

Registered Office: Mcleod House, ^{1st} Floor 3, Netaji Subhas Road, Kolkata, West Bengal - 700001 CIN: U10100WB2010PTC152849

SMPL/ENV/Mine/EC/2024/2

Through E. Mail

Date: 27.11.2024

Τo,

The Deputy Director General of Forest (DDGF), Ministry of Environment, Forest and Climate Change Integrated Regional Office, E-5 Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road No.3, Ravishanker Nagar, Bhopal-462016 Email: tg035.ifs@nic.in

Sub: Submission of Six-Monthly EC (EC letter no. - J-11015/114/2015-IA. II (M) dated 18th Feb, 2022) Compliance Report for the period: April-2024 to September-2024 of Limestone Mine with total excavation of 14.11 million TPA [Limestone – 4.0 million TPA (ROM), Topsoil – 1.57 million TPA, OB – 6.51 million TPA, Mineral Rejects – 2.03 million TPA] along with the crusher of 1600 TPH in the mine lease area of 499.641 ha at Village – Kolkarhiya, Tehsil Pawai, Dist. Panna, MP by M/s Springway Mining Private Limited.

Ref: EC letter no. - J-11015/114/2015-IA. II (M) dated 18th Feb, 2022

Dear Sir,

With reference to the above subject matter and cited reference. We are herewith submitting the Half Yearly compliance of EC for the period April 2024 to September 2024 and the same has been uploaded on MoEF&CC portal.

As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the soft copy of same has been sent through email to tg035.ifs@nic.in, moef@nic.in, ccb.cpcb@nic.in, cpcb.bhopal@gov.in, monitoring-ec@nic.in, chairmanmppcb@mp.gov.in, ms-mppcb@mp.gov.in, romppcb_sagar@rediffmail.com

We hope you will find the same in order.

Thanking You, Yours faithfully, For Springway Mining Pvt. Ltd. (A Unit of JSW Cement)

AAN 2 . . 27/11/24

(Mayank Shrivastav) Authorized Signatory

Encl.: as above

Copy to:

- 1. The Director (M), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, JOR Bagh Road, Aliganj, New Delhi-110003 Email: moef@nic.in
- The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-CUM office complex, East Arjun Nagar, New Delhi 110032. Email: <u>ccb.cpcb@nic.in</u>
- The Regional Director, Central Pollution Control Board Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016. Email: <u>cpcb.bhopal@gov.in</u>
- The Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016. Email: <u>chairman-mppcb@mp.gov.in</u>
- The Member Secretary, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016. Email: <u>ms-mppcb@mp.gov.in</u>
- The Regional Officer, Regional Office, Madhya Pradesh State Pollution Control Board, Din Dayal Nagar, Housing Board Colony, Sagar (MP). Email: <u>romppcb sagar@rediffmail.com</u>

	Form	n for Upload	ding Six Monthly Cor	npliance Report		
Proposal Details						
Proposal No.	IA/MP/MIN/273 04/ 2015	Project Na	Limited for Pro TPA [Limestor 6.51 million TF of 1600 TPH in	Proposal for Environment Clearance of M/s Springway Mining Private Limited for Proposed Limestone Mine with total excavation of 14.11 million TPA [Limestone – 4.0 million TPA (ROM), Topsoil – 1.57 million TPA, OB – 6.51 million TPA, Mineral Rejects – 2.03 million TPA] along with the crusher of 1600 TPH in the mine lease area of 499.641 ha at Village – Kolkarhiya, Tehsil Pawai, Dist. Panna, MP.		
Category	Α	MoEF File	No. J-11015/114/2	015-IA. II (M) dated 18 th Feb, 2022		
Name of the Entity / Corporate Office*	M/s. Springwa	y Mining Pri	ivate Limited, Chenn	ai, Tamil Nadu-600028		
Entity's PAN*	AAPCS9007H					
Entity Name as per PAN	SPRINGWAY N	MINING PRIV	ATE LIMITED			
Compliance Letter/Report						
Reporting Year*	* 2024 Reporting Period* April-2024 to September-2024					
Remarks (if any)	Limestone Mine million TPA, OB	e with total ex 3 – 6.51 milli area of 499	xcavation of 14.11 mil on TPA, Mineral Reje	nce Report for the period: April 20 ion TPA [Limestone – 4.0 million T cts – 2.03 million TPA] along with th olkarhiya, Tehsil Pawai, Dist. Panr	PA (ROM), Topsoil – 1.57 ne crusher of 1600 TPH in	
Details of Production and Proj	ect Area					
Date of Commencement of Pro	pject 2	21/03/2022 Project Area as Per EC Granted (In C Lease): *		EC Granted (In Case of Mine	499.641 ha.	
Actual Project Area (In Case o Lease): *	f Mine 49	99.641 ha.				
PRODUCTION CAPACITY						
Name of the Product*	Unit	ts*	As per EC granted*	Production during last final	ncial year: (2023-24) *	
Limestone	Million	TPA	4.0	4.0 0.001		
Top Soil	Million	TPA	1.57	0.007503	50304	
OB	Million	TPA	6.51	6.51 0.06599995		
Mineral Reject	Million	TPA	2.03	0.0		
Total Excavation Qua	antity Million	TPA	14.11	0.074502	99	

Limestone Mine with total excavation of 14.11 million TPA [Limestone – 4.0 million TPA (ROM), Topsoil – 1.57 million TPA, OB – 6.51 million TPA, Mineral Rejects – 2.03 million TPA] along with the crusher of 1600 TPH in the mine lease area of 499.641 ha at Village – Kolkarhiya, Tehsil Pawai, Dist. Panna, MP by M/s Springway Mining Private Limited. EC Compliance Report: April-2024 to September-2024

Environment Clearance of M/s Springway Mining Private Limited for Proposed Limestone Mine with total excavation of 14.11 million TPA [Limestone – 4.0 million TPA (ROM), Topsoil – 1.57 million TPA, OB – 6.51 million TPA, Mineral Rejects – 2.03 million TPA] along with the crusher of 1600 TPH in the mine lease area of 499.641 ha at Village – Kolkarhiya, Tehsil Pawai, Dist. Panna, MP.

Environment Clearance vide No.: J-11015/114/2015-IA. II (M) dated 18th Feb, 2022

A. SPECIFIC CONDITION: -

S. No.	Condit	ion Type		Condition Details Self Declaration Rem			narks / Reason		
i	a K		address public du complete	dget of Rs 4.5 Crores to the concerns raised by the uring the public hearing to be ed within 3 years from the tart of mining operations.	comply	development stage. Publ addressed as per submitte year from the date of start Budget expenditure (Rs. 1	operation on 21.03.2022 and is in c hearing issues raised will be ed time bound action plan within 3 of mining operation. The status of ,17,23,962 /-) from FY 2023-24 to en below and please refer to ns of the activities.		
	SI. Themes Activities				No. of beneficiaries	Budget Spent			
	1			Eye Camp at Kolkarhiya			103	52,100	
	2			General Health Camp at Koll	155	24,745			
	3			Eye Camp at Devri	97	56,400			
	4			General Health Camp at Dev	144	23,925			
	5	Health		Eye camp at Gaisabad			170	47,400	
	6	Tieaitii		General Health Camp at Gai	sabad		230	35,295	
	7			Eye Camp at Garreh			104	56,600	
	8			General Health Camp at Gar			127	21,845	
	9 Supply of essential medical equipment at Devri & Ga Sub Centre			Devri & Gaisabad health	4000	185,956			
				Distribution of Education I Kuluwa, Gaisabad	of Education Kits in Kolkarahiya, Devri, Raikra and sabad			552,871	
	11]		Renovation of Gaisabad Ang	anwadi & Harij	an Tola Primary School	130	767,000	

iii		Statutory compliance The Project Proponent must ensure that the Garland drains created to protect entry of water from river into Complied Excavation of pit has been first year period which is closed garland drain with				ying over groun	d level 318 m RL. A
ii	cc	atutor	nce i I I I	implemen project a payment per the central/st provided	ffected families (PAFs) and of compensation to PAFs as policy and guidelines of the ate Government, as under the law.	and Rehabilitat ent of compens and guidelines under the law.	tion of project-affected ation to PAFs is being s of the central/state
					Total	14,953	11,723,962
		24	Rur Infrastru	al	Installation of 100 Street Solar lights at Village Kolkarhiya, Devri, Raikra and Kuluwa, Sanjay Nagar, Garreh, Gaisabad, Mahua Kheda, Bichua Chkka,Baleh & Adanwara Villages	6000	1,684,467
		23	Plant pur Plantatic tree gr installa	on with uard	2500 Plantation and tree guard installation in Schools and Mine area		918,500
		22	Wat		Borewell & 3 Hand Pump Installation (Kolkarahiya & Raikra Villages) & 1 Borewell and motorized system setup at Devri Village.	350	407,561
		21	Sports &	Culture	Payment to Panna Collector-Towards celebration of Gaurav Diwas on the occasion of Chatrsal Jayanti.	-	200,000
	-	20	Empowe	erment	Programme. Celebration of International Women's day.	200	73,170
		19	Wom	nen	run of Kalumar village of Jabera Janpad Panchayat, district Damoh. Support provided to Nai Duniya Newspaper towards Nayika Samman	55	118,000
		18	Livelih	nood	Grant support in paying the electricity connection and transformer charges for establishing and running Dona/Pattal making machine unit		261,441
		17			Renovation of Higher Secondary School Gaisabad	610	16,54,585
	-	16			& Middle School Kolkarhiya Renovation of Middle School Kolkarhiya	197	13,73,856
		15			Secondary School, Gaisabad Digital Smart class installation at Higher Secondary School Gaisabad	105	395,300
		14			Inaugural function for handover the laboratories' equipment and furniture set up works at Higher		6,008
		13			Setting up Science laboratory-Physics, Chemistry & Bio in 1 Senior Secondary School (Gaisabad) : Furniture work & Lab equipment purchase	496	650,312
		12			Supply of 425 School benches and 5 sets of office furniture in Govt. Schools in Kolkarhiya, Devri, Raikra & Gaisabad Villages	850	2,146,625

