



Through E-Mail

MIN/BDR/2023/37

01st December, 2023

Τo,

Director

Ministry of Environment & Forests and Climate Change

Regional Office, Western Region

Kendriya Paryavaran Bhavan

Link Road No. 3

E - 5, Ravishankar Nagar

Bhopal - 462016

Sub: Six Monthly Compliance report of Environment Clearance over 40.236 ha area of Limestone Mine of M/s Prism Johnson Ltd. In Village Bandarakha, Tehsil Rampur Baghelan, Dist. Satna (M.P.)

Ref: Your letter no. vide no. 3080/SEIAA/13, dated 20.03.2013,

Dear Sir,

We are sending enclosed herewith the six monthly compliance report (period April 23 to September 2023) of the environmental clearance granted for limestone deposit at Village- Bandarakha, Tehsil-Rampur Baghelan, Dist. Satna (M.P.) vide the letter no.3080/SIEAA/13, dated 20.03.2013, along with necessary enclosures.

We hope you will find the same in order.

Thanking you.

Yours faithfully, For Prism Johnson Limited

Mines Manager Bandarakha Limestone Mines

Encl: As above

PRISM JOHNSON LIMITED

(Cement Division)



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

CIN: L26942TG1992PLC014033

COMPLIANCE OF CONDITIONS AS STIPULATED BY MOEF LETTER VIDE NO. 3080/SEIAA/13, DATED 20.03.2013, LIMESTONE DEPOSIT OVER 40.236 HECT. AREA IN VILLAGE BANDARAKHA, TEHSIL RAMPUR BAGHELAN, DIST. SATNA (M.P.)

A. Spe	ecific Conditions :-			
	Conditions	Compliance status		
1.	If the land belongs to the tribal person the Collector shall ensure that the tribal person gets compensation as per rule 72 of the Mineral Concession Rule 1960 and his interests are safeguarded as per State plicy.	n tribal person, therefore not applicable.		
2.	Controlled blasting will be done as per guidelines of IBM; delay detonating technique will be adopted and down hole initiation system will be adopted.	Controlled blasting is being practiced using delay detonators and down the hole initiation system.		
3.	All pollution control devices will be installed as per guidelines of CPCB/MPPCB.	Air, Noise & Water Quality is monitored regularly and found within the permissible limit. Ambient Air quality and Noise quality data attached as Annexure-2		
4.	Appropriate measures to control the silt shall be taken and reported to avoid the possible disturbance of aquatic eco system of river Tamas.	flow. Garland drain having width 2.0 to 3		
5.	Dense plantation all along the transportation road has to be taken up immediately	Extensive plantation is being done along the road. 575 nos of saplings planted between April 23 to September 23		
6.	Mine wise production record shall be maintained at site.	Mine production is being maintained. Mining is being carried out as per approved Mining Plan.		
7.	The water reservoir as proposed in 21.12 ha shall be fenced and aesthetically developed.	Will be developed as per approved mining plan and scheme of mining by IBM. Fencing is done around mine boundary.		
8.	Afforestation on 17 Ha area with minimum 17,020 numbers of trees as proposed shall be taken up with mining.	Plantation has been done in phase manner annually. Total 4720 plants have been planted on 3.85 ha area maintaining the plantation density as per the condition.		
		30,000 no.s of substitute plantation on 14 acre area has been done at Satari village		

B. GE	NERAL CONDITIONS:-	
	Conditions	Compliance status
1.	Any addition of mining area, change of Khasra numbers, enhancement of capacity, change in mining technology, modernization and scope of	No changes have been made. Will be complied, if any change is proposed.

	working shall again require prior environment clearance as per EIA notification, 2006.			
2	0	All t	ypes of mitigation measures are taken by us as	per
	measures proposed by PP in		posed plan and are mentioned below:	, boi
	Environmental Impact Assessment and approved by			
	SEAC must be ensured.		Mitigation Measures as per REIA	
		1	Wet Drilling or dry drilling with in-built cyclone and bag filter arrangement is being deployed.	
		2	Water is sprayed on haul roads using water tanker.	
		3	Maintenance and PUC of vehicles is done regularly to prevent air pollution, smoke and gaseous pollution.	
		4	Teeth of shovel are kept sharpened to avoid dust emission.	
		5	Plantation is done in phase manner to prevent dust, smoke etc.	
		7	Plantation is done on dumps for slope stabilization.	
		8	Controlled blasting with down the hole initiation is adopted which produces less noise, vibration and better fragmentation.	
		9	NONEL system of initiation is followed to minimize noise.	
		10	No. of blast holes per day are kept to a minimum.	
		11	PPEs are distributed to workers for their safety.	
		12	Appropriate subgrade drilling is being followed.	
		13	Pattern blasting is being practiced which produces less noise and vibration.	
		14	Physical barriers such as bunds/embankment and green belt are developed to prevent noise from going outside.	
		15	Garland drains and siltation tank have been constructed to prevent water pollution and in- rush of water.	
		16	Water is discharged/stored into adjoining pit after treatment with the settling pond.	
		17	Extensive plantation is being carried out around the lease periphery and Tamas River	
			side to prevent air and noise pollution.	

		10	Limestone and Overhurden is preserved	
		18	Limestone and Overburden is properly	
			handled to prevent dust emission and its	
			impact on nearby flora and fauna.	
		19	There is a school in colony in which children	
			of employees and villagers study.	
		20	A well-equipped dispensary has been	
			provided with 3 full time medical officers	
			assisted by adequate paramedical staff, for	
			the local villagers. Also, a mobile clinic van	
			along with a doctor and paramedical staff	
			makes regular visits to the nearby villages	
			and provided free medical advice and	
			medicines to the local habitants.	
		21	A two lane WBM road has been constructed	
			by the lessee connecting the national	
			highway-75 with Sljahtta village via	
			Mankahari and Bamhauri village.	
		22	Aid is provided to the needy in the villages in	
			the form of scholarships. Donations for	
			conducting sports have been given.	
-	All activities / mitigative		conducting sports have been given.	
3.	All activities / mitigative measures proposed by PP in	All t	types of mitigate measures are taken	by us as per
	Environmental Management	prop	oosed plan and are mentioned below:	
	Plan and approved by SEAC		Mitigation Measures as per EMP	
	must be ensured.		•	
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	are being planted on both sides of the approach roads.	
3	Regular maintenance and lubrication of	
	machineries is done.	
4	PPEs like ear plugs are provided to the	
	workers and employees.	
5	Controlled blasting with muffles are used to	
	minimize noise.	
Wa	ater Environment	
1	To reduce suspended solids, coming to mine	
	pits, garland drains are being constructed at	
	around the pit and around the dumps also. All	
	garland drains are connected to the settling	
	tank and the water is being used for dust	
	suppression.	
2	Mine has started its production recently. No	
	area at the pit bottom is completely	
	excavated out till now. The Sump will be	
	developed in due course of time. A siltation	
	pond has already been constructed at	
	earmarked location.	
3	Garland drains are regularly de-silted.	
La	nd Environment and Solid Waste	
Ma	anagement	
1	Dumps are stabilised by plantation on slopes.	
2	Plantation has been done in phase manner annually. Total 4720 plants have been planted on 3.85 ha area maintaining the plantation density as per the condition.	
	30,000 no.s of substitute plantation on 14	
	acre area has been done at Satari village.	
	ological Environment	
1	Fast growing plants are used.	
2	It has been observed that the species forms	
	dense canopy once grown.	
3	All the species planted are local species.	

 Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies. Blast vibration study shall be conducted and submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB within six months. The study shall also provide measures for prevention of blasting associated impact on nearby houses and agricultural fields. Controlled blasting techniques with sequential drilling shall be carried out in the day time only. Controlled blasting techniques with sequential drilling shall be adopted. The blasting shall be carried out in the day time only. Slope of mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines. A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Regional Office, MOEF, Gol, Bhopal and MP PCB A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Regional Office, MOEF, Gol, Bhopal and MP PCB 			1					
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 and all the provisions of applicable statutes and all directions/guidelines of approving authorities, like DGMS, IBM are strictly followed. ^{7.} Slope of mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines. ^{8.} A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB within 5 	6.	with sequential drilling shall be adopted. The blasting shall be carried out in the day time	detonators (Nonel), limiting charge per delay and blast size. Moreover, periodical blasting study is conducted by scientific bodies, like AKS University, to evaluate and establish the safe practice of blasting so as to eliminate/minimize any adverse impact of blasting in					
 Slope of mining bench and ultimate pit limit shall be maintained as per mining scheme approved by Indian Bureau of Mines. ^{8.} A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB within 5 			and all the provisions of applicable statutes and all directions/guidelines of approving authorities, like DGMS,					
A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB within 5	7.	ultimate pit limit shall be as per the mining scheme approved	as per mining scheme approved by Indian Bureau of Mines					
years in advance of final mine closure for approval.	8.	along with details of Corpus Fund, shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB within 5 years in advance of final mine	Agreed. We will Submit as per stipulation.					
 ^{9.} No change in calendar plan including excavation, quantum of mineral and waste shall be made. No changes have been made. Figures of limestone production to be furnished. Production Plan for last five years for 40.236 ha. 	9.	including excavation, quantum of mineral and waste shall be	Figures of limestone production to be furnished.					
			-				Productio n within EC limits	
			1. 2018- 19	200000	240000	192560		

			2010		1			
		۷.	2019- 20	240000	240000	143684		
		3.	2020- 21	240003	240000	239923		
		4.	2021- 22	500000	240000	239685		
		5.	2022- 23	500013	240000	239390		
10.	Mining will be carried out as per the approved mining plan. In case of any violation of mining plan, the Environmental clearance given by SEIAA will be stand cancelled.	Mining is being carried out as per the approved mining plan by IBM.						
11.	Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.	NOT APPLICABLE. The deposit is single mineral deposit hence, condition no applicable.						
12.	The transportation of the minerals extracted from the mining area shall be limited to day hour time only.	 only. All transportation is through internal roads which are motorable, rehabilitated with stone chips and stone dust on regular basis. No local roads are being used for mineral transportation and, the roads are maintained regularly. 					y hours	
13.	Maintenance of nearby local roads through which transportation of minerals are undertaken shall be carried out by company regularly at its own expenses. The roads shall be blacked topped.							
14.	Measures of prevention and control of soil erosion and management of slit shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable mineral and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.	Soil and waste dumps are stacked as per approved scheme of mining and are protected from erosion by carrying out suitable plantation, construction of toe drains and retaining wall. Also, no permanent dumps are present and temporary dumps will be used for backfilling.						

15.	Trenches/garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest slit from being carried to water bodies. Adequate number of check dams and gully plugs shall be constructed across seasonal/perennial Nallahs, if any, flowing through the ML area and silts arrested. De- silting at regular intervals shall be carried out.	Trenches/garland drains with settling pond is being constructed at foot of dumps and these drains connect to settling pond which is de-silted at regular intervals. There is no water body, streams exist within the ML area neither seasonal nor perennial. The water discharge from the mine is nil. Siltation pond has been constructed to arrest the silt.
16.	The project proponent will ensure necessary protection measures around the mine pit, waste dumps and garland drain.	Proper berms garland drains and fensing are constructed around mine pit area and garland drains with retaining wall have been provided.
17.	Top soil / solid waste shall be stacked properly with proper slope and adequate safeguards and shall be utilized for backfilling (where ever applicable) for reclamation and rehabilitation of mined out area. Top soil	Top soil/ solid waste generated during mining is stacked separately & will be used for reclamation of mined out area by spreading it over the waste rock after backfilling. Dumps are maintained as per mine plan. Dumps are temporary. The top soil is being used for greenbelt development. The stored soil will also used for plantation in barrier zones and over backfilled area to be developed in future.

	shall be separately stacked for	
	utilization later for reclamation and shall not be stacked along with over burden.	
18.	Over burden(OB)shall be stacked at earmarked dumpsite(s) only and shall not be kept active for long period., The maximum height of dump shall not exceed 20m, each stage shall preferably be of maximum 10 m and overall slope of the dump shall not exceed 35°. The OB dump shall be backfilled and shall be scientifically vegetated with suitable native species to prevent erosion and surface run off.	The Overburden generated during mining has been stacked at earmarked dump site only and is being stacked in 1 or 2 stages, height of each stack not exceeding 10m and slope not exceeding 35°. The dumps shall be backfilled as approved mine plan by IBM. Plantation is being done on dumps for slope stabilization and to prevent surface runoff.
19.	Minimum 1000 plants shall be planted in one year and 5000 plants shall be planted in first five years.	 Plantation has been done in phase manner annually. Total 4720 plants have been planted on 3.85 ha area maintaining the plantation density as per the condition. 30,000 nos of substitute plantation on 14 acre area has been done at Satri village.
20.	Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB on six monthly basis.	Requirement is being complied. The compliance reports are being sent every six months to the Regional Office, MoEF, Gol, Bhopal and MPPCB.
21.	By the end of the lease period 33% of the area should be brought under plantation.	Out of 32.15 ha of broken area, 10.75 ha will be reclaimed and rehabilitated by way of backfilling and plantation at the end of life of the mines.
22.	Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with local DFO/Agricultural Deptt. Herbs / shrubs shall also form a part	Greenbelt is being developed in phased manner. All plants species are selected on recommendations of District Forest Officer and local villagers. The compliance reports are being sent every six months to the Regional Office, MoEF, Gol, Bhopal and MPPCB. Species list from DFO & local villagers

	of afforestation programme besides tree plantation. The company shall involve local people for plantation programme. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB every year.	
23.	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of minerals and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. The vehicles transporting minerals shall be covered with a tarpaulin or other suitable enclosures so that no dust particles / fine matters escape during the course of transportation. No overloading of minerals for transportation shall be committed. The truck transporting minerals shall not pass through wild life sanctuary, if any in the study area.	Emission from the vehicles engaged in the Prism Cement is kept under control. A centralized workshop has been established. 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 vehicles without valid PUC area allowed to be deployed inside the plant and mines area.The vehicles engaged in transportation of minerals outside the core zone will be provided with tarpaulin and overloading is not allowed.
24.	For ambient air quality monitoring stations shall be established in core zone as well as in the buffer zone for RSPM,SPM,SO2,NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in	Ambient air quality monitoring for the given parameters will be done as per the directions given and data generated is being uploaded on company website.

	consultation with State Pollution Control Board. The monitored data for criteria pollutants shall be regularly uploaded and displayed on the company's website.						
25.	Data on ambient air quality (RPM, SPM, SO2, and NOx) should be regularly submitted to the Regional Office, MoEF, Gol, Bhopal and state Pollution Control Board / Central pollution control Board once in six months.	 The compliance reports are being sent every six need the Regional Office, MoEF, Gol, Bhop MPPCB.Ambient air quality monitoring results have given in Annexure 02. 					
26.	Ambient air quality at the boundary of mine premises shall confirm to the norms prescribed in MoEF notification No. GSR/826(E) dtd. 16.11.09.	within NAAQS standards. Ambient air quality monitor results attached as Annexure 2.					
27.	Fugitive dust emissions from all sources shall be controlled. Water spraying arrangement on haul, roads, loading and unloading at transfer points shall be provided and properly maintained. The dust emission shall be monitored regularly as per norms and records to be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB regularly.	d. suppression. Wet drilling is being practiced. Vehicle is limited below 20 km/hr. Regular monitoring of emission is being done through NABL/ M accredited laboratory. Dust emission norms are complied and the report is being submitted. The compliance report are being sent every six mon the Regional Office, MoEF, Gol, Bhopal and MPPCE al					
28.	Measures shall be taken control of noise level below 75dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs/muffs and health records of workers shall be maintained.	and report is being submitted to MPPCB on monthly b Noise monitoring report have been given in Annexure All the workers engaged in mining activity shall be prov the PPEs including ear plugs and muffs and health che is being done and records being maintained.					

