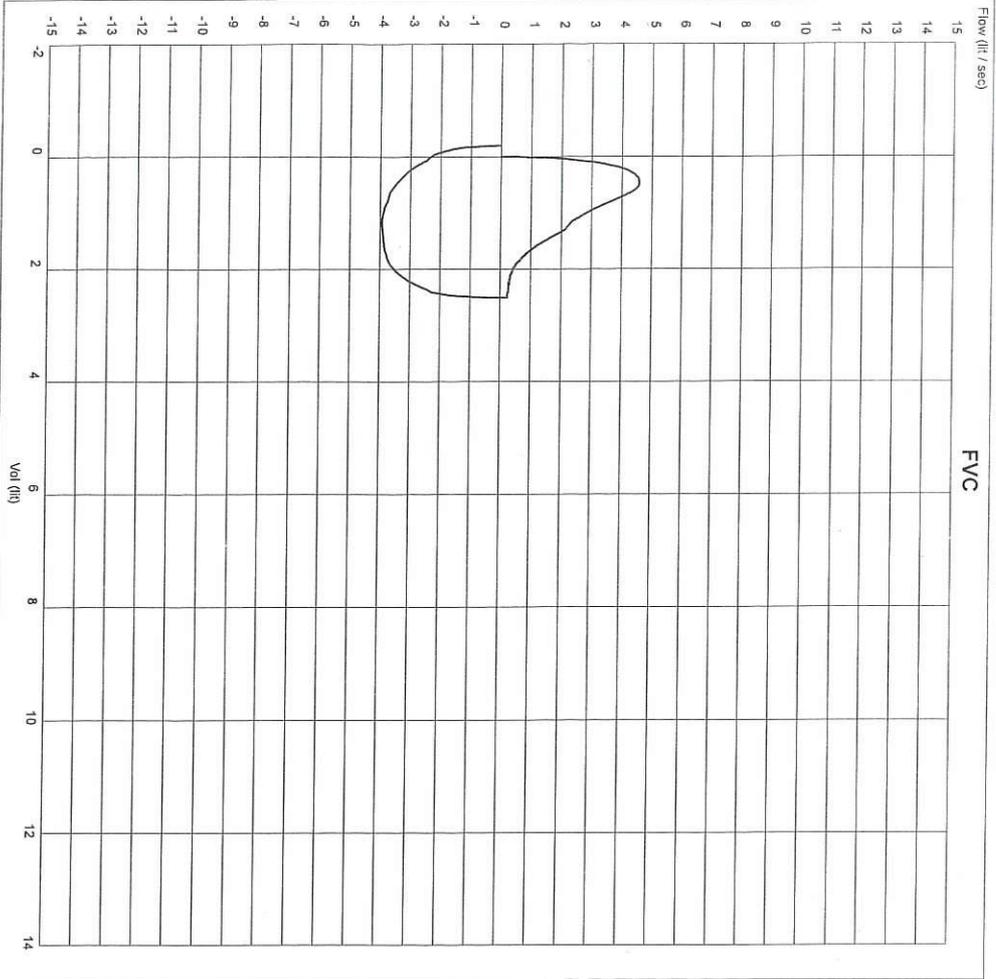
DR. J. N. SHUKLA
M.B.B.S., A.F.I.H
Reg. No. 51857

SRL LIMITED
PRIME SQUARE BUILDING PLOT NO.1,
GAIWADI INDUSTRIAL ESTATE,
S V ROAD, NR. PATEL PETROL PUMP,
GOREGAON WEST,
TEL : 67801244

Test Done By: _____
Signature: _____

Clinical History : NONE

Medications :



Params	Pred	Pre		% Pred
		Best Effort Value	Best Value	
FVC (L)	3.18	2.51	2.51	78.9
FEV 0.5 (L)	---	1.47	1.47	---
FEV 1.0 (L)	2.33	1.9	1.9	81.5
FEV 3.0 (L)	2.94	0	0	0.0
FEV 0.5 / FVC (%)	---	58.39	58.39	---
FEV 1.0 / FVC (%)	77.17	75.85	75.85	98.3
FEV 3.0 / FVC (%)	---	0	0	---
FEF 25% - 75% (L/s)	2.33	1.64	1.64	70.4
FEF 75% - 85% (L/s)	---	0.41	0.41	---
FEF 25% (L/s)	---	4.36	4.36	---
FEF 50% (L/s)	3.04	2.18	2.18	71.7
FEF 75% (L/s)	0.91	0.55	0.55	60.4
FEF 0.2 - 1.2 (L/s)	---	3.53	3.53	---
PEF (L/s)	6.91	4.57	4.57	66.1
FMFT (s)	---	0.79	0.79	---
FVC (L)	---	2.88	2.88	---
FV1 (L)	---	0	0	---
FV1/FVC (%)	---	0	0	---
FV1/FVC (%)	---	0	0	---
PIF (L/s)	---	3.95	3.95	---
PIF 50% (L/s)	---	3.95	3.95	---

Interpretation : Pre Effort indicates Restrictive mild obstruction w small airway

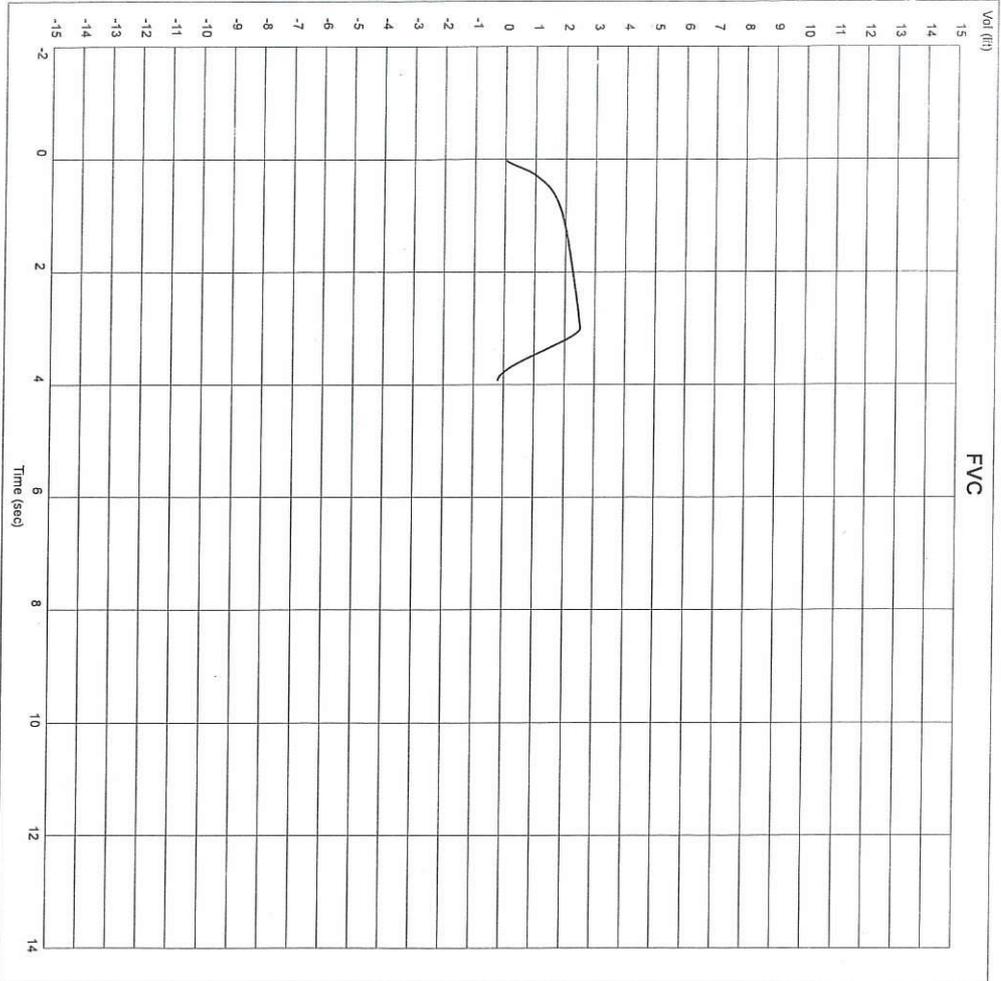
DR. J. N SHUKLA

M.D.B.S. AIR 1B

Reg. No. 51857

Clinical History : NONE

Medications :



Params	Pred	Pre		% Pred
		Best Effort Value	Best Value	
FVC (L)	3.18	2.51	2.51	78.9
FEV0.5 (L)	---	1.47	1.47	---
FEV1.0 (L)	2.33	1.9	1.9	81.5
FEV3.0 (L)	2.94	0	0	0.0
FEV0.5/FVC (%)	---	58.39	58.39	---
FEV1.0/FVC (%)	77.17	75.85	75.85	98.3
FEV3.0/FVC (%)	---	0	0	---
FEF 25% - 75% (L/s)	2.33	1.64	1.64	70.4
FEF 75% - 85% (L/s)	---	0.41	0.41	---
FEF 25% (L/s)	---	4.36	4.36	---
FEF 50% (L/s)	3.04	2.18	2.18	71.7
FEF 75% (L/s)	0.91	0.55	0.55	60.4
FEF 0.2 - 1.2 (L/s)	---	3.53	3.53	---
PEF (L/s)	6.91	4.57	4.57	66.1
FMFT (s)	---	0.79	0.79	---
FVC (L)	---	2.88	2.88	---
FV1 (L)	---	0	0	---
FV1/FVC (%)	---	0	0	---
FV1/FEV1 (%)	---	0	0	---
PIF (L/s)	---	3.95	3.95	---
FIF 50% (L/s)	---	3.95	3.95	---

Interpretation : Pre Effort indicates Restrictive mild obstruction in small airways

DR. J. N. SHUKLA
M.D.S., A.R.F.I.C.

Reg. No. 51857

PRISM JOHNSON LIMITED

((FORMERLY PRISM CEMENT LIMITED))

Village:-Mankahari, P.O.-Bathia, Tehsil- Rampur Baghelan, Distt.- Satna,
PIN-485111 (M.P.) India

Phone:-07672-302600, Email:-

Registration No. : 67233**Lab No. : 18-3774****Patient Name : Mr. H L VISHWAKARMA****Age/Sex : 53Yrs.- / Male****Doctor: Dr.****Date By: 01-12-2018
01:50:03 PM**

Test Name	Result	Unit	Normal
LIPID PROFILE			
Total Cholestrol	<u>228.1</u>	mg/dl	130-220
Triglyceride	<u>212.1</u>	mg/dl	75-150
H.D.L.	42.9	mg/dl	30-95
L.D.L.	--	mg/dl	65-135
SERUM CREATININE			
Serum Creatinine	0.88	mg/dl	0.4-1.4
BLOOD SUGAR (F)			
Fasting Blood Glucose	<u>120.1</u>	mg/dl	70-110
BLOOD UREA			
Blood Urea	30.5	mg/dl	10-40
CBC			
HB	13.4	G/DL	12-16
TLC/Total Count Of WBC	8200	/CUMM of Bld.	4000-11000
DLC-NEUTROPHIL	50	%	40-75
LYMPHOCYTE	45	%	20-45
EOSINOPHIL	05	%	0-5
MONOCYTE	00	%	0-6
BASOPHIL	--	%	0-1
E.S.R.	04	/HR.	0-10
Platelet Count	1.40	lakh/cumm	1.5-3.5
R.B.C./Total Count of RBC	--	millions./cumm	4.5-6.5
P.C.V.	--	%	33-48
M.C.V.	--	fl	76-96
M.C.H.	--	pg	27-32
M.C.H.C.	--	%	31-35
URINE REPORTS			
REPORT OF URINE	....	FORMAT	-

COMMENT LINE


Technologist
Dr. Debjeet Dutta
M.D.
Pathologist & Microbiologist

Registration No. : 67233

Lab No. : 18-3774

Patient Name : Mr. H L VISHWAKARMA

Age/Sex : 53Yrs.- / Male

Referred By: Dr.

Date: 01-12-2018

-: URINE EXAMINATION :-

EXAMINATION :-

15 ml	Appearance :- Clear
Yellow	Reaction :- Acidic
	Specific Gravity : 1020

EXAMINATION :-

Absent	Bili salt :-
Absent	Bili Pigment :-
	Urobilinogen :-
	Other :-

SPIC EXAMINATION:-

Occasional	Cast :- Not seen
None :- Occasional	Crystals :-----
Not Seen	Other :-- -----


Dr. Debjeet Dutta
Pathologist
M.D.
Pathologist & Microbiologist

X-RAY REPORT

(3)

DATE 1/12/2018

NAME H.L. Vishkarma FATHER NAME Samsayewar
AGE/SEX 53y. 1m EMP COD 10
FACTORY NAME/CONTRACTOR NAME PCL
DEPARTMENT/ADDRESS mine
.....

CHEST X RAY PA VIEW FINDINGS

- 1>TRACHEAL SHADOW Normal
2>LUNG FIELD Normal
3>HILAR SHADOW Normal
4>BOTH C P ANGLE Normal
5>CARDIAC SHADOW Normal
6>VISUALIZED BONE RIB CAGE Normal
7>IMPRESSION N.A.D
.....

NAME & SIGNATURE RADIOLOGIST

Dr. Anuj Pandey

Dr. Anuj Pandey
REGD NO. 1162
Sampoorna Diagnostic Centre
SATNA (M.P.)

R

PA

HKARMA 53Y C/O RAM SAJEWAN M CHEST PA WE BO MINES H C) DR D D MISHRA 01.12.2019
PRISM JOHNSON LIMITED MANKHARI SATNA(M.P.)

XRay
Noted

IME/PME

FORM "O"

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

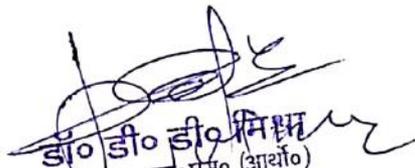
Certificate No.

Certified that Shri/Shrimati* employed as Diesel Technician in PCL
.....mine, Form A No. 55 has been examined for an initial/periodical*
medical examination. He/she appears to be 47.....years of age. The findings
of the examining authority are given in the attached sheet. It is considered that Shri
*Shrimati Dev Narayan Gupta.

- (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 fromand 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 PCL, Mankahari
Date 30.11.2018


डॉ० डी० डी० मिश्रा
एन०एस० (आर०ओ)
Signature of examining authority
प्रिजम जॉयसन् लिमिटेड
(सीनेट डीवीजन)
मनकहरी, सतना (म०प्र०)....

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. as a result of medical examination on
.....

Devnagar on 6/11/14

Identification mark.....

Left thumb impression of the candidate
Good/Fair/Poor

1. General development .
2. Height 175Cms.
3. Weight 76Kg.
4. Eyes :
 - (i) Visual acuity -Distant vision (with or without glasses)
Right eye... Norm Left eye... Norm
 - (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 Norm Left ear Norm
 - (ii) any organic disease NO
6. Respiratory system :
Chest measurement
(i) after full inspiration 95Cms.
(ii) after full expiration 90Cms.
7. Circulatory system :
Blood pressure 138/86
Pulse 77
8. Abdomen :
Tenderness NO
Liver Norm
Spleen Norm
Tumour NO
9. Nervous system Norm
History of fits or epilepsy NO
Paralysis NO
Mental Health Norm
10. Locomotor system Norm
11. Skin Healthy
12. Hernia NO
13. Hydrocele NO
14. Any other abnormality NO
15. Urine : Reaction Albumin Sugar
16. Skiagram of chest NO
17. Any other "c" test considered necessary by the examining authority
18. Any opinion of specialist considered necessary.

Place

Handwritten signature and date 14/11/14

Signature of examining authority
डॉ० डी० डी० मिश्रा
एम०एस० (आर्यो०)
मेडिकल सेक्टर
मिन्स जॉइन्ट लिमिटेड
(सीमेंट डिवीजन)
मनकहरी, रातना (म०प्र०)

Handwritten signature and date 14/11/14

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

Certificate No

Name: *Dev Narayan Gupta*

Identification Marks:

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)	<i>Normal Report Attached</i>	<i>Normal Report Attached</i>	
Forced Vital Capacity | FEV1			
FEV1/FVC			
Peak Expiratory Flow			

Spirometry Report enclosed

[Signature]
डॉ० डी० डी० मिश्रा
एम०एस० (आर्यो०)
मेडिकल सेन्टर
प्रिन्स जॉर्जसग टि सिस्टेम
(सीमेन्ट डीवीजेन)
नवकाशी रास्ता, गो०पो०
Signature of the *[Signature]* 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

Name: *Dev Narayan Choudhary*

Identification Marks:

1. Cardiological Assessment

Auscultation	S1	<i>Normal</i>
	S2	
	Additional Sound	
Electrocardiograph (12 leads) findings:		Normal/ Abnormal

Enclosed ECG - *Normal*

2. Neurological Assessment

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

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
<i>Present</i>		

Enclosed Chest Radiograph

Dev Narayan Choudhary
14/11/2014



CLIENT CODE : C000084392

CLIENT'S NAME AND ADDRESS :

PRISM JOHNSON LIMITED
VILLAGE: MANKAHARI, P.O.:BATHIA, TEHSIL: RAMPUR BAGHELAN,

SATNA 485111
MADHYA PRADESH INDIA
9584468099

SRL LIMITED
PRIME SQUARE BUILDING,PLOT NO 1,GAIWADI INDUSTRIAL
ESTATE,S.V. ROAD,GOREGAON (W)
Mumbai, 400062
MAHARASHTRA, INDIA
Tel : 1-800-222-000,
CIN - U74899PB1995PLC045956
Email : connect@srl.in

PATIENT NAME : DEV NARAYAN GUPTA 503130

PATIENT ID :

ACCESSION NO : **0002RJ023967**

AGE : 47 Years SEX : Male

DATE OF BIRTH : 10/08/1971

DRAWN :

RECEIVED : 09/10/2018 08:43

REPORTED : 11/10/2018 10:58

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

Test Report Status	Results	Biological Reference Interval	Units
Final			

PRISM JOHNSON- ONSITE PACKAGE

LUNG FUNCTION TEST

LUNG FUNCTION TEST

WITHIN NORMAL LIMITS

AUDIOMETRY BASIC

AUDIOMETRY

MILD HEARING LOSS (BILATERALLY)

BASIC EYE EXAMINATION

DISTANT VISION RIGHT EYE WITH GLASSES

WITH GLASSES NORMAL (6/6)

DISTANT VISION LEFT EYE WITH GLASSES

WITH GLASSES NORMAL (6/6)

NEAR VISION RIGHT EYE WITH GLASSES

WITH GLASSES NORMAL (N6)

NEAR VISION LEFT EYE WITH GLASSES

WITH GLASSES NORMAL (N6)

COLOUR VISION

PARTIAL COLOUR BLINDNESS (06/17)

ECG

ECG

WITHIN NORMAL LIMITS

****End Of Report****

Please visit www.srlworld.com for related Test Information for this accession

Dr. J N Shukla ,MBBS, AFIH
Consultant Physician

MAC600 1.02

CONTRAST B



Normal sinus rhythm
Normal ECG

DR. J. N. SHUKLA
M.B.B.S., A.F.I.C.
Reg. No. 51857

(38)

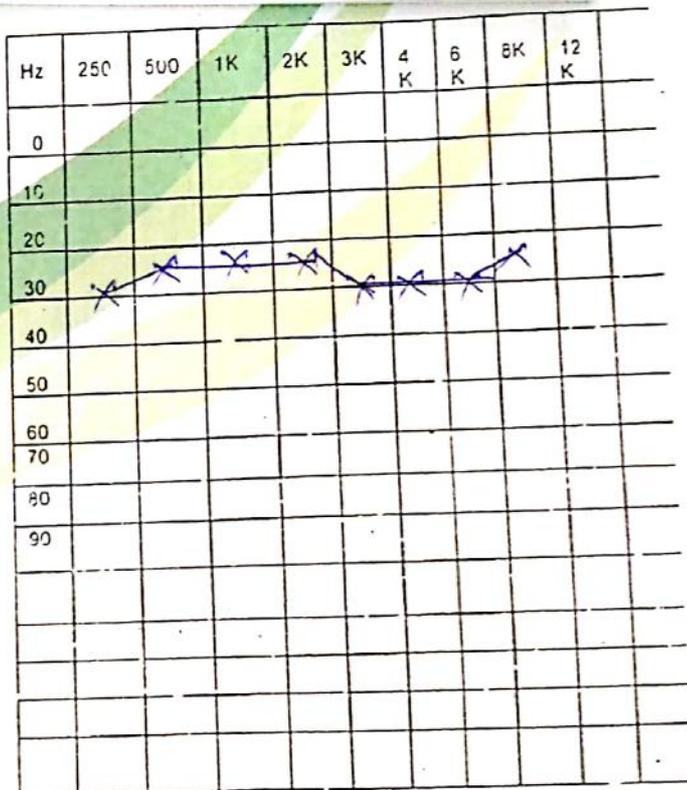
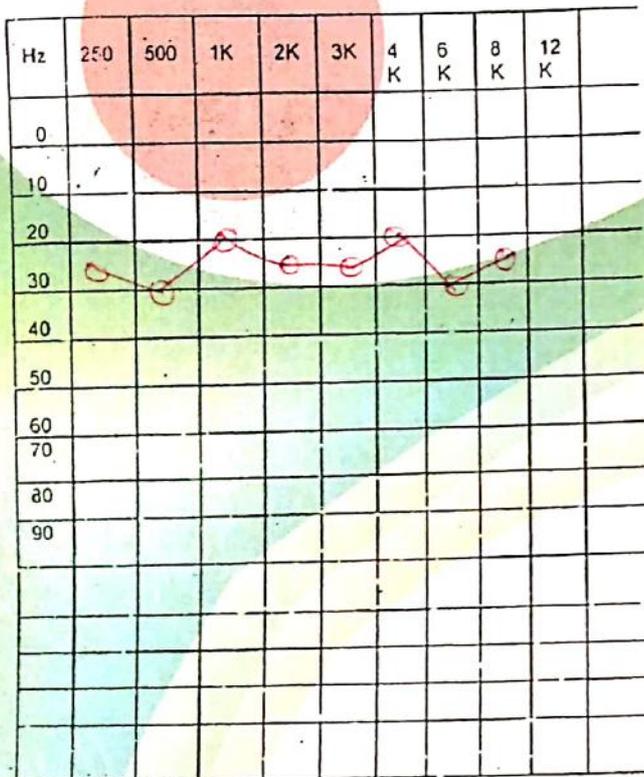
Dev Narayan Gupta
Age! - 47/m.
503/30

Auto gain applied
0:16-20Hz 25.0 mm/s 10.0/5.0 mm/mV

MAC600 1.02

12SL™ v239

Right Ear



Remarks:

Mild loss (bilaterally)

SRL LIMITED
PRIME SQUARE BUILDING PLOT NO.1,
Test Done By GAWADI INDUSTRIAL ESTATE,
S V ROAD, NR. PATEL PETROL PUMP,
GOREGAON WEST,
Signature: TEL: 67801244

DR. J N SHUKLA
M.B.B.S., A.F.I.C.
Reg. No. 51857

PCL, Muzo
503107

Reg. No. 33297

02/11/18

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.

Certified that Shri/Shrimati* employed as Auto Electrician in PCL
mine, Form No. 06 has been examined for an initial/periodical*
medical examination. He/she appears to be 50 yrs. years of age. The findings
of the examining authority are given in the attached sheet. It is considered that Shri
/Shrimati S. Singh Shrivastava.

* (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 PCL (W)
Date 28/11/2018

डॉ० डी० डी० मिश्रा
Signature of examining authority
एम० ए० (आर०)
मेडिकल सेक्टर
प्रिजम जॉयसन लिमिटेड
..... (सीमेन्ट, डीवी प्रज)

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).

Singh Saran

Annexure to certificate No. as a result of medical examination on

Identification mark.....