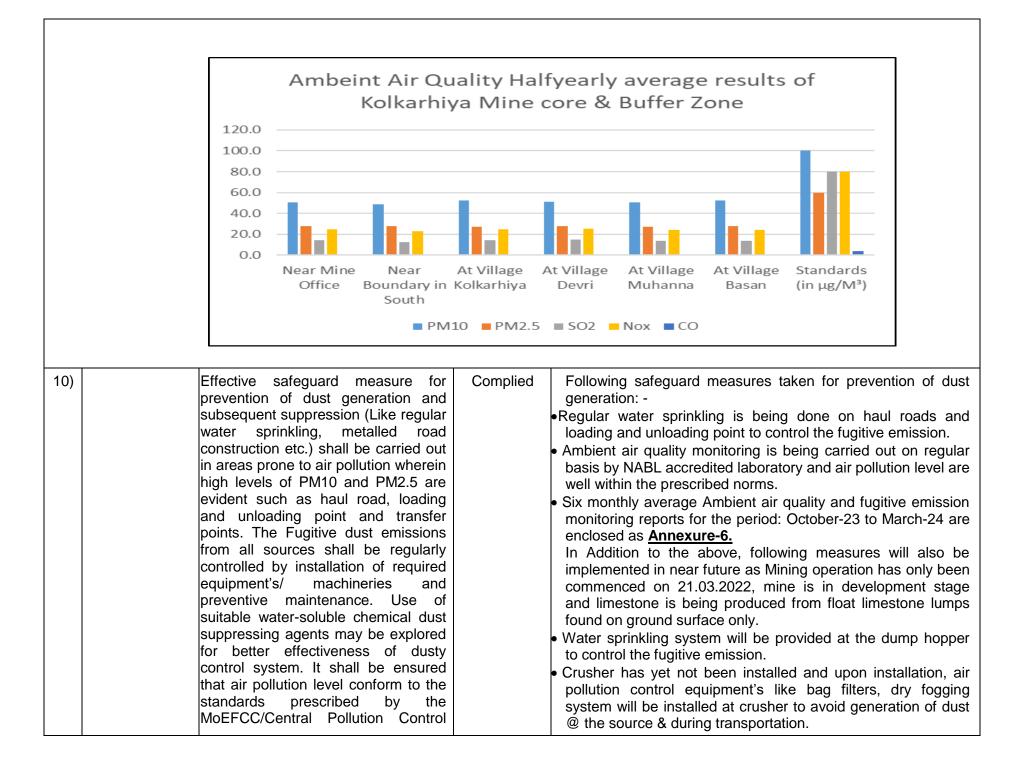
		the mine and from the mine to river to be dealt with the proper protection measures proposed and should be designed and constructed in such a way that at no time solids and		all along the proposed area of excavation. Photographs of protected Garland drain and siltation pond with wire fencing along pit area and bund under development along
		pollutants from the mine area from all the pits will not flow into the river and it should be ensured that the water in the drain as surface runoff from mine collected in the pit be monitored for quality and treated accordingly.		proposed excavation area is enclosed as annexure-2 .
G	Kolkardiya, Madhya P 7RC9+M8, Kolkardiya, Lat 24.271564° Log 79.818338° Og (05/24 10:14 AM GM	Madhya Pradesh 488442, India 7RC Lat Lon	kardiya, Madhya Pradesh, Indi 24.272648 g. 93,847228 g. 93,847228	Per HaBA442, India
iv	Mining Plan	The Committee noted that the PP presented that initially Pit-A will be operated for a period of 10 years and hence the protection measures proposed should be demonstrated in Pit –A first. Based on the performance of adopted measures the design and the construction shall be taken up in further pits.		Excavation of pit A has been commenced in approved area for pit of first year period, which is lying over ground level 318 m RL. A closed garland drain with suitable bund has been constructed all along the proposed area of excavation and will be ensured for all respective pits in future also. Please refer annexure-2 for photographs.
V		Since the major river is garlanding the entire mine area on northern, western and southern side, all the protection measures shall be taken up so that neither the river hydrology nor the quality of the river will have any impact till the entire mining operation.	complied	A garland drain with suitable bund has been constructed all along the proposed area of excavation and will be ensured for all respective pits in future also to avoid any impact till the entire mining operation. Please refer annexure-2 for photographs.

I.	Statutory Comp	liance		
	STANDARDS C	ONDITIONS:		
х	Statutory compliance	The project proponent shall obtain the NOC from CGWA for intersection of ground water table.	Complied	NOC for intersection of ground water table has been obtained from CGWA vide letter no. CGWA/NOC/MIN/ORIG/2021/13119 dated 10.04.2024. Copy of the same is already submitted through EC compliance report dated 22.05.2024.
ix	Human Health Environment	Regular surveillance on The topsoil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.	Being Complied	 Noted. Top soil will only be stored at earmarked site(s) and the soi will be used for plantation and land reclamation. Pre-employment medical checkup is being carried out. Please refer annexure-4 for medical checkup reports.
	Rolkardiya, Madhy Bogole Bogole Bogol	Pradesh, Indla Rardiya, Madhya Pradesh 488442; Indla GMT +05:30	ya, Madhya Pradesh, India d Road, Kokardiya, Madhya Pra 2517* 821877* 1 o 4:43 PM GMT +05:30	Image: Addshift 488442, India
viii	Land Reclamation	The topsoil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	Complied	Noted. Top soil will only be stored at earmarked site(s) and the soil will be used for plantation and land reclamation. Photographs of plantation developed on top soil is enclosed as Annexure-3.
vii	Miscellaneous	PP shall stay in touch with Forest and Wildlife Department for any intervention required in future for protecting the wildlife.	Complied	Noted. Guidance will be taken from Forest and Wildlife department if there is any requirement in near future fo protecting the wildlife.
vi	Mining Plan	The Sub- Committee of the EAC (Non-Coal Sector) shall visit the mine after the mine commences operation to assess the performance of the above measures mentioned in condition no. iii, iv & v.	Being Complied	Noted. Mining operation has been commenced on 21.03.2022 mine is in development stage and limestone is being produced from float limestone lumps found on ground surface only. Please refer annexure-2 for photographs of protection measures.

1)	Statutory compliance	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High NGT and any other Court of Law, Common Cause Conditions as may be applicable.	Complied	Noted and all applicable laws will be followed.
2)	Statutory compliance	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August,2017 in write Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	Complied	Noted and all applicable laws will be followed.
3)	Statutory compliance	The State Government concerned shall ensure that mining operation not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.	Complied	Not applicable, no any compensation levied is due and unit is complying with the Judgment of Hon'ble Supreme Court dated 2nd August, 2017.
4)	Statutory compliance	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October, 2014 titled "Impact of mining activities on Habitation –Issues related to the mining Projects wherein Habitations and villages are the parts of mine lease areas or Habitations and villages are surrounded by the mine lease area".	Complied	 Unit has taken the following measures to reduces the impact of mining activities on habitations: - Garland drain constructed, Siltation pond facilitated, Regular water spray on haul road is being done, Company owned road used for limestone transportation, and Carried out dense plantation. Following measures will also be implemented in near future as Mining operation has been commenced on 21.03.2022, mine is in development stage and limestone is being produced from float limestone lumps found on ground surface only. Rainwater collected in mine pit will be supplied to nearby villagers during the lean period. After installation of the Hi mast tower light, it will be kept in off

				 mode during night period, Control blasting will be implemented after getting the permission of Blasting. No village road will be used for the transportation of minerals.
5	Statutory compliance	A copy of EC letter will be marked to concerned panchayat/ local NGO etc. if any, from whom suggestion/ representation has been received while processing the proposal.	Complied	Copy of EC letter has been marked to Gram Panchayat Kolkarhiya, dated 22/02/2022. Copy of the same is already submitted through EC compliance report dated 20.05.2023 .
6	Statutory compliance	State Pollution Control Board/ Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.	Complied	Noted. This condition will be complied by SPCB
7	Statutory compliance	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance latter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/ Committee and web site of the Ministry of Environment, Forest and Climate Chang (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.	Complied	M/s Springway Mining Pvt Limited has widely advertised about the grant of this EC letter by printing the same in at least two local newspapers, and in vernacular language of the concerned area. i.e.: Dainik Bhasker and Raj Express. Copy of the Newspaper cutting is already submitted through EC compliance report dated 20.05.2023 .
8	Statutory compliance	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred. PP needs to apply for transfer of EC as per provisions of the	Complied	Noted, If any change in ownership of mining, will be intimated to the ministry.

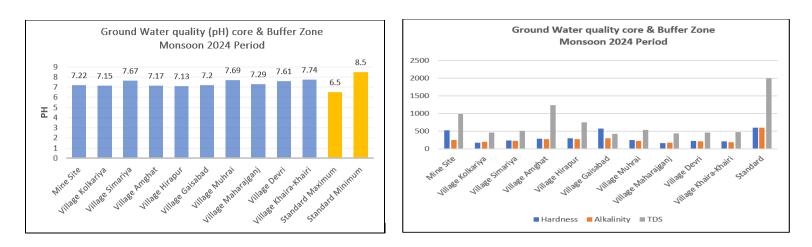
		para 11 EIA Notification, 2006 as amended from time to time.								
П.	Air Quality Moni	toring and Preservation								
9)	Air Quality Monitoring and Preservation		Agreed to Comply	has b stage • Ambie Bound Muha appro enclo We are installa	ent air quality monito dary) and buffer zo na, Rekra, Devri) is wed laboratory. Six sed as Annexure-5. in the process of fina- tion of the CAAQMS s as per applicable guid	1.03.20 ring in o one (Vi being being month alizing th system a delines a	22, mine core (Mi llage Ka carried aly aver e technic along with along with and will b	is in c ne Sit olkarhi out b age i cal quo th the be insta ge res Zone	e and ya, B y MoE reports digital alled a	Mine asan, EFCC are for the display s early

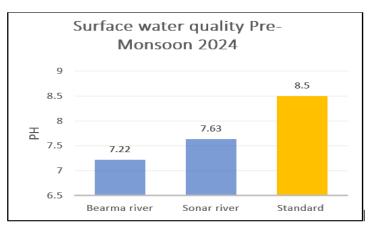


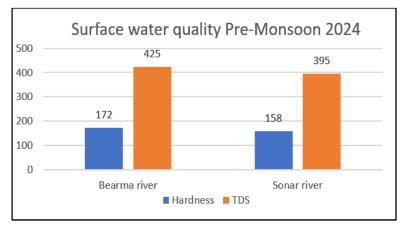
		Board.			F			
					Fug	itive emission monito results of Kolkarhi	•	age
					Sr. No.	Name of Location/Parameter		SPM
					1	Near Mine Site		248.0
					2	Near Haul Road		203.5
				Stor	300.0 — 250.0 — 150.0 — 100.0 — 50.0 — 0.0 —	Fugitive emission n halfyearly averag 248.0 Near Mine Site	e results	M PC B Sta ndard
	Water Quality M	onitoring and Preservation						
11)	Water Quality	In case, the immediate mining scheme envisages intersection of ground water table, then Environment Clearance shall become operation only after receiving formal clearance form CGWA, In case, mining operation involves intersection of ground water table at a later stage, than PP shall ensure that prior approval from CGWA and MoEFCC is in Place Before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed	Complied	obtain CGW Copy	ied A/NOC/N of the s	intersection of grou from CGWA /IN/ORIG/2021/13119 ame is already submit 2.05.2024.	vide dated 10.0	letter no 04.2024.