		Plug Ear muff	280	2240	
		Safety Shoes	330	335940	
		TOTAL	1265	381048.2	
29.	Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB within six months and thereafter every year from the next consequent year.	Rainwater harvesting 12 Nos of rooftop abandoned pits and 4 constructed inside plan Other than this, the co like, construction of wa ponds, pond deepeni perforated drum water l	practice rainwa 1 nos d t, mines mpany ater ha ng, ma	es have been im ater harvesting of recharge pits s and township. has taken variou rvesting structure aintenance of ch	system, 4 have been s initiatives s on wells,
30.	Regular monitoring of ground and surface water sources for level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried four times a year i.e. pre- monsoon (April-May) ,Monsoon (August), Post monsoon (November) and winter(January) and the data thus collected shall be regularly sent to the Regional Office, MoEF, Gol, Bhopal and MP PCB ,Central Ground Water Authority and Regional Director , Central Ground Water Board.	12 Piezometers have a level. Water level and Monsoon, Monsoon, P Report of monitoring is &CC Bhopal, MPPCB, quality report and level Since the mine working water table, there is not water.	d quali Post Mo genera and CG is attac ng is r	ty is analyzed i insoon, and winte ated and submitte SWA & CGWB. G shed is Annexure restricted above	n Pre - er seasons. d to MoEF- roundwater - 4 the ground
31.	The waste water from the mine if any shall be treated to confirm 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 oil and grease trap shall be installed for the effluents generated from the workshop, if any, before discharging into the natural stream. The discharged water from tailing	Not Applicable. No workshop in lease a for all leases with appro			n workshop

 dam,if any shall be regularly monitored and report submitted to the Regional Office, MoEF, Gol, Bhopal, Central Pollution Control Board, and the State Pollution Control Board. ^{32.} Hydro-geological study of the area shall be reviewed by project proponent annually.In case adverse effect on ground water quality and quantity is observed mining shall be stopped and resumed only after mitigating steps to contain any adverse impact on ground water is implemented. ^{33.} Occupational health checkup 	The hydrogeological study of the area is reviewed as required. Excavation of limestone is proposed up to only 16m and currently we are working at a depth of 10m to 14m only. Water table will not be intersected. Regular monitoring of groundwater is carried out via piezometers.
Occupational health checkup for workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipment etc. shall be carried out periodically. Review of impact of various health measures shall be conducted followed by follow up action wherever required. It should be made available for inspection whenever asked. Necessary funds for this also should be earmarked.	Periodical Medical Examinations are conducted for each employee by outside specialists once in every 5 years. Under this scheme each employee undergoes Pathological tests, blood group test, chest X-Rays, Audiometry tests, eye test etc. once every 5 years. Proper records of such tests are maintained. All the workers engaged in mining activityis provided with the PPEs including ear plugs and muffs and health checkup is being done and records being maintained. Awareness training programs related to health and safety is given to all workers at VT centre. The Report of the OHC is attached as Annexure 5 for reference.

34.	Project proponent shall ensure appropriate arrangement for shelter and drinking water for the mine workers.	Appropriate arrangeme provided in the adjace Drinking water is suppl flasks	ent min	e for all the min	e workers.	
35.	Person working in dusty areas shall be provided with protective respiratory devices	PPE's are provided to e Respiratory devices	are be		e persons	
	and they shall also be imported adequate training and information on safety and health aspects.	working in dusty areas. Adequate training on Integrated Management s safety and health awareness is being provided to w frequently.				
		PPEs distribution details are as follows:				
		Total PPE's for Min	nes- Jan 2	23 to Nov 23		
		Material	Qty.	Amount in Rs.		
		Dust Mask	180	2741.4		
		Google Safety Glass PVC.	60	3049.8		
		Hand Gloves	160	5472		
		Helmet Industrial Safety Jacket fluorescent High	65	7475		
		Visibility Wear	190	24130		
		Plug Ear muff	280	2240		
		Safety Shoes	335940			
		TOTAL	1265	381048.2		
36.	Commitment towards CSR has to be followed strictly.	Being followed. Various programs for t been taken up by educational, healthcare been taken by the co been provided; Constr been done. Installation whitewash of Govern renovation of Bahuudde consultation & medicin centre Out door patie eye Camp for catarac Nos.). 24 hrs ambuland cost and many other CSR.CSR expenditure attached as Annexure	the e and o mpany. uction o of new ment eshiya l nes dis nt to n t patier ce facilit activitie for the	company. Vario environment initia Drinking water of WBM roads, T whand-pumps wit Middle & Prima Bhavan has been tribution from PC earby villagers.O the from nearby village s have been und	us social, atives have facility has oilets have th borewell, ry School, done. Free CL Medical organisation villages (20 ers free of dertaken in	
37.	Special measures shall be adopted to prevent the nearby settlements from the impacts of mining activities.	There is no nearby se mines. the nearest sett measures is being ado of MMR 1961 and Mine	lement	is more than 250ı hile mining as per	m away. All r guidelines	

		the co	ommunity.			
38.	The project proponent shall inform to the to the Regional Office, MoEF, Gol, Bhopal and MP PCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	MPPC appro	ntimation has been s CB regarding date of val of the project by ate of start of land dev oject.	of financial the concer	closures and finance finance and authorities an	al Id
39.	The necessary funds as per mandate shall kept for environmental protective measures which should be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported	fund f not di The c enviro Year	lying with the given of for environmental pro- verted for any other pro- capital cost and recur onmental protection is wise expenditure is hly compliance report.	tection equi urpose. ring cost an given below	pment the fund winn num earmarked fo	ill or
	to the Regional Office, MoEF, Gol, Bhopal and MP PCB.	S. No	. Particulars	Proposed Capital cost	Proposed Annual recurring cost	
		1.	Pollution Control	4.19	0.23	
		2.	Pollution Monitoring	-	2	
		3.	Occupational Health & Safety	-	1.31	
		4.	Afforestation	-	1.4	
		5.	Reclamation / Rehabilitation of mined out area	0	3	
		6.	Others (Fencing and safety)	5.76	-	
		7.	Environmental Studies & Fees	0.8	0.44	
			Total	10.75	8.38	
		L		<u> </u>	(in Lac Rupees	s)
40.	The Regional Office, MoEF, Gol, Bhopal and MP PCB shall monitor compliance of the stipulated conditions. A	MoEF being	ed. The Six monthly C CC, Bhopal and MPI monitored as per the entioned in table belo	PCB regular norms. The	ly and the same i	is

	complete set of documents		Year	Bandarkha Limestone	Mine	
	including Environment impact Assessment Report,			Dispatch no.	Date	
	Environmental Management		2019	MIN/2019/ BDR/038	01.06.2019	
	Plan, public Hearing and other relevant documents should be		2019	MIN/2019- BDR/90	04.12.2019	
	given to the Regional Office,		2020	MIN/2020- BDR/0140	01.06.2020	
	MoEF, Gol, Bhopal and MP PCB.		2020	MIN/2020- BDR/0169	02.12.2020	
				MIN/2021- BDR/087	01.06.2021	
			2021	MIN/2021- BDR/058	01.12.2021	
				MIN/2022-BDR/31	01.06.2022	
			2022	MIN/2022-BDR/50	01.12.2022	
			2023	MIN/BDR/2023/22	01.06.2023	
	clearance shall be submitted by the project proponent to the Heads of the local Bodies, Panchayat and Municipal Bodies, as applicable, in addition to the relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt.			Panchayat and SE ched as Annexure 7 .	DO Office, R	ampur
42	The project proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of State Level Environment Impact Assessment Authority (SEIAA) website at <u>www.mpseiaa.nic.in</u> and a copy of the same shall be forwarded to the Regional	•		ws of accorded EC w	vas published	in two

	Office, MoEF, Gol, Bhopal.							
43.	The project proponent has to strictly follow directions/guideline issued by MoEF, Gol, CPCB and other Govt. agencies from time to time.	Agreec	1.					
44.	Action plan with respect to suggestion/ improvement and recommendations made and agreed during public hearing consultation shall be submitted to the regional Office, , MoEF, Gol, Bhopal and MP PCB and to the competent authority of state govt. within six months.	-		tus of suggestions an g public hearing is end				
45.	The project proponent has to submit half yearly compliance report of the stipulated prior environmental clearance terms			hly Compliance repor e reference letter nos a Bandarkha Limestone	re mentioned i			
	and conditions in hard and soft			Year	Dispatch no.	Date		
	copy to the regulatory Authority on 1 st June and 1 st December of each calendar year.		2019	MIN/2019/ BDR/038	01.06.2019			
						MIN/2020- BDR/0140	01.06.2020	
			2020	MIN/2020- BDR/0169	02.12.2020			
			2021	MIN/2021- BDR/087	01.06.2021			
				MIN/2021- BDR/058	01.12.2021			
			2022	MIN/2022-BDR/31	01.06.2022			
				MIN/2022-BDR/50	01.12.2022			
			2023	MIN/BDR/2023/22	01.06.2023			
46.	The SEIAA of MP reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the environment clearance under the provisions of the	Agreec	ł.					

	environmental (protection) Act,1986,to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	
47.	These stipulations would be enforced among others under the provisions of water(Prevention and control of pollution) act,1974,the air(Prevention and control of pollution) Act 1981,the Environment(Protection) Act,1986 the public Liability (insurance) Act 1991 and EIA Notification,2006.	Agreed.
48.	The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment Protection.	Agreed.
49.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may results In withdrawal of this clearance and attract action under the provisions of environment (protection) Act, 1986.	We understand that concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may results In withdrawal of this clearance and attract action under the provisions of environment (protection) Act, 1986.
50.	Any appeal against this prior. Environmental Clearance shall lie with the green tribunal, If necessary, within a period of 30 days as prescribed under section 16 of the national Green tribunal Act, 2010.	Agreed.
51.	All other statutory clearances such as the approvals for storage of diesel from chief	Not applicable.

	controller of explosives, fire department, civil aviation department, Forest conservation act, 1980 and wildlife (protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective component authorities.					
52.	The proponent shall upload the status of compliances of stipulated EC conditions, including results of monitored data on their website and shall update the same periodically.	on com The si every y zonal o	npany we ix mont year to office of	hly Compliance repor the regional office of CPCB and the SPCB.	rt is submitted tw MoEF, the respec	/ice tive
	It shall simultaneously be sent	nos are	e mentio	ned in table below: Bandarkha Limestone	Mine	
	to the regional office of MoEF, the respective zonal office of		Year	Dispatch no.	Date	
	CPCB and the SPCB. The criteria pollutant levels			MIN/2019/ BDR/038	01.06.2019	
	namely,SPM, RSPM,SO2, NOx (ambient levels as well as		2019	MIN/2019- BDR/90	04.12.2019	
	stack emissions) or critical		2020	MIN/2020- BDR/0140	01.06.2020	
	sectoral parameters, indicated for the projected shall be			MIN/2020- BDR/0169	02.12.2020	
	monitored and displayed at a convenient location near the		2021	MIN/2021- BDR/087	01.06.2021	
	main gate of the company In			MIN/2021- BDR/058	01.12.2021	
	the public domain.		2022	MIN/2022-BDR/31	01.06.2022	
				MIN/2022-BDR/50	01.12.2022	
			2023	MIN/BDR/2023/22	01.06.2023	
53.	The environmental statement for each financial Year ending 31st march in form-V as is mandated to be submitted by the project proponent to the Concerned state pollution control board as Prescribed under the environment (protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the	submit		ental statement for fina MPPCB Vid letter no 23.		

status of compliances of EC condition and shall also be sent to the regional office of	
MoEF.	

Suggestions received during Public Hearing of 40.236 Ha Badarkha Limestone Mines of M/s Prisn Cement Limited at Govt. Primary Shala, Badarkha Dated 07.07.2012

Sijahata improved requirement 2 Smt. Shanti Kori, Sarpanch, Vill – Hinauti, Dist - Satna Requested for employment to villagers, plantation, requested the villagers to cooperate the company in establishing the mines Thanks for your co-op Dense plantation will be mines periphery, employme be given according to eligi requirement 3 Shri Jagdish Singh S/O Sukhdev Singh Vill- Badarkha, Distt – Satna Area will be developed, employment will be given to villagers, no objection in establishing mines Thanks for your co-op employment will be according to eligibil requirement 4 Shri Mohit Singh, S/O Shri Ram Charit Singh Vill- Badarkha, Distt – Satna Area will be developed, employment will be given to villagers Thanks for your co-op employment will be according to eligibil requirement 5 Shri Rohini Singh, Vill – Badarkha, Distt – Agree with project implementation, Area will be developed, employment will be given to Thanks for your co-op employment will be	given ity & peration. done in sent will bility & peration,
President, Sahkari Samiti Vill- Sijahata development of the area will take place, social status of general public of the area will be improved employment will be according to eligibil requirement 2 Smt. Shanti Kori, Sarpanch, Vill – Hinauti, Dist - Satna Requested for employment to villagers, plantation, requested the villagers to cooperate the company in establishing the mines Thanks for your co-op Dense plantation will be mines periphery, employment be given according to eligibil requirement 3 Shri Jagdish Singh S/O Sukhdev Singh Vill- Badarkha, Distt – Satna Area will be developed, employment will be given to villagers, no objection in establishing mines Thanks for your co-op employment will be according to eligibil requirement 4 Shri Mohit Singh, S/O Suta Area will be developed, employment will be given to villagers Thanks for your co-op employment will be according to eligibil requirement 5 Shri Rohini Singh, Vill – Badarkha, Distt – Agree with project implementation, Area will be developed, employment will be given to Thanks for your co-op employment will be according to eligibil	given ity & peration. done in sent will bility & peration, given
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Sukhdev Singh Vill- Badarkha, given to villagers, no objection in establishing mines employment will be according to eligibil requirement 4 Shri Mohit Singh, S/O Shri Ram Charit Singh Vill- Badarkha, Distt - Satna Area will be developed, employment will be given to villagers Thanks for your co-op employment will be according to eligibil requirement 5 Shri Rohini Singh, Vill - Badarkha, Distt - Agree with project implementation, Area will be developed, employment will be given to Thanks for your co-op employment	given
Badarkha, Distt mines according to eligibili 4 Shri Mohit Singh, S/O Shri Ram Charit Singh Vill- Badarkha, Distt Area will be developed, employment will be given to villagers Thanks for your co-op employment will be according to eligibili requirement 5 Shri Rohini Singh, Vill - Badarkha, Distt Agree with project implementation, Area will be developed, employment will be given to Thanks for your co-op employment	-
Shri Ram Charit Singh Vill- Badarkha, Distt – Satna given to villagers employment will be according to eligibili requirement 5 Shri Rohini Singh, Vill – Badarkha, Distt – Agree with project implementation, Area will be developed, employment will be given to Thanks for your co-op employment will be	
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Satna requirement 5 Shri Rohini Singh, Vill Agree with project implementation, Area will Thanks for your co-op - Badarkha, Distt - be developed, employment will be given to employment will be	ity &
- Badarkha, Distt - be developed, employment will be given to employment will be	-
Satna villagers according to eligibili requirement	ity &
6 Shri Ganesh Singh, Agree with project implementation, Area will Thanks for your co-op	veration,
Vill - Badarkha, Distt be developed, employment will be given to employment will be according to eligibili	
requirement	ity &
7 Shri Ramesh Singh, Vill - Badarkha, Distt be developed, employment will be given to employment will be given to	
-Satna villagers according to eligibil	ity &
Shri Hari Shankar 1- Noise Pollution due to blasting Controlled blasting will be	done at
Tiwari, Vill - Mau, - bearing impairment mental ill per guidelines of IBM	, delay
Distt - Rewa health etc. detonating technique w	
impairment or mental ill 1	-
possible	
 Air pollution due to Blasting, Air pollution control devi 	ces will
cement manufacturing process be installed at all the point	sources
and have been already ins various locations (emission	
in plant.	•
3- Increase of pollutant matter in Wet drilling will be done air spray on haul roads.	a, water
 Water pollution due to settling All due care will be made the dust generated at 	
of dust, stone and smoke from ground water level a	vill be
air into water body, ground improved due to collect rainy water in abandone	
water level will also be affected.	
5- Geological problems – all the No mining will be done living being will be scared of permitted depth assigned	
vibration caused due to by which no effect is envis	aged on
blasting. Mining will be deeper release of poisonous	
	23505
enough due to which earth earthquake and landslide	gases,
	gates,

 earthquake and landslide may be caused 6- Mental problems – pollutants released may cause mental ill health, man of an ordinary prudence, thinking ability etc will also be affected. 7- Physical problems – mining will cause physical problems in 50 km of radius. Progenies will face problems of infertility, handicapped, dwarfness, annoyance, madness etc. 8- Problems of Homes- cracks in 	All the pollution control devices will be installed as per guidelines of CPCB/ MPPCB to avoid the release of pollutant. Cause of mental ill health is not possible. No possibility of any such physical problems
walls or collapse of buildings within 10-15 years	guidelines of IBM and ground vibration will be monitored regularly, vibration will not be enough to cause harm to the homes as all the guidelines of IBM will be followed
 Effects on youths & pregnant ladies- development of infants, youths and pregnant ladies will be affected. 	Not acceptable, no effect on development of infants, youths and pregnant ladies, with the compliance of statutory guidelines
10- Effects on farmers – life of farmers will be ill affected who are tolally dependent on agriculture	Not acceptable, due to compliance of related guidelines of the Govt., there will be no adverse effect. Life style will be improved.
11- Affection with parental birth place- people who leaves their homes even without their own will	There is no habitation in the lease area hence the allegation is not acceptable





signal.