Left thumb impression of the candidate
Good/Fair/Poor

1. General development .
2. Height *1.68*Cms.
3. Weight *70*Kg.
4. Eyes :
 - (i) Visual acuity -Distant vision (with or without glasses)
 - Right eye... *Normal* Left eye ... *Normal*
 - (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 *Normal* Left ear *Normal*
 - (ii) any organic disease *No*
6. Respiratory system :

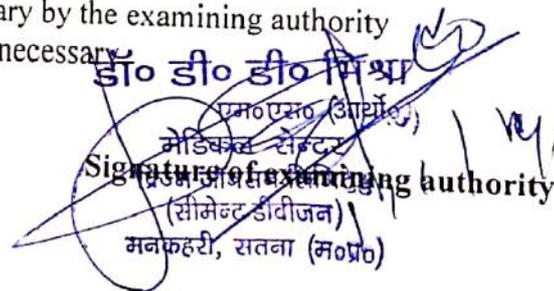
Chest measurement

 - (i) after full inspiration *9.7*Cms.
 - (ii) after full expiration *10.1*Cms.
7. Circulatory system :

Blood pressure *137/93*

Pulse *94*
8. Abdomen : *105*
 - Tenderness *No*
 - Liver *Normal*
 - Spleen *Normal*
 - Tumour *No*
9. Nervous system *Normal*
 - History of fits or epilepsy *No*
 - Paralysis *No*
 - Mental Health *Normal*
10. Locomotor system *Normal*
11. Skin *Healthy*
12. Hernia *No*
13. Hydrocele *No*
14. Any other abnormality *No*
15. Urine : Reaction *NAP* Albumin *NAP* Sugar *NAP*
16. Skiagram of chest
17. Any other "c" test considered necessary by the examining authority
18. Any opinion of specialist considered necessary

Place *PCL (W)*


 डॉ० डी० डी० मिश्रा
 एम०एस० (आर्थो)
 मेडिकल सेक्टर
 (सीमेन्ट डीविजन)
 मनफरी, सतना (म०प्र०)

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

Certificate No

Name: Singh Shera S^o

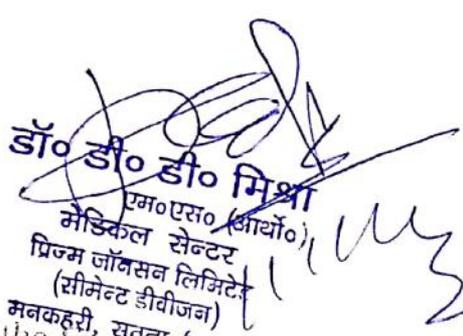
Identification Marks:

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)			
Forced Vital Capacity 1 FEV1			
FEV1/FVC			
Peak Expiratory Flow			

Mild Restrictive Report Attached

Spirometry Report enclosed


डॉ० डी० डी० मिश्रा
एम०एस० (आर्य०)
मेडिकल सेन्टर
प्रिन्स जॉनसन लिमिटेड
(सीमेन्ट डीवीजन)
मनकहरी, सतना (म०प्र०)
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

Name: *Singh Shiro di*

Identification Marks:

1. Cardiological Assessment

Auscultation	S1	<i>Normal</i>
	S2	
	Additional Sound	
Electrocardiograph (12 leads) findings:		<i>Normal/ Abnormal</i>

Enclosed ECG → *Normal*

2. Neurological Assessment

Findings	Normal/Abnormal
Superficial Reflexes	<i>Refer to Attachment</i>
Deep Reflexes	
Peripheral Circulation	
Vibrational Syndromes	

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
<i>Present/Absent</i>		

Enclosed Chest Radiograph

[Signature]
11/11/11



CLIENT CODE : C000084392

CLIENT'S NAME AND ADDRESS :

PRISM JOHNSON LIMITED
VILLAGE: MANKAHARI, P.O.:BATHIA, TEHSIL: RAMPUR BAGHELAN,

SATNA 485111
MADHYA PRADESH INDIA
9584468099

SRL LIMITED
PRIME SQUARE BUILDING,PLOT NO 1,GAIWADI INDUSTRIAL
ESTATE,S.V. ROAD,GOREGAON (W)
Mumbai, 400062
MAHARASHTRA, INDIA
Tel : 1-800-222-000,
CIN - U74899PB1995PLC045956
Email : connect@srl.in

PATIENT NAME : SINGH SHIVAJI 503107

ACCESSION NO : **0002RJ023981** AGE : 50 Years SEX : Male

DRAWN :

RECEIVED : 09/10/2018 08:45

PATIENT ID :

DATE OF BIRTH : 02/10/1968

REPORTED : 11/10/2018 10:29

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

Test Report Status	Results	Biological Reference Interval	Units
Final			

PRISM JOHNSON- ONSITE PACKAGE

LUNG FUNCTION TEST

LUNG FUNCTION TEST

MILD RESTRICTIVE

AUDIOMETRY BASIC

AUDIOMETRY

BOTH EAR - MILD HEARING LOSS

BASIC EYE EXAMINATION

DISTANT VISION RIGHT EYE WITH GLASSES

WITH GLASSES NORMAL (6/6)

DISTANT VISION LEFT EYE WITH GLASSES

WITH GLASSES NORMAL (6/6)

NEAR VISION RIGHT EYE WITH GLASSES

WITH GLASSES NORMAL (N6)

NEAR VISION LEFT EYE WITH GLASSES

WITH GLASSES NORMAL (N6)

COLOUR VISION

NORMAL (17/17)

ECG

WITHIN NORMAL LIMITS

ECG

****End Of Report****

Please visit www.srlworld.com for related Test Information for this accession

Dr. J N Shukla ,MBBS, AFIH
Consultant Physician

MAC600 1.02

Sinus tachycardia
Otherwise normal ECG

DR. J. N. SHUKLA
M.B.B.S., A.F.I.C.
Reg. No. 51857

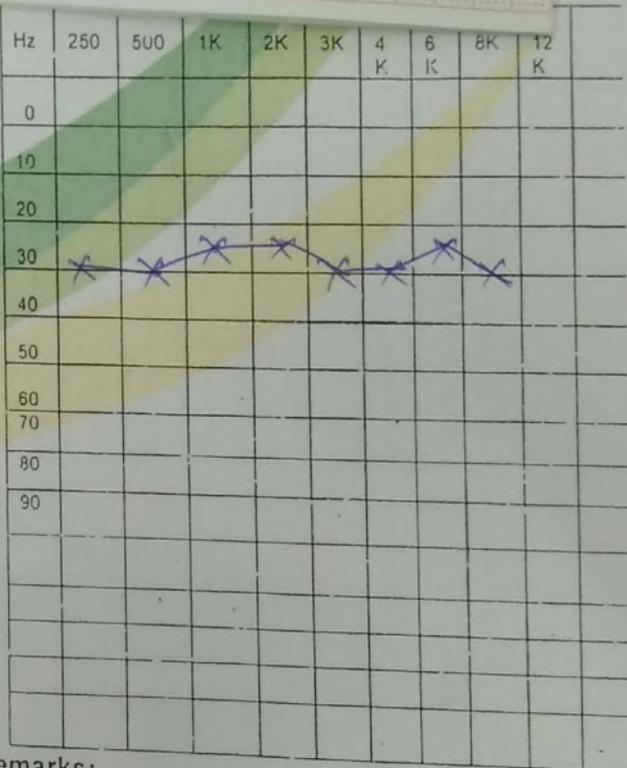
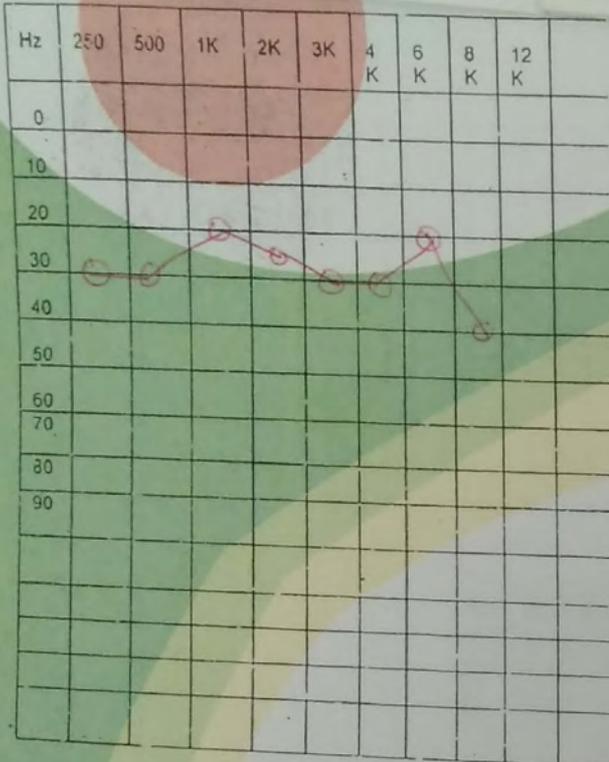
40

Singh Shivaji Age: -51/m

503107

0.16-20Hz 25.0 mm/s 10.0 mm/mV

MAC600 1.02 12SL™ v239



Remarks:

Mild LOTS (bilateral)

Test Done By:

SRL LIMITED
PRIME SQUARE BUILDING PLOT NO.1,
GAIWADI INDUSTRIAL ESTATE,
S V ROAD, NR. PATEL PETROL PUMP,
GOREGAON WEST,
TEL: 87801244

Signature:

DR. J. N. SHUKLA
M.B.B.S., A.F.I.C.
Reg. No. 51857

8/9/14
②
VIME/PME

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.

Certified that Shri/~~Shrimati~~ ^{Singh Shivaji} employed as Auto Electrician in Prism Cement
~~Limestone~~ mine, Form B.No. 24 has been examined for an initial/periodical*
medical examination. He/~~she~~ appears to be 46 years of age. The findings
of the examining authority are given in the attached sheet. It is considered that Shri
/~~Shrimati~~ Singh Shivaji

- *(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.



ng
he

Signature of examining authority

Name and Designation of Block Medical Officer

Dr. D.D. Mishra
Medical Center
Prism Cement Ltd.
Mankahari, SATNA (M.P.)
Civil Surgeon
Cum Chief Superintendent
Distt. Hospital, Satna

Place PCL
Date 05/09/2014

* 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

...ed in for every medical examination whether initial or periodical or re-
...on or after cure/control of disability).

Annexure to certificate No. as a result of medical examination on
.....

Identification mark.....

Left thumb impression of the candidate
.....



- 1. General development .
- 2. Height 166 Cms.
- 3. Weight 70 Kg.
- 4. Eyes :
 - (i) Visual acuity -Distant vision (with or without glasses)
Right eye *Normal*..... Left eye *Normal*.....
 - (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 *Normal*.....Left ear *Normal*.....
 - (ii) any organic disease *No*

- 6. Respiratory system :
Chest measurement
 - (i) after full inspiration 94 Cms.
 - (ii) after full expiration 101 Cms.

- 7. Circulatory system :
Blood pressure *130/80/74*
- Pulse *84*

- 8. Abdomen :- *Normal*
- Tenderness *No*
- Liver *No*
- Spleen *No*
- Lumbar *No*

- 9. Nervous system
History of fits or epilepsy
Paralysis
Mental Health *Normal*

- 10. Locomotor system
- 11. Skin *Normal*

- 12. Hernia *No*
- 13. Hydrocele *No*
- 14. Any other abnormality

15. Urine Reaction Albumin

16. Skingram of chest

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

18. Any opinion of specialist considered necessary

Dr. D.D. Mishra

Dr. D.D. Mishra

Medical Center

Signature of Examining Authority
Mankabari, SATNA (M.P.)

[Signature]

05/09/14

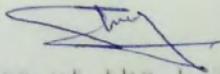
Place

FORM 32
Certificate of Fitness of Dangerous Operations
(Prescribed under Rule 107)
(Also prescribed under Rule 131)

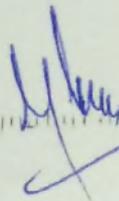
Counterfoil

1. Serial Number :
2. Name of the person : Shri Singh Shivaji
3. Father's Name : Shri Jhanni Singh
4. Sex : M
5. Address : Vill - Mansalgauj
P.O. - Gaugri
Distt - Firzabad (U.P.)
6. Name of the factory in which employed/ in which wishes to be employed : Prism Cement Limestone mine of m/s Prism Cement Ltd.
7. Process of department in which employed/wishes to be employed : Mines Deptt.
8. Whether certificate granted : Yes
9. Whether declared unfit and certificate refused : — H. A. —
10. Reference No. of previous certificate granted / refused : 2010

(Signature of the L.T.O. of person examined)



(Signature of Dr. D. B. Mishra)



Dr. D. B. Mishra

Medical Center

Prism Cement Ltd.

Mankatari, SATNA (M.P.)

Certificate

Serial No.

1. I certify that I have personally examined Mr. Singh Shivaji
(Name) Son of Shri Jhanni Singh (Father's) Name
residing at vill - Malsalganj, Po - Gangui
Dist. - Firozabad (U.P.)
(Address) who is desirous of being employed as Auto Electrician
Priem Cement (del Sahi (U.P.) (name of factory) in
Mining Dept., Department and Process), and that as
nearly as can be ascertained from my examination, is fit /
unfit for employed at the above noted factory.

2. He is fit to be employed and may be employed on some other
non hazardous operation such as

3. He may be produced for further examination after a period of

4. He is advised following further examination.

5. He is advised following treatment.

6. The serial number of the previous certificate is

(Signature of the L.T.T. of
person examined)

(Signature of certifying Surgeon)

Mankahri - Satna- M.P

Sample ID	10	Patient ID	
Name	Singh Shivaji	Sample Type	SERUM
Category	-	Collection Date	05-Sep-2014
Age	46 Year(s)	Reg. Date	05-Sep-2014
Ref. Dr	Dr D.D.Mishra - M.S (Ortho)		

Sr. Test	Result	Flag	Normal Range
1 UREA	NA mg/dl	LIN25	
2 GLUCOSE	94.4 mg/dl		
3 TRIGLYCERIDE	131 mg/dl		
4 CHOLESTEROL	141 mg/dl		
5 High Density Cholesterol	31.2 mg/dl	L	

Patient Remark

I/C Pathology

Completion Date 05-Sep-2014 14:19

CMO

FORM "O"

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

9/9/14
3
IME/PME

Certificate No.

Certified that Shri/Shrimati* employed as Devnarayan Gupta Diesel Mechanic in Prism Cement Limestone mine, Form B.No. 126 has been examined for an initial/periodical* medical examination. He/she appears to be 43 years of age. The findings of the examining authority are given in the attached sheet. It is considered that Shri /Shrimati Devnarayan Gupta

- *(a) is medically fit for any employment in mines.
 - *(b) is suffering from X and is medically unfit for
 - (i) any employment in mines
 - (ii) any employment below ground; or
 - (iii) any employment or work X
 - *(c) is suffering from X and should get this 'disability' cured/controlled and should be again examined within a period of X months.
- *He/she will appear for re-examination with the result of test of X and the opinion of X specialist from X. He/She* may be permitted/not permitted* to carry on his duties during this period.



Place POC 2
Date 09/09/2014

Signature of examining authority

Name and Designation in Block Letters
Dr. D.D. Mishra
Medical Center
Prism Cement Ltd.
Mankahari, SATNA (M.P.)
Civil Surgeon
Cum Chief Superintendent
Distt. Hospital Satna (M.P.)

* 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.

at examination whether initial or periodical or re-
of disability).

certificate No. as a result of medical examination on
.....

Identification mark.....

Left thumb impression of the candidate



1. General development .
2. Height 176 Cms.
3. Weight 65 Kg.
4. Eyes :
 - (i) Visual acuity -Distant vision (with or without glasses)
Right eye *Normal* Left eye *Normal*
 - (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 *Normal* Left ear *Normal*
 - (ii) any organic disease
6. Respiratory system :
Chest measurement
(i) after full inspiration 87 Cms.
(ii) after full expiration 92 Cms.
7. Circulatory system :
Blood pressure *No*
Pulse *80/110*
8. Abdomen : *82/110*
Tenderness *None*
Liver *40*
Spleen *None*
Lumbar *None*
9. Nervous system
History of fits or epilepsy *None*
Paralysis
Mental Health
10. Locomotor system *None*
11. Skin *None*
12. Hernia *No*
13. Hydrocele *No*
14. Any other abnormality
15. Urine - Reaction Albumin Sugar
16. Skingram of chest
17. Any other "v" tests considered necessary by the examining authority
18. Any opinion of specialist considered necessary

Place

[Signature]
 Dr. D.D. Mishra
 Medical Center
 Prism Cement Ltd.
 S. T. N. (N.P.)
 Camp Authority

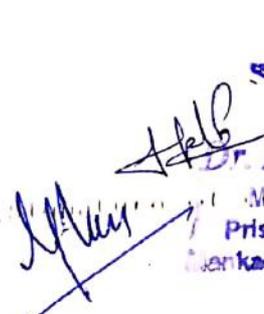
[Handwritten mark]

State of Fitness of Dangerous Operations
(Prescribed under Rule 107)
(Also prescribed under Rule 131)

Counterfoil

1. Serial Number :
2. Name of the person : Sh. Devtarajan Gupta
3. Father's Name : Sh. P. C. Gupta
4. Sex : M
5. Address : Vill - Kymore, Po - Kymore
Dist. Raipur (M.P.)
6. Name of the factory in which employed/ in which wishes to be employed : Prism Cement lime stone mine of Prism Cement Ltd
7. Process of department in which employed/wishes to be employed : Mines Deptt.
8. Whether certificate granted : Yes
9. Whether declared unfit and certificate refused : -
10. Reference No. of previous certificate granted / refused : 2005, 2010,

(Signature of the B.T.O. of person concerned)


Dr. D.D. Mishra
Medical Officer
Prism Cement Ltd
Barkhali, SATNA (M.P.)

Certificate

Serial No.

1. I certify that I have personally examined Mr. Deshrajaram Gupta
(Name) Son of Sh. P. C. Gupta (Father's) Name

residing at Vill + PO - Kymore
Distt - Raoni (M.P)

(Address) who is desirous of being employed as Mechanic
Prism Cement Ltd, Satna (M.P) (name of factory) in

Mining Department and Process), and that as
nearly as can be ascertained from my examination, is fit /
unfit for employed at the above noted factory.

2. He is fit to be employed and may be employed on some other
non-hazardous operation such as

3. He may be produced for further examination after a period of

4. He is advised following further examination.

5. He is advised following treatment.

6. The serial number of the previous certificate is 1

(Signature of the I.T.O. of
person examined)

(Signature of certifying Surgeon)

Narayan Gupta

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

Certificate No

Name:

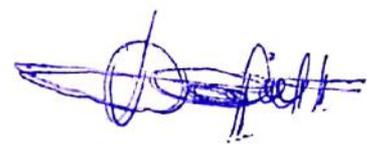
Identification Marks:

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FVC)	03.61	02.96	082
Forced Vital Capacity 1 FEV1	02.93	02.96	101
FEV1/FVC	81.16	100.00	123
Peak Expiratory Flow			

Test wnl

Spirometry Report enclosed



Dr. D.D. Mishra
Medical Center
Prism Cement Ltd
Barkhara, S.A. No. 3
Muzaffarpur, Bihar





Consent Order

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

RED-LARGE

CCA-Renewal

VALIDITY (A/W): 30/06/2020

CONSENT NO: ***

PCB ID: 13880

Outward No: 98539-13/05/2019
NO: /MPPCB/SAT

Consent No: AW-49942

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

Ref: Your Application Receipt No. 756471 Dt. 27/02/2019 and last communication received on Dt. 02/03/2019

With reference to your above application for consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant renewal of consent up to 30/06/2020, subject to the fulfillment of the terms & conditions incorporated in consent to operate for expansion issued vide order outward no. 55415 dt. 24.07.2017 & amended vide amendment Outward No: 87440 dated 22/10/2018, its subsequent renewal orders & as enclosed with this letter.

SUBJECT TO THE FOLLOWING CONDITIONS :-

- Location:** Village-Mankahari, P.O. Bathia, Tehsil-Rampur Baghelan, Distt Satna- 485111 (M.P.)
- The capital investment in lakhs:** Rs. 112600
- 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

Note:- For any change in above industry shall obtain fresh consent from the board.

The Validity of the consent is up to 30/06/2020 and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

Enclosures:-

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



e-Signed On 13/05/2019 16:12:16
(Organic Authentication on AADHAR from UIDAI Server)
TPAV # G5TVBO5BPY

ACHYUT ANAND MISHRA
Member Secretary



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 sewage generation shall not exceed 185.000 KL/day

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

S.No.	Water Code (Qty. in klpd)	WC : 1440.000	WWG : 185.000	Water Source
1	Cooling Water	1000.000	0.000	Other
2	Domestic Purpose	290.000	200.000	Bore well

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

4. Water meter preferably electromagnetic/ultrasonic type with digital flow recording facilities shall be installed separately for category wise consumption of water for Industrial cooling/boiler feed, mine spray, process & domestic purposes and data shall be submitted online through XGN monthly patrak/statements. The industry/unit shall also monitor the treated wastewater flow and report the same online through monthly patrak/statements.

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

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

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

8. Compilation of Monitoring-

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

9. Recording of Monitoring-

- The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.
- The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:

- The date, exact place and time of sampling
- The dates on which analysis were performed
- Who performed the analysis?
- The analytical techniques or methods used and

Consent No:AW-49942



(v)The result of all required analysis

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

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

10. Reporting of Monitoring Results:-

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

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

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relive the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

12. 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.

13. Prohibition of bypass system-

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

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

14. Industry shall submit the information online through XGN in reference to compliance of consent conditions.

Additional Water condition:

Storm water shall not be allowed to mix with effluent, treated sewage or floor washing. Storm water shall be channelized through separate drain(S) as per natural gradient passing through lined pits each having holding capacity of 10 minutes (Hourly average) of rain fall for its catchment area.



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

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

Name of section	Stack height (mtrs.)	Fuel	Control equipment to be installed	P.M, SO _x , NO _x (mg/Nm ³)
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/Pet	Bag Filter,	30,100,800

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 (PM_{2.5} 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. Industry/Unit shall provide with each stack port hole with safe platform of 1 meter width with support & spiral ladder/ Stepped ladder with hand rail up to monitoring platform as per specifications given in part-III emission regulation of CPCB. In no case monkey ladder shall be allowed as stack monitoring facility.

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

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

7. The industry/ unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises

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

9. 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 as stated in additional condition

10. 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.

Additional Air condition:

- The continuous online monitoring system with all emission sources shall 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 provide 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. –60 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 comply with the monitoring protocol as decided by the CPCB for the use of co-processing and use of AFR.
- 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. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

Non Hazardous Solid wastes:-

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

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

- To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- 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.
- To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
- To sample at reasonable times any discharge or pollutants.

3. This consent/authorisation is transferable, in case of change of ownership/management and addresses of new Owner/partner/Directors/proprietor should immediately apply for the same.

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. Industry shall install separate electric metering arrangement for running of pollution control devices and this arrangement shall be made in such fashion that any non functioning of pollution control devices shall immediately stop electric supply to the production and shall remain tripped till such time unless the pollution control device/devices are made functional. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month

6. 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.

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

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

9. 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.

10. Industry shall obtain membership of Emergency Response Center of the Board if needed.

11. 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 Water Act or the Air Act.

12. 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 :

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

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

Consent No:AW-49942



Consent Order

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

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/authorization 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/authorisation. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.