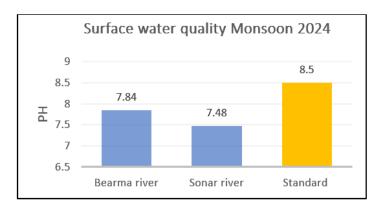
		hydro-geological st	udy of the area.					
12)	Water Quality Monitoring and Preservation	monitor and main ground water level around the m establishing a ne wells as well as installations during mining operation in Central Ground State Ground W	and quality in and hine lease by stwork of existing new piezo-meter g the mining the n consultation with Water Authority/ ater Department. hanges in Ground quality shall be monthly basis to be of the Ministry, te Ground water	Complied	Regular monitoring of groundwater level and quality is be carried out in and around the mining lease area as per to Environment Management Plan of approved Mining plan establishing a network of existing wells in nearby 10 Villages. The unit has installed 1 no. of piezometers as per CGWA NO for periodic monitoring of groundwater level and installed DWLR (Digital Water Level Recorder) with telemetry system online monitoring of groundwater level. Detailed ground water level monitoring and quality report for to period: April-24 to Sept-24 is enclosed as Annexure-7 & 8 .			
	Month	WATER LEVEL (r Piezometer-1	nWC) (- means bg	20	Water level Result of Mines Piezometer			
		(with telemetry)	(without telemetry	/) 10	13.17 13.07			
	Apr-24	16.75	11.8		10.99 4.74 4.14			
	May-24 Jun-24	17.23 17.19	13.17 13.07	5	3.39			
	Jul-24 Jul-24	17.19	10.99	0	2.29			
	Aug-24	4.74	3.39	A	pr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24			
	Sep-24	4.14	2.29		Piezometer 1 water level (mWC) (- means bgl)			
13)	Water Quality	The Project undertake regula natural water cours springs and p existing/ flowing in mine lease includ downstream. Suff	Proponent shall r monitoring of e/water resources/ perennial nallahs n and around the ing upstream and		 Piezometer 2 water level (mWC) (- means bgl) Unit is monitoring the ground water and surface water quality including both River & seasonal Nallah on quarterly basis i.e.: Pre-monsoon (April-May), Monsoon (August), Post-monsoon (November) and Winter (January) and upstream and downstream flow rate of surface water on monthly basis with the help of MoEF&CC approved Laboratory. Please refer the Annexure-8 for analysis report for the period: Pre-monsoon and Monsoon season. 			

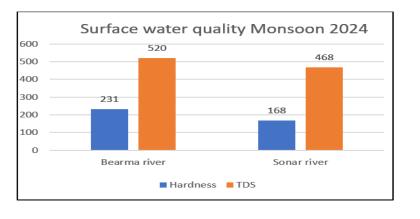
appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/Bodies existing in lease area shall be carried out four times in a year viz. per – monsoon (April May), monsoon (August), post –monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional office, Central Ground water Authority and Regional Director, Central Ground water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six- monthly basis.		 There is/will be no any obstruction and/or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. All reports are being submitted regularly to the Ministry of Environment, Forest and Climate Change and its Regional office, Central Ground water Authority and Regional Director, Central Ground water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six- monthly basis. Six monthly result trends analysis of Ground water is as given below: The groundwater analysis demonstrates stable pH levels, ranging from 7.22–7.62 in the pre-monsoon and 7.13–7.74 during the monsoon, indicating a consistently neutral to slightly alkaline environment suitable for various uses. Total hardness, alkalinity, and total dissolved solids (TDS) increase during the monsoon, highlighting the potential for enhanced mineral availability due to natural recharge. The variation in these parameters reflects a dynamic yet balanced water quality, adaptable for both premonsoon and monsoon conditions, supporting agricultural and domestic needs.
Ground Water quality (pH) core & Buffer Zone Pre Monsoon 2024 Period 9 7.33 7.56 7.52 7.52 7.55 7.52 7.58 7.44 7 6 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	6.5	Ground Water quality core & Buffer Zone Pre Monsoon 2024 Period











14)	5	Quality of polluted water generated from mining operation which include Chemical Oxygen Demand (COD) in mine run-off: acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TSS), Dissolved Oxygen (DO), pH and Total Suspended solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the mine gate of the Company. The circular No. J- 20018/1/2006-IA. II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.	0	 The Kolkarhiya Limestone Mine has been commenced on 21.03.2022 and is in development stage. There is no wastewater generation from the Limestone mining operation as it is in developmental stage.
15)		Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Ground water Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.		 Siltation pond and Garland drain has been constructed to augment water table. Rainwater is collected in the lower most benches to augment Ground water resources. Photos of implemented rainwater harvesting measures i.e.: Mine pit, Garland drain and Siltation pond etc. are enclosed as <u>Annexure-9</u>.



Rainwater Harvesting in Mine Pit

Garland Drain



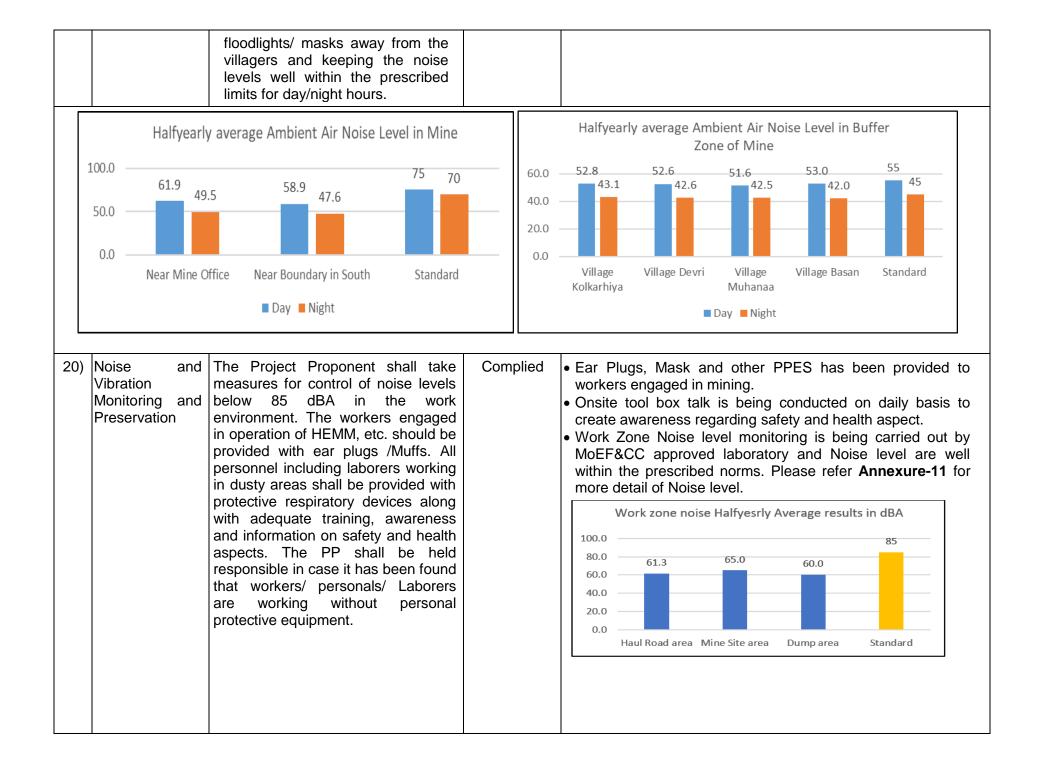
Siltation Pit-1

Siltation Pit-2

Bund along-with Mine Pit

16)	Monitoring and Preservation	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent	 There is no industrial waste water generation from the Mine operation. Workshop is yet to be installed. Workshop waste water will be passed through oil and grease trap and clear water will be reused for dust suppression. Separated Oil & grease from waste water will be sold to recycler authorized from CPCB/SPCB. Quality of water will be analyzed by NABL accredited Lab to confirm the standards prescribed by SPCB.

		shall be treated after its initial Passage through oil and grease trap.		
17)		The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.	Agreed to comply	The Kolkarhiya Limestone Mine has been commenced w.e.f. 21.03.2022 and is in development stage. However, water audit will be conducted.
IV.	Noise and Vibra	tion Monitoring and Preservation		
18)	Vibration	The peak particle velocity at 500m distance or with the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Complied	The Kolkarhiya Limestone Mine has been commenced on 21.03.2022 and is in development stage and limestone is being produced from float limestone lumps found on ground surface only.
				 Blasting and magazine permission is obtained on 28.08.2023. PPV is being monitored periodically, First blasting was done on 17th May 2024 and PPV was 0.418 mm/sec. Following measures is being implemented. Blasting operation is being carried out in day time only. Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator for blasting is being used to mitigate vibration. Water injection system on DTH drill will be provided which suppresses dust at its source of generation. Blasting report is enclosed as <u>Annexure-10</u>
19)	Noise and Vibration Monitoring and Preservation	night at project sites disturb the	Complied	 Unit is maintaining the illumination and noise level well within permissible limits during day and night hours. Six monthly noise level monitoring report of ambient & work zone area for the period: April-24 to Sept-24 are enclosed as <u>Annexure-11</u>. Please refer below graph showing 1st & 2nd Quarter average Noise level results in Core zone as well as Buffer zone of Mine area.

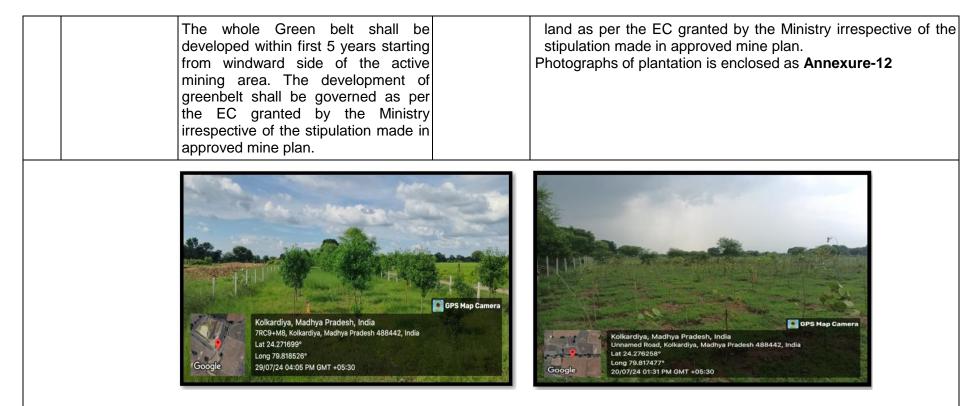


۷.	Mining Plan								
21)	Mining Plan	The Project Proponent shall adhere to approved mining plan, inter alia, including total exaction(quantum of mineral, waste, over burden, inter burden and top soil etc.): mining technology: lease area: scope of working (method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure: land- use of the mine lease area at various stages of mining scheme as well as at the end-of-life: etc).	Complied	mir • Ex lim Exc 202	ning plan. cavation quan it.	itity is maintai s for the period	carried out as ned well within from April 2024 Over Burden (MT) 9808.61 Nil Nil Nil Nil Nil Nil Nil 9808.61	the permit	tted nber
22)	Mining Plan	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved mining plan. The excavation vis-à-vis backfilling in the mine area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office.	Complied	 All mining activities are being carried out as per approved mining plan. Compliance status is being submitted to the MoEF&CC and its concerned Regional Office on Half Yearly basis regularly. Last half-yearly compliance report was sent on 22.05.2024 for the period from October 2024 to March 2024. 				and arly.	
VI.	Land Reclamation		• •• <i>i</i>	_					
23)	Land Reclamation	The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should be kept active for a long period of time. The physical parameters of the OB/ waste dumps/	Complied	sta • Ph ang apj	icked at earma ysical paramet gle of slope	rked OB dump ters of the OE being maint	the mining opera o sites only. 3 dumps i.e. hei ained in comp he guidelines /c	ght, width a liance of	and the

		topsoil dump like height, width, width and angle of slope shall be governed as per the approved mining plan and the guidelines/ circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.		• Top soil generation quantity from mining operation in the FY: 2024-25 (up to sept 24) is Nil and 2023-24 is 7503.04 MT. It is being used for plantation purposes only. Please refer annexure no 3 for photographs of the plantation done on top soil.
24)	Land Reclamation	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slop stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring filling/leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes/ clay liners/ Bentonite etc. shall be undertaken for stabilization of the dump.	Complied	Noted, presently dumps are active and slope of dumps will be vegetated in scientific manner with suitable native species, gullies will be formed on slopes and filling and levelling of dump mass will be done with the help of dozer/ compactor once dumps become inactive.
25)	Land Reclamation	Catch drains, setting tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and top soil/ OB/ Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.	Complied	Garland drain and setting tank has been constructed to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water will be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/sedimentation sumps etc. is being de-silted regularly and after proper sedimentation mine water is utilized for various purposes. Please refer annexure 2 for photographs of the same.