5445



Sample Number : VTL	L/AA/21	Repo	rt No. : VTL/A/2306170005/A
	M/s PRISM JOHNSO	N LIMITED Form	at No : 7.8 F-02
	Village- Mankahari, T	ehsil- Rampur Baghelan, Dist Party	Reference No : NIL
	Satna (M.P.)	Repo	rt Date : 23/06/2023
Name & Address of the I	Party :	Perio	d of Analysis : 17/06/2023-23/06/2023
		Rece	ipt Date : 17/06/2023
Sample Description	: AMBIENT AIR QUAL	ITY MONITORING	
General Infor	mation:-		
Sampling Loca	tion	: Village - Kulhari (Bandarkha M	ine)
Sample Collect	ted By	: VTL Team	
Sampling Equi	pment used	: RDS/FPS	
Instrument Coo	de	: VTL/RDS/FPS/03	

Instrument Code		VIL/RDS/FPS/03	
Coordinates	:	81.034753 & 24.567341	
Meteorological condition during monitoring	1	Clear Sky	
Date of Monitoring	:	12/06/2023 To 13/06/2023	
Time of Monitoring	:	17:30 to 17:30 Hrs.	
Ambient Temperature (°C)	:	Min.32° Max 43°	
Surrounding Activity	1	Human, Vehicular & Other Activities	
Scope of Monitoring	:	Regulatory Requirment	
Method of Sampling	1	IS :5182	
Sampling Duration	1	24 Hrs.	
Parameter Required	:	As per work order	

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	58.70	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	26.46	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	15.24	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.69	µg/m³	80

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

End of Report











Page No. 1/1

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

Vibrant Techno Lab Pvt. Ltd.

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2 0141-2954638

🖾 bd@vibranttechnolab.com



TEST REPORT

Sample Number : VTL/AA/21		Report No.	: VTL/A/2306170005/B			
M/s PRISM JOHNSON	LIMITED	Format No	• 7.8 F-02			
	hsil- Rampur Baghelan, Dist					
Satna (M.P.)	ilisii- Rampur Dagilelan, Dist	Report Date	: 23/06/2023			
Name & Address of the Party :		Period of Analysis	: 17/06/2023-23/06/2023			
		Receipt Date	: 17/06/2023			
Sample Description : AMBIENT AIR QUALIT		Receipt Date	. 1//00/2023			
General Information:-		10 <u>1</u>				
Sampling Location	: Village - Kulhari (Bandar	kha Mine)				
Sample Collected By	: VTL Team	1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -				
Sampling Equipment used	: RDS/FPS : VTL/RDS/FPS/03					
Instrument Code						
Coordinates	: 81.034753 & 24.567341					
Meteorological condition during monitoring	: Clear Sky					
Date of Monitoring	: 12/06/2023 To 13/06/20	23				
Time of Monitoring	: 17:30 to 17:30 Hrs.					
Ambient Temperature (°C)	: Min.32° Max 43°					
Surrounding Activity	: Human, Vehicular & Oth	er Activities				
Scope of Monitoring	: Regulatory Requirment					
Method of Sampling	: IS :5182					
Sampling Duration	: 24 Hrs.					
Parameter Required	: As per work order					

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.50	mg/m³	4

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

End of Report









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Sample Number : VTL/AA/20		Report No.	: VTL/A/2306170006/A				
M/s PRISM JOH	NSON LIMITED	Format No	: 7.8 F-02				
Village- Mankaha	iri, Tehsil- Rampur Baghelan, Dist	Party Reference No	: NIL				
Satna (M.P.)		Report Date	: 23/06/2023				
Name & Address of the Party :		Period of Analysis	: 17/06/2023-23/06/2023				
		Receipt Date	: 17/06/2023				
Sample Description : AMBIENT AIR Q	UALITY MONITORING						
General Information:-							
Sampling Location	: Village - Chulhi (Bandari	kha Mine)					
Sample Collected By	: VTL Team	: VTL Team					
Sampling Equipment used	: RDS/FPS	: RDS/FPS : VTL/RDS/FPS/02					
Instrument Code	: VTL/RDS/FPS/02						
Coordinates	: 81.002619 & 24.594461						
Meteorological condition during monitor							
Date of Monitoring	: 12/06/2023 To 13/06/20	23					
Time of Monitoring	: 15:20 to 15:20 Hrs.						
Ambient Temperature (°C)	: Min.32° Max 43°						
Surrounding Activity	: Human, Vehicular & Oth	er Activities					
Scope of Monitoring	Regulatory Requirment						
Method of Sampling	: IS:5182						
Sampling Duration	: 24 Hrs.						
	LTTIN.						

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	61.20	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	24.79	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	13.82	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.52	µg/m³	80

: As per work order

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

Parameter Required

End of Report











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Sample Number : VTL/AA/20	Report No.	: VTL/A/2306170006/B
M/s PRISM JOHNSC	IMITED Format No	: 7.8 F-02
Village- Mankahari, 1	ehsil- Rampur Baghelan, Dist Party Reference	ce No: NIL
Satna (M.P.)	Report Date	: 23/06/2023
Name & Address of the Party :	Period of Anal	ysis : 17/06/2023-23/06/2023
	Receipt Date	: 17/06/2023
Sample Description : AMBIENT AIR QUAI		
General Information:-		
Sampling Location	: Village - Chulhi (Bandarkha Mine)	
Sample Collected By	: VTL Team	
Sampling Equipment used	: RDS/FPS	
Instrument Code	: VTL/RDS/FPS/02	
Coordinates	: 81.002619 & 24.594461	
Meteorological condition during monitoring	: Clear Sky	
Date of Monitoring	: 12/06/2023 To 13/06/2023	
Time of Monitoring	: 15:20 to 15:20 Hrs.	
Ambient Temperature (°C)	: Min.32° Max 43°	
Surrounding Activity	: Human, Vehicular & Other Activities	
Scope of Monitoring	: Regulatory Requirment	
Method of Sampling	: IS :5182	
Sampling Duration	: 24 Hrs.	

As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009	
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.47	mg/m³	4	

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

Parameter Required

End of Report









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Sample	Number :	VTL/AA/19				Report No.	: VTL/A/2306170007/A
			M/s PRISM JOHNSON	LIM	ITED	Format No	7.8 F-02
			Village- Mankahari, Tel	hsil-	Rampur Baghelan, Dist	Party Reference No	: NIL
			Satna (M.P.)			Report Date	: 23/06/2023
Name &	Address of	the Party :				Period of Analysis	: 17/06/2023-23/06/2023
						Receipt Date	: 17/06/2023
Sample	Description		AMBIENT AIR QUALIT	TY M	ONITORING		
	General I	nformation:					
	Sampling I	Location		:	Village - Hinauta (Banda	arkha Mine)	
	Sample Co	llected By		:	VTL Team	5 .	
	Sampling I	Equipment u	sed	:	RDS/FPS		
	Instrument	t Code		:	VTL/RDS/FPS/01		
	Coordinate	es		:	80.985206 & 24.569934		
	Meteorolog	gical condition	on during monitoring	:	Clear Sky		
	Date of Mo	onitoring			12/06/2023 To 13/06/20	23 -	
	Time of Mo				14:30 to 14:30 Hrs.		
	Ambient To	emperature (°C)	3	Min.32° Max 43°		
	Surroundi		22	2	Human, Vehicular & Oth	ner Activities	
				12			

- Scope of Monitoring Method of Sampling Sampling Duration Parameter Required
- : Regulatory Requirment : IS :5182 : 24 Hrs.
 - : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	67.06	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	30.21	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	17.00	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.00	µg/m³	80

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

End of Report







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TEST REPORT

Sample Number : V	TL/AA/19				Report No.	: VTL/A/2306170007/B
12		M/s PRISM JOHNS	ON LIM	ITED	Format No	: 7.8 F-02
		Village- Mankahari, Tehsil- Rampur Baghelan, Dist. Satna (M.P.)		Rampur Baghelan, Dist	Party Reference No	: NIL
					Report Date	: 23/06/2023
Name & Address of the	e Party :				Period of Analysis	: 17/06/2023-23/06/2023
					Receipt Date	: 17/06/2023
Sample Description	:	AMBIENT AIR QUA	LITY M	ONITORING		
General Info	ormation:	•				
Sampling Loo	cation		:	Village - Hinauta (Banda	arkha Mine)	
Sample Colle	cted By		:	VTL Team		
Sampling Equ	uipment us	sed	:	RDS/FPS		
Instrument C	ode		:	VTL/RDS/FPS/01		
Coordinates				80.985206 & 24.569934		

: Clear Sky

Date of Monitoring	: 12/06/2023 To 13/06/2023
Time of Monitoring	: 14:30 to 14:30 Hrs.
Ambient Temperature (°C)	: Min.32° Max 43°
Surrounding Activity	: Human, Vehicular & Other Activities
Scope of Monitoring	: Regulatory Requirment
Method of Sampling	: IS :5182

24 Hrs.

: As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.55	mg/m³	4

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

Sampling Duration

Parameter Required

Meteorological condition during monitoring

End of Report









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Sample Number :	VTL/AA/18				Report No.	:	VTL/A/2306170008/A
		M/s PRISM JOHNS	ON LIM	ITED	Format No	:	7.8 F-02
		Village- Mankahari,	Tehsil- I	Rampur Baghelan, Dist	Party Reference No	:	NIL
		Satna (M.P.)			Report Date	:	23/06/2023
Name & Address of	f the Party	:			Period of Analysis	:	17/06/2023-23/06/2023
					Receipt Date	:	17/06/2023
Sample Description	n	AMBIENT AIR QUA	LITY M	ONITORING			
General	Information	-					
Sampling	Location		:	Village - Badarkha (Ban	darkha Mine)		
Sample C	ollected By		:	VTL Team			
Sampling	Equipment u	sed	:	RDS/FPS			
2 2	1999 - 11 B						

Sampling Equipment used		RDS/FPS
Instrument Code	:	VTL/RDS/FPS/03
Coordinates	:	80.982443 & 24.584626
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	11/06/2023 To 12/06/2023
Time of Monitoring	:	16:40 to 16:40 Hrs.
Ambient Temperature (°C)	:	Min.31° Max 42°
Surrounding Activity	:	Human, Vehicular & Other Activities
Scope of Monitoring	:	Regulatory Requirment
Method of Sampling	1	IS :5182
Sampling Duration	11	24 Hrs.
Parameter Required	1	As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	72.90	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	37.55	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	15.97	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2)-2001, RA. 2018	11.68	µg/m³	80

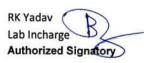
*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

End of Report











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Sample Number : VTL/AA/18			Report No.	: VTL/A/2306170008/B
	M/s PRISM JOHNSON LIN	ITED	Format No	: 7.8 F-02
	Village- Mankahari, Tehsil-	Rampur Baghelan, Dist	Party Reference No	: NIL
	Satna (M.P.)		Report Date	: 23/06/2023
Name & Address of the Party :			Period of Analysis	: 17/06/2023-23/06/2023
			Receipt Date	: 17/06/2023
Sample Description :	AMBIENT AIR QUALITY N	ONITORING		
General Information:				
Sampling Location	:	Village - Badarkha (Ban	darkha Mine)	
Sample Collected By	:	VTL Team		
Sampling Equipment us	sed :	RDS/FPS		
Instrument Code	:	VTL/RDS/FPS/03		
Coordinates	:	80.982443 & 24.584626		
Meteorological condition	on during monitoring :	Clear Sky		
Date of Monitoring	:	11/06/2023 To 12/06/20	23	
Time of Monitoring	:	16:40 to 16:40 Hrs.		
Ambient Temperature (°C) :	Min.31° Max 42°		
Surrounding Activity	:	Human, Vehicular & Oth	ner Activities	
Scope of Monitoring	:	Regulatory Requirment		
Method of Sampling	1./=	IS :5182		
Sampling Duration	12	24 Hrs.		
Parameter Required		As per work order		

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.59	mg/m³	4

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

End of Report







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TEST REPORT

WEEK.



Method of sampling

: IS :3025



VTL/GW/07 : VTL/W/2306170007/A Report No. Name & Address of the Party : M/s PRISM JOHNSON LIMITED : 7.8 F-01 Format No Village- Mankahari, Tehsil- Rampur Baghelan, Dist. -Party Reference No : NIL Satna (M.P.) **Report Date** : 23/06/2023 Period of Analysis : 17/06/2023-23/06/2023 Sample Description : Water Sample **Receipt Date** : 17/06/2023 Sampling Location : Bandakha Village - Borewell Sampling Date : 12/06/2023 Sample Collected By Sampling Type : VTL Team : Grab Preservation Sample Quantity : Suitable Preservation : 2 Ltr.

S.No.	Test Parameters	Test Parameters Test Method		Units	IS:10500-2012		
					Acceptable Limit	Permissible Limit	
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.39		6.5 to 8.5	No Relaxation	
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5	
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	250.00	mg/l	200	600	
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	82.16	mg/l	75	200	
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	199.50	mg/l	200	600	
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	48.81	mg/l	250	1000	
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	10.94	mg/l	30	100	
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	611.30	mg/l	500	2000	
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	75.08	mg/l	200	400	
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.29	mg/l	1.0	1.5	
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	13.03	mg/l	45.0	No Relaxation	
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.21	mg/l	1.0	No Relaxation	
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2	
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0	
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation	
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.23	mg/l	5.0	15.0	
17	Copper (as Cu)	APHA 23rd Edition 3111B	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5	











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Report No.

: VTL/W/2306170007/A

S.No.	Test Parameters	Test Method	Results	Units	IS:105	00-2012
					Acceptable Limit	Permissible Limit
17		2017				
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
20	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B,2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
22	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
23	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
24	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	
25	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
26	Nickel as Ni	APHA 23rd Edition,3030D,3113B 2017	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
27	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

End of Report







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TEST REPORT

ALC: UNIT

Sample Number : VTL/GW/0	77	Report No.	: VTL/W/2306170007/B
Name & Address of the Party	: M/s PRISM JOHNSON LIMITED Village- Mankahari, Tehsil- Rampur Baghelan, Dist Satna (M.P.)	Format No	: 7.8 F-01
Sample Description		Period of Analysis	: 17/06/2023-23/06/2023
Sample Description	: Water Sample : Bandakha Village - Borewell	Receipt Date Sampling Date	: 17/06/2023
Sample Collected By	: VTL Team	Sampling Type	: 12/06/2023 : Grab
Preservation	: Suitable Preservation	Sample Quantity	: 2 Ltr.
Method of sampling	: IS :3025		

S.No.	Test Parameters	Test Method	Results	Units	IS:1050	00-2012
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable		Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	-	Agreeable	Agreeable

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

End of Report









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Sample Number : VTL/AN/1:	3			Report No.	: VTL/N/2306170013/A
Name & Address of the Party	: M/s PRISM JOHNSON Village- Mankahari, Teh Satna (M.P.)		/ITED Rampur Baghelan, Dist	Format No	: 7.8 F-02
	Gatila (M.F.)			Report Date	: 23/06/2023
				Receipt Date	: 17/06/2023
Sample Description	: Ambient Noise Level I		nitoring	Sampling Duration	: 24 Hrs.
Scope of Monitoring Protocol Used	: Regulatory Requirment			Sample Collected	: VTL Team
Instrument Used	: IS 9989 : SLM			Instrument Calibration Status	: Calibrated
General Informatio	n:-				
Sampling Location		:	Village- Badarkha (Band	arkha Mine)	
Instrument Code		:	VTL/SLM/03		
Meteorological condit	ion during monitoring	:	Clear Sky		
Date of Monitoring			11/06/2023 To 12/06/202	23	
Time of Monitoring		:	06:00 to 06:00 Hrs.	202	
Ambient Temperature	(°C)	:	Min.31° Max 42°		
Surrounding Activity		:	Human, Vehicular & Oth	er Activities	
Parameter Required		:	As per work order		

S.No.	Test Parameters	Protocol	Test Re	ult dB(A)	
			Day Time	Night Time	
1	Leq	IS 9989 - 1981 RA:2020	50.6	39.2	

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

L. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3.Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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

End of Report











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Sample Number : VTL/AN/14	4		Report No.	· VTL /N/2206170014/4
Name & Address of the Party	: M/s PRISM JOHNSON Village- Mankahari, Teh Satna (M.P.)	LIMITED nsil- Rampur Baghelan, Dist	Format No	: VTL/N/2306170014/A : 7.8 F-02 : NIL : 23/06/2023
Sample Description Scope of Monitoring Protocol Used Instrument Used	: Ambient Noise Level I : Regulatory Requirment : IS 9989 : SLM	나는 것 같은 것 같은 것은 것은 것은 것은 것을 수 있는 것이다.	Receipt Date Sampling Duration Sample Collected Instrument	: 17/06/2023 : 24 Hrs. : VTL Team - Calibrated
General Information Sampling Location Instrument Code Meteorological condit Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Parameter Required	n:- ion during monitoring	 Village- Hinauta (Bandai VTL/SLM/01 Clear Sky 12/06/2023 To 13/06/202 06:00 to 06:00 Hrs. Min.32° Max 43° Human, Vehicular & Oth As per work order 	23	

S.No. Test Parameters		Protocol	Test Result dB(A)	
			Day Time	Night Time
1 Leq		IS 9989 - 1981 RA:2020	51.1	40.5

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
Α	Industrial area	75	70
В	Commercial area	65	55
C	Residential area	55	45
D Day Time is from 6.00 AM to 10.	Silence Zone	50	40

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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

End of Report











Page No. 1/1

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

Vibrant Techno Lab Pvt. Ltd.

SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020 9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

bd@vibranttechnolab.com







include the unintughtable							
Sample Number : VTL/AN/1	15		Report No.	: VTL/N/2306170015/A			
Name & Address of the Party	: M/s PRISM JOHNSON Village- Mankahari, Tel Satna (M.P.)	LIMITED nsil- Rampur Baghelan, Dist	Format No	: 7.8 F-02			
Sample Description	: Ambient Noise Level I	Monitoring	Report Date Receipt Date	: 23/06/2023 : 17/06/2023			
Scope of Monitoring	: Regulatory Requirment		Sampling Duration	: 24 Hrs.			
Protocol Used	: IS 9989		Sample Collected	: VTL Team			
Instrument Used	: SLM		Instrument Calibration Status	: Calibrated			
General Information	on:-						
Sampling Location		: Village- Culhi (Bandarkh	• Mine)				
Instrument Code Meteorological condition during monitoring			tindge Sain (Bandarkila Mille)				
		: Clear Sky					
Date of Monitoring	J J	: 12/06/2023 To 13/06/202	22				
Time of Monitoring		: 06:00 to 06:00 Hrs.	25				
Ambient Temperature (°C) Surrounding Activity							
			Min.32° Max 43°				
Parameter Required			Human, Vehicular & Other Activities				
. analistor risquired		: As per work order					

S.No. Test Parameters		Protocol	Test Re	Test Result dB(A)	
			Day Time	Night Time	
Leq		IS 9989 - 1981 RA:2020	52.3	41.8	

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

L. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3.Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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

End of Report











Page No. 1/1

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 9929108691, 9810205356, 8005707098, 9549956601

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bd@vibranttechnolab.com







Sample Number : VTL/AN/1	6			Report No.	: VTL/N/2306170016/A			
Name & Address of the Party	Village- Mankahari, Tel	: M/s PRISM JOHNSON LIMITED Village- Mankahari, Tehsil- Rampur Baghelan, Dist			: 7.8 F-02 : NIL			
Satna (M.P.)				Report Date	: 23/06/2023			
				Receipt Date	: 17/06/2023			
Sample Description	: Ambient Noise Level I	I Monitoring		Sampling Duration	: 24 Hrs.			
Scope of Monitoring Protocol Used	: Regulatory Requirment			Sample Collected	: VTL Team			
Instrument Used	: IS 9989 : SLM	: IS 9989 : SLM			Calibrated			
General Information	on:-							
Sampling Location		: Village- Kulhari (Bandarkha Mine)						
Instrument Code		:	: VTL/SLM/03 : Clear Sky					
Meteorological condi	tion during monitoring							
Date of Monitoring		: 12/06/2023 To 13/06/2023						
Time of Monitoring	Time of Monitoring			: 06:00 to 06:00 Hrs.				
Ambient Temperature (°C) Surrounding Activity			 Min.32° Max 43° Human, Vehicular & Other Activities 					
								Parameter Required

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	47.3	37.9

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

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3.Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

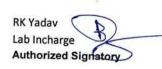
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

End of Report











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Report on Scientific Study on Controlled Blasting at Badarkha Limestone Mines

of

M/s Prism Johnson Ltd, Dt. Satna (M.P.)

Project Number: 31/2018-19

Project Leader

Prof G.K.Pradhan

Project Collaborators

Ajeet Mehra, M.Tech(Mining), Asst. Professor

Department of Mining Engineering

December 2019



Acknowledgement

Department of Mining Engineering, Faculty of Engineering & Technology, AKS University, Satna (MP) acknowledges with thanks the support and cooperation extended by :

- 1. Shri Manoj Singh, head-Mines, Prism Johnson Ltd
- 2. Shri C.S.Pandit, Joint General Manager, Prism Johnson Ltd
- 3. Sri Deo Prakash, Mines Manager-cum-Blasting Manager
- 4. Sri Kamlesh Soni, Asst. Manager

We thank the Management of AKS University, Satna for giving us permission to undertake the Study and the following team members for their active support and co-operation :

- 1. Dr B.K.Mishra, Head of the Department, Mining Engineering
- 2. Sri Ajeet Mehra, Asst. Professor (Mining)
- 3. Sri Manish Agarwal, Asst. Prof(Physics), Coordinator, Dean Office

We are pleased to present our Report on this scientific study based on our field visits and analyses of data collected from the mines vis-à-vis various Regulatory requirements.

Indhan

Prof G.K.Pradhan

Recipient of National Geosciences Award Professor of Mining Engineering & Dean Faculty of Mining Engineering Email: gkpradhan58@gmail.com

INTRODUCTION

While granting Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act, 1974 under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Hazardous and other Waste (Management & Tran boundary Movement) Rules, 201, vide PCB ID : 14462 dated 30.6.2018, it was stated at *Sl. No. 14. Controlled blasting should be practiced with the use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented. Blasting shall be done during day time only.* Copy of the Consent to operate is placed at Annexure I.

The Department of Mining Engineering, AKS University, Satna was entrusted to design, evaluate/supervise/monitor the 'controlled blasting' as per the provisions of MMR 1961 and the Permission granted by Director of Mines Safety, Jabalpur (DGMS Office).

Vide letter no. J.R/Metal/Permission-34/2016/77 dated 6.1.17, DMS Jabalpur Region had granted exemption from the provisions of Metalliferous Mines Regulations (MMR) 1961, 106(2)(b) of MMR, 1961, to work by system of deep hole blasting and deployment of Heavy Earth Moving Machineries. Sl. No. 7.0, 8.0, sl. No. 23(4), (5), (7), indicated various precautions to be taken to ensure safety while blasting. Copy of the Permission is placed at Annexure II. The above Permission was later supplemented with the Deep hole Blasting Permission for use of Bulk SME Explosives.

The scientific study undertaken by AKS University covered -

- a) Blasting techniques for Over Burden and Limestone benches.
- b) Site visits to monitor adoption of safe procedures during handling, transport, and use of explosives and accessories as per S-O-P
- c) Study of Explosive use and optimisation
- d) Study of Initiation system as a part of Controlled blasting
- e) Management of blasting operation and schedule vis-à-vis blasting during daytime.
- f) Methods for monitoring, analyses of ground vibrations and associated problems as part of mitigative measure.
- g) Study of fly rocks and boulders during blasting and strict implementation of methods to reduce their generation etc.
- h) Training the workmen, supervisors and officials attached with blasting.

Blasting Manpower

Entire blasting operation is undertaken under the charge of the Mines Manager, holdiong First Class Mine Manager's Certificate of Competency (UR). He is being assisted by statutory persons as per provisions of MMR 1961, including Blasting Engineer, Blaster, Helpers, Mining Mate and others. **Selection, Procurement, Storage, Transport and Handling of Explosives**

During the study period the various activities involved in explosives and accessories selection, procurement, storage, transport and use have been studied. The Mine holds a valid Explosive Magazine Licence and Explosive Transport by approved type of Explosive vans, as per various provisions of Indian Explosives Rules, 2008.

The mine uses only cartridge type explosives and have a system of explosive selection based on

- Density,
- Velocity of Detonation (VOD) etc.

The pattern of procurement is high energy primer 25 % and 75% column charge. The handling, charging and conducting of the blasting operations is done by trained manpower of the mine. Table 1, presents the quantities of different types of explosives used in study in the mine.

Table 1: Presents the quantities of different types of explosives used in study in the mine

Year	Large dia Cartridge	Large dia Cartridge	Total
	explosives (kg)	explosives (kg)	Explosives
	(Column charge)	(Booster charge)	Qty(in kgs)
2018	1450	383.32	1833.32
2019	3987.1	1350.00	5337.1

Initiation system

Initiation of the primed cartridge of the explosive in 100 to 110 mm dia blast hole drills is an essential feature to trigger any blast. In these blast holes blasting of deep holes column charge is being primed by booster type of explosives. Shock tubes having 7 to 8m length is used down-the-hole, along with the surface trunk line shock tubes. Down-the-delay detonator of 25, 450MS had provided bottom initiation and Trunk line detonators of 17, 25 and 41 MS are used thereby providing hole to hole initiation.

This as entirely non-electric and ultra safe. Shock tubes(Nonel) are safest and offer excellent results in blasting. These have revolutionised initiation by offering true in-hole delay to the booster ensuring better movement of the shock waves and the blasted material. The very low content of explosive material in the plastic tube offers insignificant or no sound during blasting. True bottom priming has enhanced explosive use and also helped in planning large size blasts safely. Trunk line delay detonators in the shock tubes additionally eliminate sound and also ensure perfect blast timings in MS range. Thus there has been a fall in sound level (expressed in dB) as recorded in the blast vibration recorder, control on fly rocks, elimination of misfires, and maintaining MAXIMUM CHARGE PER DELAY which is the single most contributing factor for BLAST VIBRATION level. Table 2, shows the DGMS standard on blast vibration and this is being strictly followed in almost all blasts.

Pre and Post Blast Management

In compliance of provisions under MMR 1961 and Indian Explosives Rules 20008, and various norms set in S-O-P and DMS JR Permissions/DGMS Circulars each and every blast is undertaken. The blast details are recorded and maintained in the mine.

Mining Operations

Figure 1, presents the approved working plan of the mine. The mine had a single overburden bench comprising of top soil and sub soil which is handled purely by dozer and loading machines. The limestone bench below having a thickness of 5 to 15m, is mined in two to three benches. Each bench has been planned with 5 to m6 m height only. Hydraulic Excavators dig the un-blasted as well as blasted material and load into tippers. Figure 1, shows the site plan showing limestone bench where blasting is conducted.

Controlled blasting is defined as a blast in which –

- (1) All the blast design parameters at the blasting site.
- (2) Blast which was approved type of explosives.
- (3) Only Delay detonators including Shock tubes(Nonel) or Electronic Delay Detonators to be used (to control ground vibrations and to arrest flyrocks and boulder generations).
- Monitoring of blasts vis-à-vis blast induced ground vibration level & frequency (Hz).
 Examining the vibration level (mm/s) & frequency with DGMS standards.
- (5) Following all terms and conditions as stated in the Permission granted by Director of Mines Safety, Jabalpur vide J.R/Metal/Permission -34 /2016 dated 06-01-2017 (Copy enclosed). Also following norms of other statutory bodies.
- (6) Flyrock management ,generation and control by proper stemming by assuming proper free face ensuring use of quality and explosives & accessories. There by eliminating MISFIRES.
- (7) Following approval S-O-P for blasting.
- (8) Minimum generation of boulders thereby eliminating secondary blasting . However secondary blasting need to be replaced by use of Hydraulic Rock breakers only be replaced by use of Hydraulic Rock Breakers only.
- (9) Complained free or less complaints from nearby habitants.
- (10) Only during the day time and the blasting time should be prominently displayed in the area.
- (11) Every mine should draw plans to have mitigative measures as per recommendations of the scientific study and provisions of MMR 1961 or DGMS Guidelines.

Blast Measurement

Instantel Inc. Canada make Blast Vibration instrument is being used by the mine management to record blast vibration level, sound level and maintain the soft copy of each and every recorded blasts for analysis and review. From AKS University also Instantel make Blastmate Instrument is used. These instruments are regularly calibrated by the authorised representative/agency.

Type of structure	Dominant excitation frequency, Hz				
	< 8 Hz	8 - 25 Hz	> 25 Hz		
(A) Buildings/structures not belonging to the owned	er				
i) Domestic houses/structures (Kuchha brick and cement)	5	10	15		
ii) Industrial Buildings RCC and framed structures)	10	20	25		
iii)Objects of historical importance and sensitive structures	2	5	10		
(B) Buildings belonging to owner with limited span of life					
i) Domestic houses/structures (Kuchha brick and cement)	10	15	25		
ii) Industrial buildings (RCC & framed structures)	15	25	50		

 Table 2 : DGMS Standards (1997)

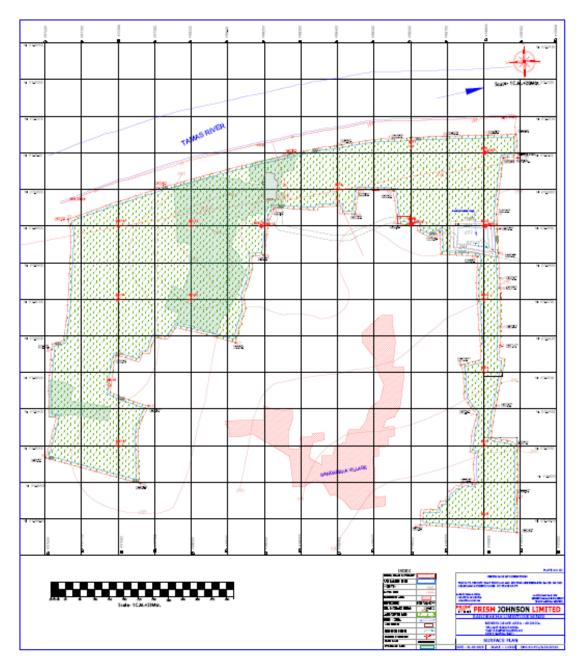


Figure 1 : Showing the Working Plan of the Mine

Figure 2, shows the print out of the Blast Vibration and Sound level as recorded at the blast site. The other such reports are placed at Annexure 1. Table 3 : presents the blast design information of the blasts which were studied and monitored by AKS University.

Table 2 : Blast Design Information's Using	ng Cartridge Explosives
Hole diameter = 100 to 110 mm	
Max. Burden = 4 M	
Max. Spacing = $3 M$	
Average Hole depth = 5 to 6.0 M.	
No. of holes = as per blasting block size and maintaining	g face length and width in 3 : 1 ratio
Drilling pattern = staggered	
Average Stemming length =2 to 3 M	Firing pattern = linear
No. of rows depend on the block size and face condition	S
Explosives	
Prime charge and column charge at an average ratio of :	: 1: 2.5
Delay Type	
Surface delay = 17 MS (hole to hole in a row) & 25 MS	and/or 42 MS (row to row)
Down the hole delay = 250 ms	

Trial blast data was analyzed for arriving at permissible levels of ground vibration and same

is presented in Table 3. Table 4, presents the analysis of blast vibration data. Predictor

Equation has been drawn based on the field data as recorded.