For and on behalf of
M.P. Pollution Control Board

(Member Secretary)



e-Signed On 13/05/2019 16:12:16
(Organic Authentication on AADHAR from UIDAI Server)
TPAV # G5TVB05BPY

ACHYUT ANAND MISHRA
Member Secretary

Consent No:AW-49942

Annexure 10

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)

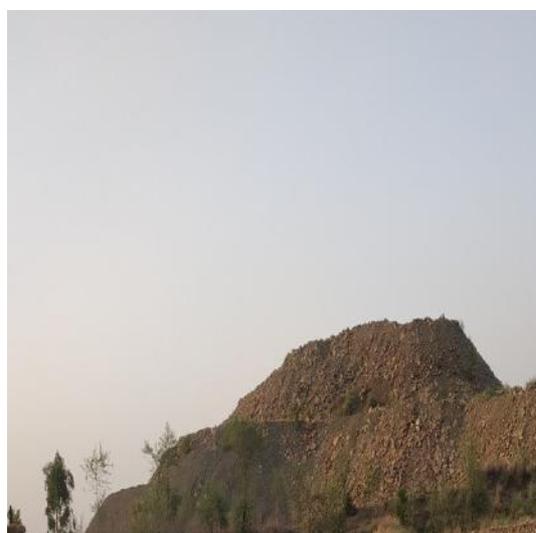
Present Dumps status

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
Stony 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

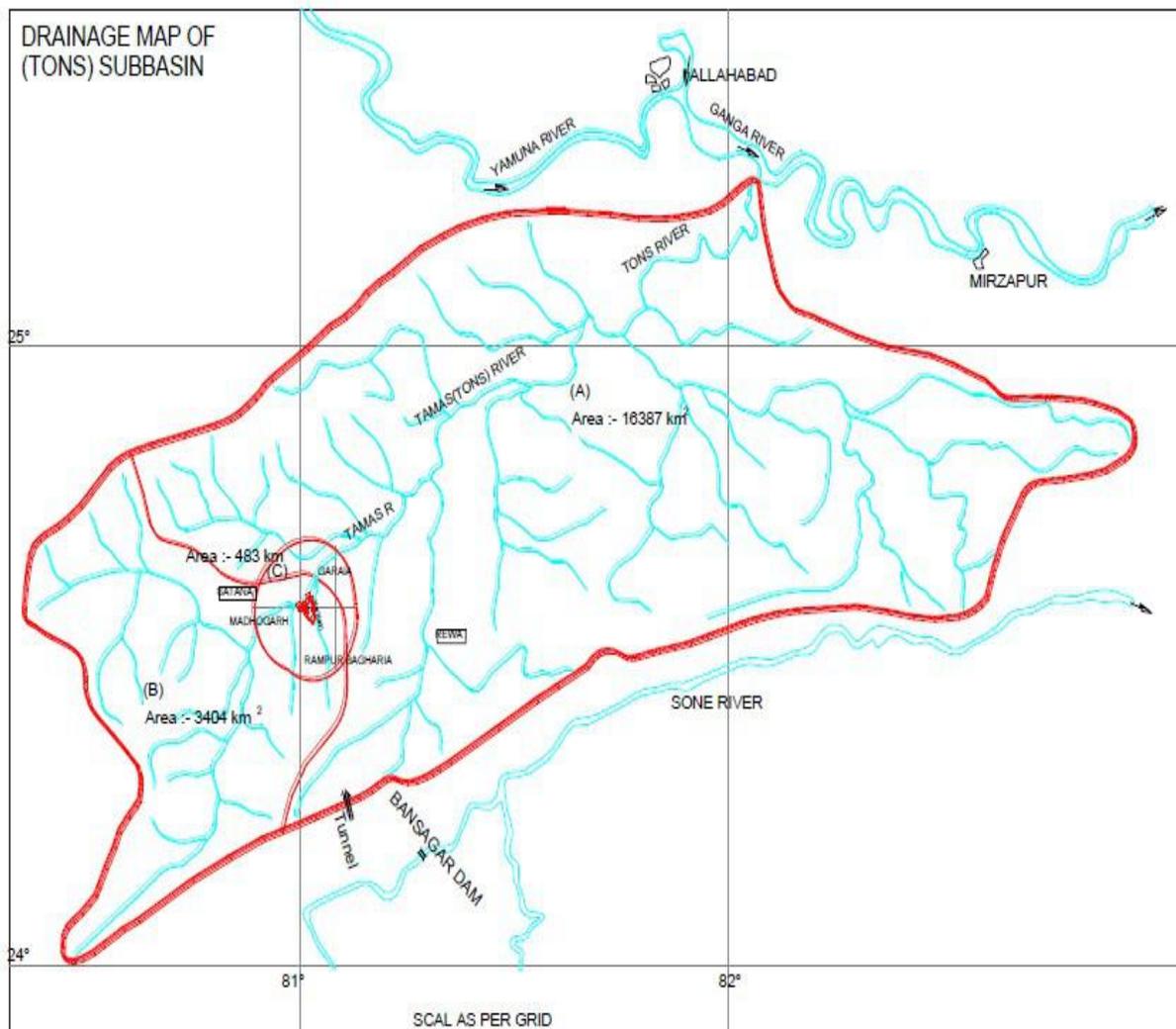


FIGURE-3

DRAINAGE MAP OF BUFFER ZONE

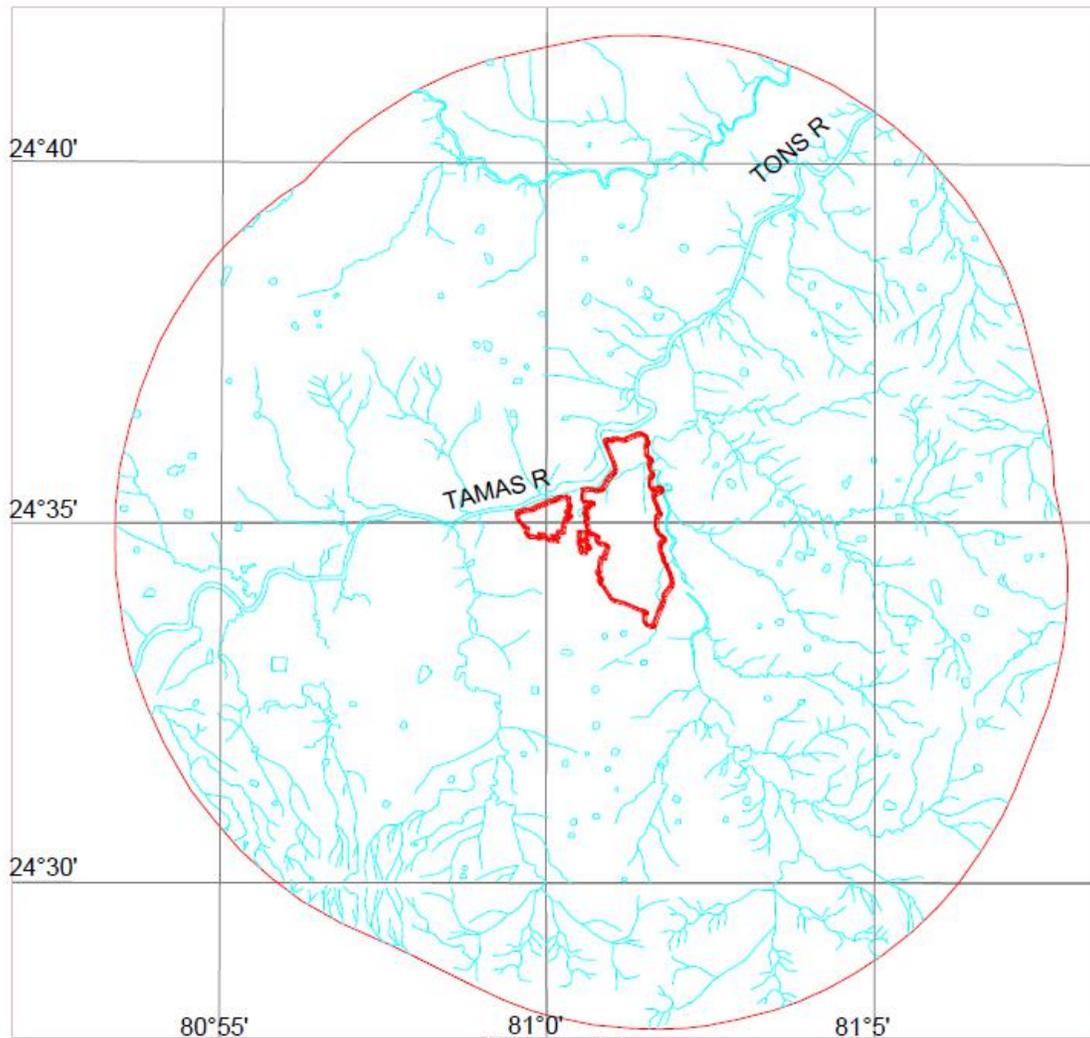


Figure 1.3

4. HYDROMETEROLOGY:

Madhya Pradesh state is situated within 18° N to 25° N and 74° E to 82° 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.

4.1 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

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 or 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	10 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 our 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.

6. CONCLUSION AND REOCMMENDATION:

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 healthy.

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	<p>a) Priority to employment for eligible persons</p> <p>b) Construction of Stadium in the ground of Higher Secondary School</p> <p>c) Permanent water & electricity supply in school</p> <p>d) Admission for village children to Prism Bhawan School</p> <p>e) To & fro School Bus facility to Satna for the students of villages</p> <p>f) Distribution of sports material to Panchayat</p>	<p>Employment will be granted as per rules and regulations of company</p> <p>Action will be taken</p> <p>Adequate action will be taken</p> <p>Admission will be granted as per rules and regulation of company</p> <p>Provision for proper facilities will be considered</p> <p>Adequate action will be taken</p>	<p>Employment is being given to eligible persons as per rules framed by the company</p> <p>Play ground has been rehabilitated. Maintenance is done as per requirement.</p> <p>Water & Electricity supply are available at school</p> <p>Admissions is being given to village students as per availability of seats</p> <p>School bus service has been provided to students of villages for commuting to Satna Study and sports materials are being distributed to village students</p>
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	<p>All due provisions have been made to combat pollution likely to be caused.</p> <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

				<p>all the transfer points</p> <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	<p>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.</p> <p>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.</p> <p>Employment is also being given as</p>

				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. Saplings 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. Saplings 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.

Record of various health programmes and peoples benefitted.

SR	ACTIVITY	PLANNED	STATUS	NO. OF BENEFICEARIES
1	Free consultation & medicine distribution from PJJL medical centre Out Door Patient	Free consultation & medicines distribution from PJJL medical centre Out Door Patient to nearby villagers (Approx. 15000 patients)	Attended 22496 patients from Apr - 18 to Mar -19	22496
2	Mobile health van visit to nearby villages	Visit by Mobile health van to nearby villages on weekly basis with providing free medical services like doctor & medicines distribution	Attended 890 patients from Apr - 18 to Mar -19	890
3	Ambulance service to villagers	24 hrs ambulance facility will be provided to nearby villagers free of cost. (Approx. 2000 patients)	Attended 2283 patients from Apr - 18 to Mar -19	2283
4	Operation of Sulabh Complex	Operation & maintenance of Sulabh Complex at Mahurachh turning (12 months)	Completed for this year	36500 @ 100/day/annum
5	Cataract Surgery	Organization cataract surgery camp for cataract patients from nearby villages (20 Nos.)	Completed on 07.02.2019. 20 patients benefitted	20
6	Drivers eye and health check up camp	General medical health check up as well as eye checkup camp at PPS Yard for truck drivers.	Camp organized from 20.08.2018 to 22.08.2018. attended 480 patients. Free spectacles are provided to 140 drivers.	480
7	School student health	School student health check up at Government Middle	Completed in Sep 18. Benefitted 60	60

	check-up	School Mankahari	students	
8	School student health check-up	School student health check up at Government Middle School Hinauti	Completed in Oct 18. Benefitted 65 students	65
9	School student health check-up	School student health check up at Government Middle School Sijahata	Completed in Jan-19 benefitted 60 students	60
10	School student health check-up	School student health check up at Government Primary School Malgaon	Completed in Feb - 19. Benefitted 15 students	15
11	School student health check-up	School student health check up at Government Middle School Baghai	Completed in Feb - 19. Benefitted 45 students	45
12	Construction of ODF toilet at Hinauti	Construction of 10 no ODF toilet at Hinauti	Completed in Nov 2018. 10 nos. toilet constructed	10 Family
13	Construction of ODF toilet at Sijahata	Construction of 10 no ODF toilet at Sijahata	Completed in Jan-19. 10 nos. toilet constructed	10 Family
14	Repairing of toilet	Repairing of toilet at govt middle school Baghai (Remaining Work)	Completed Dec-18	130 students
15	Mega Medical Camp	Organization of mega medical camp at Hinauti village	Completed. Mega medical camp held at Hinauti village on 27.10.2018 tended 351 patients	351
16	Mega Medical Camp	Organization of mega medical camp at Narsinghpur village	Completed. Mega medical camp held at Narsinghpur village on 24.11.2018 tended 309 patients	309
17	Mega Medical	Organization of mega medical camp at	Completed. Mega medical	507

	Camp	Bairiha village	camp held at Bairiha village on 29.12.2018 tended 507 patients	
18	Mega Medical Camp	Organization of mega medical camp at Majhiyar village	Completed. Mega medical Camp held at Majhiyar village on 02.02.2019 tended 426 patients	426
19	Mega Medical Camp	Organization of mega medical camp at MahurachhKandaila village	Completed. Mega medical Camp held at MahurachhKandaila village on 16.03.2019 tended 304 patients	304

PRISM JHONSON LIMITED
CSR ACTIVITIES SUMMARY FY 2018-19

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
INFRASTRUCTURE DEVELOPMENT (CSR ACT SCHEDULE VII - X)				
1	Construction of WBM road from Pithaipur Main road to Jabla Baba Ashram Hinauti (Approx 500 mtrs)	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Hinauti	0.88
2	Repairing of Hinauti - Bandarkha WBM road (Approx. 1.3 KM)	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Hinauti	1.38
3	Development of river embankment steps and platform near Jabla Baba Ashram Hinauti	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Hinauti	4.61
4	Construction of bus shelter at village Baghai (Medhi)	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Sijahata	2.02
5	Construction of bus shelter at village Mankahari	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Mankahari	1.90
6	Construction of balance part (162 M) of Mankahari Chhibaura road in front of state bank of India Branch Mankahari	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Bathiya	25.96
7	Construction of cremation shed at village Bamhauri	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Bathiya	3.99
8	Construction of cremation shed at village Tapa	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Tapa	3.92
9	Construction of cremation shed at Chulhi village	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Chulhi	1.76
10	WBM road repairing at Hinauti village	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Hinauti	0.61

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
11	WBM road repairing at Mankahari village	Rural Infrastructure Development Schedule VII (X)	Gram Panchayat Mankahari	0.61
				47.63
HEALTH & HYGIENE (Health & Hygiene Schedule VII (i))				
12	Organization of mega medical camp at village Hinauti tended 351 patients	Health & Hygiene Schedule VII (i)	Gram Panchayat Hinauti	0.68
13	Organization of mega medical camp at village Narsinghpur tended 309 pts	Health & Hygiene Schedule VII (i)	Gram Panchayat Narsinghpur	0.59
14	Organization of mega medical camp at village Bairiha tended 507 patients	Health & Hygiene Schedule VII (i)	Gram Panchayat Bairiha	0.63
15	Organization of mega medical camp at village Malgaon tended 426 patients	Health & Hygiene Schedule VII (i)	Gram Panchayat Malgaon	0.62
16	Organization of mega medical camp at village Mahurachh tended 304 patients	Health & Hygiene Schedule VII (i)	Gram Panchayat Mahurachh	0.60
17	Visit by Mobile health van to nearby villages on weekly basis with providing free medical services tended 890 pts	Health & Hygiene Schedule VII (i)	Nearby Gram Panchayat	8.45
18	Free consultation & medicines distribution from PCL Medical centre Out door patient to nearby villagers (Benefitted 22496 patients)	Health & Hygiene Schedule VII (i)	Nearby Gram Panchayat	
19	Organization eye Camp for cataract patients from nearby villages (20 Nos.)	Health & Hygiene Schedule VII (i)	Nearby Gram Panchayat	1.66

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
20	24 hrs ambulance facility will be provided to nearby villagers free of cost. (tended 2283 patients)	Health & Hygiene Schedule VII (i)	Nearby Panchayat Gram	7.54
21	School student health check up at Government Middle School Mankahari covers 60 students	Health & Hygiene Schedule VII (i)	Gram Panchayat Mankahari	0.02

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
22	School student health check up at Government Middle School Hinauti covers 65 students	Health & Hygiene Schedule VII (i)	Gram Panchayat Hinauti	0.02
23	School student health check up at Government Primary School Malgaon covers 15 students	Health & Hygiene Schedule VII (i)	Gram Panchayat Malgaon	0.02
24	School student health check up at Government Middle School Sijahata covers 60 students	Health & Hygiene Schedule VII (i)	Gram Panchayat Sijahata	0.02
25	School student health check up at Government Middle School Baghai covers 45 students	Health & Hygiene Schedule VII (i)	Gram Panchayat Baghai	0.02
26	Construction, Repairing & Maintenance of ODF Toilets at Village Sijahata & Hinauti (20 nos.)	Health & Hygiene Schedule VII (i)	Gram Panchayat Hinauti and Sijahata	5.09
27	Operation & Maintenance of Sulabh Complex at Mahurachh Turning (12 months)	Health & Hygiene Schedule VII (i)	Gram Panchayat Mahurachh	0.30
28	Construction of 138 ODF Toilet at Baghai (15 nos constructed in FY 2018-19)	Health & Hygiene Schedule VII (i) (Swacch Bharat Abhiyaan)	Gram Panchayat Baghai	3.66
29	Repairing of toilet at Govt Middle School Baghai	Health & Hygiene Schedule VII (i) (Swacch Bharat Abhiyaan)	Gram Panchayat Baghai	0.49
				30.42
EDUCATION (Promoting Education Schedule VII (ii))				
30	To create awareness and motivation amongst the local villagers pertaining to health (AIDS & TB) & hygiene, education, self reliance, empowerment and other themes through wall paintings and slogans writing. (300 nos.)	Promoting Education Schedule VII (ii)	Nearby Gram Panchayat	1.08
31	Repairing, maintenance and white wash of Government Primary & Middle School building at Mankahari	Promoting Education Schedule VII (ii)	Gram Panchayat Mankahari	2.52

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
32	White wash of Government Middle School Baghai	Promoting Education Schedule VII (ii)	Gram Panchayat Baghai	2.25
33	Renovation of Government High School Bairiha	Promoting Education Schedule VII (ii)	Gram Panchayat Bairiha	1.25
34	Repairing and white wash of Government Middle School Hinauti (Extra Room)	Promoting Education Schedule VII (ii)	Gram Panchayat Hinauti	0.96
35	Electrical fitting at Government Middle School Mankahari	Promoting Education Schedule VII (ii)	Gram Panchayat Mankahari	0.48
36	Electrical fitting at Government Middle School Hinauti	Promoting Education Schedule VII (ii)	Gram Panchayat Hinauti	0.17
37	Electrical fitting at of Government Higher Secondary School Sijahata	Promoting Education Schedule VII (ii)	Gram Panchayat Sijahata	0.63
38	Provides 05 nos Dari & 31 Desk table to Government Middle school Mankahari	Promoting Education Schedule VII (ii)	Gram Panchayat Mankahari	1.71
39	Distributed Uniform to 103 student of Government Middle school Mankahari	Promoting Education Schedule VII (ii)	Gram Panchayat Mankahari	0.74
40	Provides 140 Desk table to Government Higher Secondary school Sijahata	Promoting Education Schedule VII (ii)	Gram Panchayat Sijahata	5.57
41	Create a public library at Rampur Baghelan college (06 almirah and 179 books)	Promoting Education Schedule VII (ii)	Rampur Baghelan	0.87
42	Sitting Arrangement at Bal Niketan Junior Girls school Kanpur (200 chairs)	Promoting Education Schedule VII (ii)	Kanpur	3.80
43	Leveling of ground infront of Govt. Middle School Hinauti	Promoting Education Schedule VII (ii)	Hinauti	0.35
				22.37
ENVIRONMENT CONSERVATION (Environment Conservation Schedule VII (iv))				
44	Installation of 100 tree guards with plants in nearby villages (From July to Oct)	Environment Conservation Schedule VII (iv)	Nearby Gram Panchayat	1.14

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
45	Survival & Maintenance of plantation at Sijahata & Baghai (73150 plants)	Environment Conservation Schedule VII (iv)	Gram Panchayat Sijahata and Baghai	16.51
46	Distribution of fruit plant saplings and plantation at Nearby villages (2000 Plants Between July to Oct)	Environment Conservation Schedule VII (iv)	Nearby Gram Panchayat	0.21

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
47	Construction of 10 water harvesting structures at Mahurachh, Bathiya, Narsinghpur & Bamhauri villages	Conservation of Natural Resources Schedule VII (iv)	Gram Panchayat Sijahata, Mahurachh, Narsinghpur	3.53
48	Deepening of Ponds at Mankahari (15783.3 cumm) and Bamhauri (9551 cumm) village with hume pipe and ground water recharge system	Health & Hygiene Schedule VII (i)	Gram Panchayat Mankahari & Bathiya	41.06
49	Construction of ground water recharge system at Narsinghpur pond	Conservation of Natural Resources Schedule VII (iv)	Gram Panchayat Narsinghpur	0.59
50	Repairing of existing check dam at Karmau village	Conservation of Natural Resources Schedule VII (iv)	Gram Panchayat Karmau	2.53
51	Plantation in Mankahari pond, Bamhuari Pond and Hinauti road side (11000 plants)	Environment Conservation Schedule VII (iv)	Gram Panchayat Mankahari, Bathiya and Hinauti	3.96
52	Construction of Check Dam with Reservoir at village Baghai (Continue Work From FY 17-18)	Health & Hygiene Schedule VII (i)	Gram Panchayat Baghai	33.50
53	Installation of 100 tree guards with plants in nearby villages (Work left by old Vendor. Only 50 nos. Tree guards are supplied and installed)	Environment Conservation Schedule VII (iv)	Nearby Gram Panchayat	0.61
				103.64
WATER CONSERVATION & DRINKING WATER (Health & Hygiene Schedule VII (i))				
54	Providing water Tankers for drinking purpose as required (230 tankers)	Health & Hygiene Schedule VII (i)	Nearby Gram Panchayat	3.06
55	Operation of water Hut in summer Season at Mahurachh turning (From Apr to June)	Health & Hygiene Schedule VII (i)	Gram Panchayat Mahurachh	0.24
56	Operation of water Hut in summer Season at Hinauti Turning (Apr to June)	Health & Hygiene Schedule VII (i)	Gram Panchayat Hinauti	0.20

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
57	Installation of new Hand pump with bore well at Bamhauri	Health & Hygiene Schedule VII (i)	Gram Panchayat Bathiya	0.48
58	Installation of new Hand pump with bore well at Mahurachh	Health & Hygiene Schedule VII (i)	Gram Panchayat Mahurachh	0.54