26)	Land Reclamation	Check dams of appropriate size, gradient and length shall be constructed around mine pit OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept be kept of designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its. Adjoining area which shall also help in providing adequate retention period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	Complied	Garland drain and setting tank has been constructed to prevent storm run-off and sediment flow into adjoining water bodies. The drains/sedimentation sumps etc. is being de-silted regularly and after proper sedimentation mine water is utilized for various purposes. Please refer annexure 2 for photographs of the same.
VII.	Transportation	· · · · ·		
27)	Land Reclamation	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitation. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All cost resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal state govt. department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal state govt. department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation	Complied	Noted. No transportation of minerals is being done through roads passing villages/habitation.

28)	Land Reclamation	load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. (If applicable in case of road transport). The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer Points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to	Partially Complied	 Regular water sprinkling is being done on haul roads and loading and unloading point to control the fugitive emission. Ambient air quality monitoring is being carried out on regular basis by NABL accredited laboratory and air pollution level are under norms. Six monthly average Ambient air quality and fugitive emission monitoring reports for the period: October-23 to March-24 are enclosed as <u>Annexure-5 & 6.</u> Following measures will also be implemented in near future as Mining operation has been commenced on 21.03.2022, mine is in development stage and limestone is being produced from float limestone lumps found on ground surface only. Water sprinkling system will be provided at the dump hopper to control the fugitive emission. Crusher has yet not been installed and upon installation, air pollution control equipment's like bag filters, dry fogging system will be installed at crusher to avoid generation of dust while transportation.
		conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emission.		
VIII.	Green Belt			
29)	Green Belt	The project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease.	Being Complied	 Greenbelt development is a continual & ongoing process, Plantation has been initiated around the mine lease and covered 2.65 ha area with 6632 no's of saplings up to September' 2024. Green belt in 7.5 m lease periphery/boundary (Area 32.392 ha) will be developed within first five-year subject to availability of



Plantation done in FY 22-23 (132 nos in 0.05 ha)

Plantation done in FY 23-24 (2500 nos sapling in 1.0 ha)



Plantation Photographs of Kolkarhiya Limestone Mine FY 2024-25 (4000 nos sapling in 1.6 ha.)

30)	Green Belt	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community area etc. by Planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per hectare. Adequate budgetary provision shall be made for protection and care of trees.	Being Complied	 Greenbelt development is a continual & ongoing process. Plantation has been initiated around the mine lease and covered 2.65 ha area with 6632 nos saplings up to September' 2024. Green belt in 7.5m lease periphery/boundary (Area 32.392 ha) including the area of 2.516 ha covering 50mt safety barrier of the village road will be done within n first five years of the commencement of the mine. Out of total mined-out area of 340.63 ha; at the conceptual stage 306.78 ha area will be reclaimed and rehabilitated by plantation on backfilled area. Remaining 33.85 ha area of pit B will be reclaimed by sub grade limestone for future use. Bench slope area of 74.95 ha shall also be brought under green belt development. Please refer annexure-12 for photographs of plantation.
31)	Green Belt	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.	Complied	Not Applicable. There is no grazing land in Mining Lease.
IX.	Public Hearing a	nd Human Health Issues		
32)	Public Hearing	Project Proponent shall make	Complied	• All workers engaged belongs to local area and they are living

	and Human Health Issues	provision for the housing for workers/labors or shall contract labor camps within/ outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.		 in their own houses, therefore temporary structure/ hutments are not required. Employees are residing in colony situated at Hatta Tehsil, where all basic Infrastructure facilities are available. There is no temporary structure /hutment has been constructed.
Χ.	Corporate Envir	onment Responsibility (CER)		
33)		The Project Proponent shall submit the time- bond action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environment clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/217-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.	Being Complied	Activities proposed for CER will be implemented in a time bound manner and three years action plan of activities committed during public consultation has been submitted through EC compliance dated 20.05.2023. However please refer annexure-1 and compliance of Sp. condition no 1 for status of budget spent under the CER activities committed.
XI.	Miscellaneous			
34)	Miscellaneous	The Project Proponent Shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned regional officer of the MoEF&CC.	Agreed to comply	Digital processing report of the entire lease area will be submitted with due course of time as Mining operation has been commenced on 21.03.2022.
35)	Miscellaneous	The Project Authorities should inform to the Regional Officer regarding date	Complied	Noted, Final Approval of the Project by MoEFCC is 18.02.2022.

		of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.		Land development work started on 21.03.2022. Financial Closure dates for SMPL project to be informed.
36)	Miscellaneous	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEFCC & its concerned Regional Officer, Central Pollution Control Board and State Pollution Control Board.	Complied	Six monthly compliance report has been submitted to the MoEF&CC & it's concerned Regional Officer, Central Pollution Control Board and State Pollution Control Board. Last half-yearly compliance report was sent on 22.05.2024 for the period from October 2024 to March-24.
37)	Miscellaneous	A separate 'Environmental Management Cell' with suitable qualified manpower should be sat- up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientist and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.	Complied	A separate environmental management cell with qualified personnel is already established.
38)	Miscellaneous	The concerned Regional of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data /information/monitoring reports.	Agree to Comply	Noted, Full cooperation will be extended to the MoEF&CC officer(s) by furnishing the requisite data /information/monitoring reports.
39)	Miscellaneous	In pursuant to Ministry's O.M No 22- 34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter common cause vs Union of India, the mining lease holder shall	Complied	Noted and all applicable laws will be followed.

		after ceasing mining operations, undertake regressing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.		
40)	Miscellaneous	The Ministry or any other competent authority may alter/ modify the above conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Complied	Noted and all applicable laws and direction will be followed.
41)	Miscellaneous	Concealing facture to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Complied	Noted and all applicable laws and direction will be followed.

JSW Cement Limited Hatta MP Project

Better Everyday

CSR progress





SI. No.	Themes	Activities	No. of beneficiaries	Budget Spent
1		Eye Camp at Kolkarhiya	103	52,100
2		General Health Camp at Kolkarahiya	155	24,745
3		Eye Camp at Devri	97	56,400
4		General Health Camp at Devri	144	23,925
5	Health	Eye camp at Gaisabad	170	47,400
6		General Health Camp at Gaisabad	230	35,295
7		Eye Camp at Garreh	104	56,600
8		General Health Camp at Garreh	127	21,845
9		Supply of essential medical equipment at Devri & Gaisabad health Sub Centre	4000	185,956

CER Budget Utilization status : Oct-24



SI. No.	Themes	Activities	No. of beneficiaries	Budget Spent
10		Distribution of Education Kits in Kolkarahiya, Devri, Raikra and Kuluwa, Gaisabad	800	552,871
11		Renovation of Gaisabad Anganwadi & Harijan Tola Primary School	130	767,000
12		Supply of 425 School benches and 5 sets of office furniture in Govt. Schools in Kolkarhiya, Devri, Raikra & Gaisabad Villages	850	2,146,625
13	Education	Setting up Science laboratory-Physics, Chemistry & Bio in 1 Senior Secondary School (Gaisabad) : Furniture work & Lab equipment purchase	496	650,312
14		Inaugural function for handover the laboratories' equipment and furniture set up works at Higher Secondary School, Gaisabad		6,008
15		Digital Smart class installation at Higher Secondary School Gaisabad & Middle School Kolkarhiya	105	395,300
16		Renovation of Middle School Kolkarhiya	197	13,73,856
17		Renovation of Higher Secondary School Gaisabad	610	16,54,585



SI. No.	Themes	Activities	No. of beneficiaries	Budget Spent
18	Livelihood	Grant support in paying the electricity connection and transformer charges for establishing and running Dona/Pattal making machine unit run of Kalumar village of Jabera Janpad Panchayat, district Damoh	30	261,441
19	Women Empowerment	Support provided to Nai Duniya Newspaper towards Nayika Samman Programme	55	118,000
20		Celebration of International Women's day	200	73,170
21	Sports & Culture	Payment to Panna Collector-Towards celebration of Gaurav Diwas on the occasion of Chatrsal Jayanti		200,000
22	Water	Borewell & 3 Hand Pump Installation (Kolkarahiya & Raikra Villages) & 1 Borewell and motorized system setup at Devri Village		407,561
23	Plant purchase, Plantation with tree guard installation	2500 Plantation and tree guard installation in Schools and Mine area		918,500
24	Rural Infrastructure	Installation of 100 Street Solar lights at Village Kolkarhiya, Devri, Raikra and Kuluwa, Sanjay Nagar, Garreh, Gaisabad, Mahua Kheda, Bichua Chkka,Baleh & Adanwara Villages	6000	1,684,467
Total			14,953	11,723,962



Eye Check Up Camp was Organized at Gaisabad (Plant area)

- Total: 160 people availed the services;
- 34 patient were treated for vision correction & given spectacles,
- 42 patient were given medicine
- 47 have been referred for cataract surgery
- 37 people found normal eye







Health Check Up Camp was Organized at Gaisabad (Plant area)

Total: 230 people availed the services;

All patient were given the required medicine which includes the treatment of fever, Sugar, Cough, Stomach pain, Blood Pressure, Calcium, Multi vitamins tablets etc.