Blast	Date	Radial	Max	Total	PPV	Frequency	Burden	No.	Avg.
No.		distance	charge	weight	(mm/sec.	Hz	Х	of	Hole
		(m)	per	(TQ))		Spacing	holes	Depth
			delay	(kg)					(m)
			(Q)(kg)						
1	06-02-2018	250	16.7	433.32			4x3	30	5
2	08-05-2018	250	13.9	325			4x3	25	5
3	04-12-2018	160	16.70	325	0.126	4.2	4x3	20	5
4	31-12-2018	200	27.78	750	2.52	23	4x3	27	6
5	01-03-2019	180	19.44	725	1.54	15	4x3	37	5
6	05-03-2019	160	22.22	1325	1.927	15	4x3	64	5.5
7	11-03-2019	250	30.56	2211.11	2.136	12	4x3	78	6
8	19-03-2019	200	27.78	1075	5.56	16	4x3	41	6

Figure 2 : Shows Blast Vibration recording Event report(Other reports at Annexure 1)



Event Report

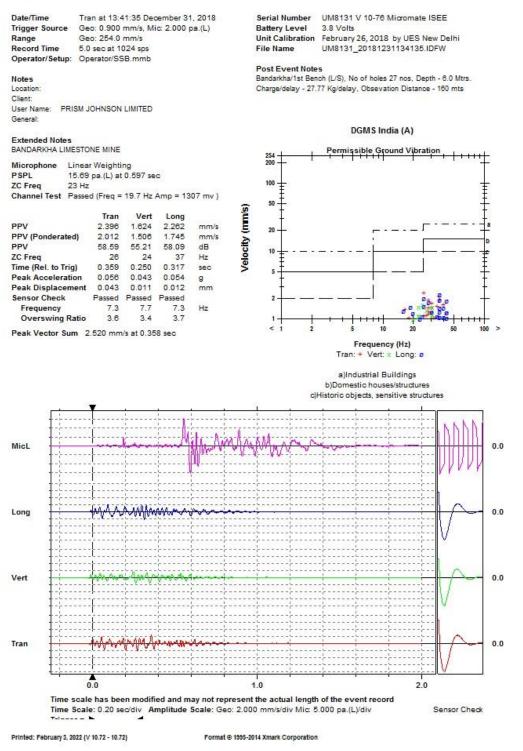
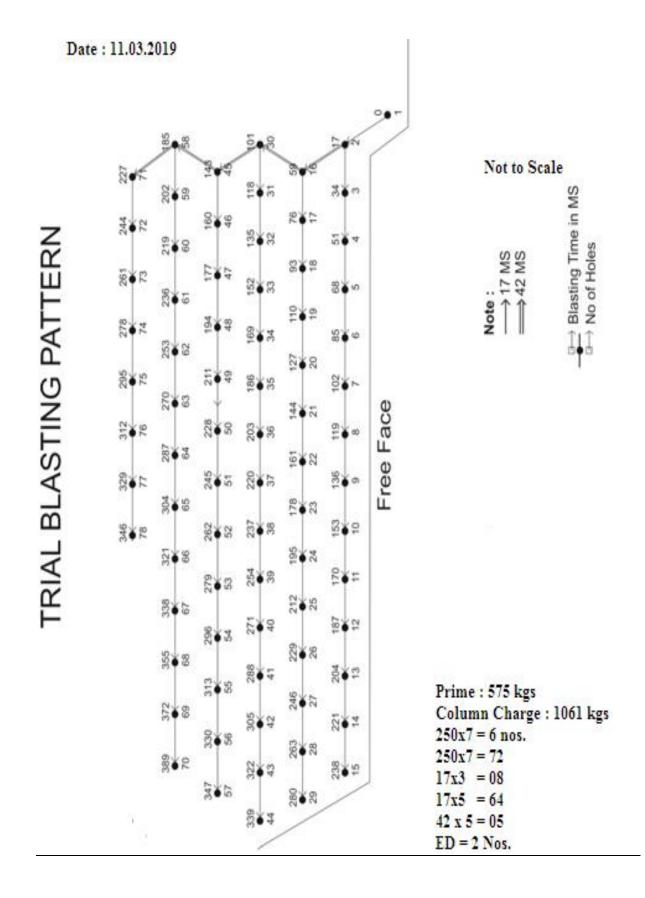
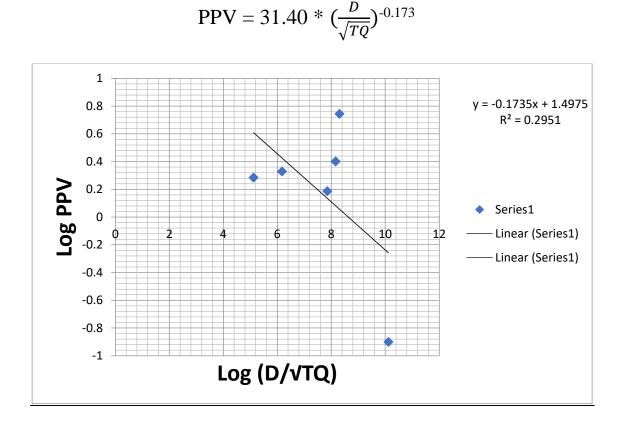


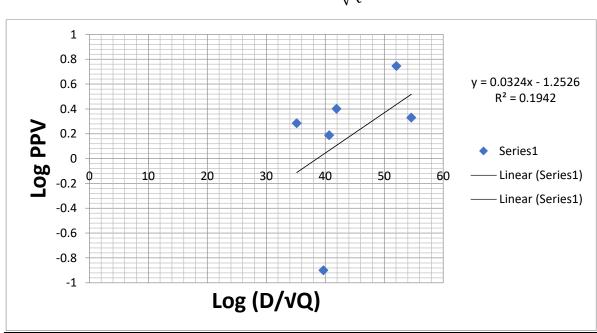
Figure - 4 : Below explains the method of blasting using trunk line shock tubes of varying delays and.



1. Vibration predictor equation : For total charge per round (TQ)



2. Ground vibration predictor equation : for max charge per delay(Q)



 $PPV = 0.056 * (\frac{D}{\sqrt{Q}})^{0.032}$



Parameter	Range	Class	No. of events	Remark
		interval		
Max.Charge	14.75 to 27.77	0-20	5	
Per Delay (kg)		>20	3	Within stipulated
PPV (mm/sec.)	0.126 to 5.56	<2	5	limits
	2-6		3	mints
Distance (m)	160 to 250	160 to 250	8	
Frequency	<81	Hz	0	More than 71% event
(Hz)	8-25	δHz	8	recorded more than 8
	>25Hz		0	Hz. This has bearing on fixing allowable PPV.

RECOMMENDATIONS & SUGGESTIONS

For undertaking blasts with Cartridge Explosives on regular basis on the conclusion/completion of blasts conducted in our presence, as per terms and conditions of the Permission granted Director of Mines Safety, Jabalpur vide by Permission No.J.Region/Metal/Permission-34/2016/77 dated 6.1.17, regarding Relaxation from the provisions of Regulation 106(2)(b)of the Metalliferous Mines Regulations, 1961, to work the mine by system of deep hole blasting and deployment of Heavy Earth Moving Machineries at Badarkha Limestone Mine of M/s Prism Cement Limited and norms of Consent Order of M.P.Pollution Control Board (sl. No. 14 at page no. page8, 'Controlled blasting should be practiced with the use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented. Blasting shall be done during day time only'.).

Some of tha salient clasues related to Explosives and Blasting(Shot firing) is stated at Annexure 2 (p.1, 3,4 and 5).

Blast design parameters

1.1 Drilling dia. of 100-110 mm is best suited for 6m high benches. For 100-110 mm dia blast hole the true burden may be 2.5 to 4.0 M and true spacing of 3.0 to 4.5m.

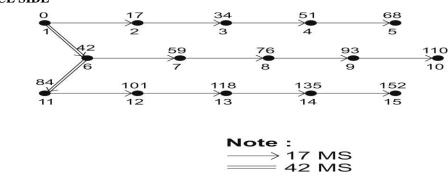
		Pattern (Maximum)		
Depth	Hole dia	Burden	Spacing	
(m)	(mm)	(m)	(m)	
6	110	4	3	
5	110	4	3	
4	110	4	3	
3	110	4	3	

1.2 No. of Rows – During the trial blast the length of the blast was more than the width of the blast. In most blasts length of the blasting block has been more than 5 to 6 times the width of the blasted block. In these cases number of rows can result PPV within laid down norms and a maximum of 6 rows are recommended. For example – if length of the blasting block is 100M, and width is 30 M with true burden of 3m then no. of rows should not exceed 9 Rows. This is because more number of rows may result in cut off of the tie-ins.

2.0 Initiation arrangements/tie-ins

2.1 NONEL which has been used is best suitable to contain blast induced ground vibration and air blast. Besides, it also give very good fragmentation, less back break, and controlled throw on free face.

2.1.1 The delay between the hole is 17 MS and between rows may be 42 MS (Refer attached figure).-



FREE FACE SIDE

2.1.2 Misfires can be totally eliminated with the use of NONEL or shock tubes.

2.1.3 Using a high delay interval of 250 MS down-the-hole delay with 17/25/42MS surface delay ensures that the detonation of the surface tie line would be several rows or blast holes ahead before the first blasthole gets initiated (after 250MS) and ground movement starts subsequently. This makes the blast free from any misfires due to initiation resulted by cut-off of in hole or downline initiator due to ground movement. Besides, the very geology of the area also indicate near uniformity of geological set up.

3.0 SUGGESTIONS WHICH WERE IMPLEMENTED AT SITE – The blast hole initiation pattern should use one delay period of 17 MS between the two holes and 42 MS between the rows.

3.1.1 Initiation pattern – While drilling holes staggered pattern may be adopted. It has been observed that staggered pattern with equilateral triangular give better fragmentation as compared to square pattern. During trial blasts square pattern was adopted and results were quite satisfactory.

3.1.2 Period of blast – The total period of blast from the initiation of the first hole to the last hole should preferably be not more than 1000 MS

4.0 Before commencing Drilling

4.1 Face preparation before commencement of drilling – The bench must be properly dozed to ensure no flying fragments of the previous blast or boulders are present. On the free face side the face need to be dressed properly so that no loose overhangs are present. The blaster must mark the location of holes after measuring the burden and spacing. The driller must report any deviations observed in burden and spacing and also hole collapse during withdrawal of the drill rod.

4.2 Free Face – The key to success of any safe blast is the free face. It must be noted that the direction of throw must be towards free face. Whenever two free faces are available, the direction of throw can be diagonal for better muckpile and uniform throw.

5.0 Stemming and stemming material

5.1 To hold the post detonation fumes inside the blasthole is essential to ensure movement and breakage of the in-situ rock. The blasting crew should have specially trained workmen who can ensure tight stemming. If watery holes are encountered it has to be with lot of care so as to ensure settlement of explosive and stemming material. In all the blasts dry drill cuttings were used and care was taken to see no damages to the shock tube down-line.

5.2 It is suggested to measure the stemming column depth so as to ensure proper delivery of planned quantity of explosives.

5.3 Muffling of holes – In all the blasts sand bags were placed on the conveyor belts so as to provide additional precaution to restrict flying fragments' movement. It is therefore suggested that this need to be carried out till the restrictions are overcome.

5.4 Charging of explosives on the last row of holes – In case of more than 3 rows, of blasting on the last row of holes, the quantity of explosive can be reduced by 10 to 15% so as to ensure better stability, reduction in back break, less dressing required before finishing excavation due to less loose overhangs and less overhang areas.,

ADDITIONAL PRECAUTIONS

6.0 Maximum charge per delay currently adopted is ultra safe and well within the blast vibration and frequency range stated in DGMS Standards.

6.1 Blast Area Security – The mine management strictly follow blasting time and adequate number of guards were posted on all roads leading to the mine. All the machineries need to be parked at safer distances following parking norms of each machinery. Before blasting 'Safety Warning' is done, and all persons evacuated out of the prescribed "Danger Zone".

6.2 Recording of blast vibration – Follow the instructions of the instrument manufacturer while setting the instrument. Measure the distance of the instrument from the centre of the blast. The instrument need to be properly placed on a firm ground and a place not on the probable flyrock zone.

6.3 The engineer concerned must move to the shelter after setting the instrument with proper time lags etc.

6.4 Secondary Blasting – NEVER ADOPTED in this mine and hydraulic Rock Breakers are being used to break oversize boulders.

7.0 TRAINING : Safety awareness and training needs of the blasting crew – The mine management held training programs for engineers and statutory persons to deliberate on various aspects of blast design, charging, field management, blast area security, provisions of MMR and Mine Vocational Training Rules 1966, and other guidelines. Blasting crew had adequate knowledge of safety during handling, charging, stemming, priming, tie-line hook up, following the siren etc.

8.0 PPE – all persons engaged in blasting had been provided PPE and also other essential gadgets like whistle, red flags and hand gloves etc. The same need to be strictly adhered to in all time to come.

9.0 Post Blast Observations : blast vibration, frequency, flyrock range, dust generation/quantum, fumes etc are observed. It has been observed that by systematic stemming of holes, having mats/conveyor belts cover dust and flyrock under control.

10.0 Impact of blasting on health and safety – Use of Shock Tubes(Nonel) had eliminated noise/sound level during blasting due to the technological development in initiation. This also had helped in controlling dust generation and the level of dust during post-blast.

CONCLUSION & RECOMMENDATION

The report presents the details of the blasts designed, monitored and studied using Cartridged explosives, for establishing a blasting pattern and allowable maximum charge per delay and per round based on the ground vibration, air overpressure and other post blast details (like fly rock, muck pile, misfires if any, back break, throw etc).

In view of the successful, safe conclusion of the blasts with cartridged explosives by following norms set in the Permission letter, other guidelines, the mine is fully geared up to hold blasts on regular basis in line with the provisions of CMR 2017 etc.

Controlled blasting Compliance Status : -

	Norms	Comments after conclusion of the scientific study
1.	All the blast design parameters at the blasting site.	Being adopted
2.	Blast which was approved type of explosives.	Only approved type of explosives is used.
3.	Only Delay detonators including Shock tubes(Nonel) or Electronic Delay Detonators to be used (<i>to control ground</i> <i>vibrations and to arrest flyrocks and boulder generations</i>)	Shock tube is used. Both down-the-hole & trunk line.
4.	Monitoring of blasts vis-à-vis blast induced ground vibration level & frequency (Hz). Examining the vibration level (mm/s) & frequency with DGMS standards	Done at regular basis.
5.	Following all terms and conditions as stated in the Permission granted by Director of Mines Safety , Jabalpur vide J.R/Metal/Permission -34 /2016 dated 06 01-2017 (Copy placed at Annexure 2)	Being followed.
6.	Flyrock management, generation and control by proper stemming by assuming proper free face ensuring use of quality and explosives & accessories. There by eliminating MISFIRES. Also old conveyor belts with sand bags are used to cover the holes to eliminate fly rock and dust.	Proved effective to eliminate dust and fly rocks with cover on the holes.
7.	Following approval S-O-P for blasting	Being followed in line with Safety Management Plan and Guidelines of DGMS.
8.	Minimum generation of boulders thereby eliminating secondary blasting . However secondary blasting need to be replaced by use of Hydraulic Rock breakers only be replaced by use of Hydraulic Rock Breakers only.	Only Hydraulic Breakers used in case of oversize boulders.
9.	Complained free or less complaints from nearby habitants	There have been no complaints from the distant villagers and habitants.
10.	Only during the day time and the blasting time should be prominently displayed in the area.	Being followed.
11.	Every mine should draw plans to have mitigative measures as per recommendations of the scientific study and provisions of statutory authorities or MMR 1961 or DGMS Guidelines.	Being followed while conducting any blast.

Jahnelium

Dr G.K.Pradhan Professor of Mining Engineering & Dean Faculty of Engineering & Technology

Annexure 1



Date/Time

Range Record Time

Notes

Trigger Source

Event Report

MidL at 13:33:45 December 4, 2018 Serial Number Geo: 0.900 mm/s, Mic: 2.000 pa.(L) Geo: 254.0 mm/s Battery Level 5.0 sec at 1024 sps Operator/Setup: Operator/SSB.mmb

UM8131 V 10-76 Micromate ISEE 3.8 Volts Unit Calibration September 6, 2016 by UES New Delhi File Name UM8131_20181204133345.IDFW

1

Post Event Notes Bandarkha/1st Bench (L/S), No of holes 20 nos, Depth - 5.0 Mtrs. Charge/delay - 16.25 Kg/delay, Obsevation Distance - 160 mts

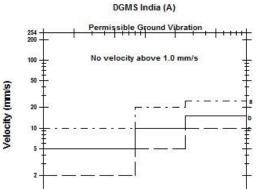
Location Client: User Name: PRISM JOHNSON LIMITED General:

Extended Notes BANDARKHA LIMESTONE MINE

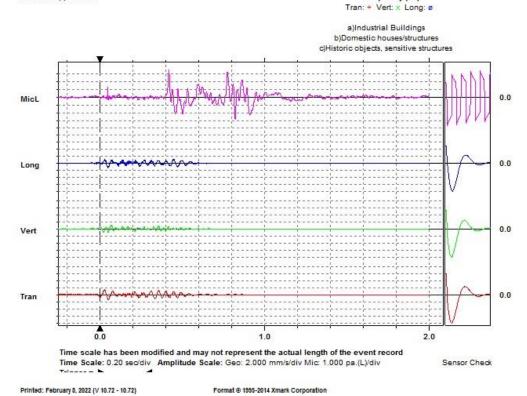
Microphone Linear Weighting PSPL 4.437 pa.(L) at 0.301 sec ZC Freq 4.2 Hz Channel Test Passed (Freq = 19.7 Hz Amp = 1334 mv)

	Tran	Vert	Long	
PPV	0.102	0.102	0.039	mm/s
PPV (Ponderated)	0.026	0.021	0.029	mm/s
PPV	31.21	31.21	22.91	dB
ZC Freq	N/A	N/A	>100	Hz
Time (Rel. to Trig)	-0.112	2.543	1.130	sec
Peak Acceleration	0.005	0.005	0.005	9
Peak Displacement	0.000	0.000	0.000	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.3	Hz
Overswing Ratio	3.6	3.5	3.7	

Peak Vector Sum 0.126 mm/s at -0.112 sec N/A: Not Applicable



Frequency (Hz)