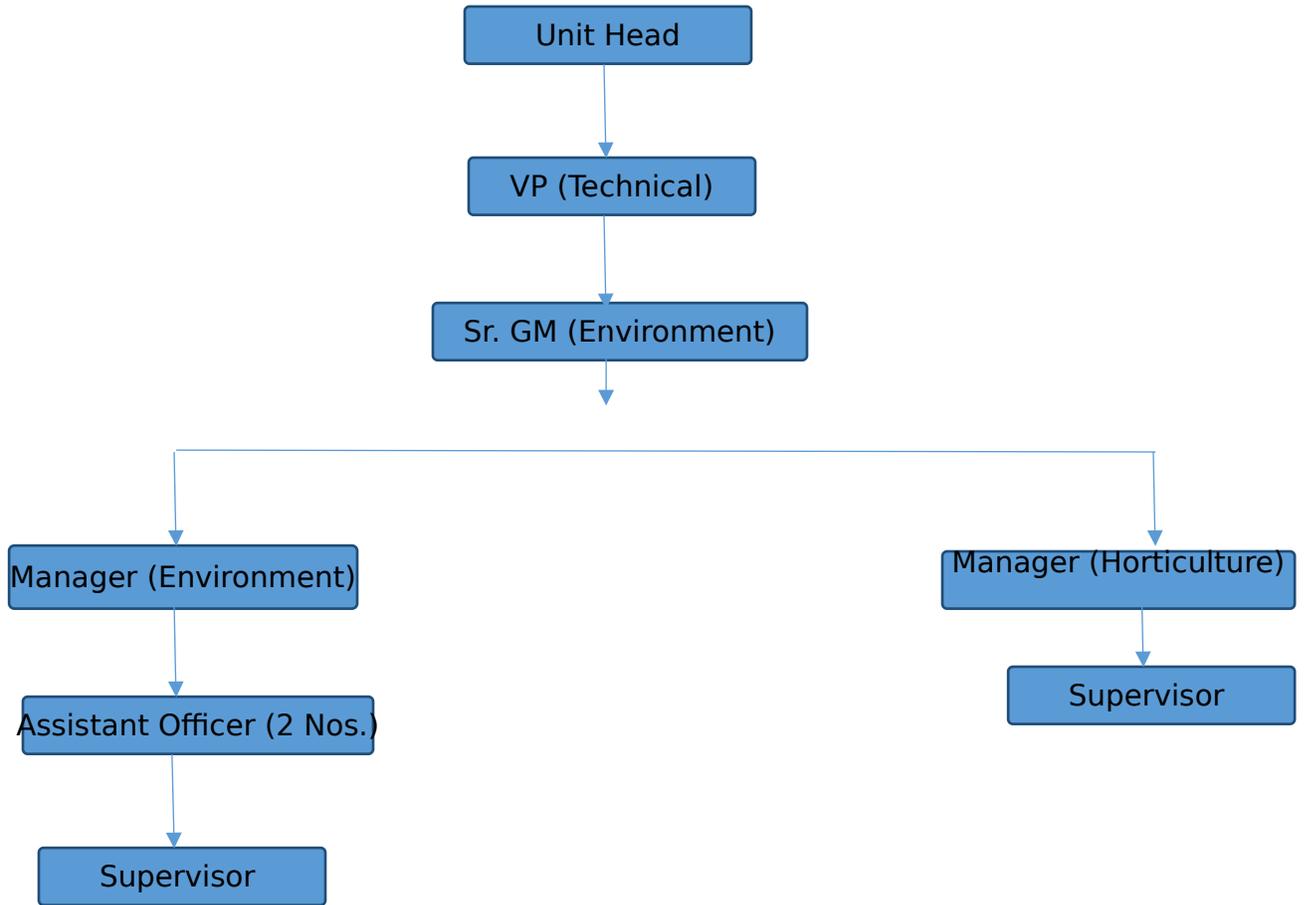
Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
59	Installation of new Hand pump with bore well Medhi	Health & Hygiene Schedule VII (i)	Gram Panchayat Sijahata	0.49
60	Installation of new Hand pump with bore well Pithaipur	Health & Hygiene Schedule VII (i)	Gram Panchayat Hinauti	0.42
61	Installation of submersible pump with bore well drilling and construction of pump house (01 Nos.)	Safe Drinking Water Schedule VII (i)	Gram Panchayat Baghai	1.07
				6.51
EMPOWERMENT & SKILL DEVELOPMENT Vocational Skill Development Schedule VII (ii)				
62	Training program for driver for at least 25 male persons (01 Batch)	Vocational Skill Development Schedule VII (ii)	Nearby Gram Panchayat	0.58
63	Training program for driving trainees extra batch in place of mobile repairing training for 30 persons (01 Batch)	Vocational Skill Development Schedule VII (ii)	Nearby Gram Panchayat	0.68
64	Training program for Beautician for 25 females from nearby villages. (01 Batch)	Vocational Skill Development Schedule VII (ii)	Nearby Gram Panchayat	1.00
65	Training program for Stitching for 25 females from nearby villages. (01 Batch)	Vocational Skill Development Schedule VII (ii)	Nearby Gram Panchayat	2.18
66	Training program for farmers from nearby villages (60 farmers from nearby villages)	Vocational Skill Development Schedule VII (ii)	Nearby Gram Panchayat	0.81
67	120 hrs computer training to 30 students and youth from nearby villages	Vocational Skill Development Schedule VII (ii)	Nearby Gram Panchayat	1.50
				6.73
PROMOTION OF SPORT ACTIVITIES (Promotion of Sports Schedule VII (vii))				

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
68	Construction of Boundary wall at Playground Mankahari village road side (110 meter)	Promotion of Sports Schedule VII (vii)	Gram Panchayat Mankahari	5.82
69	Organise Solar Car Race (Indo Asian Solar Challenge 18 from 06.04.2018 to 09.04.2018)	Promotion of Sports Schedule VII (vii)	Hinauti	1.50
70	Assistance to Independence football tournament Nagod	Promotion of Sports Schedule VII (vii)	Nagod	0.75

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
71	Assistance to District Amateur Kabaddi Association Satna	Promotion of Sports Schedule VII (vii)	Babupur	1.50
72	Sponsor Late Brijendra Singh Memorial Cricket Tournament Mankahari	Promotion of Sports Schedule VII (vii)	Mankahari	0.44
73	Sponsor Sijahata Cricket League Tournament	Promotion of Sports Schedule VII (vii)	Sijahata	0.30
74	Cleaning of Sijahata ckt playground	Promotion of Sports Schedule VII (vii)	Sijahata	0.25
75	Cleaning of Mankahari ckt playground	Promotion of Sports Schedule VII (vii)	Mankahari	0.13
				10.69
SOCIAL WELFARE Social Welfare Schedule VII (iii)				
76	Contribution for samuh Bhoj at Khambha Baba	Social Welfare Schedule VII (viii)	Khambha Baba	0.21
77	Contribution for samuh Bhoj at Jabla Baba	Social Welfare Schedule VII (viii)	Jabla Baba	0.40
78	Contribution to Yadav Mahasabha	Social Welfare Schedule VII (viii)	Ramvan	0.11
79	Contribution for samuh Bhoj at Ramvan	Social Welfare Schedule VII (viii)	Ramvan	0.50
80	Financial assistance for organiging Kavi Sammelan "Kirtiman" Maihar	Social Welfare Schedule VII (viii)	Maihar	0.08
81	Flex Hoarding on World Environment Day	Social Welfare Schedule VII (viii)	Satna	0.10
82	Provided submersible motor to Mankahari Gram Panchayat	Social Welfare Schedule VII (viii)	Mankahari	0.31
83	Installation of Inverter at Tehsildar Office Rampur Baghelan for public welfare	Social Welfare Schedule VII (viii)	Rampur Baghelan	0.28
84	Contribution for Armed forces flag day	Social Welfare Schedule VII (viii)	Satna	0.51

Sl.No	CSR project or activity Identified.	Sector in which the project is covered	Location	Amount spent on the projects or programs (Rs. In Lacs)
85	Distribution of Innerwear to central Jail Prisoners	Social Welfare Schedule VII (viii)	Satna	0.24
86	Contribution to Deen Dayal Research Institute	Social Welfare Schedule VII (viii)	Chitrakoot	3.00
87	Contribution to Goshala Basaman Mama for animal welfare.	Social Welfare Schedule VII (viii)	Basaman Mama	5.00
88	Contribution to Dr. Lalta Prasad Khare Public Charitable Trust	Social Welfare Schedule VII (viii)	Satna	4.50
				15.24
				243.24

Environment Management Cell



कार्यालय कलेक्टर, (खनिज शाखा) जिला- सतना

क्रमांक 1715...../क/खनिज/2018/

सतना दि० 13/6/2018

प्रति,

मेसर्स प्रिज्म जॉनसन लिमिटेड,
ग्राम मनकहरी पो.बठिया,
जिला सतना (म०प्र०)

विषय:-Authentication of DGPS Survey/Geo-referencing cadastral maps of Hinauti Mining Lease Area 253.326 Hect..village- Hinauti Distt, satna (M.P.)

सन्दर्भ:-आपका पत्र क्रमांक निरंक दिनांक 04.04.2018 प्राप्त दिनांक 17.05.2018 ।

उपरोक्त विषयांतर्गत संदर्भित पत्र के तारतम्य में लेख है कि आपको ग्राम Hinauti Distt.Satna के कुल 253.326 हे. क्षेत्र पर स्वीकृत चूनापत्थर क्षेत्र का Soham Fero Magnese PVT.LTD.द्वारा डी.जी. पी.एस. सर्वे किये जाने के उपरांत संबंधित ऐजेन्सी द्वारा Geo referencing Cadastral maps पर प्रमाणन किया गया है उक्त मेप पर प्रमाणीकरण उपरांत एक प्रति प्रदान किया जा रहा है।

संलग्न:- उपरोक्तानुसार

Mining Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा

वास्ते कलेक्टर सतना
सतना दि० 13/6/2018

पृ० क्रमांक -/क/खनिज/2018

प्रतिलिपि:-

1- Soham Fero magnese PVT.LTD.वर्धा रोड नागपुर महाराष्ट्र की ओर सूचनार्थ प्रेषित।

Mining Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा

वास्ते कलेक्टर सतना

कार्यालय कलेक्टर, (खनिज शाखा) जिला- सतना

क्रमांक 3698 / क / खनिज / 2018 /

सतना दि 26/9/2018

प्रति,

मेसर्स प्रिज्म जॉनसन लिमिटेड,
ग्राम मनकहरी पो.बठिया,
जिला सतना (म0प्र0)

विषय:-Authentication of DGPS Survey/Geo-referencing cadastral maps of Bagahai Mining Lease Area 512.317 Hect..village- Bagahai Post Bathiya Distt, satna (M.P.)

सन्दर्भ:-आपका पत्र क्रमांक निरंक दिनांक 12/6/2018।

उपरोक्त विषयांतर्गत संदर्भित पत्र के तारतम्य में लेख है कि आपको ग्राम Bagahai Post Bathiya Distt.Satna के कुल 512.317 हे. क्षेत्र पर स्वीकृत चूनापत्थर क्षेत्र का Soham Fero Magnese PVT.LTD.द्वारा डी.जी.पी.एस. सर्वे किये जाने के उपरांत संबंधित एजेन्सी द्वारा Geo referencing Cadastral maps पर प्रमाणन किया गया है उक्त मेप पर प्रमाणीकरण उपरांत एक प्रति प्रदान किया जा रहा है।

संलग्न:- उपरोक्तानुसार

पू0 क्रमांक - / क / खनिज / 2018

वास्ते कलेक्टर सतना
सतना दि 26/9/2018

प्रतिलिपि:-

1- Soham Fero magnese PVT.LTD.वर्धा रोड नागपुर महाराष्ट्र की ओर सूचनार्थ प्रेषित।

Mineral Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा
वास्ते कलेक्टर सतना

कार्यालय कलेक्टर, (खनिज शाखा) जिला- सतना

क्रमांक 3701 / क / खनिज / 2018 /

सतना दि 26/9/2018

प्रति,

मेसर्स प्रिज्म जॉनसन लिमिटेड,
ग्राम मनकहरी पो.बठिया,
जिला सतना (म0प्र0)

विषय:-Authentication of DGPS Survey/Geo-referencing cadastral maps of Bagahai Mining Lease Area 40.236 Hect..village- Bandarkha Distt, satna (M.P.)

सन्दर्भ:-आपका पत्र क्रमांक निरंक दिनांक 23.07.2018 प्राप्त दिनांक 23.09.2018।

उपरोक्त विषयांतर्गत संदर्भित पत्र के तारतम्य में लेख है कि आपको ग्राम Bandarkha Distt.Satna के कुल 40.236 हे. क्षेत्र पर स्वीकृत चूनापत्थर क्षेत्र का Soham Fero Magnese PVT.LTD.द्वारा डी.जी.पी.एस. सर्वे किये जाने के उपरांत संबंधित एजेन्सी द्वारा Geo referencing Cadastral maps पर प्रमाणन किया गया है उक्त मेप पर प्रमाणीकरण उपरांत एक प्रति प्रदान किया जा रहा है।

संलग्न:- उपरोक्तानुसार

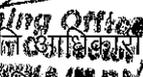

Mining Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा

वास्ते कलेक्टर सतना
सतना दि 26/9/2018

पृ0 क्रमांक - / क / खनिज / 2018

प्रतिलिपि:-

1- Soham Fero magnese PVT.LTD.वर्धा रोड नागपुर महाराष्ट्र की ओर सूचनार्थ प्रेषित।


Mining Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा

वास्ते कलेक्टर सतना

कार्यालय कलेक्टर, (खनिज शाखा) जिला- सतना

क्रमांक 3699 / क / खनिज / 2018 /

सतना दि० 26/9/2018

प्रति,

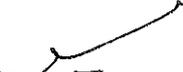
मेसर्स प्रिज्म जॉनसन लिमिटेड,
ग्राम मनकहरी पो.बठिया,
जिला सतना (म०प्र०)

विषय:—Authentication of DGPS Survey/Geo-referencing cadastral maps of Hinouti Mining Lease Area 99.416 Hect. village- Hinouti Distt, satna (M.P.)

सन्दर्भ:—आपका पत्र क्रमांक निरंक दिनांक 23.07.2018 प्राप्त दिनांक 23.07.2018।

उपरोक्त विषयांतर्गत संदर्भित पत्र के तारतम्य में लेख है कि आपको ग्राम Hinouti Distt.Satna के कुल 99.416 हे. क्षेत्र पर स्वीकृत चूनापत्थर क्षेत्र का Soham Fero Magnese PVT.LTD.द्वारा डी.जी.पी. एस. सर्वे किये जाने के उपरांत संबंधित ऐजेन्सी द्वारा Geo referencing Cadastral maps पर प्रमाणन किया गया है उक्त मेप पर प्रमाणीकरण उपरांत एक प्रति प्रदान किया जा रहा है।

संलग्न:— उपरोक्तानुसार


Mining Officer
For Collector
Satna (M.P.)

वास्ते कलेक्टर सतना
सतना दि० 26/9/2018

पृ० क्रमांक - / क / खनिज / 2018

प्रतिलिपि:—

1- Soham Fero magnese PVT.LTD.वर्धा रोड नागपुर महाराष्ट्र की ओर सूचनार्थ प्रेषित।


Mining Officer
For Collector
Satna (M.P.)

वास्ते कलेक्टर सतना

कार्यालय कलेक्टर, (खनिज शाखा) जिला- सतना

क्रमांक. 1714 / क / खनिज / 2018 /

सतना दि 03/6/2018

प्रति,

मेसर्स प्रिज्म जॉनसन लिमिटेड,
ग्राम मनकहरी पो.बठिया,
जिला सतना (म0प्र0)

विषय:- Authentication of DGPS Survey/Geo-referencing cadastral maps of Hinauti Mining Lease Area 772.067 Hect..village- Hinauti Distt, satna (M.P.)

सन्दर्भ:-आपका पत्र क्रमांक निरंक दिनांक 04.04.2018 प्राप्त दिनांक 17.05.2018 ।

उपरोक्त विषयांतर्गत संदर्भित पत्र के तारतम्य में लेख है कि आपको ग्राम Hinauti Distt.Satna के कुल 772.067 हे. क्षेत्र पर स्वीकृत चूनापत्थर क्षेत्र का Soham Fero Magnese PVT.LTD.द्वारा डी.जी. पी.एस. सर्वे किये जाने के उपरांत संबंधित एजेन्सी द्वारा Geo referencing Cadastral maps पर प्रमाणन किया गया है उक्त मेप पर प्रमाणीकरण उपरांत एक प्रति प्रदान किया जा रहा है।

संलग्न:- उपरोक्तानुसार

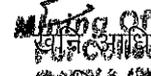

Mining Officer
खनिज अधिकारी
सतना (म.प्र.)
खनिज शाखा

वास्ते कलेक्टर सतना
सतना दि 03/6/2018

पू0 क्रमांक - / क / खनिज / 2018

प्रतिलिपि:-

1- Soham Fero magness PVT.LTD.वर्धा रोड नागपुर महाराष्ट्र की ओर सूचनार्थ प्रेषित।


Mining Officer
खनिज अधिकारी
सतना (म.प्र.)
खनिज शाखा

वास्ते कलेक्टर सतना

कार्यालय कलेक्टर, (खनिज शाखा) जिला- सतना

क्रमांक. 3697...../क/खनिज/2018/

सतना दि० 26/9/2018

प्रति,

मेसर्स प्रिज्म जॉनसन लिमिटेड,
ग्राम मनकहरी पो.बठिया,
जिला सतना (म०प्र०)

विषय:-Authentication of DGPS Survey/Geo-referencing cadastral maps of Chuli& Majhiyar Mining Lease Area 176.619 Hect..village- Chuli& Majhiyar Distt, satna (M.P.)

सन्दर्भ:-आपका पत्र क्रमांक निरंक दिनांक 23.07.2018 ।

उपरोक्त विषयांतर्गत संदर्भित पत्र के तारतम्य में लेख है कि आपको ग्राम Chuli& Majhiyar Distt.Satna के कुल 176.619 हे. क्षेत्र पर स्वीकृत चूनापत्थर क्षेत्र का Soham Fero Magnese PVT.LTD.द्वारा डी.जी.पी.एस. सर्वे किये जाने के उपरांत संबंधित ऐजेन्सी द्वारा Geo referencing Cadastral maps पर प्रमाणन किया गया है उक्त मेप पर प्रमाणीकरण उपरांत एक प्रति प्रदान किया जा रहा है।

संलग्न:- उपरोक्तानुसार

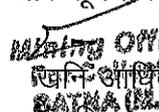

Mining Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा

वास्ते कलेक्टर सतना
सतना दि० 26/9/2018

पु० क्रमांक -/क/खनिज/2018

प्रतिलिपि:-

1- Soham Fero magnese PVT.LTD.वर्धा रोड नागपुर महाराष्ट्र की ओर सूचनार्थ प्रेषित।


Mining Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा

वास्ते कलेक्टर सतना

कार्यालय कलेक्टर, (खनिज शाखा) जिला- सतना

क्रमांक 3700 / क / खनिज / 2018 /

सतना दि 26/9/2018

प्रति,

मेसर्स प्रिज्म जॉनसन लिमिटेड,
ग्राम मनकहरी पो.बठिया,
जिला सतना (म0प्र0)

विषय:- Authentication of DGPS Survey/Geo-referencing cadastral maps of Mendhi Mining Lease Area 117.594 Hect. village- Mendhi Distt, satna (M.P.)

सन्दर्भ:-आपका पत्र क्रमांक निरंक दिनांक 12.06.2018 ।

उपरोक्त विषयांतर्गत संदर्भित पत्र के तारतम्य में लेख है कि आपको ग्राम Mendhi Distt.Satna के कुल 117.594 हे. क्षेत्र पर स्वीकृत चूनापत्थर क्षेत्र का Soham Fero Magnese PVT.LTD.द्वारा डी.जी. पी.एस. सर्वे किये जाने के उपरांत संबंधित ऐजेन्सी द्वारा Geo referencing Cadastral maps पर प्रमाणन किया गया है उक्त मेप पर प्रमाणीकरण उपरांत एक प्रति प्रदान किया जा रहा है।

संलग्न:- उपरोक्तानुसार

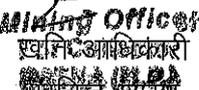

Mining Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा

वास्ते कलेक्टर सतना
सतना दि 26/9/2018

पृ0 क्रमांक - / क / खनिज / 2018

प्रतिलिपि:-

1- Soham Fero magness PVT.LTD.वर्धा रोड नागपुर महाराष्ट्र की ओर सूचनार्थ प्रेषित।


Mining Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा

वास्ते कलेक्टर सतना

कार्यालय कलेक्टर, (खनिज शाखा) जिला- सतना

क्रमांक 1713 / क / खनिज / 2018 /

सतना दि 13/6/2018

प्रति,

मेसर्स प्रिज्म जॉनसन लिमिटेड,
ग्राम मनकहरी पो.बठिया,
जिला सतना (म0प्र0)

विषय:-Authentication of DGPS Survey/Geo-referencing cadastral maps of Hinauti Mining Lease Area 66.434 Hect..village- Hinauti Distt, satna (M.P.)

सन्दर्भ:-आपका पत्र क्रमांक निरंक दिनांक 04.04.2018 प्राप्त दिनांक 17.05.2018 ।

उपरोक्त विषयांतर्गत संदर्भित पत्र के तारतम्य में लेख है कि आपको ग्राम Hinauti Distt.Satna के कुल 66.434 हे. क्षेत्र पर स्वीकृत चूनापत्थर क्षेत्र का Soham Fero Magnese PVT.LTD.द्वारा डी.जी. पी.एस. सर्वे किये जाने के उपरांत संबंधित ऐजेन्सी द्वारा Geo referencing Cadastral maps पर प्रमाणन किया गया है उक्त मेप पर प्रमाणीकरण उपरांत एक प्रति प्रदान किया जा रहा है।

संलग्न:- उपरोक्तानुसार

Mining Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा

वास्ते कलेक्टर सतना
सतना दि 13/6/2018

पू0 क्रमांक - / क / खनिज / 2018

प्रतिलिपि:-

1- Soham Fero magnese PVT.LTD.वर्धा रोड नागपुर महाराष्ट्र की ओर सूचनार्थ प्रेषित।

Mining Officer
खनिज अधिकारी
SATNA (M.P.)
खनिज शाखा

वास्ते कलेक्टर सतना

ECOMEN LABORATORIES PVT. LTD.


Flat No. 8, 2nd Floor, Arif Chamber-V, Sector H, Aliganj, Lucknow - 226 024

Phone No. : (91-522) 2746282, 2745726 Telefax No.: (91 - 522) 2745726

E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1ZI

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW8/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

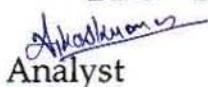
Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : Badarkha Village – Bore Well

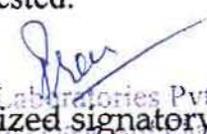
Sl. No.	TESTS	PROTOCOL	RESULT	Detection Range	INDIAN STANDARDS as per IS 10500:1991(Reaff:2012)	
					Desirable	Permissible
1.	Colour (Hazen unit)	APHA, 23 rd Ed. 2017, 2120 B	<5.0	5-100	5.00	15.0
2.	Odour	APHA, 23 rd Ed. 2017, 2150 B	Agreeable	Qualitative	Agreeable	Agreeable
3.	Taste	APHA, 23 rd Ed. 2017, A+B	Agreeable	Qualitative	Agreeable	Agreeable
4.	Turbidity as (NTU)	APHA, 23 rd Ed. 2017, 2130-A+B	1.90	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.40	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	556.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	154.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	236.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	57.6	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	22.35	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	24.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.25	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	108.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	10.80	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	0.15	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	0.21	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	0.26	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit



Analyst



Ecomen Laboratories Pvt. Ltd.
Authorized signatory
Flat No. 8, 2nd Floor, Arif Chamber-V
Sector-H, Aliganj, Lucknow-226024
Ph.-2746282, Fax:2745726



Quality Manager

ECOMEN LABORATORIES PVT. LTD.

Flat No. 8, 2nd Floor, Arif Chamber-V, Sector H, Aliganj, Lucknow - 226 024

Phone No. : (91-522) 2746282, 2745726 Telefax No.: (91 - 522) 2745726

E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1ZI

ecoMen
LABORATORIES PVT. LTD.

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW9/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : PCL Colony Supply Water – Bore Well

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.25	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	642.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	164.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	328.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	87.2	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	26.73	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	64.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.33	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	135.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	13.80	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	0.23	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	0.18	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory
Ecomen Laboratories Pvt. Ltd.
Flat No. 8, 2nd Floor, Arif Chamber-V,
Sector-H, Aliganj, Lucknow-226024
Ph.-2746282, Fax:2745726

Quality Manager

ECOMEN LABORATORIES PVT. LTD.

Flat No. 8, 2nd Floor, Arif Chamber-V, Sector H, Aliganj, Lucknow - 226 024

Phone No. : (91-522) 2746282, 2745726 Telefax No.: (91 - 522) 2745726

E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1ZI

ecoMen
LABORATORIES PVT. LTD.