The patient were provided the check up of Hemoglobin ,Blood Pressure, Blood Sugar, Pulse Rate, SpO2,Height and Weight







Eye Check Up Camp was Organized at Kolkarhiya (Mines area)

- Total: 106 people availed the services;
- 42 patient were treated for vision correction & given spectacles,
- 62 patient were given medicine
- 27 have been referred for cataract surgery







Eye Check Up Camp was Organized at Garreh (Plant area)

- Total: 104 people availed the services;
- 49 patient were treated for vision correction & given spectacles,
- 91 patient were given medicine
- 42 have been referred for cataract surgery





CER Activities at JSWCL-Hatta



Health Check Up Camp was Organized at Garreh (Mines area)

Total: 127 people availed the services;

All patient were given the required medicine which includes the treatment of fever, Sugar, Cough, Stomach pain, Blood Pressure, Calcium, Multi vitamins tablets etc.

The patient were provided the check up of Hemoglobin ,Blood Pressure, Blood Sugar, Pulse Rate, SpO2,Height and Weight







Eye Check Up Camp was Organized at Devri (Plant area)

- Total: 97 people availed the services;
- 52 patient were treated for vision correction & given spectacles,
- 60 patient were given medicine
- 32 have been referred for cataract surgery







Health Check Up Camp was Organized at Devri (Mines area)

Total : 144 people availed the services;

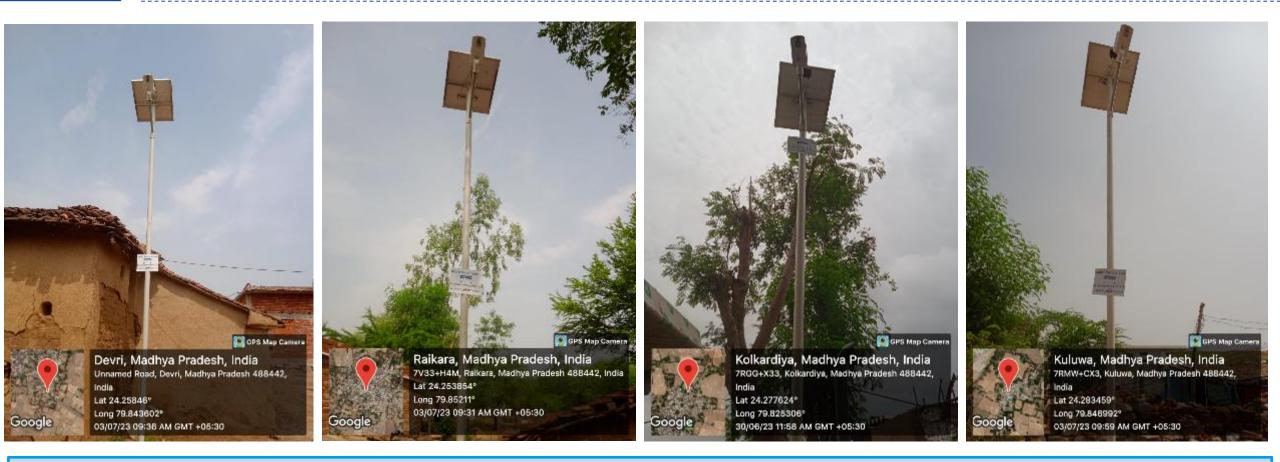
All patient were given the required medicine which includes the treatment of fever, Sugar, Cough, Stomach pain, Blood Pressure, Calcium, Multi vitamins tablets etc.

The patient were provided the check up of Hemoglobin ,Blood Pressure, Blood Sugar, Pulse Rate, SpO2,Height and Weight









100 Solar street lights installed at Gaisabad (28), Kolkarahiya (22), Devri (8), Kulwa (2), Raikra (10), Garreh (9), Sanjay Nagar (4), Mahua Kheda (3), Bichua Chakka (2), Basan (2), Adanwara (6), Baleh (4)

Around 8000 villagers are getting benefitted.



Anganwadi renovation: Pictures before renovation





Anganwadi pictures after renovation



jśw

Primary School renovation: before



Primary School renovation: after







Anganwadi renovation work at Gaisabad Village



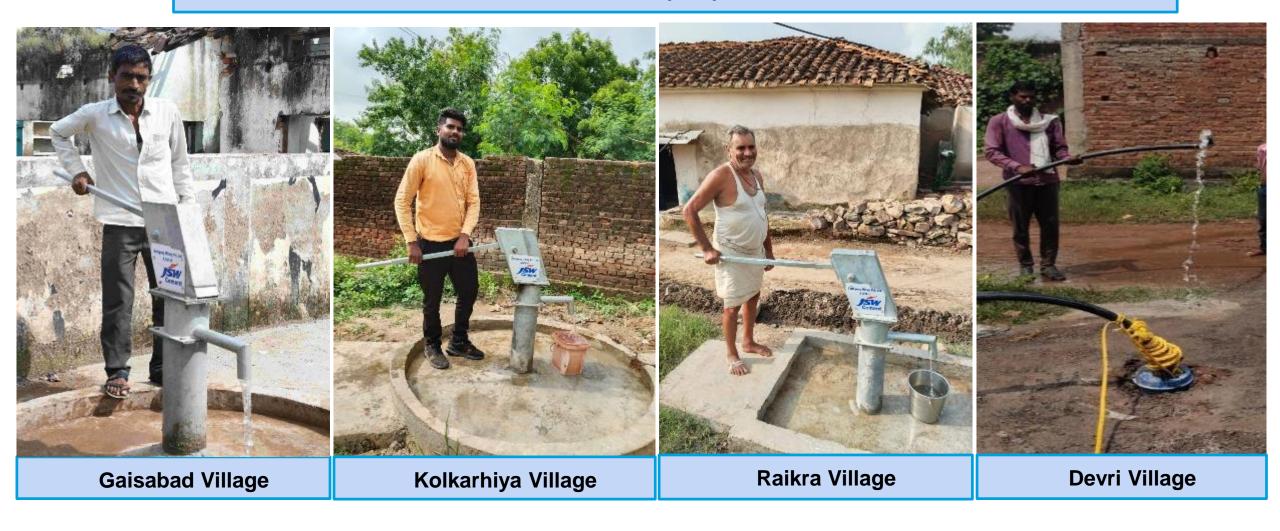




800 Educational Kits were distributed in Primary and Middle Schools at Gaisabad, Kolkarahiya, Devri and Raikra Village (School bag, Note books, Pen, Pencil, Color box, Dental kits, Eraser and Sharpener) Installation of 350 School Benches (Dual Two -Seater) with writing table in 8 Schools of surrounding villages in Mines and Plant area (Kolkarhiya, Devri, Raikra & Gaisabad) : 700 students beneficiaries



Borewell cum Handpump installation Work







Photographs : Preparation of Dona & Pattal in Jabera Dona Pattal Unit

Springway Mining Pvt. Ltd. A Unit of JSW Cement



Preparation of Pattal







Finished Product

Photographs : Appreciation letter from District forest officer, Damoh





Mr. Ashray Upadhyay, Range Officer, Forest Dept. Giving the appreciation letter to Mr. Amit, Manager, CSR

Appreciation certificate

Photographs : Supply of equipment at Gaisabad Sub Health Center





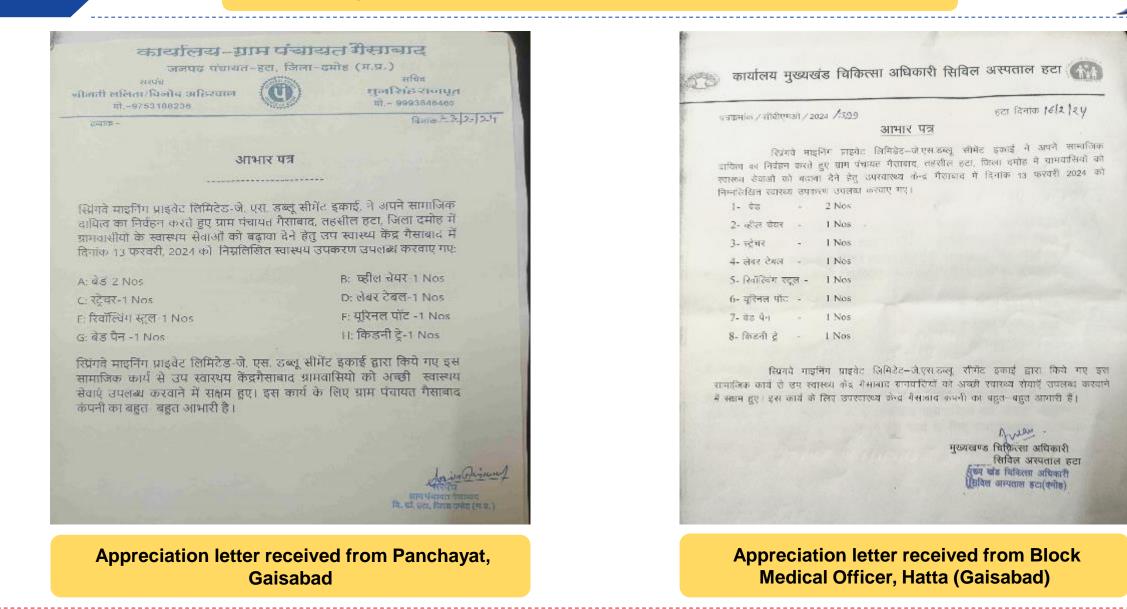
Donating and installation of medical equipment to Gaisabad health Sub-center in presence of Sarpanch, CHO & Villagers



https://www.youtube.com/watch?v=FK1Hv_YVwnk

Media coverage in local electronic media





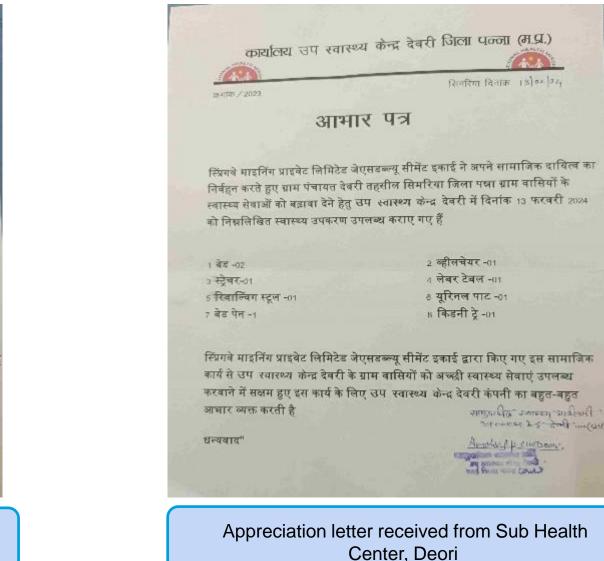
Photographs : Supply of equipment at Devri Sub Health Center





Donating and installation of medical equipment to Devri health Subcenter in presence of Sarpanch, CHO & Villagers





कार्यालय ग्राम पंचायत देवरी जिला पल्ला म.प्र

faria 13/00/24

आमार पत्र

स्प्रिंगवे माइनिंग प्राइवेट लिमिटेड जेएसडब्ल्यू सीमेंट इकाई ने अपने सामाजिक दायित्व का निर्वहन करते हुए ग्राम पंचायत देवरी तहसील सिमरिया जिला पन्ना ग्राम वासियों के स्वास्थ्य सेवाओं को बढावा देने हेतु ग्राम पंचायत देवरी में दिनांक 13 फरवरी 2024 को निम्नलिखित स्वास्थ्य उपकरण उपलब्ध कराए गए हैं