Event Report

 Date/Time
 Tran at 13:41:35 December 31, 2018

 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

Notes

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

Extended Notes

BANDARKHA LIMESTONE MINE Microphone Linear Weighting PSPL 15.69 pa.(L) at 0.597 sec ZC Freq 23 Hz Channel Test Passed (Freq = 19.7 Hz Amp = 1307 mv)

	Tran	Vert	Long	
PPV	2.396	1.624	2.262	mm/s
PPV (Ponderated)	2.012	1.506	1.745	mm/s
PPV	58.59	55.21	58.09	dB
ZC Freq	26	24	37	Hz
Time (Rel. to Trig)	0.359	0.250	0.317	sec
Peak Acceleration	0.056	0.043	0.054	g
Peak Displacement	0.043	0.011	0.012	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.3	Hz
Overswing Ratio	3.6	3.4	3.7	
THE REAL PROPERTY OF A PROPERT				

Peak Vector Sum 2.520 mm/s at 0.358 sec



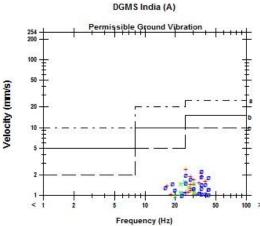
 Battery Level
 3.8 Volts

 Unit Calibration
 February 26, 2018 by UES New Delhi

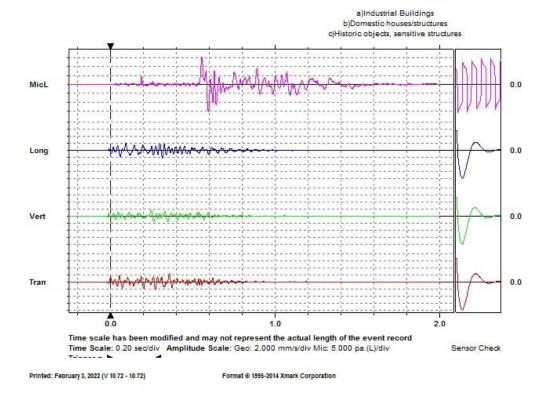
 File Name
 UM8131_20181231134135.IDFW

Post Event Notes

Bandarkha/1st Bench (L/S), No of holes 27 nos, Depth - 6.0 Mtrs. Charge/delay - 27.77 Kg/delay, Obsevation Distance - 160 mts









ZC Freq

PPV

PPV

ZC Freq

PPV (Ponderated)

Time (Rel. to Trig) Peak Acceleration

Peak Displacement

Overswing Ratio

Sensor Check

Frequency

15 Hz

Channel Test Passed (Freq = 19.7 Hz Amp = 1334 mv)

Tran

0.780

0.700

48.85

0 144

0.026

0.022

Passed

Peak Vector Sum 1.540 mm/s at 0.146 sec

7.3

3.6

18

Event Report

Date/Time	Long at 13:41:18 March 1, 2019	Serial Nu
Trigger Source	Geo: 0.900 mm/s, Mic: 2.000 pa.(L)	Battery Le
Range	Geo: 254.0 mm/s	Unit Calib
Record Time	5.0 sec at 1024 sps	File Name
Operator/Setup	Coperator/SSB.MMB	
Notes		Post Ever Bandarkha/
Location:		Charge/del
Client:		Sand and Places
User Name: PF	RISM JOHNSON LIMITED	
General:		
Extended Note	The second se	
		254
Microphone	Linear Weighting	200 -
PSPL	6.237 pa.(L) at 0.365 sec	6227

Vert

0.867

49.76

0.069

0.021

0.015

Passed

7.7 3.4

28

Long

1.387

1.348

53.84

0.148

0.036

0.011

6.9 Hz

3.7

Passed

19 Hz

mm/s

mm/s

dB

sec

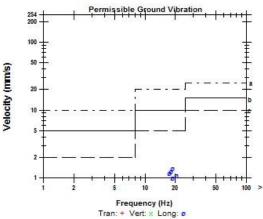
mm

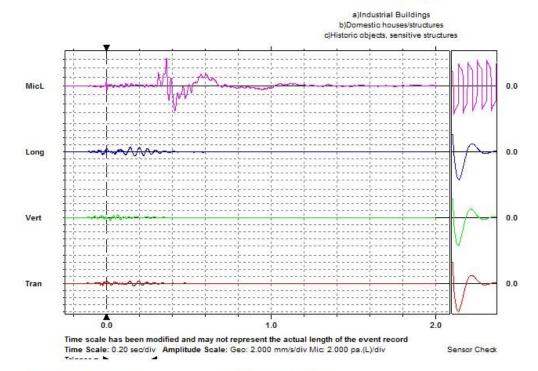
g

mber UM8131 V 10-76 Micromate ISEE evel 3.8 Volts February 26, 2018 by UES New Delhi UM8131_20190301134118.IDFW bration e

ent Notes a/1st Bench (L/S), No of holes 37 nos, Depth - 6.0 Mtrs. lay - 19.59 Kg/delay, Obsevation Distance - 160 mts







Printed: February 3, 2022 (V 10.72 - 10.72)

Format @ 1995-2014 Xmark Corporation



Event Report

Date/Time	Tran at 13:38:21 March 5, 2019
Trigger Source	Geo: 0.500 mm/s, Mic: 2.000 pa.(L)
Range	Geo: 254.0 mm/s
Record Time	10.749 sec (Auto=10Sec) at 1024 sps
Operator/Setup:	Operator/SSB.MMB

Notes Location

Client: User Name: PRISM JOHNSON LIMITED General:

Extended Notes BANDARKHA LIMESTONE MINE

Microphone	Linear Weighting
PSPL	7.013 pa.(L) at 0.421 sec
ZC Freq	15 Hz
Channel Test	Passed (Freg = 19.7 Hz Amp = 1307 mv

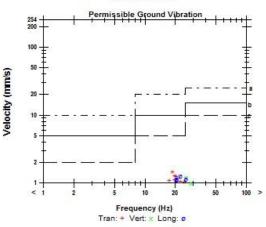
	Tran	Vert	Long	
PPV	1.466	1.206	1.277	mm/s
PPV (Ponderated)	1.372	1.055	1.249	mm/s
PPV	54.32	52.63	53.12	dB
ZC Freq	19	26	22	Hz
Time (Rel. to Trig)	0.031	0.068	0.051	sec
Peak Acceleration	0.039	0.023	0.050	9
Peak Displacement	0.093	0.061	0.040	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	6.9	Hz
Overswing Ratio	3.5	3.4	3.6	

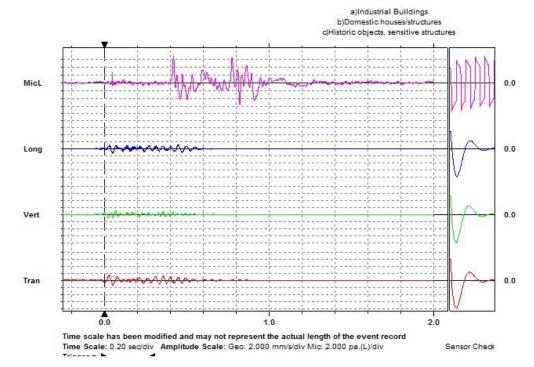
Peak Vector Sum 1.927 mm/s at 0.051 sec



Post Event Notes Bandarkha/1st Bench (L/S), No of holes 64 nos, Depth - 6.0 Mtrs. Charge/delay - 20.70 Kg/delay, Obsevation Distance - 160 mts







Printed: February 3, 2022 (V 10.72 - 10.72)

Format @ 1995-2014 Xmark Corporation



Event Report

Long at 13:39:47 March 11, 2019 Date/Time Trigger Source Geo: 0.500 mm/s, Mic: 2.000 pa.(L) Geo: 254.0 mm/s Range 19.0 sec (Auto=10Sec) at 1024 sps Record Time Operator/Setup: Operator/SSB.MMB

Notes Location

Client: User Name: PRISM JOHNSON LIMITED General:

Extended Notes BANDARKHA LIMESTONE MINE

Microphone	Linear Weighting
PSPL	8.177 pa.(L) at 1.561 sec
ZC Freq	12 Hz
Channel Test	Passed (Freg = 19.7 Hz Amp = 1332 my)

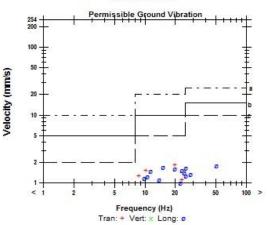
	Tran	Vert	Long	
PPV	1.829	0.875	1.797	mm/s
PPV (Ponderated)	1.785	0.700	1.345	mm/s
PPV	56.24	49.84	56.09	dB
ZC Freq	20	24	51	Hz
Time (Rel. to Trig)	0.335	0.215	0.311	sec
Peak Acceleration	0.029	0.026	0.060	9
Peak Displacement	0.116	0.101	0.077	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.1	Hz
Overswing Ratio	3.5	3.4	3.6	

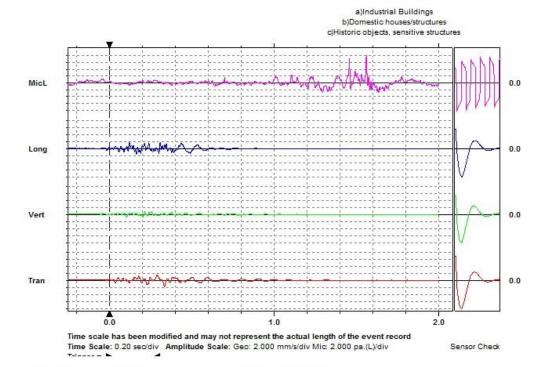
Peak Vector Sum 2.136 mm/s at 0.336 sec

Serial Number UM8131 V 10-76 Micromate ISEE Battery Level 3.6 Volts Unit Calibration February 26, 2018 by UES New Delhi File Name UM8131_20190311133947.IDFW

Post Event Notes Bandarkha/1st Bench (L/S), No of holes 78 nos, Depth - 6.0 Mtrs. Charge/delay - 20.97 Kg/delay, Obsevation Distance - 300 mts







Printed: February 8, 2022 (V 10.72 - 10.72)

Format @ 1995-2014 Xmark Corporation

Annexure 2

पंजीकृत डाक द्वार भारत सरकार / Govt. of India श्रम एवं रोजगार मंत्रालय / Ministry of Labour & Employment खान सुरक्षा महा-निदेशालय Directorate-General of Mines Safety जबलपुर—क्षेत्र / Jabalpur Region प्लाट न. 1936 से 1949, जे. डी. ए. स्कीम न. 5,

जॉय हायर सेकेन्डरी स्कूल के पिछे, विजय नगर, जबलपुर (म.प्र.) 482 002 फोन : कार्यालय - 0761 2640365, फेक्स - 0761 2640414

संख्या : ज.क्षे. / मेटल / अनुमति—34/2016, / जबलपुर, दिनांक

प्रेषकः

निदेशक खान सुरक्षा जनलम् क्षेत्र

सेवा में

अभिकर्ता. बंदर्खा चुनापत्थर खान, मेसर्स प्रिज्म सीमेंट लिमिटेड. राजदीप, रीवा रोड, जिलाः सतना (म प्र) 485 001

विषयः Relaxation from the provisions of Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961, to work the mine by system of deep hole blasting and deployment of Heavy Earth Moving Machineries at Bandarkha Limestone Mine of M/s Prism Cement Limited.

महोदय.

Please refer to your application vide letter No. MIN/2016-17/BDR/007 dated 23.08.2016 and subsequent correspondence resting with your letter No. MIN/2016-17/BDR/010 dated 15.10.2016 and the plan and enclosures enclosed therewith, on the above subject.

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

In exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director General of Mines Safety) under Regulation106(2)(b) of the Metalliferous Mines Regulations, 1961 and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director General of Mines Safety) under Section 6(1) of the Mines Act, 1952, I hereby grant you relaxation from the provisions of Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961, to work the mine by system of deep hole blasting and deployment of Heavy Earth Moving Machineries at Bandarkha Limestone Mine of M/s Prism Cement Limited, as shown in red dotted colour line bounded by A-B-C-D-E-F-G-H-I-J-K-L-M-N-O-P-Q-R-S-T-U-V-W-X-Y-Z-A on plan No. PCL/B/2016/102 dated 16.08.2016 enclosed with the application, subject to the following conditions being strictly complied with:

Except where otherwise provided for in this conditional permission, all provisions of 1.0 the Metalliferous Mines Regulations, 1961, relating to opencast workings, use of explosives and machinery, etc., shall be strictly complied with.



Page 3

- (5) No road shall have a gradient more than 1 in 16. Ramps with 1 in 10 gradients should not be more that 10m at one stretch and permissions shall be obtained from Directorate.
- (6) Where any road existing above level of surrounding area it shall be provided with strong parapet wall/embankment of following dimensions.
 - i. Width at top-not less than 1 m.
 - Width at bottom-not less than 2.5m.
 - iii. The height not less that the diameter of tyre of largest vehicle playing on road.

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

(7) The portion of the surface haul road in the mine premises where there is heavy traffic of men and machines shall be provided with a separate lane properly fenced off from the haul road for pedestrian, two wheelers and light vehicles.

6.0 Precautions-while drilling.

- (1) The position of every deep hole to be drilled shall be distinctly marked by the Mine Foreman so as to be readily seen by the drillers.
- (2) (a) No drilling shall be commenced in an area where shots have been fired, until the blaster has made a thorough examination at all places, including remaining sockets of old deep holes, for unexploded charges that the drill may strike.
 - (b) No drill or bore rod or pick shall be inserted in sockets of old deep holes even if an examination under Clause (a) has failed to reveal presence of explosives.
- (3) No person shall be permitted to remain within a radius of 20 m or within 60 m on the same bench where charging of holes with explosives is being carried out.
- **7.0 Transport of Explosives**: Where explosives are transported in bulk for deep hole blasting the following precautions shall be taken:
- (1) Transport of explosives from the magazine to the priming station or the site of blasting shall not be done except in the original wooden or cardboard packing cases. The quantity of explosive transported at one time to the site of blasting shall not exceed the actual quantity required for use in one round of shots. The explosives shall be transported to the site of blasting not more than 90 minutes before the commencement of charging of the holes.
- (2) (a) No mechanically propelled vehicle shall be used for the transport of explosives unless it is of a type approved in writing by the Chief Inspector provided that a Jeep or Land Rover may be used for the transport of detonators from magazines to 'priming stations' subject to the following conditions:
 - Not more than 200 detonators are transported in a vehicle at a time;
 - (ii) The detonators are packed suitably in a wooden box
 - (iii) The wooden box containing detonators is placed inside an outer metal case of construction approved by the Chief Inspector;
 - (iv) The outer metal case shall be suitably bolted to the floor of the vehicle or otherwise fixed in a wooden frame so that the container does not move about

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Page 4

while the vehicle is in motion; and

- (v) No person shall ride on the rear portion of the vehicle.
- (vi) Every vehicle used for the transport of explosive shall be marked or placarded on both sides and ends with the word "Explosives" in white letters not less than 15 centimeters high on a red background.
- (vii) Every mechanically propelled vehicle transporting/explosives shall be provided with not less than two fire extinguishers (one of carbon tetrachloride type for petroleum fire and the other of carbon dioxide under pressure type for electrical fire) suitably placed for convenient use.
- (3) (a) The vehicle used for the transport of explosives shall not be overloaded and in no case shall the explosive cases be piled higher than the sides of its body.
 - (b) Explosives and detonators shall not be transported in the same vehicle, at the same time.
- (4) (a) No person other than the driver and his helper (not below 18 years of age) shall ride on a mechanically propelled vehicle used for the transport of explosives.
 - (b) A vehicle loaded with explosive shall not be left unattended.
 - (c) The engine of a vehicle transporting explosives shall be stopped and the brakes set securely before it is unloaded or left standing.
 - (d) A vehicle transporting explosives shall not be driven at a speed exceeding 25 kilometers per hour.
 - (e) A vehicle loaded with explosives shall not be taken into garage or repair shop and shall not be parked in a congested place.
 - (f) A vehicle transporting explosives shall not be refueled except in emergencies and then only when its engine is stopped and other precautions taken to prevent accidents.
 - (g) No trailer shall be attached to a vehicle transporting explosives.
- (5) (a) Every vehicle used for the transport of explosives shall be carefully inspected once in every 24 hours by a competent persons to ensure that:
 - (i) Fire extinguishers are filled and in place;
 - (ii) The electric wiring is well-insulated and firmly secured;
 - (iii) The chassis, engine and body are clean and free from surplus oil and grease;
 - (iv) The fuel tank and feed lines are not leaking; and
 - (v) Lights, brakes and steering mechanism are in good working order.
 - (b) All report of every inspection made under sub-clause (a) shall be signed and dated by competent person making the inspection.
- (6) All operations connected with the transport of explosives shall be conducted under the personal supervision of a foreman solely placed in charge of blasting operations under overall charge of a Asstt. Manager at the mine.
- (7) The blaster shall personally search every person engaged in the transport and use of explosives and shall satisfy himself that no person so engaged has in his possession any cigarette, 'biri' or other smoking apparatus, or any match or any other apparatus of any kind capable of producing a light, flame or spark. .