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW10/03/19

TEST REPORT ISSUE DATE:25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : Mines Site Office Hinauti Sijatah

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.26	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	462.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	120.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	224.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	62.4	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	16.52	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	32.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.38	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	42.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	14.98	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	BDL	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	0.18	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, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW11/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Sijhata Village – Bore Well

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.24	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	368.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	136.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	248.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	64.0	5 – 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	19.44	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	68.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.40	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	120.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	19.5	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	0.22	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	0.19	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	0.17	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory

Quality Manager

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW12/03/19

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF DRINKING WATER*

Name of the Company : M/s. Prism Johnson I.td.

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

Sampling Method : APHA/ IS: 3025

Sample Collected by : Mr.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : Chulhi Village – Bore Well

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.21	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	340.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	148.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	260.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	70.4	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	20.41	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	64.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.38	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	112.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	19.6	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	0.18	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	0.23	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	0.16	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/DW13/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh

Sample Quantity : As per requirement.

Date of Sampling : 12.03.2019

Date of Receiving : 14.03.2019

Date of Analysis : 14.03.2019 to 22.03.2019

Source of Sample : Hinauta Village – Bore Well

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	BDL	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.32	2.0-12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	328.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	140.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	256.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	62.4	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	24.3	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	58.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.33	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	98.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	17.90	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	0.17	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	0.24	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	0.23	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory

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FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO: ECO LAB/GW1/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Bore well at Project Office

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	<1.0	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.39	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	380.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	152.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	244.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	59.2	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	23.32	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	36.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.34	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	65.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	17.0	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	0.12	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	0.20	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 - 1B	BDL	0.1-10	-	-
29.	Iron as Fe (mg/l)	APHA, 23 rd Ed. 2017, 3500 Fe B	0.21	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory
Ph-2746282, Fax:2745726

Quality Manager

ECOMEN LABORATORIES PVT. LTD.

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E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1ZI

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/GW2/09/18

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF DRINKING WATER*

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

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

Sampling Method : APHA/ IS: 3025
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Plant Pump House

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	<1.0	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.28	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	356.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	132.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	240.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	64.0	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	19.44	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	42.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.28	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	36.50	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	13.50	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	0.23	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	0.21	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	0.17	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

Authorized signatory
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E-mail: ravi.bhargava@gmail.com, Website: www.ecomen.in, CIN - U74210UP1989PTC010601, GSTIN : 09AAACE6076H1Z1

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LABORATORIES PVT. LTD.

FORMAT NO. ECO/QS/FORMAT/09

TEST REPORT NO:ECO LAB/GW3/03/19

TEST REPORT ISSUE DATE: 25.03.2019

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.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 4.03.2019 to 22.03.2019
Source of Sample : Packing Plant Unit-I

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	<1.0	1 - 100	1.0	5.0
5.	pH	APHA, 23 rd Ed. 2017, 4500H+ A+B	7.26	2.0 -12	6.5-8.5	No Relax.
6.	Total Dissolved Solids as TDS (mg/l)	APHA, 23 rd Ed. 2017, 2540-C	320.0	5 - 5000	500	2000
7.	Alkalinity (mg/l)	APHA, 23 rd Ed. 2017, 2320 A+ B	128.0	5-1500	200	600
8.	Total Hardness as CaCO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 2340 A+C	232.0	5-1500	200.0	600.0
9.	Calcium as Ca (mg/l)	APHA, 23 rd Ed. 2017, 3500 Ca A+B	54.4	5 - 1000	75.0	200.0
10.	Magnesium as Mg (mg/l)	APHA, 23 rd Ed. 2017, 3500 Mg A+B	23.32	5-1000	30.0	100.0
11.	Chloride as Cl (mg/l)	APHA, 23 rd Ed. 2017, 4500 Cl A+B	40.0	5-1000	250.0	1000.0
12.	Fluorides as F (mg/l)	APHA, 23 rd Ed. 2017, 4500-C	0.37	0.05-10	1.0	1.5
13.	Sulfate as SO ₄ (mg/l)	APHA, 23 rd Ed. 2017, 4500-SO ₄ ²⁻ E	38.0	1.0 -250	200.0	400.0
14.	Nitrate Nitrogen as NO ₃ (mg/l)	APHA, 23 rd Ed. 2017, 4500-NO ₃ ⁻ B	14.6	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	0.22	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	0.21	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	0.24	0.02-50	0.3	No Relax.
30.	Total coliform (MPN/100 ml)	APHA, 23 rd Ed. 2017, B+C	BDL	1.8	0.05	Absent
31.	E.coli (Nos/100)	APHA, 23 rd Ed. 2017, B+E	BDL	1.8	Absent	Absent

*The result are related only to item tested.

BDL = Below Detection Limit

Analyst

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Quality Manager

FORMAT NO. ECO/QS/FORMAT/09 TEST REPORT NO:ECO LAB/SW1/03/19

TEST REPORT ISSUE DATE: 25.03.2019

TEST REPORT OF SURFACE WATER*

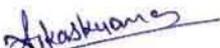
Name of the Company : M/s. Prism Johnson Ltd.
Address of the Company : Village Mankahari,
Tehsil Rampur Baghelan
Distt.Satna(M.P.)
Sampling Method : APHA/ IS: 3025
Sample Collected by : Mr.Maan Singh
Sample Quantity : As per requirement.
Sample Collected by : Mr.Maan Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Himauti Sijahuta Mine Reservoir

S. No.	Parameter	Result	Detection Range	IS:2296 Class 'C' Limit
1	pH	7.32	2-12	6.5 to 8.5
2	Colour (Hazen Units)	<5.0	5.0-100	300
3	Dissolved Oxygen as DO (mg/l)	5.9	1-10	4.0
4	Biochemical Oxygen Demand as BOD (mg/l)	BDL	5-10000	3.0
5	Total Dissolved Solids as TDS (mg/l)	368.0	5-10000	1500
6	Total Hardness as CaCO ₃ (mg/l)	220.0	5-1500	-
7	Chemical Oxygen Demand as COD (mg/l)	6.5	5-50000	-
8	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	BDL	0.05-10	0.005
9	Total Suspended Solids as TSS (mg/l)	22.0	5-5000	-
10	Oil and Grease (mg/l)	BDL	5.0-600	0.1
11	Sulphate as SO ₄ (mg/l)	75.25	1.0-250	400
12	Nitrate as NO ₃ (mg/l)	16.0	5-100	50

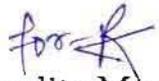
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13	Fluoride as F (mg/l)	0.53	0.05-10	1.5
14	Chloride as Cl (mg/l)	30.0	5.0-1000	600
15	Copper as Cu (mg/l)	BDL	0.05-5.0	1.5
16	Iron as Fe (mg/l)	0.15	0.02-50	50
17	Arsenic as As (mg/l)	BDL	0.01-2.0	0.2
18	Lead as Pb (mg/l)	BDL	0.01-2.0	0.1
19	Cadmium as Cd (mg/l)	BDL	0.002-2.0	0.01
20	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05-20	0.05
21	Zinc as Zn (mg/l)	0.20	0.02-50	15
22	Boron as B (mg/l)	BDL	0.2-10	-
23	Total Coliform (MPN/100ml)	85.0	1.8	5000.0

*The result are related only to item tested.
BDL = Below Detection Limit


Analyst


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Quality Manager

FORMAT NO. ECO/QS/FORMAT/09 TEST REPORT NO:ECO LAB/SW2/03/19

TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF SURFACE 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.Maam Singh
Sample Quantity : As per requirement.
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Bagahai Mines Pit

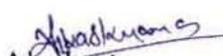
S. No.	Parameter	Result	Detection Range	IS:2296 Class 'C' Limit
1	pH	7.37	2-12	6.5 to 8.5
2	Colour (Hazen Units)	<5.0	5.0-100	300
3	Dissolved Oxygen as DO (mg/l)	6.0	1-10	4.0
4	Biochemical Oxygen Demand as BOD (mg/l)	BDL	5-10000	3.0
5	Total Dissolved Solids as TDS (mg/l)	756.0	5-10000	1500
6	Total Hardness as CaCO ₃ (mg/l)	324.0	5-1500	300
7	Chemical Oxygen Demand as COD (mg/l)	6.0	5-50000	-
8	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	BDL	0.05-10	0.002
9	Total Suspended Solids as TSS (mg/l)	28.0	5-5000	-
10	Oil and Grease (mg/l)	BDL	5.0-600	0.1
11	Sulphate as SO ₄ (mg/l)	84.0	1.0-250	400

Cont.

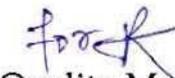
12	Nitrate as NO ₃ (mg/l)	12.5	5-100	50
13	Fluoride as F (mg/l)	0.50	0.05-10	1.5
14	Chloride as Cl (mg/l)	36.0	5.0-1000	600
15	Copper as Cu (mg/l)	BDL	0.05-5.0	1.5
16	Iron as Fe (mg/l)	0.16	0.02-50	50
17	Arsenic as As (mg/l)	BDL	0.01-2.0	0.2
18	Lead as Pb (mg/l)	BDL	0.01-2.0	0.1
19	Cadmium as Cd (mg/l)	BDL	0.002-2.0	0.01
20	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05-20	0.05
21	Zinc as Zn (mg/l)	0.21	0.02-50	15
22	Boron as B (mg/l)	BDL	0.2-10	-
23	Total Coliform (MPN/100ml)	78.0	1.8	5000.0

*The result are related only to item tested.

BDL = Below Detection Limit


Analyst


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Quality Manager

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ecoMen
LABORATORIES PVT. LTD.

FORMAT NO. ECO/QS/FORMAT/09 TEST REPORT NO:ECO LAB/SW3/03/19
TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF SURFACE WATER*

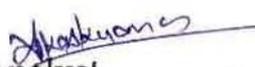
Name of the Company : M/s. Prism Johnson Ltd.
Address of the Company : Village Mankahari,
Tehsil Rampur Baghelan
Distt.Satna(M.P.)
Sampling Method : APHA/ IS: 3025
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Tamas River

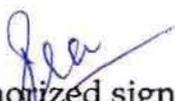
S. No.	Parameter	Result	Detection Range	IS:2296 Class 'C' Limit
1	pH	7.60	2-12	6.5 to 8.5
2	Colour (Hazen Units)	<5.0	5.0-100	300
3	Dissolved Oxygen as DO (mg/l)	5.4	1-10	4.0
4	Biochemical Oxygen Demand as BOD (mg/l)	BDL	5-10000	3.0
5	Total Dissolved Solids as TDS (mg/l)	566.0	5-10000	1500
6	Total Hardness as CaCO ₃ (mg/l)	372.0	5-1500	300
7	Chemical Oxygen Demand as COD (mg/l)	5.2	5-50000	-
8	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	BDL	0.05-10	0.002
9	Total Suspended Solids as TSS (mg/l)	28.0	5-5000	-
10	Oil and Grease (mg/l)	BDL	5.0-600	0.1
11	Sulphate as SO ₄ (mg/l)	80.0	1.0-250	400

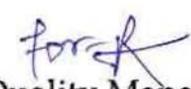
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12	Nitrate as NO ₃ (mg/l)	21.90	5-100	50
13	Fluoride as F (mg/l)	0.70	0.05-10	1.5
14	Chloride as Cl (mg/l)	40.0	5.0-1000	600
15	Copper as Cu (mg/l)	BDL	0.05-5.0	1.5
16	Iron as Fe (mg/l)	0.21	0.02-50	50
17	Arsenic as As (mg/l)	BDL	0.01-2.0	0.2
18	Lead as Pb (mg/l)	BDL	0.01-2.0	0.1
19	Cadmium as Cd (mg/l)	BDL	0.002-2.0	0.01
20	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05-20	0.05
21	Zinc as Zn (mg/l)	0.19	0.02-50	15
22	Boron as B (mg/l)	BDL	0.2-10	-
23	Total Coliform (MPN/100ml)	64.0	1.8	5000.0

*The result are related only to item tested.
BDL = Below Detection Limit


Analyst


Authorized signatory
Ecomen Laboratories Pvt. Ltd.
Flat No.-8 2nd Floor, Arif Chamber-V
Sector-H, Aliganj, Lucknow-226024
Ph.-2746282, Fax:2745726


Quality Manager

FORMAT NO. ECO/QS/FORMAT/09 TEST REPORT NO:ECO LAB/SW4/03/19

TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF SURFACE 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.Maam Singh
Sample Quantity : As per requirement.
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Baghai Mines Pit Discharge water

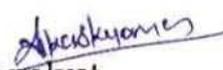
S. No.	Parameter	Result	Detection Range	IS:2296 Class 'C' Limit
1	pH	7.31	2-12	6.5 to 8.5
2	Colour (Hazen Units)	<5.0	5.0-100	300
3	Dissolved Oxygen as DO (mg/l)	4.9	1-10	4.0
4	Biochemical Oxygen Demand as BOD (mg/l)	BDL	5-10000	3.0
5	Total Dissolved Solids as TDS (mg/l)	556.0	5-10000	1500
6	Total Hardness as CaCO ₃ (mg/l)	336.0	5-1500	300
7	Chemical Oxygen Demand as COD (mg/l)	7.5	5-50000	-
8	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	BDL	0.05-10	0.002
9	Total Suspended Solids as TSS (mg/l)	34.0	5-5000	-
10	Oil and Grease (mg/l)	BDL	5.0-600	0.1
11	Sulphate as SO ₄ (mg/l)	78.0	1.0-250	400

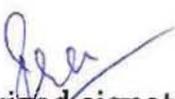
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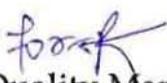
12	Nitrate as NO ₃ (mg/l)	12.0	5-100	50
13	Fluoride as F (mg/l)	0.60	0.05-10	1.5
14	Chloride as Cl (mg/l)	44.0	5.0-1000	600
15	Copper as Cu (mg/l)	BDL	0.05-5.0	1.5
16	Iron as Fe (mg/l)	0.22	0.02-50	50
17	Arsenic as As (mg/l)	BDL	0.01-2.0	0.2
18	Lead as Pb (mg/l)	BDL	0.01-2.0	0.1
19	Cadmium as Cd (mg/l)	BDL	0.002-2.0	0.01
20	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05-20	0.05
21	Zinc as Zn (mg/l)	0.15	0.02-50	15
22	Boron as B (mg/l)	BDL	0.2-10	-
23	Total Coliform (MPN/100ml)	42.0	1.8	5000.0

*The result are related only to item tested.

BDL = Below Detection Limit


Analyst


Authorized signatory
Ecomen Laboratories Pvt. Ltd.
Flat No.-8 2nd Floor, Arif Chamber-V
Sector-H, Aliganj, Lucknow-226024
Ph.-2746282, Fax:2745726


Quality Manager

FORMAT NO. ECO/QS/FORMAT/09 TEST REPORT NO:ECO LAB/SW5/03/19
TEST REPORT ISSUE DATE:25.03.2019

TEST REPORT OF SURFACE 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.Maam Singh
Sample Quantity : As per requirement.
Sample Collected by : Mr.Maam Singh
Sample Quantity : As per requirement.
Date of Sampling : 12.03.2019
Date of Receiving : 14.03.2019
Date of Analysis : 14.03.2019 to 22.03.2019
Source of Sample : Western Block Pit

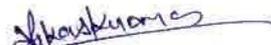
S. No.	Parameter	Result	Detection Range	IS:2296 Class 'C' Limit
1	pH	7.65	2-12	6.5 to 8.5
2	Colour (Hazen Units)	<5.0	5.0-100	300
3	Dissolved Oxygen as DO (mg/l)	5.9	1-10	4.0
4	Biochemical Oxygen Demand as BOD (mg/l)	BDL	5-10000	3.0
5	Total Dissolved Solids as TDS (mg/l)	568.0	5-10000	1500
6	Total Hardness as CaCO ₃ (mg/l)	372.0	5-1500	300
7	Chemical Oxygen Demand as COD (mg/l)	9.5	5-50000	-
8	Phenolic Compounds as C ₆ H ₅ OH (mg/l)	BDL	0.05-10	0.002
9	Total Suspended Solids as TSS (mg/l)	18.0	5-5000	-
10	Oil and Grease (mg/l)	BDL	5.0-600	0.1
11	Sulphate as SO ₄ (mg/l)	62.0	1.0-250	400

Cont.

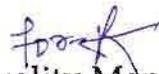
12	Nitrate as NO ₃ (mg/l)	15.0	5-100	50
13	Fluoride as F (mg/l)	0.65	0.05-10	1.5
14	Chloride as Cl (mg/l)	32.0	5.0-1000	600
15	Copper as Cu (mg/l)	BDL	0.05-5.0	1.5
16	Iron as Fe (mg/l)	0.17	0.02-50	50
17	Arsenic as As (mg/l)	BDL	0.01-2.0	0.2
18	Lead as Pb (mg/l)	BDL	0.01-2.0	0.1
19	Cadmium as Cd (mg/l)	BDL	0.002-2.0	0.01
20	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05-20	0.05
21	Zinc as Zn (mg/l)	0.15	0.02-50	15
22	Boron as B (mg/l)	BDL	0.2-10	-
23	Total Coliform (MPN/100ml)	56.0	1.8	5000.0

*The result are related only to item tested.

BDL = Below Detection Limit


Analyst


Authorized signatory
Ecomen Laboratories Pvt. Ltd.
Flat No.-8 2nd Floor, Arif Chamber-V
Sector-H, Aliganj, Lucknow-226024
Ph.-2746282, Fax:2745726


Quality Manager

Date/Time Vert at 12:22:03 April 1, 2019
 Trigger Source Geo: 0.900 mm/s, Mic: 2.000 pa.(L)
 Range Geo : 254.0 mm/s
 Record Time 1.75 sec at 1024 sps
 Operator/Setup: Operator/SSB.MMB

Serial Number UM8131 V 10-76 Micromate ISEE
 Battery Level 3.8 Volts
 Unit Calibration February 26, 2018 by UES New Delhi
 File Name UM8131_20190401122203.IDFW
 Scaled Distance 16.9 (100.0 m, 35.0 kg)
 Post Event Notes

Notes

Location:
 Client:
 User Name: PRISM:CEMENT:LTD
 General:

Eastern block 2nd bench, No of holes -34 nos, Depth - 7 Mtrs
 Charge/delay - 25 Kg/delay, Obsevation Distance - 200 Mtr

Extended Notes

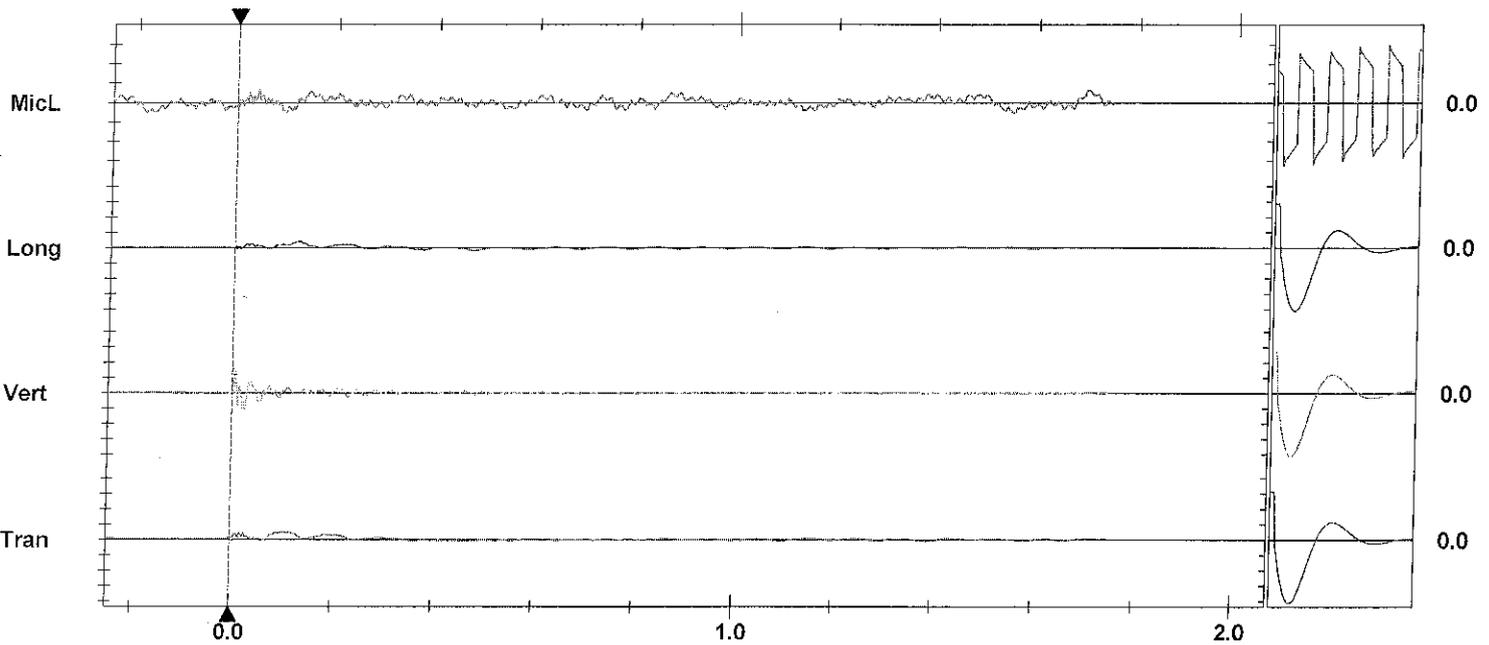
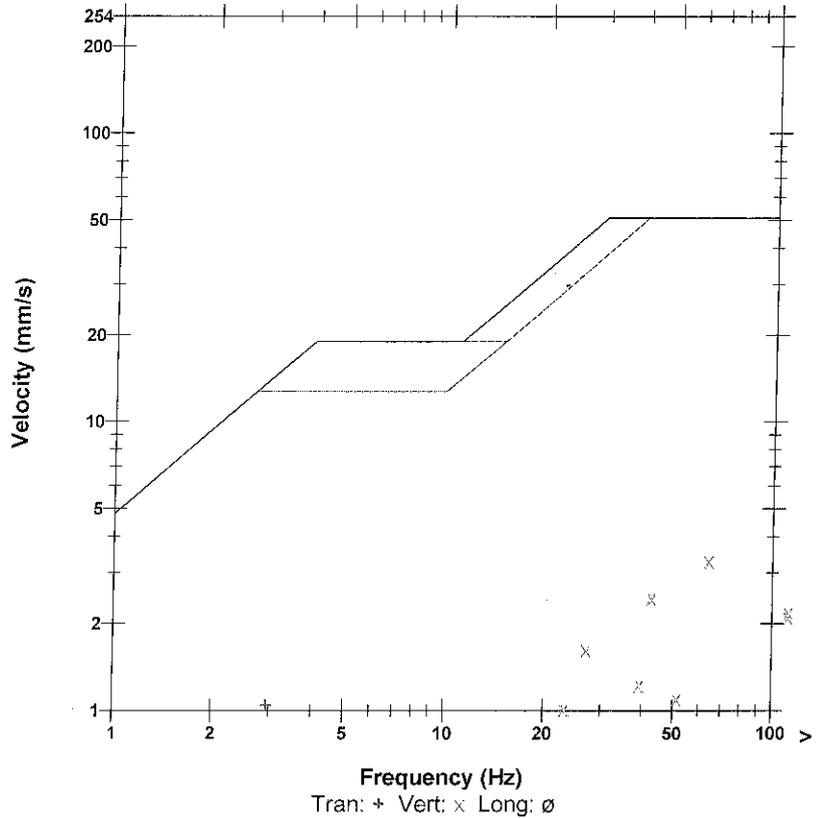
PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
 PSPL 0.683 pa.(L) at 0.042 sec
 ZC Freq 20 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1270 mv)

	Tran	Vert	Long	
PPV	1.048	3.310	0.859	mm/s
ZC Freq	2.9	64	5.3	Hz
Time (Rel. to Trig)	0.106	0.003	0.126	sec
Peak Acceleration	0.034	0.267	0.048	g
Peak Displacement	0.045	0.013	0.020	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.3	Hz
Overswing Ratio	3.5	3.3	3.6	