1	बेड -02
3	स्ट्रेचर-01
5	रिवाल्विंग स्टूल -01
7	बेड पेन -1

2 व्हीलचेयर -01 4 लेबर टेबल -01 8 यूरिनल पाट -01 8 किडनी टे -01

स्प्रिंगवे माइनिंग प्राइवेट लिमिटेड जेएसडब्ल्यू सीमेंट इकाई द्वारा किए गए इस सामाजिक कार्य से ग्राम पंचायत देवरी के ग्राम वासियों को अच्छी स्वास्थ्य सेवाएं उपलब्ध करवाने में सक्षम हुए इस कार्य के लिए ग्राम पंचायत देवरी कंपनी का बहुत-बहुत आभार व्यक्त करती है

धन्यवाद"

Appreciation letter received from Panchayat, Deori

Photographs : International Women's day Celebration











Photographs : International Women's day Celebration















Photographs : International Women's day Celebration





Glimpse: Gaisabad Higher Secondary School lab inauguration





Cutting of inaugural ribbon by Mr. Mayank Shrivastav, Project head & Mr. Santosh Tiwari, Principal, School

JSWCL and School staff group photo during inaugural

Glimpse: Gaisabad Higher Secondary School lab inauguration





Address by Mr. Mayank Shrivastav, Project Head, JSWCL, Hatta

Opening remarks by Mr. Amit Kumar, Manager, CSR, JSWCL, Hatta

Glimpse: Gaisabad Higher Secondary School lab inauguration





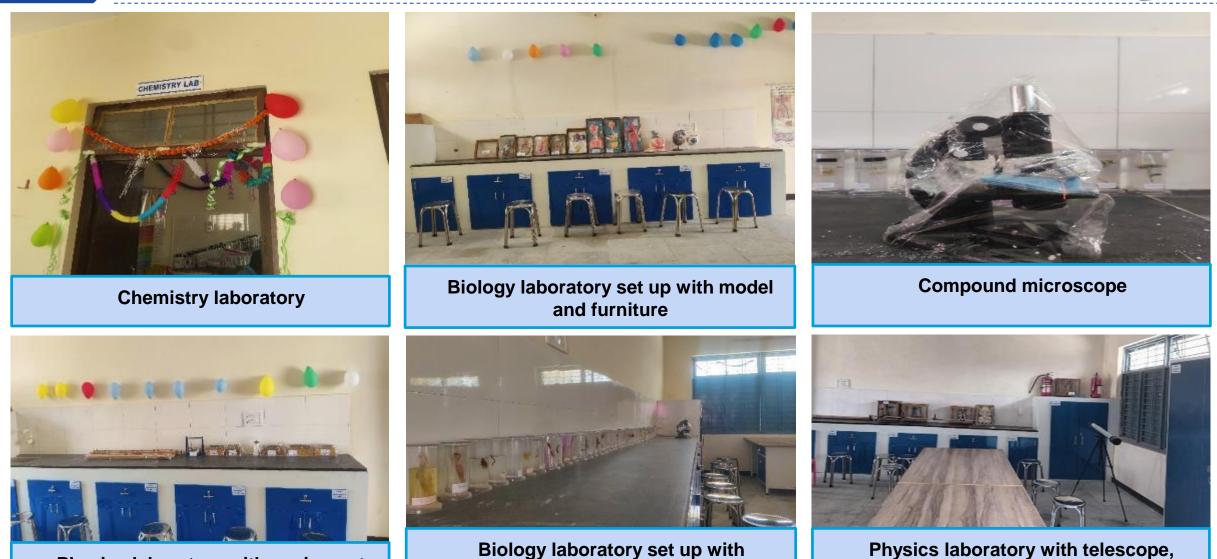
Address by Mr. Santosh Tiwari, Principal, Gaisabad School

Shrivastav, Project head & Amit Kumar, Manager, CSR

CSR, JSWCL, Hatta

Glimpse: Gaisabad Higher Secondary School laboratory





specimen and furniture

Physics laboratory with equipment

Physics laboratory with telescope, equipment and furniture



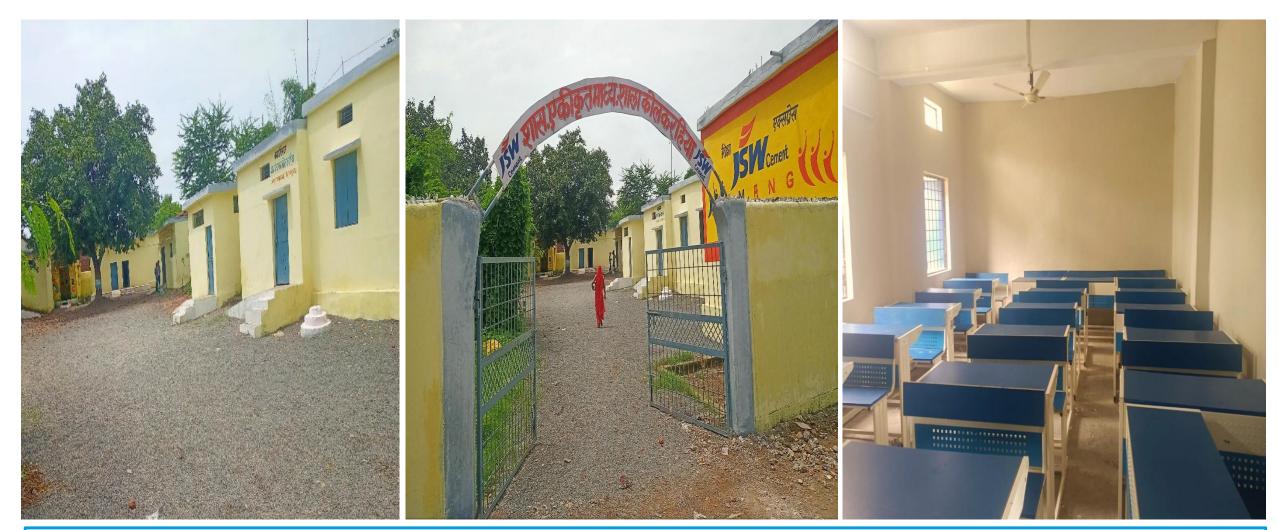


ა 2









Renovation completed of Kolkarhiya Middle School located at Mines area : 197 students got benefited





Glimpse: Kolkarhiya School Digital class installation





Installation of Smart class in Middle Section

Usage of Smart class by the Students





Higher Secondary School Main Gate Section before renovation her Secondary School Main Gate Section after renovation





Primary School Section before renovation & Cycle stand



Primary School Section after renovation & Cycle stand





Renovated Higher Secondary School building sections

Classroom section





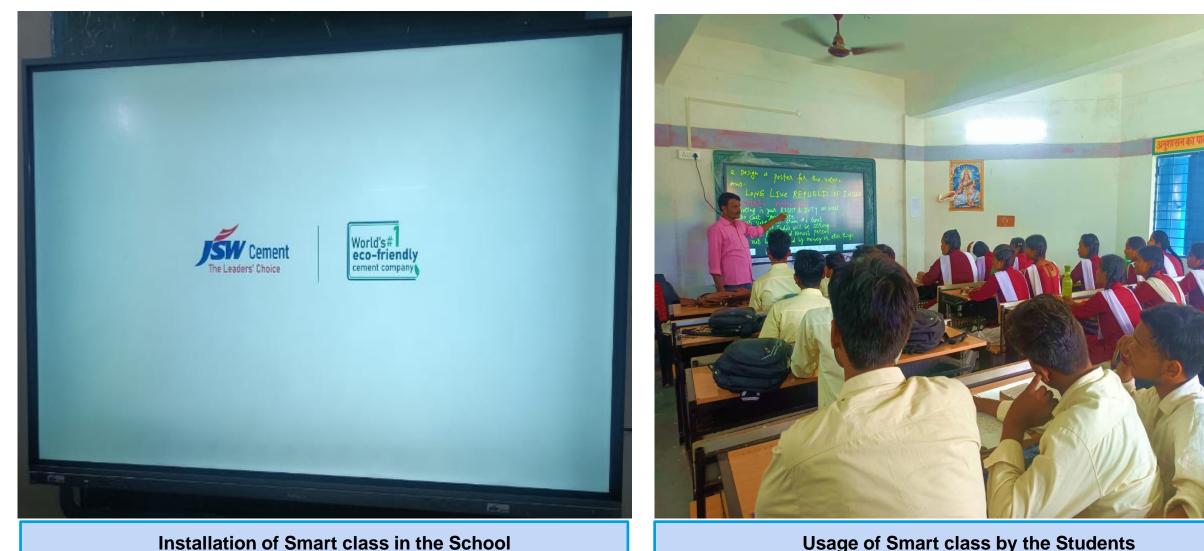
Newly build cycle stand

Branding granite stone

School Corridor

Glimpse: Gaisabad Higher Secondary School Digital class installation





Usage of Smart class by the Students



स्प्रिंगचे माइनिंग प्राइवेट लिमिटेड -जे. एस. डब्लू सीमेंट द्वारा निशुल्क सोलर लाइटों को लगाया गया

हिंदस्तान समाज दमोह विजय यादव दमोह हटा। स्प्रिंगवे माइनिंग प्राइवेट



लिमिटेड -जे. एस. डब्लु सीमेंट की इकाई के द्वारा निशल्क बीस सोलर स्टीट लाइटो की गैसाबाद ग्राम पंचायत में स्थापना स्प्रिंगवे माइनिंग प्राइवेट लिमिटेड -जे. एस. डब्ल सीमेंट की इकाई के द्वारा संभावित प्लांट गैसाबाद ग्राम पंचायत एवं आसपास के ग्रामों में विभिन्न ग्रामीण विकास के कार्यों के तहत ग्राम पंचायत गैसाबाद में पंचायत द्वारा बताये गए स्थानों पर बीस सोलर

लाइट

गैसाबाद

ने बताया की इस

प्रकार के ग्रामीण

विकास के कार्य

कम्पनी द्वारा सतत इन ग्राम पंचायतो में किया जाता रहेगा ।

नेत्र शिविर का हुआ आयोजन

हटा@पत्रिका स्प्रिंगवे माइनिंग प्राइवेट जीएसडब्ल्य लिमिटेड सीमेंट द्वारा निः शुल्क नेव शिविर आयोजन का गैसाबाद ग्राम पंचायत में रख गया। जिसमें निःशुल्क नेत्र जांच । इसमे व परामर्श किया गया ग्रामीण क्षेत्रों के सभी लोगों की आंखो गर्ड टीम के दार आवश्यकता और दवाइय निःशल्क चश्मा वितरण की गई। इस अवसर पर गाम पंचायत के जनपतिनिधि