8.0 Precautions during shot-firing:

(1) (a) Shots shall not be fired except during the hours of day-light. All holes charged on any one day shall be fired on the same day.

Page 5

- (b) As far as practicable the blasting shall be carried out either between shifts or during the rest interval or at the end of work for the day.
- (2) During the approach and progress of an electric storm, the following precautions shall be taken:-
 - (a) No explosive, particularly detonators shall be handled.
 - (b) If charging operations have begun, the work shall be discontinued until the storm has passed.
 - (c) If the blast is to be fired electrically all exposed wires shall be coiled up and if possible placed in the mouth of the holes, or kept covered by something other than a metal plate.
 - (d) All wires shall be removed from contact with the steel rails of a haulage track so as to prevent the charge being exploded prematurely by a local strike of the lightening.
- (3) Blasting operation in the mine shall be placed under the charge of an Assistant manager and no blasting shall be done in the mine in the absence of the Assistant Manager.
- (4) No deep hole blasting shall be undertaken within 300m of the any structure not belonging to owner unless permission in writing is obtained from this Directorate as required under the provision of Reg. 164 of MMR, 1961.

TEST REPORT

WEEK.



Method of sampling

: IS :3025



VTL/GW/07 : VTL/W/2306170007/A Report No. Name & Address of the Party : M/s PRISM JOHNSON LIMITED : 7.8 F-01 Format No Village- Mankahari, Tehsil- Rampur Baghelan, Dist. -Party Reference No : NIL Satna (M.P.) **Report Date** : 23/06/2023 Period of Analysis : 17/06/2023-23/06/2023 Sample Description : Water Sample **Receipt Date** : 17/06/2023 Sampling Location : Bandakha Village - Borewell Sampling Date : 12/06/2023 Sample Collected By Sampling Type : VTL Team : Grab Preservation Sample Quantity : Suitable Preservation : 2 Ltr.

S.No. Test Par	Test Parameters	Test Method	Results	Units	IS:105	00-2012
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.39		6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	250.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	82.16	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	199.50	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	48.81	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	10.94	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	611.30	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	75.08	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.29	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	13.03	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.21	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.23	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5











Page No. 1/2

Term & conditions PTO

Approved & Certified

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

Vibrant Techno Lab Pvt. Ltd.

SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020
 9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

M bd@vibranttechnolab.com

www.vibranttechnolab.com







Report No.

: VTL/W/2306170007/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
17		2017				
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
20	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B,2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
22	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
23	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
24	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	
25	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
26	Nickel as Ni	APHA 23rd Edition,3030D,3113B 2017	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
27	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

End of Report







RK Yadav Lab Incharge Authorized Signatory



Page No. 2/2

Term & conditions PTO

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

Vibrant Techno Lab Pvt. Ltd.

9 SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020 9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

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TEST REPORT

ALC: UNK

Sample Number : VTL/GW/0	77	Report No.	: VTL/W/2306170007/B
Name & Address of the Party	: M/s PRISM JOHNSON LIMITED Village- Mankahari, Tehsil- Rampur Baghelan, Dist Satna (M.P.)	Format No	: 7.8 F-01
Sample Description		Period of Analysis	: 17/06/2023-23/06/2023
Sample Description	: Water Sample : Bandakha Village - Borewell	Receipt Date Sampling Date	: 17/06/2023
Sample Collected By	: VTL Team	Sampling Type	: 12/06/2023 : Grab
Preservation	: Suitable Preservation	Sample Quantity	: 2 Ltr.
Method of sampling	: IS :3025		

S.No.	Test Parameters	Test Method	Results	Units	IS:1050	00-2012
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable		Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	-	Agreeable	Agreeable

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

End of Report









RK Yadav Lab Incharge Authorized Signatory

Page No. 1/1

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

Vibrant Techno Lab Pvt. Ltd.

SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020
 9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

- bd@vibranttechnolab.com
- www.vibranttechnolab.com





Sample Number:

Sample Collected By

Sample Description:

VTL/WL/01 **Report No.: M/s PRISM JOHNSON LIMITED** Name & Address of the Party: Format No.: Village- Mankahari, Tehsil- Rampur **Party Reference No.:** NIL Baghelan, Dist.- Satna (M.P.) **Report Date: VTL** Team **Receipt Date: Ground Water Level Monitoring Date of Monitoring**

VTL/WL/2309140001-12 7.8 F-01 20/09/2023 14/09/2023 12/09/2023

S.No.	Location	Depth (In meter)
1.	Near Colony Gate	13.46
2.	Behind B Block colony	1.55
3.	Behind C Block colony	13.60
4.	Auto Work Shop	13.50
5.	In Front Den	8.26
6.	Rose Garden near Boundary	16.32
7.	Western Block Mines	8.18
8.	Near New Magazine Mines	11.0
9.	Chulhi Majhiyar Mines	5.48
10.	Mines near Ramprasan	9.10
11.	Medi Mines	8.63
12.	Mankahari Mines	15.43



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

Vibrant Techno Lab Pvt. Ltd.

SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020 9929108691, 9810205356, 8005707098, 9549956601

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/

eotaleDiagnostic

(we care)

Consultation

Diagnostics He

8 Health Check- Ups

Immunization.

Clinic Vinayak Apr. 3⁴⁶ floor Dhantoli Lokmat Chowk Nagpur

For any assistance call at . 9860204241

Email ID deoraledeepak 19577 a gmail.com

		Contract 117	uconnection	19577 again	111,0,4,011								
	,	MEDICAL CH	IECK-UP										
SR .	NO		109										
A state of the sta	T NO		112										
	Code		503956										
and the second se	artmen	And a state of the second second	Mines										
	gnation		Operator										
and the second se	ile NO		9617140	and the second se	and the second second second second								
-	ractor	and an and many of the second	Bandark										
	CK-UP C		14-11-2	2									
EMPLOYTES NAME: Ganes	h Singt	h											
Gender: Male	Age	52 Yrs	Ht	170 cms	Wt: 8	5 Kg							
BM1 29.41	Chest :	94 Inch / In	spiration		Chest :91 Inch	and the second							
General Exam:- Good C.V.S.: N R/S : BLOOD TEST	N	BP .: 1: CNS:N	34/84 mmHg SP/LIVE	R :N/P	Pulse: 78/n	nin							
Random Blood Sugar: 95m	g/dl	Blood	Group : O-ve	Hb %:13	3.4 gm/dl	ESR:2 MM/Hr							
TLC:9600 /Cumm		N.:78 %	L	.: 19%	E .: 2%	M.: 1 %							
S. Cholesterol: 168mg/dl		Triglyceric	le: 158 mg/dl		HDL:4	7 mg/dl							
LDL: 89.4 mg/dl		VLDL: 31.6	mg/dl		CHO/HDL Ratio:3.6								
SGOT :33 IU/L	SGPT	:26 IU/L	Sr. Creatinin	ne: 1.1 mg/0	il Sr. UR	EA: 33 mg/dl							
Urine Pus Cell : NIL			Urine ALB : N	L	Urine	Sugar : NIL							
ECG :W'NL				Colour-	olindness : NO								
K-RAY : WNL				SPIROMETRY : WNL									
AUDIOMETRY : RT . WNL				AUDIOMETRY: LF . WNL									
			Insided Dist 16_6/6										

 Vision:
 Unaided - Dist. Rt - 6/6
 Unaided Dist. Lf - 6/6

 Unaided - Near Rt - N/6
 Unaided Near Lf - N/6

 With Spect Dist . Rt With Spect Dist . LF

 With Spect Near . Rt With Spect Near . LF

 MEDICAL CHECK UP : NORMAL
 Unaided Dist. Lf

Refractive error can be corrected by spectacle

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



(FORM - O)

(See rule 29F (2) and 29L) Report of medical examination under rule 29B (To be Issued in triplicate)

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

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

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

- any employment in mine; or
 any employment below ground; or
- (iii) any employment or work.....

(c)* is suffering from...... is should get this disability* cured/controlled and should be again examined within a period ofmonths. 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.

Space for affixing Passport Size Photograph of the Candidate.

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

Signature of the examining authority Name and designation in Block letters

* Delete whatever is not applicable.

Place: PCL, Date: 14/11/2022

** One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority,

Report of the examining authority

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

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

Identification Mark. Cut. mark on. Left. Leg.

Left thumb impression of the candidate

Granesn. Singh)

Cood/Enir/Poor
1. General development- Good/Fair/Poor 2. Height
2. Height
3 Weight
4 Eyes : (i) Visual acuity-Distant vision (with or without glasses). Right eye 6/6 Left eye
Tugin eyenin
(ii) any organic disease of eyes No
(iii) night blindness NO
(iv) Colour blindness NO
(v) Squint (* to be tested in special cases) Inserted vide notification No.GSR 656 dated 5.6.1980
5 Ears : Hearing : Right ear. WAL Left ear . WAL
Any organic diseases. NO
6.Respiratory system. Chest measurement : (i) After full inspiration
7. Circulatory system: (i) Blood Pressure
8. Abdomen : Tenderness
9. Nervous system: History of fits or epilepsy
10 Locomotory system : Normal
11. Skin. :
12. Hydrocele
13. Hemia. :
14. Any other abnormality :
15. Urine : Reaction
16. Skiagram of chest. : WNL,
17. Any other test considered necessary by the examining authority. : $M0_{-}$
18. Any opinion of specialist considered necessary. No,
9 /
Place: Signature of the examining authority Compared Deotale MBBS.AFIH Reg. No: 48366

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

Certificate No.

Name: Gronen singh

Identification Marks: Cut Mark on left 159

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)	03.27	02.80.	086
Forced Vital Capacity FEV1	02.66.	02059	0
FEV 1/ FVC	78.29.	92050	118
Peak Expiratory Flow	08.40	03.44	

Spirometry Report enclosed.



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: Groners Singh,

Identification Marks: Cut mark on, Left leg

1. Cardiological Assessment

Auscultation	SI Norma	Performed Value	% of Predicted					
·	S2 · Normal							
FEV1/ FVC	Additional Sound	NO						
FEV1/FVC		92.00,	118					
Electrocardiogra	ph(12leads) findings	Normal/Abnormal						

Enclosed ECG

2. Neurological Assessment

Findings	Normal/Abnormal							
perficial Reflexes	Norma							
ep Reflexes	Normal							
ripheral Circulation	Normat,							
orational Syndromes	alormal							
rational Oyncromes								

3. ILO Classification of Chest Radiograph

J. ILO Oldeenne	Grades	Types
Profusion of Pneumoconiotic Opacitie	Glades	
Profusion of Pneumoconious open-		
Descent /Absent		

Present /Absent

Enclosed Chest Radiograph

4. Audiometry Findings:

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

Enclosed Audiometry Report

5. Pathological/Microbiological Investigations:

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

Enclosed Investigation Reports

6. Special Tests for Mn Exposure:

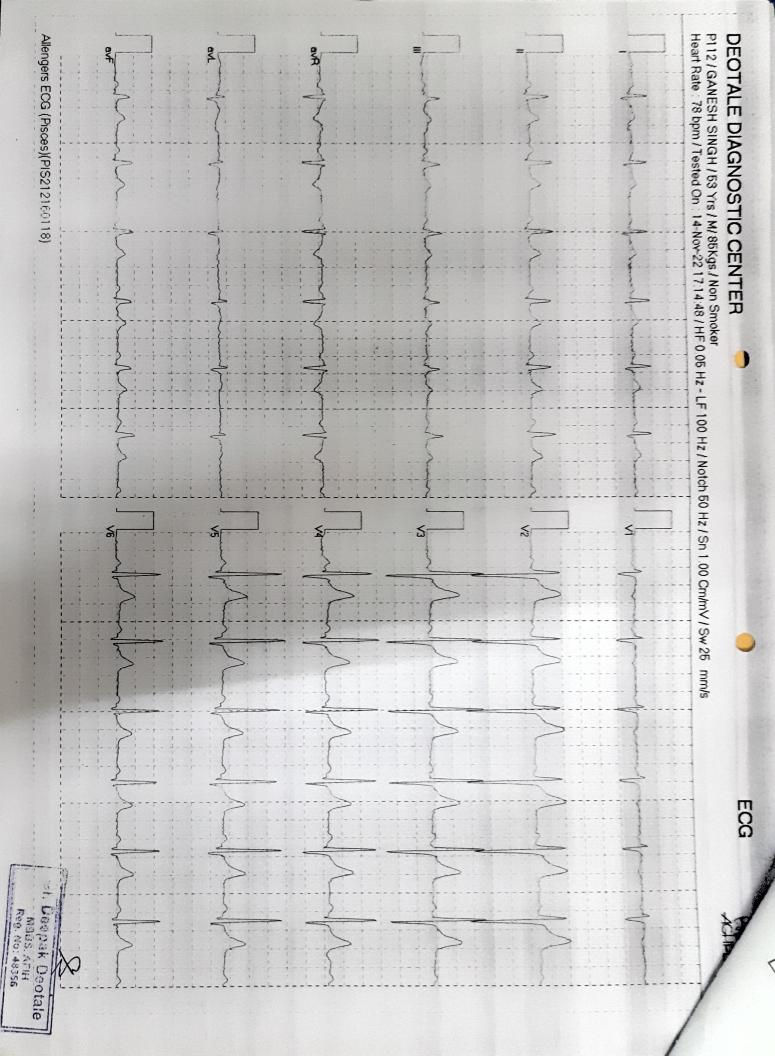
o. openne		int Despant
	ing Disturbances	Present/Not Present
Beh	avioral Disturbances Speech Defect	Present/Not Present
Neurological		Present/Not Present
Disturbances	Tremor Adiadocokinesia	Present/Not Present
	Emotional Changes	Present/Not Present
	Emotional ondriged	

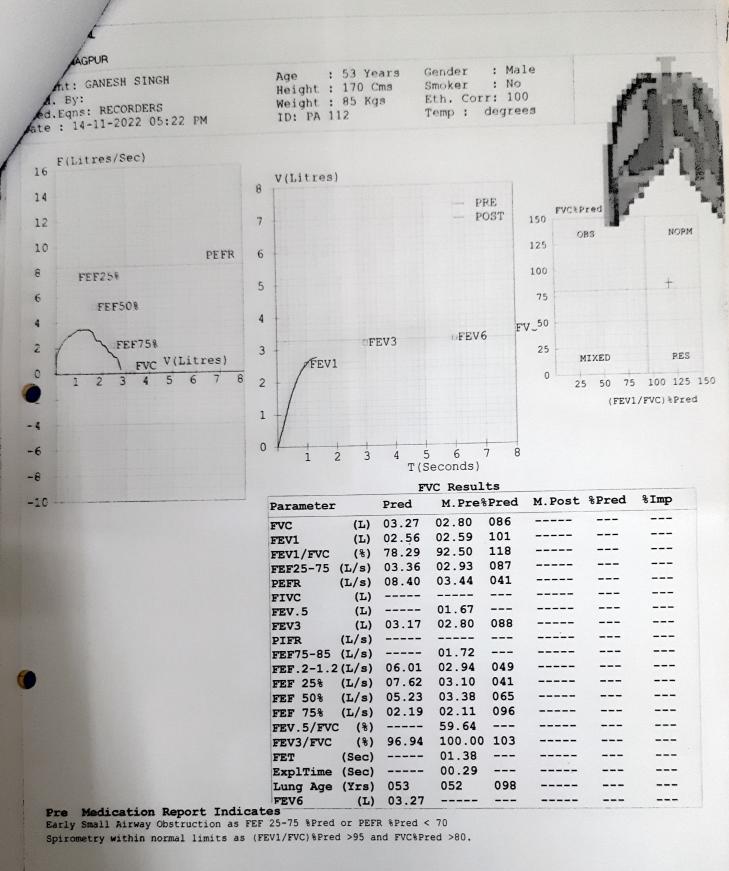
Enclosed ECG

7. Any other Special Tests Required: NO,

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

Seal

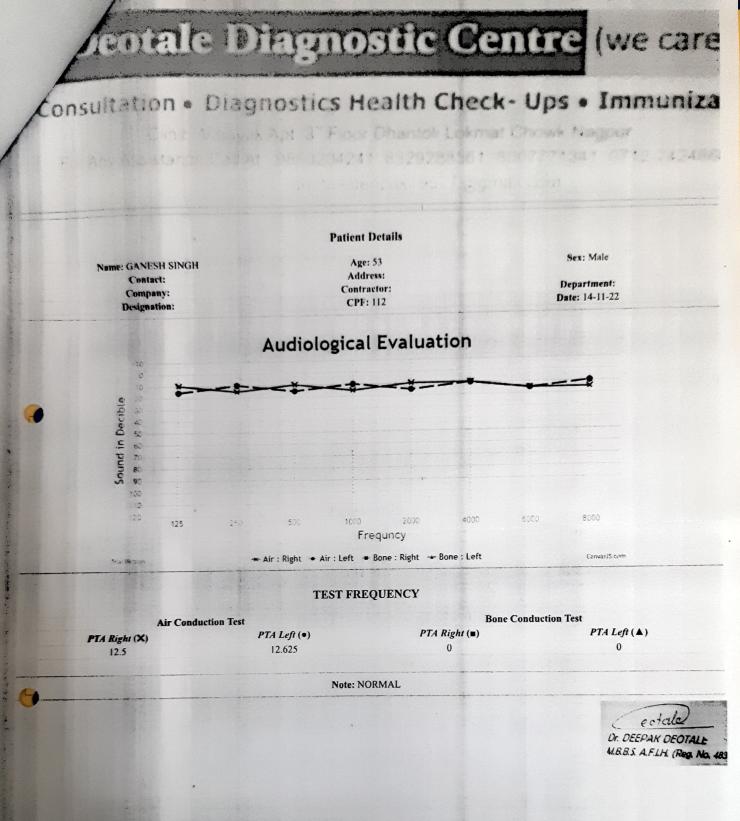






This report is not to be used for Medico-Legal purposes. The contents of this report require clinical co-relation before any clinical action. Ver