Peak Vector Sum 3.313 mm/s at 0.003 sec

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div
 Trigger = \blacktriangleleft \blacktriangleright

Sensor Check

Date/Time Tran at 11:46:51 April 9, 2019
Trigger Source Geo: 0.900 mm/s, Mic: 2.000 pa.(L)
Range Geo : 254.0 mm/s
Record Time 3.75 sec at 1024 sps
Operator/Setup: Operator/SSB.MMB

Serial Number UM8131 V 10-76 Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration February 26, 2018 by UES New Delhi
File Name UM8131_20190409114651.IDFW
Scaled Distance 16.9 (100.0 m, 35.0 kg)
Post Event Notes
 H 10 1st bench, No of holes -41 nos, Depth - 7 Mtrs
 Charge/delay - 45.4 Kg/delay, Obsevation Distance - 200 Mtr

Notes

Location:
 Client:
 User Name: PRISM:CEMENT:LTD
 General:

Extended Notes

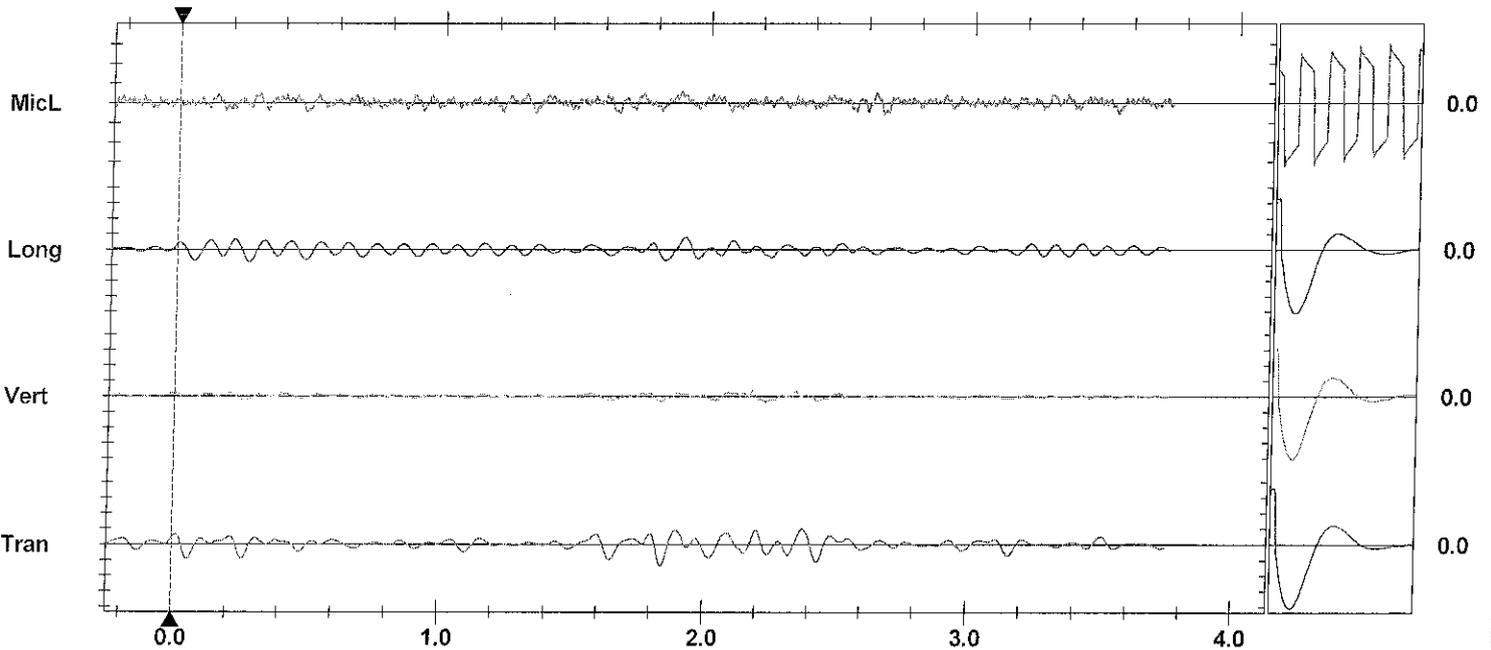
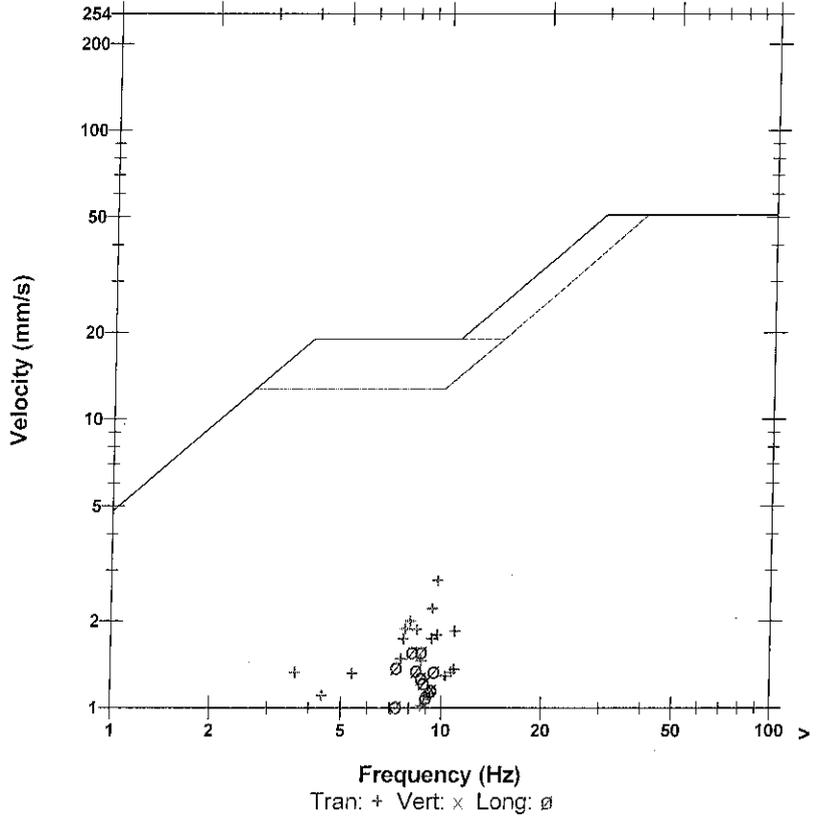
PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
PSPL 0.574 pa.(L) at 1.888 sec
ZC Freq 6.7 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1207 mv)

	Tran	Vert	Long	
PPV	2.759	0.749	1.576	mm/s
ZC Freq	9.7	19	8.7	Hz
Time (Rel. to Trig)	1.841	2.180	0.272	sec
Peak Acceleration	0.019	0.012	0.012	g
Peak Displacement	0.043	0.019	0.029	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.3	Hz
Overswing Ratio	3.4	3.4	3.9	

Peak Vector Sum 3.135 mm/s at 1.841 sec

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div
 Trigger = \blacktriangleleft \blacktriangleright

Date/Time Tran at 10:30:03 April 5, 2019
Trigger Source Geo: 0.900 mm/s, Mic: 2.000 pa.(L)
Range Geo : 254.0 mm/s
Record Time 5.0 sec at 1024 sps
Operator/Setup: Operator/SSB.MMB

Serial Number UM8131 V 10-76 Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration February 26, 2018 by UES New Delhi
File Name UM8131_20190405103003.IDFW
Scaled Distance 16.9 (100.0 m, 35.0 kg)

Notes
 Location:
 Client:
 User Name: PRISM:CEMENT:LTD
 General:

Post Event Notes
 Sijhata 3rd bench, No of holes -28 nos, Depth - 6 Mtrs
 Charge/delay - 16 Kg/delay, Obsevation Distance - 250 Mtr

Extended Notes

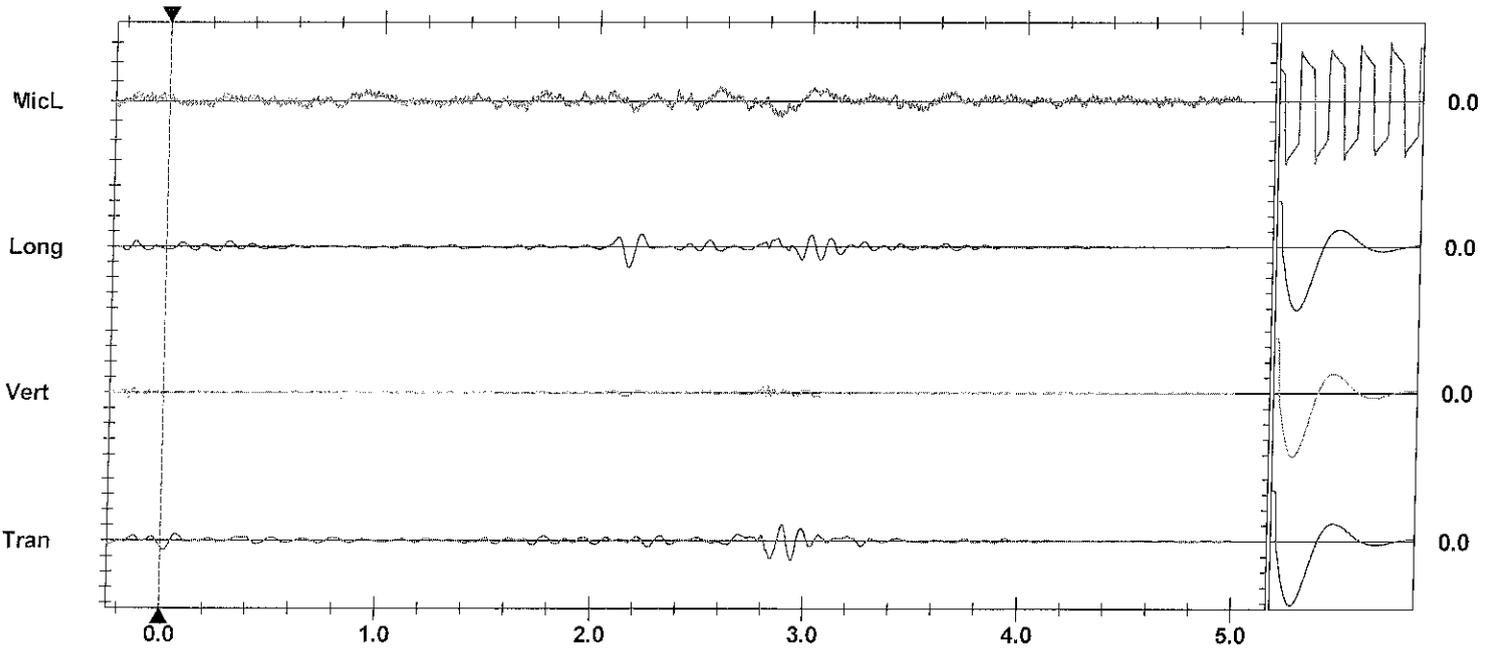
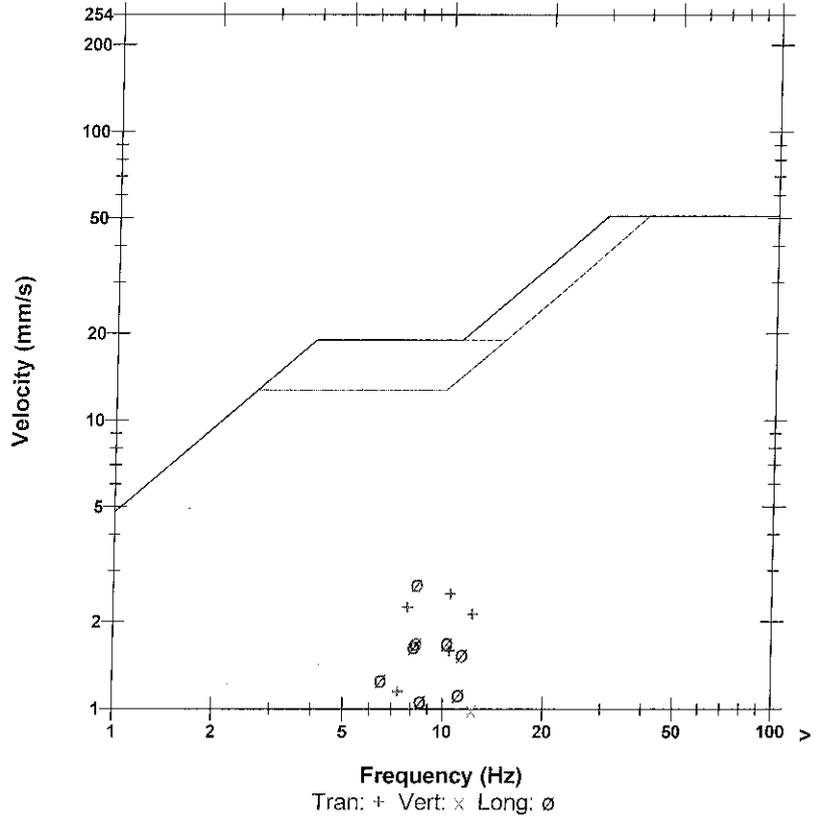
PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
PSPL 0.822 pa.(L) at 2.860 sec
ZC Freq 3.3 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1227 mv)

	Tran	Vert	Long	
PPV	2.491	1.001	2.703	mm/s
ZC Freq	10	12	8.3	Hz
Time (Rel. to Trig)	2.941	2.795	2.154	sec
Peak Acceleration	0.024	0.037	0.016	g
Peak Displacement	0.044	0.010	0.050	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.1	Hz
Overswing Ratio	3.6	3.3	3.6	

Peak Vector Sum 2.743 mm/s at 2.155 sec

USBM RI8507 And OSMRE



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 11:32:31 April 5, 2019
Trigger Source Geo: 0.900 mm/s, Mic: 2.000 pa.(L)
Range Geo : 254.0 mm/s
Record Time 5.0 sec at 1024 sps
Operator/Setup: Operator/SSB.MMB

Serial Number UM8131 V 10-76 Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration February 26, 2018 by UES New Delhi
File Name UM8131_20190405113231.IDFW
Scaled Distance 16.9 (100.0 m, 35.0 kg)
Post Event Notes

Notes
 Location:
 Client:
 User Name: PRISM:CEMENT:LTD
 General:

H 19 1st bench, No of holes -04 nos, Depth - 6 Mtrs
 Charge/delay - 18.75 Kg/delay, Obsevation Distance - 150 Mtr

Extended Notes

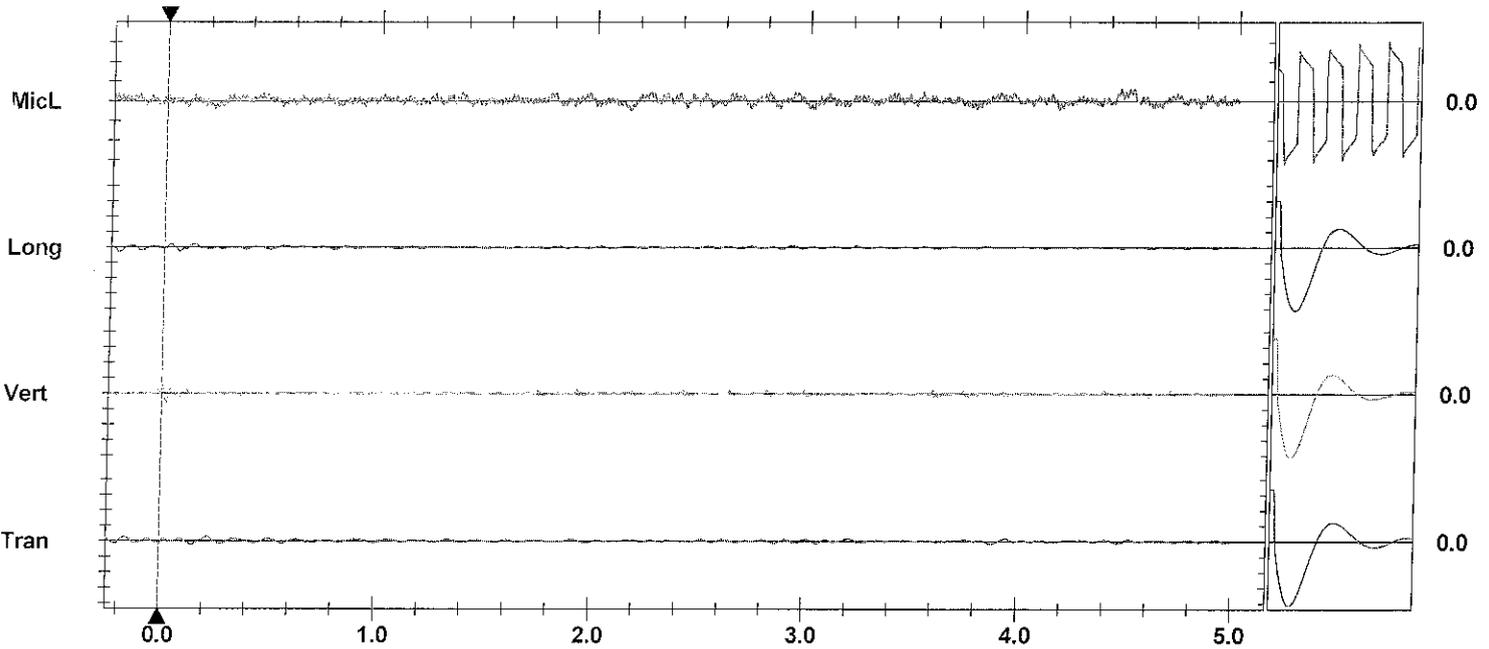
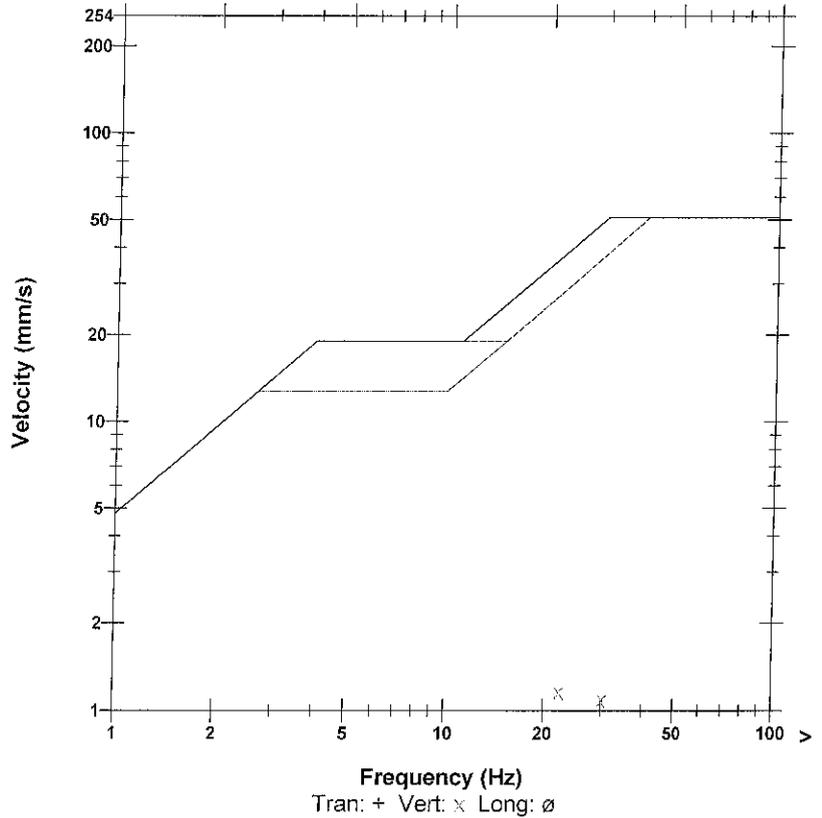
PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
PSPL 0.636 pa.(L) at 4.490 sec
ZC Freq 5.0 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1226 mv)

	Tran	Vert	Long	
PPV	0.638	1.167	0.607	mm/s
ZC Freq	6.9	22	9.1	Hz
Time (Rel. to Trig)	0.225	0.022	-0.215	sec
Peak Acceleration	0.008	0.025	0.006	g
Peak Displacement	0.012	0.008	0.009	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.1	7.5	7.1	Hz
Overswing Ratio	3.3	3.2	3.3	

Peak Vector Sum 1.234 mm/s at 0.022 sec

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div
 Trigger = \blacktriangleleft \blacktriangleright

Sensor Check

Date/Time Tran at 10:42:18 April 6, 2019
Trigger Source Geo: 0.900 mm/s, Mic: 2.000 pa.(L)
Range Geo : 254.0 mm/s
Record Time 2.991 sec at 1024 sps
Operator/Setup: Operator/SSB.MMB

Serial Number UM8131 V 10-76 Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration February 26, 2018 by UES New Delhi
File Name UM8131_20190406104218.IDFW
Scaled Distance 16.9 (100.0 m, 35.0 kg)

Notes
 Location:
 Client:
 User Name: PRISM:CEMENT:LTD
 General:

Post Event Notes
 7050 2nd bench, No of holes -36 nos, Depth - 6.5 Mtrs
 Charge/delay - 32.5 Kg/delay, Obsevation Distance - 200 Mtr

Extended Notes

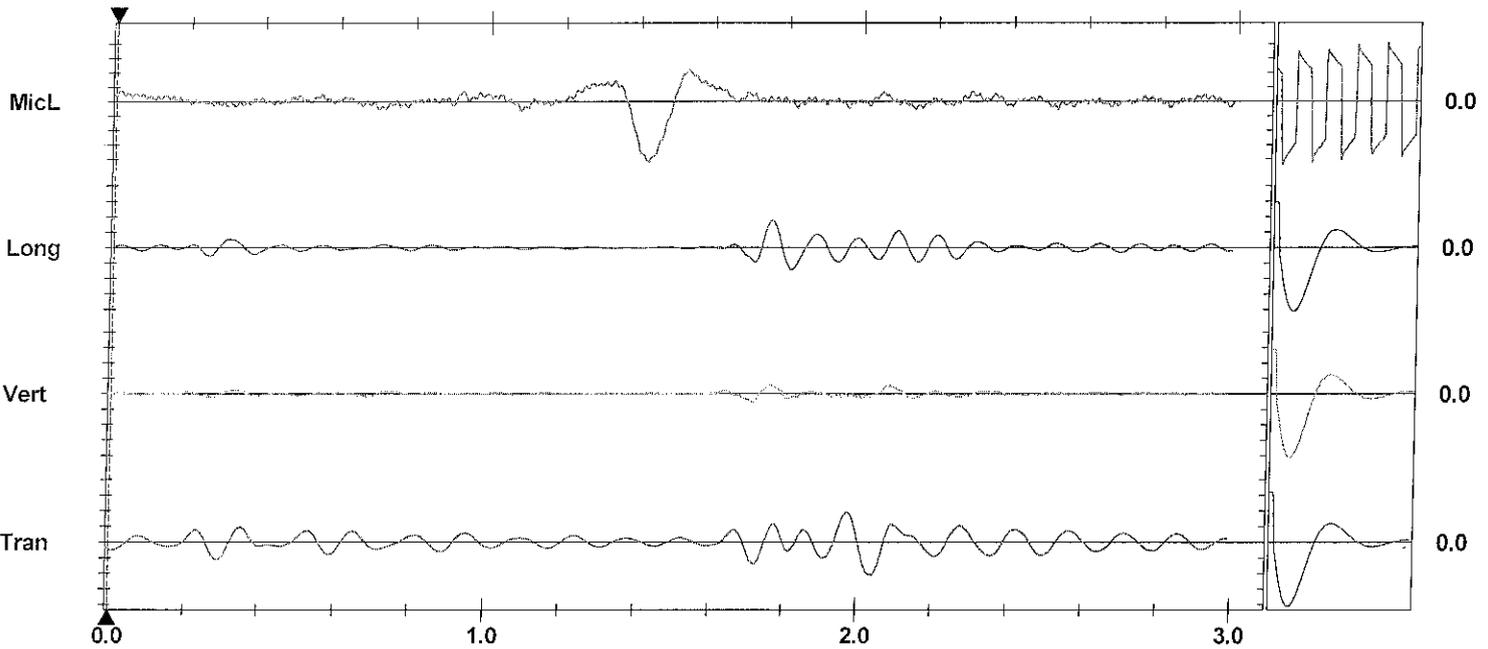
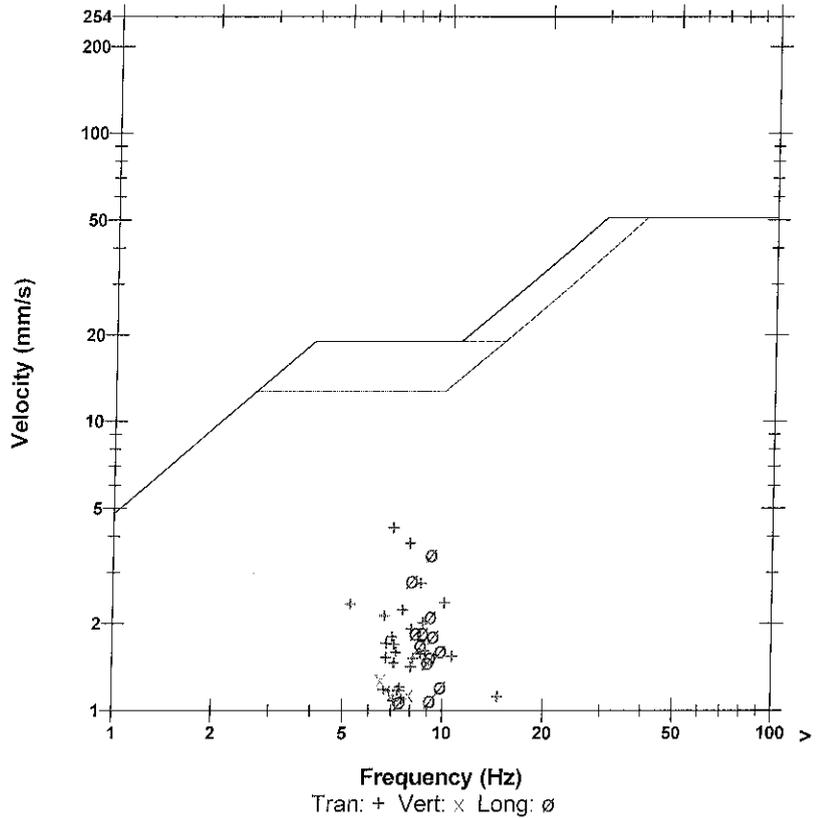
PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
PSPL 4.220 pa.(L) at 1.423 sec
ZC Freq 4.0 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1217 mv)