स्वास्थ्य शिविर में 230 मरीजों आमजन उपयोग हेत् जगहो

को जांच कर दवाडयां दी पर कंपनी द्वारा

वमोठ। गैसाबाद में बस स्टैंड के पास बालक प्राथमिक शाला परिसर में निशल्क सोलर निशल्क स्वास्थ्य जांच एव परामर्श



है। शिविर में संबह 9.30 बज़े से दोपहर 1.30 बजे तक 230 से ज्यादा मरीज पहुंचे। जिनकी होमोग्लोबिन. बीपी, बखार, खासी, जुकाम की जांचें और दवाइयां निशुल्क प्रदान की गई। इस शिविर में मिशन होस्पिटल दमोह के डॉक्टरों हारा इलाज किया गया। जिसमें मरीजों की बीपी शुगर और हीमोग्लोबिन की जांच की गई । 230 लोगों ने इस शिविर का लाभ उठाया । महिलाओं ने सबसे ज्यादा इस शिविर में भाग लेकर अपना स्वास्थ्य परीक्षण करवाया।

Media Coverage

शिविर का आयोजन सिप्रंगवे

महनिंग प्राइवेट लिमिटेड की ओर

जेएसडब्ल सीमेंट की एक इंकड

किया गया। यह



अनुसार उनके हटा - स्प्रिंगवे माइनिंग प्राइवेट लिमिटेड JSW सीमेंट कम्पनी गैसाबाद



गैसाबाद में सरकारी स्कूल के बच्चों को पठन सामग्री प्रदान की

हटा गैसाबाद क्षेत्र में आगामी दिनों में स्थापित होने वाली सीमेंट कंपनी व द्वारा अपने प्रारंभिक काल से ही समाज कल्याण कर दिया है। कंपनी द्वारा

ग्राम के सरकारी स्वल में दर्ज विद्यार्थियों को स्कृत से जोड़े रखने अध्यापन सामग्री प्रदान की गई। जिसके अंतर्गत प्राथमिक बालक शाला गैसाबाद, आदिवासी टोला गैसाबाद, कन्य शाला गैसाबाद में दर्ज

विद्यार्थियों के लिए गुरुवार को स्कूल में आमंत्रित कर उन्हें बैंग, कापियां, पेन, पैंसिल, रबर, कटर, ब्रश, कलर्स एवं एक ठेंटल किट प्रदान की गई। यह सामग्री पाकर उत्साहित दिखे बच्चों को स्वत्ल खुलने पर प्रतिदिन स्वत्ल आने एवं मन लगावर पहाई करने पर अन्य पुरस्कार दिए जाने की बात कही गई। इस अवसर पर स्प्रिंगवे माथनिंग प्राइवेट लिमिटेड कंपनी के अधिकारियों एवं स्कूल स्टाफ की उपस्थिति रही।





170 मरीजों का हुआ स्वास्थ्य परीक्षण



पत्रिका न्यूज नेटवर्क patrika.com

 निःशुल्क स्वास्थ जांच एवं रामर्श शिविर का आयोजन किया। निवार कोमाध्यमिक स्कल, ग्राम प्रायत गरेंह में सबाह 10 बजे से

वोपहर 1 बजे तक शिविर आयोजन किया गया। होमोग्लोबिन . शुगर, बीपी बुखार, खांसी, जुखाम की जांचे की गई। साथ ही वयाओं का वितरणकियागया। इसमें 170 मरीजों

ने भाग लिया।



THANK YOU



List of operational Villages of JSWCL Proposed Plant and Mines area												
SN	Name of the village	Block	District	HHs	Male Population	Female Population	Total Population	No. of SHGs	SHG membership			
1	Adanwara	Hatta	Damoh	158	377	326	703	12	122			
2	Garreh	Hatta	Damoh	231	492	458	950	9	99			
3	Gaisabad	Hatta	Damoh	855	1796	1690	3486	21	231			
4	Basan	Hatta	Damoh	54	101	95	196	3	31			
5	Bichhuwa	Hatta	Damoh	66	129	114	243	1	10			
6	Mahuwa Kheda	Hatta	Damoh	36	61	66	127	1	12			
7	ltwa Chakka	Hatta	Damoh	80	214	185	399	1	11			
8	Baleh	Hatta	Damoh	207	461	411	872	10	151			
9	Husena	Hatta	Damoh	56	203	91	112	3	31			
9	Kuluwa	Pawai	Panna	103	230	220	450	3	30			
10	Kolkarhiya	Pawai	Panna	320	701	623	1324	12	135			
11	Deori	Pawai	Panna	285	618	518	1136	11	141			
12	Raikara	Pawai	Panna	293	664	595	1259	9	99			
Total				2744	6047	5392	11257	96	1103			
Not	Note: Population data as per census -2011											

Annexure-2



Photographs of the protected Garland drain by wire fencing along the pit area



Siltation Pit -1 (L&W 5.3 and Depth 4.3 meter)

Siltation Pit -2 (L&W 5.5 and Depth 2.8 meter)



Photographs of bund along with proposed excavation area

Annexure-3

Photographs of Plantation on Top Soil



Google

Lat 24.268599° Long 79.81854° 08/07/24 05:48 PM GMT +05:30







Details of Medical Examination (Under Rule 29B of MMR 1961)

Kolkarhiya Limestone Mines

M/s Springway Mining Pvt Ltd

S.No.	Emp. Name	Organization Name	Type of Appointment	Designation	Date of Medical Examination
1	Mr. Durgesh Pal	M/s Ramesh Chandra Grover	Contractual	Tipper Operator	4/9/2024
2	Mr. Suresh Dubey	M/s Ramesh Chandra Grover	Contractual	Water Tanker Operator	4/9/2024
3	Mr. Devendra Pal	M/s Ramesh Chandra Grover	Contractual	Tipper Operator	4/9/2024
4	Mr. Ramesh Chodhary	M/s Ramesh Chandra Grover	Contractual	Tipper Operator	4/9/2024
5	Mr. Ayubb Khan	M/s Ramesh Chandra Grover	Contractual	Dozer Operator	4/18/2024
6	Mr. Ramnaresh Jat	M/s Ramesh Chandra Grover	Contractual	Tipper Operator	5/13/2024
7	Mr. Syamjee yadav	M/s Ramesh Chandra Grover	Contractual	Tipper Operator	5/13/2024
8	Mr. Satendra Yadav	M/s Ramesh Chandra Grover	Contractual	Tipper Operator	5/13/2024
9	Mr. Satendra Vaish	M/s Ramesh Chandra Grover	Contractual	Tipper Operator	5/27/2024
10	Mr. Pranhendra	M/s Ramesh Chandra Grover	Contractual	Tipper Operator	5/27/2024

<u>FORM-O</u> (See Rule 29F (2), and 29L) REPORT OF MEDICAL EXAMINATION UNDER RULE 29B (To be issued in triplicate)**

Certificate No. Certified that Shri / Shrimathi* Duer.gosh employed as	and sto laluas
employed as	pear in the second s
has been examined for an initial/periodical* r are given in the attached sheet. It is considered	nedical examination. He/She * appears to be rs of age. The findings of the examining authority
(a) * is medically fit for any employment in m	lines.
(b) * is suffering from	
and is medically unfit for	
(i) any employment in mine ; or	
(ii) any employment below ground; or	P
(iii) any employment or work	
(c) * is suffering from	<u></u>
and should get this disability* cured / controlled amonths .* He/She will a	
of	
He/Sh	e* may be permitted /not* permitted to carry on
his duties during this period.	
	N

Signature of the Examining authority

डॉNबलेटिकार्थ छहेंडावुमबीाजा के टी एय.बी.बिधावस Letterइनं. 8338 मेडिकल ऑफीसर सिविल अस्पताल हटा, जिला- दमोह (म.प्र.)

Place:

Date:

٨

Ch Malla 09/04/24

** 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.

REP	FORM O (Contd.) ORT OF THE EXAMINING AUTHORITY
	e filled in for every medical examination whether initial or periodical or re-examination or after / control of disability).
	xure to certificate No
Left th	nump impression of the candidate,
1.	General development Good / Fair / Poor.
2.	Height
4. (i)	Eyes: Visual acuity-Distant Vision (with or without glasses) Right eye
(ii) (iii) (iv) (v)	Any organic disease of eyes: Night blindness : Colour blindness : Squint :(to sted in special cases)
5. (i)	Ears: hearing Right ear Left ear
(ii)	any organic disease :
6. (i) (ii)	Respiratory System : Chest measurement : after full inspiration
7.	Circulatory System : 129/81 Blood Pressure : 129/81 Pulse : GZ
8.	Abdomen : Tenderness : Liver : Spleen : Tumour :

9.	Nervous System History of fits or	•
	Epilepsy	: /
	Paralysis	: 190m
	Mental Health	;
10.	Locomotor System	:
11.	Skin	
12.	Herina	
13.	Hydrocele	
14.	Any other abnormality	<i>r</i> :
15.	Urine	: @
	Reaction	: (D)
	Albumin	Ascent
	Sugar	Assents
16.	Skiagram of chest	: (N)
17	Any other test conside	ared necessary by the

 Any other test considered necessary by the examining authority :

18. Any opinion of specialists considered necessary.

Place : Date :

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Ch nutta 09/04/24.

Report of Medical Examination under Mines Rule 29B

M

(To be used in continuation with Form 0)

Certificate No.

e #

1 1

Name:

Identification Marks:

Result of of Lung Function Test (Spirometry)

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

Spirometry Report enclosed

Signature of Examination Authority

Report off Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form 0)

Certificate No. Name:

1.0

3 B

Identification Marks:

1. Cardiological Assessment

Auscultation	S1	tul
	S2	Dul
	Additional Sound	<i>P.</i>
Electrocardiograp	h (12 leads)	Normal/ Abnormal

Enclosed ECG

2. Neurological Assessment

	- I	
- Z .	Λί.	
- ()	17	- /
		/
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Findings	Normal/Abnormal
Superficial Reflexes	
Deep Reflexes	
Peripheral Circulation	
Vibrational Syndromes	

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
Present/Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

1

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

Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

1 1

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

Enclosed Investigation Reports.

6. Special Tests for Mn exposure

Behavioral Disturbances		Present/NotPresent
	Speech Defect	Present/NotPresent
Neurological Disturbances	Tremor	Present/NotPresent
	Adiadocokinesia	Present/NotPresent
	Emotional Changes	Present/NotPresent

7. Any other Special Test Required:

Signature of Examination Authority Signature of Examination Authority एम.बी.बी.एस. रजि.नं. ठो.री प्रेडिकन ऑफीसर सिविन अस्पताल हटा, जिला- ढमोह (म.प्र.)