Version 3.1.2



PRISM JOHNSON LIMITED CSR Activities Roadmap Summary FY 2023-24

S.N.	Category under Schedule VII	Description of Activity	Proposed Budget Amount Rs. In Crore								
			Q-1	Q-2	Q-3	Q-4	Total				
1	Availability of drinking water Schedule VII (i))	Availability of potable water through installation of hand pumps with bore well, supply through water tankers	0.03	0.03	0.02	0.02	0.10				
2	Environment, water Conservation and Promoting renewable energy Schedule VII (iv)	Plantation and survival, construction of water harvesting structures, deepening of ponds, development of social forestry	0.36	0.33	0.11	0.04	0.84				
3	Health & Hygiene Schedule VII (i)	Free medical facility, camps and free ambulance service	0.03	0.02	0.04	0.05	0.14				
4	Promoting Education Schedule VII (ii)	Repairing & maintenance of school buildings, slogan writing, Construction of boundarywall	0.03	0.03	0.09	0.02	0.17				
5	Rural Infrastructure Development Schedule VII (X)	Renovation of community centers, Construction of drainage in villages	0.02	0.07	0.13	0.05	0.27				
6	Social Welfare Schedule VII (iii, iv & vi)	Support to old age home, animal Welfare and other assistance required as per development activity	0.04	0.02	0.02	0.01	0.09				
7	Vocational Skill Development Schedule VII (ii)	Vocational skill development trainings, livelihood support	0.00	0.00	0.01	0.02	0.03				
	Total		0.51	0.50	0.42	0.21	1.64				

Prakash Pandey Prepared By Devendra Mishra Checked BY M. P. Tripathi Functional Head

PRISM JOHNSON LTD. PROPOSED CSR ACTIVITIES ACTION PLAN FY 2023-24

	PROPOSED CSR ACTIVITIES ACTION PLAN FY 2023-24																						
Sl. No.	CSR Project Name/ Activities Undertaken	Category under Schedule VII	Whether the Project to be undertaken in collaboration with any other company	Implementatio n / Execution Modality (Directly or through Implementing Agency)	Name of Implementi ng Agency	Implementation Agency complying Rule 4(1) of CSR Rule (Y/N*	Type of Implementatio n Agency as per Rule 4(1)	Modalities of Utilization of Funds	Location	project (Y/N)	If ongoing, duration of the project (in years)	Project start year & end year	Implementa in crore	tion Schedule	edule during FY 2022-23		Monitoring & Reporting Mechanism	Total Rs in crore	Whether impact assessment applicable	Need of impact assessment (Project outlay of Rs.1 cr and above / any other reason)	Impact assessment due after (please mention date / FY which is 1 year after completion of project)	FY in which Impact Assessment proposed to be undertaken	If project is in collaboration with any other company who would undertake impact assessment
					1	1							Q1	Q2	Q3	Q4		Total					
Α.	Availability of drinking water Schedule	e VII (i))																					
1	Drinking water supply through Water Tanker at nearby villages	Availability of drinking wate Schedule VII (i))	er No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.02	0.01	0.02	0.02	Demand & Supply	0.07	No	No	No	No	No
2	Installation of 05 new hand pumps at Richhahari, Hinauti, Mahurachh, Malgaon and Bairiha	Availability of drinking wate Schedule VII (i))	er No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.01	0.02	0	0	Selection of area in association with panchayats	0.03	No	No	No	No	No
				SUB TOTAL									0.03	0.03	0.02	0.02		0.10					
в.	Environment, water Conservation and	Promoting renewable energy																					
	Plantation for Environment Conservation	on Schedule VII (iv)																					
																	Close						
3	Road side plantation with 250 treeguards at Satna	Plantation for Environmer Conservation Schedule VII (iv)		Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0	0.05	0.05	0	monitoring of project cost, time limit, MIS	0.10	No	No	No	No	No
																	Close						
4	Survival of 53000 saplings at Khamhariya Forest Land plantation	Plantation for Environment Conservation Schedule VII (iv)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.02	0.02	0.03	0.04	monitoring of project cost, time limit, MIS	0.11	No	No	No	No	No
5	Survival of 20000 saplings at Chulhi Jamodi Forest Land plantation under CSE/CSR redencification Scheme	Plantation for Environment Conservation Schedule VII (iv)	No	Yes	No	NA	NA	NA	Satna	No	NA	2023-24	0.04	0.00	0.00	0	Close monitoring of project cost, time limit, MIS	0.04	No	No	No	No	No
6	Distribution of 50,000 Fruit Plants to villagers	Plantation for Environmer Conservation Schedule VII (iv)		Yes	No	NA	NA	NA	Satna	No	NA	2023-24	0.06	0.07	0.03	0	Close monitoring of project cost, time limit, MIS	0.16	No	No	No	No	No
	Conservation of Natural Resources Sch	edule VII (iv)																					
7	Desilting of 2950 M3 Pond near Anganvadi at Mahurachh		No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.03	0.01	0	0	Close monitoring of project cost, time limit, MIS	0.04	No	No	No	No	No
8	De-silting of 3500 M3 Pond at Baghai	Conservation of Natural Resources Schedule VII (iv)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.04	0.01	0	0	Close monitoring of project cost, time limit, MIS	0.05	No	No	No	No	No
9	Desilting of 250 M waterways channel at Bamahuri	Conservation of Natural Resources Schedule VII (iv)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.03	0.01	0	0	Close monitoring of project cost, time limit, MIS	0.04	No	No	No	No	No
10	De silting of 7800 M3 Ramvan pond at Ramvan Sajjanpur	Conservation of Natural Resources Schedule VII (iv)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.05	0.04	0	0	Close monitoring of project cost, time limit, MIS	0.09	No	No	No	No	No

SI. No.	CSR Project Name/ Activities Undertaken	Category under Schedule VII	Whether the Project to be undertaken in collaboration with any other company	Implementatio n / Execution Modality (Directly or through Implementing Agency)	Name of Implementi ng Agency	Implementation Agency complying Rule 4(1) of CSR Rules (Y/N*	Type of Implementatio n Agency as per Rule 4(1)	Modalities of Utilization of Funds	Location	Ongoing project (Y/N)	If ongoing, duration of the project (in years)	Project start year & end year	Implementa in crore	tion Schedule	during FY 2	022-23	Monitoring & Reporting Mechanism	Total Rs in crore	Whether impact assessment applicable	Need of impact assessment (Project outlay of Rs.1 cr and above / any other reason)	Impact assessment due after (please mention date / FY which is 1 year after completion of project)	FY in which Impact Assessment proposed to be undertaken	If project is in collaboration with any other company who would undertake impact assessment
	Water Conservation Schedule VII (iv)																						
11	Construction of 04 Single Bore shaft water harvesting structures in nearby villages Belahati, Shankarpur, Tikuri and Satari	Water Conservation Schedule	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.03	0.03	0	0	Close monitoring of project cost, time limit, MIS	0.06	No	No	No	No	No
12	Construction of 02 double bore shafts water harvesting structures at villages		No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.03	0.02	0	0	Close monitoring of project cost, time limit, MIS	0.05	No	No	No	No	No
13	Construction of 200 perforated drum based water harvesting structires at Hinauti, Sijahata, Baghai and Chormari	Water Conservation Schedule VII (iv)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.03	0.07	0	0	Close monitoring of project cost, time limit, MIS	0.10	No	No	No	No	No
				SUB TOTAL									0.36	0.33	0.11	0.04	0.00	0.84					
c.	Health & Hygiene Schedule VII (i)																						
14	Free consultation & medicines distribution from PCL Medical centre Out door patient to nearby villagers (Approx. 20000 patients)	Health & Hygiene Schedule VII	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.01	0.01	0.01	0.02	Nos. patients attended, registered	0.05	No	No	No	No	No
15	24 hrs. ambulance facility will be provided to nearby villagers free of cost. (Approx. 2000 patients)	Health & Hygiene Schedule VII (i)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.02	0.01	0.02	0.02	Nos. patients attended, registered	0.07	No	No	No	No	No
16	Operation & Maintenance of Sulabh Complex at Mahurachh Turning (12 months)	Health & Hygiene Schedule VII (i)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.00075	0.00075	0.0008	0.00075	Project cost, time line,	0.00	No	No	No	No	No
17	Construction of 10 ODF toilets at Mnakahari village	Health & Hygiene Schedule VII (i)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0	0	0.01	0.01	Project cost, time line,	0.02	No	No	No	No	No
				SUB TOTAL									0.03	0.02	0.04	0.05		0.14					
D.	Promoting Education Schedule VII (ii)		1																				
18	Renovation of Government Middle	Promoting Education Schedule VII (ii)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0	0	0.03	0	Close monitoring of project cost, time limit, MIS	0.03	No	No	No	No	No
19	Construction of 252 M Boundary wall at Government Middle School Harshnagar Rampur Baghelan	Promoting Education Schedule VII (ii)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.02	0.03	0.06	0.02	Close monitoring of project cost, time limit, MIS	0.13	No	No	No	No	No
20	200 Awareness Wall paintings and slogans writing pertaining to different social themes at Sajjanpur, Ghunghunchihai, Goraiya and Ramasthan	Description Education Colordula	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.01	0	0	0	Close monitoring of project cost, time limit, MIS	0.01	No	No	No	No	No
				SUB TOTAL									0.03	0.03	0.09	0.02		0.17					

SI. No.	CSR Project Name/ Activities Undertaken	Category under Schedule VII	Whether the Project to be undertaken in collaboration with any other company	Implementatio n / Execution Modality (Directly or through Implementing Agency)	Name of Implementi ng Agency	Implementation Agency complying Rule 4(1) of CSR Rules (Y/N*	Type of Implementatio n Agency as per Rule 4(1)	Modalities of Utilization of Funds	Location	project (Y/N)	If ongoing, duration of the project (in years)	Project start year & end year	Implementa in crore	tion Schedule	during FY 2	022-23	Monitoring & Reporting Mechanism	Total Rs in crore	Whether impact assessment applicable	Need of impact assessment (Project outlay of Rs.1 cr and above / any other reason)	Impact assessment due after (please mention date / FY which is 1 year after completion of project)	Impact Assessment	If project is in collaboration with any other company who would undertake impact assessment
Ε.	Rural Infrastructure Development Sch																						
21	Renovation of community Center at Sijahata	Rural Infrastructure Development Schedule VII (X)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0	0	0.02	0	Close monitoring of project cost, time limit, MIS	0.02	No	No	No	No	No
22	Renovation of Community Center at Satna	Rural Infrastructure Development Schedule VII (X)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0	0.04	0.06	0.03	Close monitoring of project cost, time limit, MIS	0.13	No	No	No	No	No
23	Construction of pathway at Pond Mankahari	Rural Infrastructure Development Schedule VII (X)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0	0	0.03	0.02	Project cost, time line,	0.05	No	No	No	No	No
24	Construction of 200 running meter drainage at Bamhauri	Rural Infrastructure Development Schedule VII (X)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.02	0.03	0.02	0	Close monitoring of project cost, time limit, MIS	0.07	No	No	No	No	No
				SUB TOTAL									0.02	0.07	0.13	0.05		0.27					
F.	Social Welfare Schedule VII (iii, iv & vi)																					
25	Support to Old Age Home, Dr. Lalta Prasad Khare Charitable Trust	Social Welfare Schedule VII (iii)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.02	0.02	0.01	0.01	Support by providing financial assistance	0.06	No	No	No	No	No
26	Assistance Measures for development of societies, war widows, social weaker section of society, promoting art and culture etc	Social Welfare Schedule VII (iii)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0	0	0.01	0	Selection of beneficiaries, time limit	0.01	No	No	No	No	No
27	Fodder arrangement for 100 cows at Goshala Mahurachh	Animal Welfare Schedule VII (iv)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0.02	0	0	0	Close monitoring of project cost, time limit, MIS	0.02	No	No	No	No	No
				SUB TOTAL									0.04	0.02	0.02	0.01		0.09					
G.	Vocational Skill Development Schedu	le VII (ii)																					
28	Driving Training program with license making to 50 youth from nearby villages	Vocational Skill Development Schedule VII (ii)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0	0	0	0.01	Close monitoring of project cost, time limit, MIS	0.01	No	No	No	No	No
29	Stitching/Beautician Training program for 25 women from nearby villages.	Vocational Skill Development Schedule VII (ii)	No	Direct	No	NA	NA	NA	Satna	No	NA	2023-24	0	0	0.01	0.01	Selection of beneficiaries, Attendance, time limit, MIS	0.02	No	No	No	No	No
				SUB TOTAL									0.00	0.00	0.01	0.02		0.03	No	No	No	No	No
				TOTAL									0.51	0.50	0.42	0.21		1.64					

Prakash Pandey Prepared By Devendra Mishra Checked BY M. P. Tripathi Functional Head



PRISM CEMENT LIMITED

Works : Vill-Mankahari, P.O.-Bathia, Dist.-Satna - 485111 (M.P.) India Tel. : (07672) 275301-2, 275621-22, Fax : 275303 Corsp. Add. : 'Rajdeep', Rewa Road, Satna - 485 001 (M.P.) India Tel. : (07672) 402726, Fax : 402710



दिनांक: 01.04.2013

प्रति,

सरपंच महोदय

ग्राम-पंचायत-हिनौती, विकास खण्ड-रामपुर बाघेलान

जिला-सतना (म०प्र०)

विषयः मौजा बदरखा में प्रिज्म सीमेंट लिमिटेड मनकहरी के लीज पर पर्यावरण अनापत्ति प्रमाण पत्र के संबंध में।

मान्यवर,

सादर निवेदन है कि मध्य प्रदेश शासन के राज्य स्तरीय पर्यावरण प्रभाव निर्धारण प्राधिकरण भोपाल, म०प्र० द्वारा पत्र क्र० 3080/SEIAA/13 Dated 20.03.2013 के मौजा बदरखा में प्रिज्म सीमेंट लिमिटेड मनकहरी को स्वीकृत माइनिंग लीज रकवां 40.236हेक्टेयर पर राज्य स्तरीय पर्यावरण प्रभाव निर्धारण प्राधिकरण भोपाल, म०प्र० पर्यावरण अनापत्ति प्रमाण पत्र दिया गया है।

अस्तु उपरोक्त जानकारी आपकी ओर सम्प्रेषित है।

संलग्नः पत्र की छायाप्रति संलग्न है।

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रा 177 खुल्डादीनी द्वारू पंचायत हिमीसी ब.य. समपुर बाधेलान, डिसा सतना (म.ज.)



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दिनांक: 01.04.2013

प्रति,

विकास खण्ड अधिकारी, (मटण अप्रेपालन कार्य गारी)

विकास खण्ड-रामपुर बाघेलान

जिला-सतना (म०प्र०)

विषयः मौजा बदरखा में प्रिज्म सीमेंट लिमिटेड मनकहरी के लीज पर पर्यावरण अनापत्ति प्रमाण पत्र के संबंध में।

मान्यवर,

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अस्तु उपरोक्त जानकारी आपकी ओर सम्प्रेषित है।

संलग्नः पत्र की छायाप्रति संलग्न है।



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