	Tran	Vert	Long	
PPV	4.272	1.293	3.476	mm/s
ZC Freq	7.0	6.5	9.1	Hz
Time (Rel. to Trig)	2.043	1.714	1.760	sec
Peak Acceleration	0.028	0.023	0.022	g
Peak Displacement	0.097	0.022	0.061	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.1	Hz
Overswing Ratio	3.4	3.2	3.6	

Peak Vector Sum 4.517 mm/s at 2.043 sec

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div
 Trigger = \blacktriangleleft \blacktriangleright

Sensor Check

Date/Time Tran at 10:32:26 April 8, 2019
Trigger Source Geo: 0.900 mm/s, Mic: 2.000 pa.(L)
Range Geo : 254.0 mm/s
Record Time 1.75 sec at 1024 sps
Operator/Setup: Operator/SSB.MMB

Serial Number UM8131 V 10-76 Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration February 26, 2018 by UES New Delhi
File Name UM8131_20190408103226.IDFW
Scaled Distance 16.9 (100.0 m, 35.0 kg)
Post Event Notes
 EPR 2nd bench, No of holes -32 nos, Depth - 6.5 Mtrs
 Charge/delay - 17.9 Kg/delay, Obsevation Distance - 150 Mtr

Notes

Location:
 Client:
 User Name: PRISM:CEMENT:LTD
 General:

Extended Notes

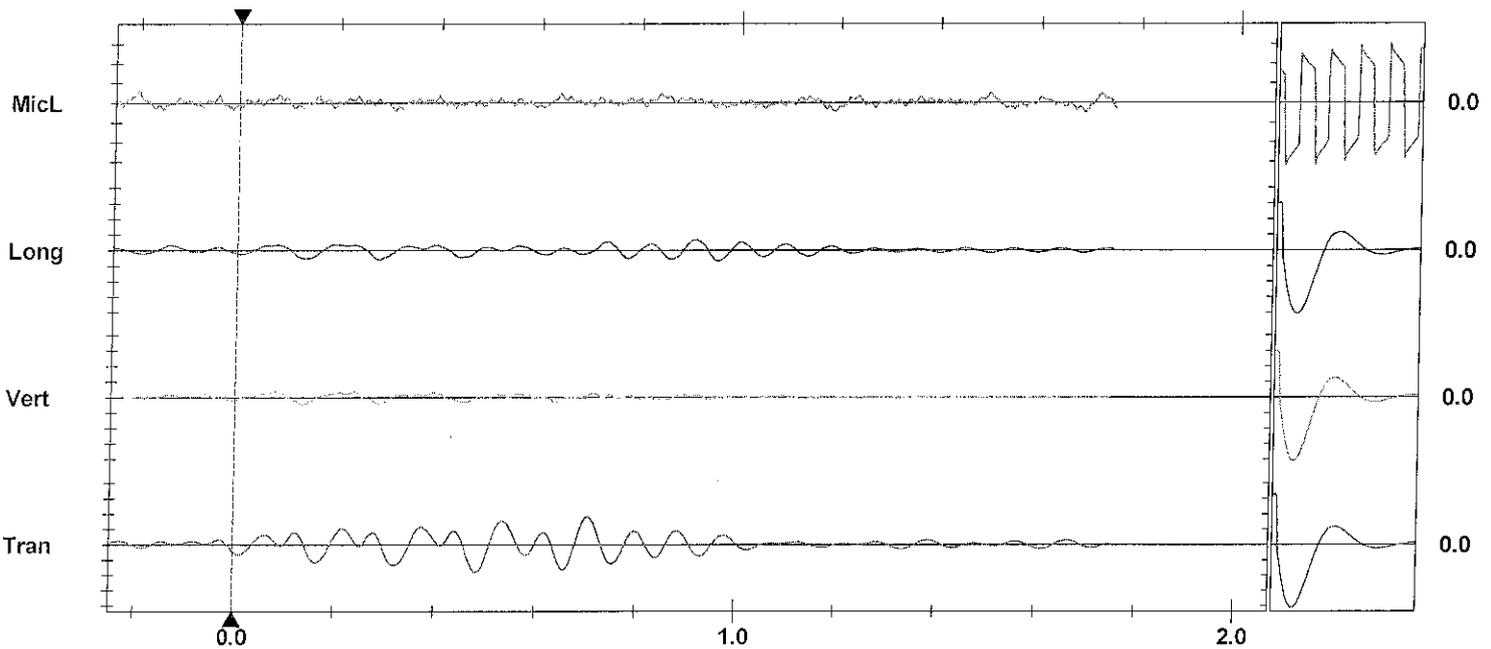
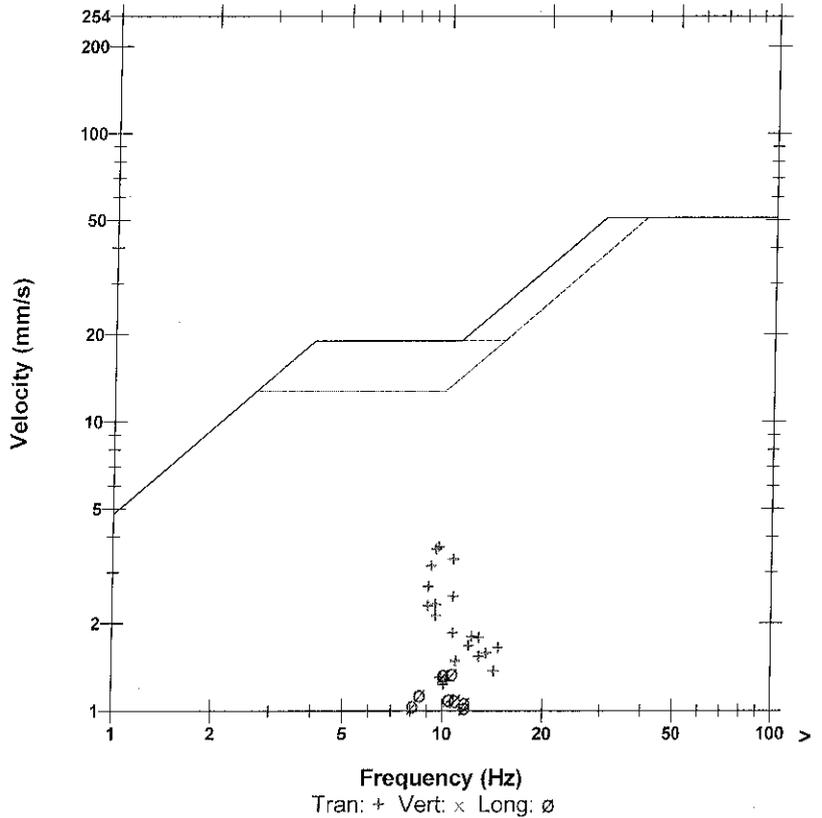
PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
PSPL 0.621 pa.(L) at -0.205 sec
ZC Freq 10 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1210 mv)

	Tran	Vert	Long	
PPV	3.681	0.891	1.356	mm/s
ZC Freq	9.7	8.8	11	Hz
Time (Rel. to Trig)	0.705	0.134	0.959	sec
Peak Acceleration	0.026	0.014	0.012	g
Peak Displacement	0.060	0.019	0.025	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.1	Hz
Overswing Ratio	3.5	3.3	3.5	

Peak Vector Sum 3.697 mm/s at 0.705 sec

USBM RI8507 And OSMRE



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 Tran at 10:34:05 April 9, 2019
Trigger Source Geo: 0.900 mm/s, Mic: 2.000 pa.(L)
Range Geo : 254.0 mm/s
Record Time 3.25 sec at 1024 sps
Operator/Setup: Operator/SSB.MMB

Serial Number UM8131 V 10-76 Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration February 26, 2018 by UES New Delhi
File Name UM8131_20190409103405.IDFW
Scaled Distance 16.9 (100.0 m, 35.0 kg)

Notes
 Location:
 Client:
 User Name: PRISM:CEMENT:LTD
 General:

Post Event Notes
 H 16 1st bench, No of holes -43 nos, Depth - 7 Mtrs
 Charge/delay - 32.56 Kg/delay, Obsevation Distance - 200 Mtr

Extended Notes

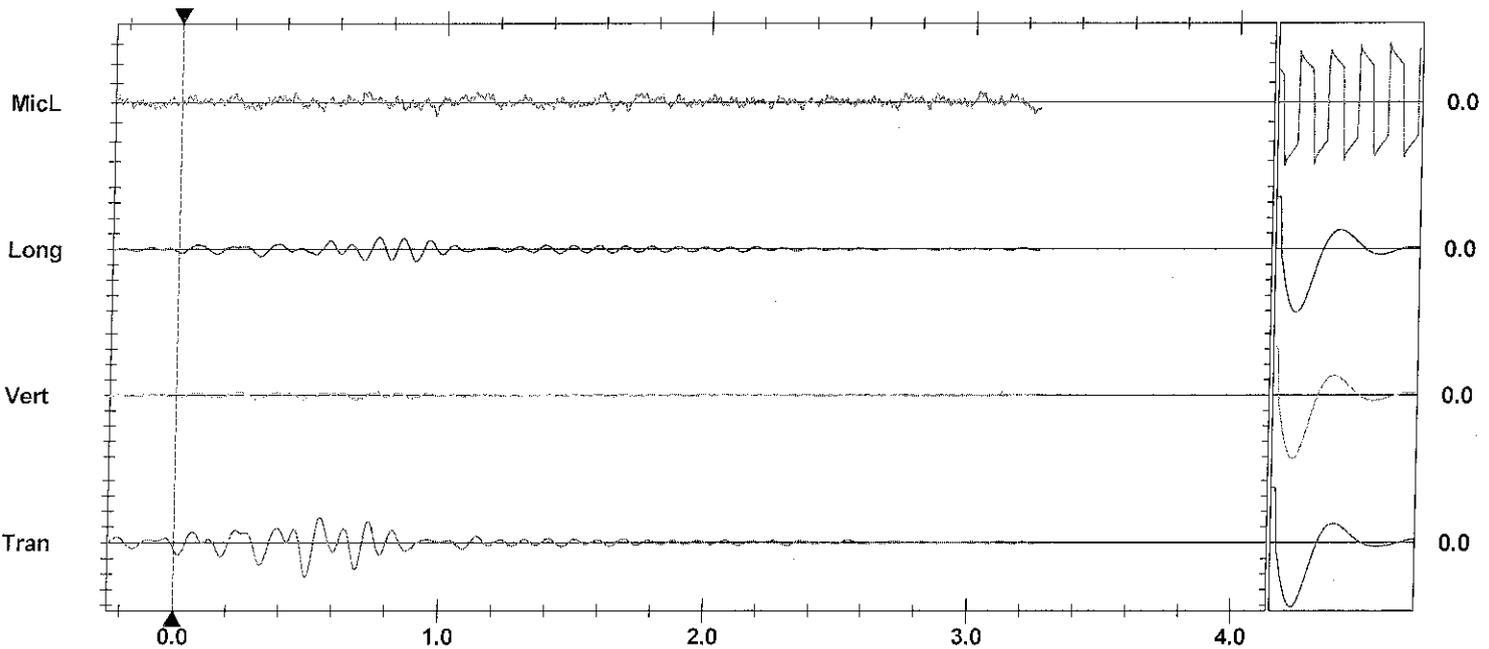
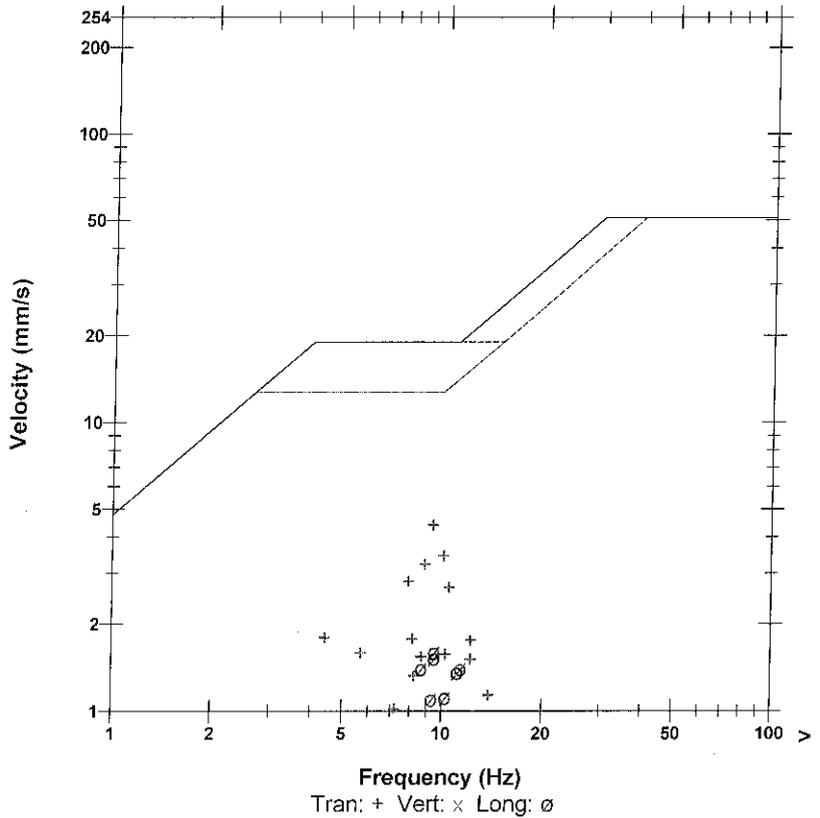
PRISM CEMENT LIMESTONE MINES

Microphone Linear Weighting
PSPL 0.714 pa.(L) at 0.962 sec
ZC Freq 11 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1205 mv)

	Tran	Vert	Long	
PPV	4.398	0.631	1.608	mm/s
ZC Freq	9.3	7.0	9.5	Hz
Time (Rel. to Trig)	0.501	0.303	0.896	sec
Peak Acceleration	0.027	0.016	0.013	g
Peak Displacement	0.073	0.013	0.026	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.1	Hz
Overswing Ratio	3.4	3.2	3.3	

Peak Vector Sum 4.437 mm/s at 0.501 sec

USBM RI8507 And OSMRE



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 14:04:32 January 22, 2019
Trigger Source Geo: 0.800 mm/s, Mic: 114 dB(L)
Range Geo : 31.7 mm/s
Record Time 3.25 sec (Auto=3Sec) at 1024 sps
Job Number: 1

Notes
Location: Baghai Limestone Mines
Client:
User Name: Prism Johnson Cement Limited
General:

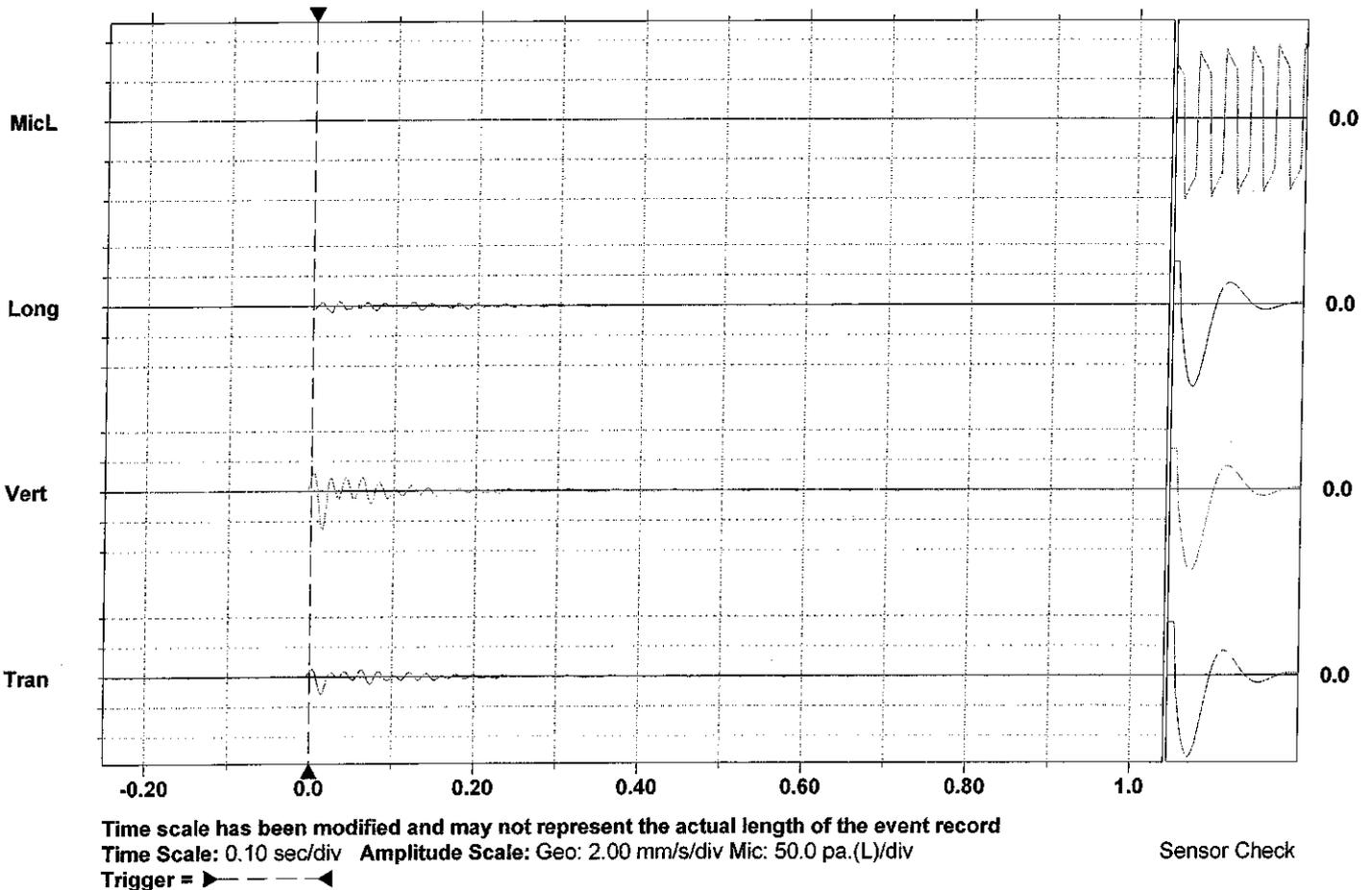
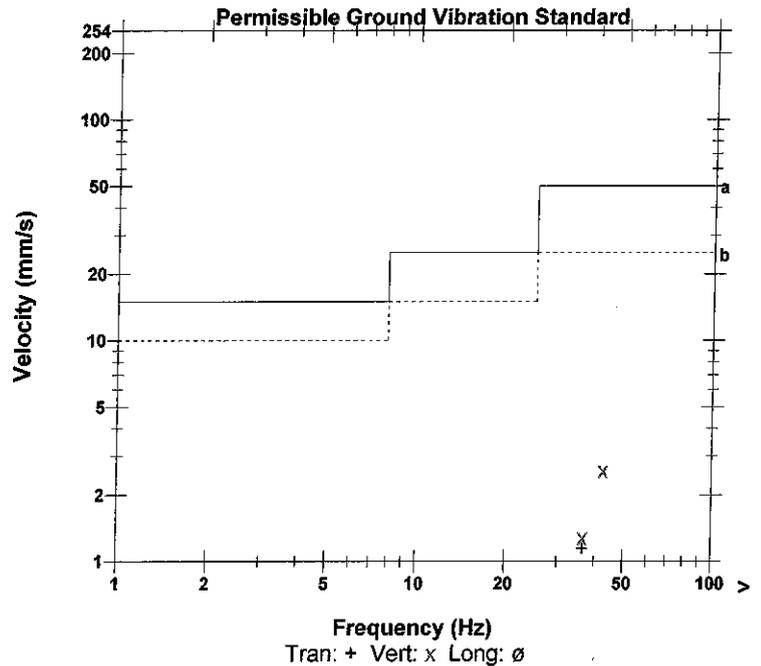
Serial Number BE18246 V 10.72-1.1 Minimate Blaster
Battery Level 6.1 Volts
Unit Calibration February 26, 2018 by UES, New Delhi
File Name __TEMP.EVT
Scaled Distance 22.6 (100.0 m, 19.5 kg)
Post Event Notes
 Instrument Distance From Blasting Face =150 mtr No of Hole=23
 ,Charge /Hole=32.00 kg, Charge/Delay =32.00 kg, Spacing =4 mr,
 Burden =3 mtr, Depth =8 mtr

Microphone Linear Weighting
PSPL <88 dB(L) <0.500 pa.(L) at -0.238 sec
ZC Freq N/A
Channel Test Passed (Freq = 20.1 Hz Amp = 519 mv)

	Tran	Vert	Long	
PPV	1.14	2.59	0.413	mm/s
PPV (Ponderated)	0.939	2.15	0.308	mm/s
PPV	52.2	59.3	43.3	dB
ZC Freq	37	43	43	Hz
Time (Rel. to Trig)	0.014	0.013	0.021	sec
Peak Acceleration	0.0265	0.0679	0.0166	g
Peak Displacement	0.00458	0.00977	0.00136	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.5	Hz
Overswing Ratio	3.4	3.6	3.9	

Peak Vector Sum 2.81 mm/s at 0.013 sec
N/A: Not Applicable

DGMS India (B)



Date/Time Vert at 14:09:22 February 22, 2019
 Trigger Source Geo: 0.800 mm/s, Mic: 114 dB(L)
 Range Geo: 31.7 mm/s
 Record Time 3.25 sec (Auto=3Sec) at 1024 sps
 Job Number: 1

Notes
 Location: Baghai Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

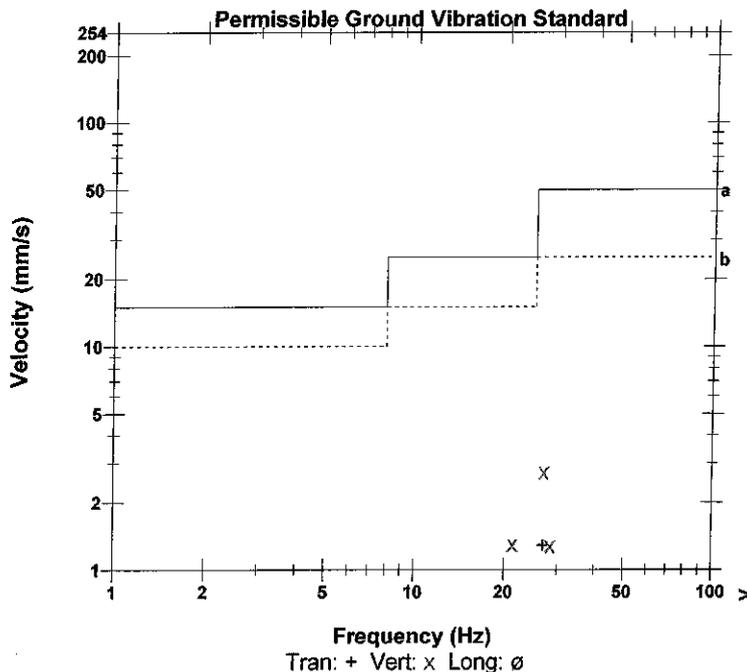
Serial Number BE18246 V 10.72-1.1 Minimate Blaster
Battery Level 6.0 Volts
Unit Calibration February 26, 2018 by UES, New Delhi
File Name TEMP.EVT
Scaled Distance 22.6 (100.0 m, 19.5 kg)
Post Event Notes
 Instrument Distance From Blasting Face =150 mtr No of Hole=40
 ,Charge /Hole=40.6 kg, Charge/Delay =40.6 kg, Spacing =4 mr,
 Burden =3 mtr, Depth =8 mtr

Microphone Linear Weighting
PSPL <88 dB(L) 0.500 pa.(L) at 1.892 sec
ZC Freq >100 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 528 mv)

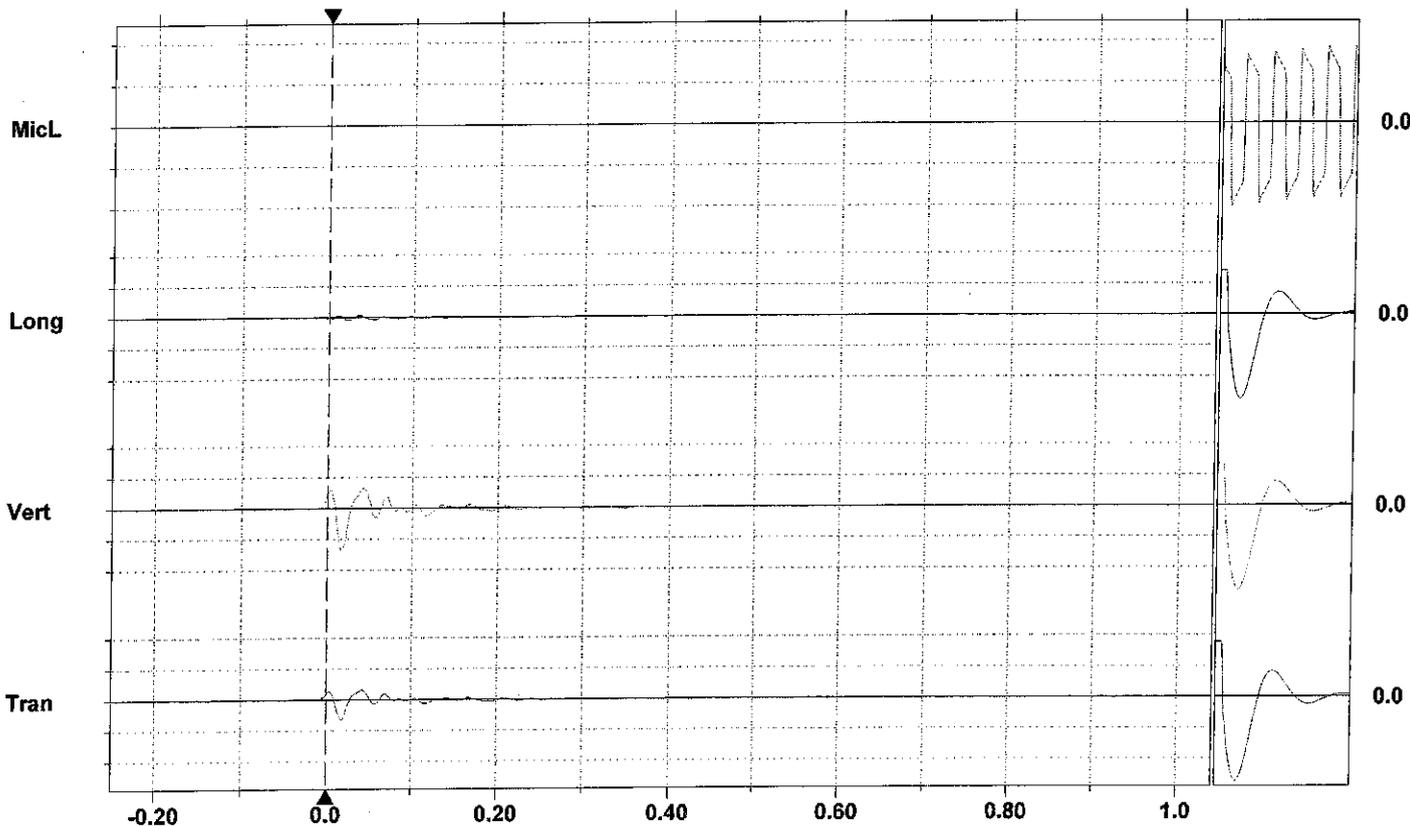
	Tran	Vert	Long	
PPV	1.29	2.75	0.175	mm/s
PPV (Ponderated)	1.17	2.56	0.163	mm/s
PPV	53.2	59.8	35.8	dB
ZC Freq	27	27	37	Hz
Time (Rel. to Trig)	0.018	0.017	0.022	sec
Peak Acceleration	0.0249	0.0547	0.00829	g
Peak Displacement	0.00695	0.0149	0.00088	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.4	7.4	Hz
Overswing Ratio	3.4	3.6	3.9	

Peak Vector Sum 3.02 mm/s at 0.017 sec

DGMS India (B)



a) Industrial buildings
 b) Domestic houses/structures



Time scale has been modified and may not represent the actual length of the event record
 Time Scale: 0.10 sec/div Amplitude Scale: Geo: 2.00 mm/s/div Mic: 50.0 pa.(L)/div
 Trigger =

Sensor Check

Date/Time Vert at 15:12:34 March 25, 2019
Trigger Source Geo: 0.800 mm/s, Mic: 114 dB(L)
Range Geo : 31.7 mm/s
Record Time 3.25 sec (Auto=3Sec) at 1024 sps
Job Number: 1
Notes
 Location: Baghai Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

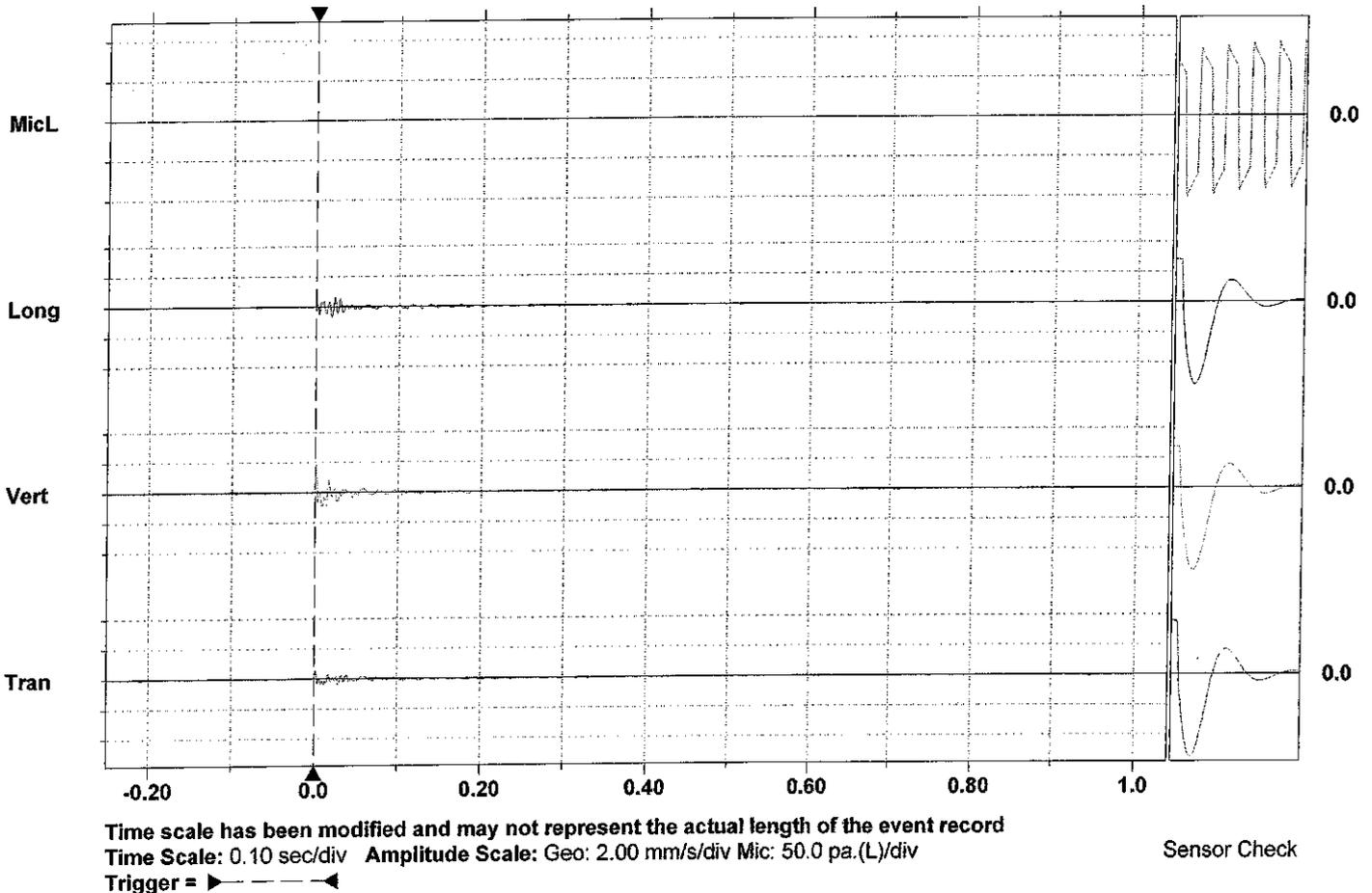
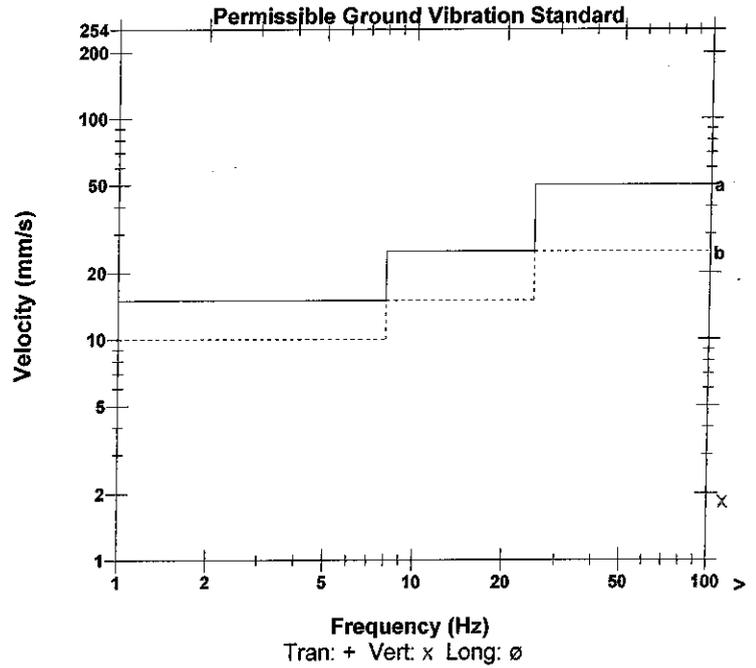
Serial Number BE18246 V 10.72-1.1 Minimate Blaster
Battery Level 6.0 Volts
Unit Calibration February 26, 2018 by UES, New Delhi
File Name __TEMP.EVT
Scaled Distance 22.6 (100.0 m, 19.5 kg)
Post Event Notes
 Instrument Distance From Blasting Face =250 mtr No of Hole=25
 ,Charge /Hole=38.00 kg, Charge/Delay =38.00 kg, Spacing =4 mr,
 Burden =3 mtr, Depth =8 mtr

Microphone Linear Weighting
PSPL 97.5 dB(L) 1.50 pa.(L) at 3.094 sec
ZC Freq 4.1 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 503 mv)

	Tran	Vert	Long	
PPV	0.524	1.86	0.714	mm/s
PPV (Ponderated)	0.195	0.566	0.123	mm/s
PPV	45.4	56.4	48.1	dB
ZC Freq	>100	>100	>100	Hz
Time (Rel. to Trig)	0.001	0.001	0.019	sec
Peak Acceleration	0.0547	0.149	0.0613	g
Peak Displacement	0.00098	0.00268	0.00061	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.4	7.4	Hz
Overswing Ratio	3.4	3.6	3.9	

Peak Vector Sum 1.94 mm/s at 0.001 sec

DGMS India (B)



Date/Time Vert at 15:14:03 April 28, 2019
 Trigger Source Geo: 0.800 mm/s, Mic: 114 dB(L)
 Range Geo : 31.7 mm/s
 Record Time 3.25 sec (Auto=3Sec) at 1024 sps
 Job Number: 1

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
 Battery Level 6.1 Volts
 Unit Calibration February 26, 2018 by UES, New Delhi
 File Name TEMP.EVT
 Scaled Distance 22.6 (100.0 m, 19.5 kg)

Notes
 Location: Baghai Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

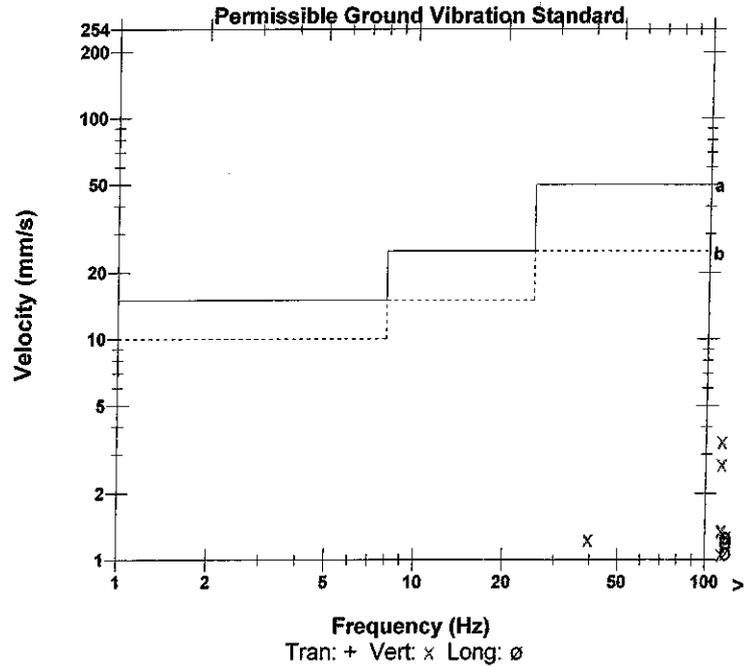
Post Event Notes
 Instrument Distance From Blasting Face =150 mtr No of Hole=30
 ,Charge /Hole=41.6 kg, Charge/Delay =41.6 kg, Spacing =4 mr,
 Burden =3 mtr, Depth =8 mtr

Microphone Linear Weighting
 PSPL <88 dB(L) 0.500 pa.(L) at 0.021 sec
 ZC Freq >100 Hz
 Channel Test Passed (Freq = 20.1 Hz Amp = 488 mv)

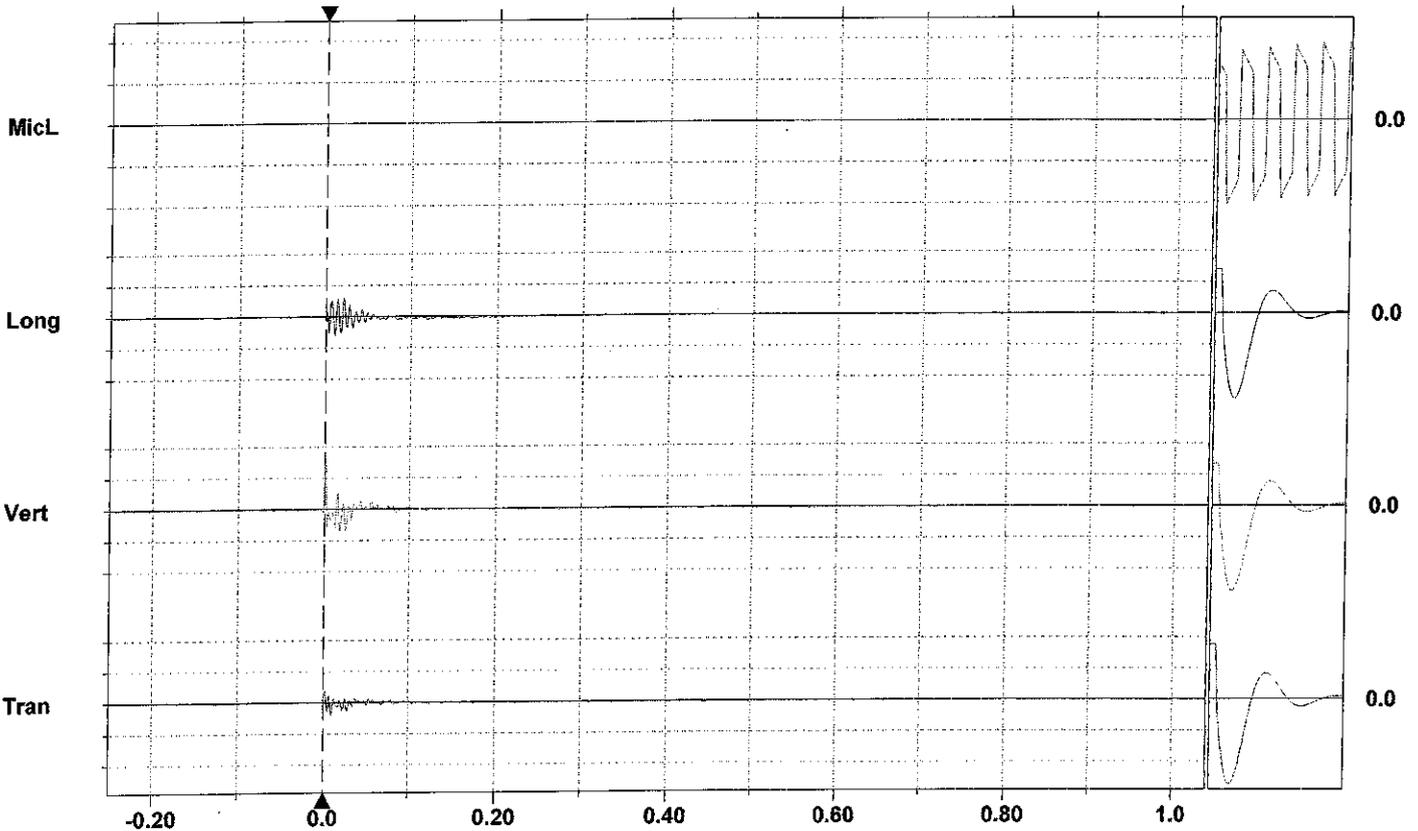
	Tran	Vert	Long	
PPV	0.794	3.44	1.27	mm/s
PPV (Ponderated)	0.221	0.567	0.283	mm/s
PPV	49.0	61.7	53.1	dB
ZC Freq	>100	>100	>100	Hz
Time (Rel. to Trig)	0.009	0.001	0.021	sec
Peak Acceleration	0.0729	0.394	0.114	g
Peak Displacement	0.00101	0.00331	0.00134	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.5	7.5	Hz
Overswing Ratio	3.4	3.6	3.9	

Peak Vector Sum 3.51 mm/s at 0.001 sec

DGMS India (B)



a) Industrial buildings
 b) Domestic houses/structures



Time scale has been modified and may not represent the actual length of the event record
 Time Scale: 0.10 sec/div Amplitude Scale: Geo: 2.00 mm/s/div Mic: 50.0 pa.(L)/div
 Trigger = \blacktriangleleft \blacktriangleright

Sensor Check

Environmental Expenditure

Particular	Capital expenditure	Recurring expenditure
Air Pollution Control	315.25	51.45
water Pollution		17
Flooring		
Plantation		59.5
Rain water harvesting		
Environmental studies & fees		124.2
APCM power consumption		2449.133



PRISM CEMENT LIMITED

Works : Vishakhapatnam, P.O. - Bafra, Dist. Srisailam - 485 111 (A.P.) India
T.E. : 0916721 275301-2, 275321-22, Fax : 175303
Corp. Addl : 'Rajkera', Reserve Road, Sanna - 485 001 (A.P.) India
Tel. : 0916721 402726, Fax : 402710



Ref: PCL/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-IA-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/जिन्याउके-सत/बृहद उद्योग/2011/

सतना, दिनांक :-

उत्पादन प्रमाण पत्र

प्रमाणित किया जाता है कि मेसर्स ग्रिज्म सीमेंट यूनिट- 2 (ए यूनिट आफ ग्रिज्म सीमेंट लिमिटेड) ग्राम मनकहरी पोस्ट वडिया जिला-सतना (म.प्र.) को भारत सरकार उद्योग मंत्रालय से आईआईएमो पार्ट बी जारी किया गया है जिसका नं० 3406/ आईआईएम/ पीआरओडी/2011 न्यू देहली दिनांक 27-1-11 है। इसमें वर्णित उत्पाद का नाम वार्षिक स्थापित क्षमता एवं उत्पादन दिनांक निम्नानुसार है :-

क्र०	आइटम कोड	उत्पाद का नाम	स्टाल कैपिसिटी	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(म.प्र.)

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

सतना, दिनांक :- 31/3/11

मेसर्स ग्रिज्म सीमेंट यूनिट- 2 (ए यूनिट आफ ग्रिज्म सीमेंट लिमिटेड) ग्राम मनकहरी पोस्ट वडिया जिला-सतना (म.प्र.)।



महाप्रबंधक
जिला व्यापार एवं उद्योग केन्द्र,
सतना(म.प्र.)
जिला व्यापार एवं उद्योग केन्द्र,
सतना (म.प्र.)

Advertisements given in Newspapers regarding information of Public Hearing.

नव स्वदेश, दिनांक 25.07.2008
सतना

आम सूचना

सर्वसाधारण को यह सूचित किया जाता है कि प्रिज्म सीमेंट (यूनिट-II) क्लिंकर प्रोडक्शन 3.0MTPA, सीमेंट प्रोडक्शन 6.7MTPA 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 [Lttp//entor.nic.in](http://entor.nic.in) पर उपलब्ध है।

सीएम-3630

देशबन्धु, सतना
दिनांक 25.07.2008

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.