<u>FORM-O</u> (See Rule 29F (2), and 29L) REPORT OF MEDICAL EXAMINATION UNDER RULE 29B (To be issued in triplicate)**

Certificate No. Certified that Shri / Shrimathi*
employed as
In mine, Form B No
are given in the attached sheet. It is considered that Shri / Shrimathi*
Suresh Duba
(a) * is medically fit for any employment in mines.
(b) * is suffering from
and is medically unfit for
(i) any employment in mine ; or
(ii) any employment below ground; or
(iii) any employment or work
(c) * is suffering from
and should get this disability* cured / controlled and should be again examined within a period of
of* and the opinion of
specialist from
He/She* may be permitted /not* permitted to carry on
his duties during this period.

Signature of the Examining authority

डॉ. (चेट्रिल) साम जी . को री Name and Designation जि . को री मेडिकल आफीसर सिविल अस्पताल हटा, जिला- ढमोह (म.प्र.)

Place: Date:

el1 Hadda 09/04/24.

** 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.

REP	FORM O (C PORT OF THE EXAMINING AUTHORITY	Contd.)
	be filled in for every medical examination whether in e / control of disability).	nitial or periodical or re-examination or after
Anne	nexure to certificate No.	as a result of medical examination on
Ident	ntification Mark	
Left t	thump impression of the candidate,	
1.	General development	Good / Fair / Poor.
2.	Height Cms.	3. WeightKgs.
4. (i)	Eyes: Visual acuity-Distant Vision (with or without glas Right eye Left Eye	sses)
(ii) (iii) (iv) (v)	Any organic disease of eyes: Night blindness Colour blindness Squint :(to stee	l in special cases)
5. (i)	Left ear	
(ii) 0	any organic disease :	
6. (i) (ii)	Respiratory System : Chest measurement : after full inspiration	Cms. Cms.
7.	Circulatory System Blood Pressure Pulse 128/86 79	
8.	Abdomen Tenderness Liver Spleen Tumour	

:2:

Nervous System History of fits or Į,

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11.

Epilepsy

Paralysis

Mental Health

- 10. Locomotor System
- 12. Herina

Skin

- 13. Hydrocele
- 14. Any other abnormality:
- 15. Urine Reaction Albumin

Sugar

- 16. Skiagram of chest
- 17. Any other test considered necessary by the examining authority :
- 18. Any opinion of specialists considered necessary.

Place: Date:

cli Habba. 09/04/24

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CSCO. Assell

Report of Medical Examination under Mines Rule 29B

NA

(To be used in continuation with Form 0)

Certificate No.

υ

Name:

Identification Marks:

Result of of Lung Function Test (Spirometry)

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

Spirometry Report enclosed

Signature of Examination Authority

Report off Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form 0)

Certificate No. Name:

Identification Marks:

1. Cardiological Assessment

Auscultation	S1	the
	S2	An
	Additional Sound	×
Electrocardiograp	h (12 leads)	Normal/ Abnormal

Enclosed ECG

2. Neurological Assessment

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

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
Present/Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

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

Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

S.No	Tests	Findings
1.	Blood- Tc, Dc, Hb, ESR, Platelets	T XVNL/Abnormal
2.	Blood Sugar- Fasting & PP	WNL/Abnormal
3.	Lipid profile	WNL/Abnormal
4.	Blood Urea, Creatinine	WNL/Abnormal
5.	Urine Routine	WNL/Abnormal
6.	Stool Routine	WNL/Abnormal

Enclosed Investigation Reports.

6. Special Tests for Mn exposure

Behavioral Disturbances		Present/NotPresent
	Speech Defect	Present/NotPresent
Neurological	Tremor	Present/NotPresent
Disturbances	Adiadocokinesia	Present/NotPresent
	Emotional Changes	Present/NotPresent

7. Any other Special Test Required:

Signature of Examination Authority डॉ.(केप्टिन) आर्र. घी. कोरी एम.बी.बी.एस. रजि.नं. 8338 मेडिकन ऑफीसर सिविन अस्पताल हटा, जिला- ढमोह (म.प्र.)

<u>FORM-O</u> (See Rule 29F (2), and 29L) REPORT OF MEDICAL EXAMINATION UNDER RULE 29B (To be issued in triplicate)**

Cert Cert	tificate No. tified that Shri / Shrimathi*
emp	loyed as
In	mine, Form B No.
has are	been examined for an initial/periodical* medical examination. He/She * appears to be
	Dellocard yra fall
15	* is modically fit for any ampleument in mines
(h)	 * is medically fit for any employment in mines. * is suffering from
(0)	is suitering nom
and	is medically unfit for
(i)	any employment in mine ; or
(ii)	
(iii)	any employment below ground; or any employment or work
()	
(c)	* is suffering from
	should get this disability* cured / controlled and should be again examined within a period of months .* He/She will appear for re-examination with the result of test * and the opinion of
	specialist from
	luties during this period.
	1
	N /

Signature of the Examining authority

डॉ.(केव्लि) अपूर. पी. को री Name क्रिक्रेडिइड्राम्बाक्स. छ. ८३३८ मेडिक्झेव्हॉफ्स्सिस्ट्रिलिल अस्पताल हटा, जिला- दमोह (म.प्र.)

Place: Date:

Ch halla 09/04/24.

** 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.

	FORM O (Contd.)
REP	ORT OF THE EXAMINING AUTHORITY
(to b cure	e filled in for every medical examination whether initial or periodical or re-examination or after / control of disability).
	exure to certificate Noas a result of medical examination on
Iden	tification Mark
Left t	hump impression of the candidate,
1.	General development Good / Fair / Poor.
2.	Height Cms. 3. WeightKgs.
4. (i)	Eyes: Visual acuity-Distant Vision (with or without glasses) Right eye
(ii) (iii) (iv) (v)	Any organic disease of eyes: Night blindness Colour blindness Squint :(to sted in special cases)
5. (i) (ii)	Ears: hearing Right ear Left ear any organic disease :
6.	Respiratory System :
(i) (ii)	after full expiration
7.	Circulatory System : 128/79 Blood Pressure : 128/79 Pulse : 74
8.	Abdomen : Tenderness : Liver : Spleen : Tumour :

:2:

9.	Nervous System History of fits or	•	Λ
	Epilepsy	;	NRO
	Paralysis	:	
	Mental Health	:	
10.	Locomotor System	•	
11.	Skin	:	
12.	Herina	:	
13.	Hydrocele	••	
14.	Any other abnormality:		
15.	Urine		(T)
	Reaction	:	(D)
	Albumin	1	and h
	Sugar	:	Assent -
16.	Skiagram of chest		ASSONT

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

18. Any opinion of specialists considered necessary.

Place : Date :

C(1 Malta. 03/04/24

Report of Medical Examination under Mines Rule 29B

NA

(To be used in continuation with Form 0)

Certificate No.

Name:

Identification Marks:

Result of of Lung Function Test (Spirometry)

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

Spirometry Report enclosed

Signature of Examination Authority

Report off Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form 0)

Certificate No. Name:

Identification Marks:

1. Cardiological Assessment

Auscultation	S1	trl
	S2	~p~
	Additional Sound	ap .
Electrocardiograph (12 leads)		Normal/ Abnormal

Enclosed ECG

2. Neurological Assessment

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V	1
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Findings	Normal/Abnormal
Superficial Reflexes	
Deep Reflexes	
Peripheral Circulation	
Vibrational Syndromes	

3. ILO Classification of Chest Radiograph;

Profusion of Pneumoconiotic opacities	Grades	Types
Present/Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

\sim

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

Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

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

Enclosed Investigation Reports.

6. Special Tests for Mn exposure

A

Behavioral Disturbar	nces	Present/NotPresent
	Speech Defect	Present/NotPresent
Neurological	Tremor	Present/NotPresent
Disturbances	Adiadocokinesia	Present/NotPresent
	Emotional Changes	Present/NotPresent

7. Any other Special Test Required:

Signature of Examination Authority डॉ.(केप्टिन) आर्रे. पी. कोरी एम.बी.बी.एस. रजि.नं. 8338 मेडिकल ऑफीसर सिविल अस्पताल हटा, जिला- ढमोह (म.प्र.)

FORM-O (See Rule 29F (2), and 29L) **REPORT OF MEDICAL EXAMINATION UNDER RULE 29B** (To be issued in triplicate)**

Certificate No. Certified that Shri / Shrimathi* <u>Aumosh</u> <u>Chodudhary</u> <u>Sla. Govind</u> employed as <u>Shrimathi</u> <u>Aumosh</u> <u>Chodudhary</u> <u>Sla. Govind</u> In <u>has been examined for an initial/periodical</u> medical examination. He/She * appears to years of age. The findings of the examining author are given in the attached sheet. It is considered that Shri / Shrimathi* (a) * is medically fit for any employment in mines. (b) * is suffering from	be rity
and is medically unfit for (i) any employment in mine ; or (ii) any employment below ground; or (iii) any employment or work	
(c) * is suffering from	
and 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	
He/She* may be permitted /not* permitted to carry on his duties during this period.	

Signature of the Examining authority

उँ (केंद्रिज) Designation के री एम.बा. डीविटर्स-Lettersल. 8338 मेडिकल ऑफीसर सिविल अस्पताल हटा, जिला- द्रप्रोह (म.ज्र.)



Place:

ch teath

Date:

** 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.

FORM O (Contd.)

REPORT OF THE EXAMINING AUTHORITY

. ...

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

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

Left t	hump impression of the ca	ndidate,	1	
1.	General development		Good / Fair / Poor.	
2.	HeightC	ms.	3. Weight	Kgs.
4. (i)	Eyes: Visual acuity-Distant Vis Right eye	ion (with or without	glasses)	
(ii) (iii) (iv) (v)	Any organic disease of e Night blindness Colour blindness Squint	\cup	sted in special cases)	
5. (i) (ii)	Ears: hearing Right ear Left ear any organic disease :			
6. (i) (ii)	Respiratory System : Chest measurement : after full inspiration after full expiration		Cms. Cms.	
7.	Circulatory System Blood Pressure Pulse	76 lune		
8.	Abdomen Tenderness Liver Spleen Tumour	, ,		

9.	Nervous System History of fits or	÷
	Epilepsy	:
	Paralysis	: 19m
	Mental Health	:
10.	Locomotor System	:
11.	Skin	:
12.	Herina .	:
13.	Hydrocele	:
14.	Any other abnormality:	0
15.	Urine	: (0)
	Reaction	: (0)
	Albumin	: Assent
	Sugar	: Assent
16.	Skiagram of chest	: (p)

JU.

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

18. Any opinion of specialists considered necessary.

Place: Date:

ch realts, ogloulry

Report of Medical Examination under Mines Rule 29B

A9-D-

(To be used in continuation with Form 0)

Certificate No.

Name:

Identification Marks:

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Result of of Lung Function Test (Spirometry)

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

Spirometry Report enclosed

Signature of Examination Authority

Report off Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form 0)

R

Certificate No. Name:

Identification Marks:

1. Cardiological Assessment

Auscultation	S1	ful
	S2	ent-
	Additional Sound	
Electrocardiograp	h (12 leads)	Normal/ Abnormal

Enclosed ECG

2. Neurological Assessment

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

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types	
Present/Absent			

Enclosed Chest Radiograph

4. Audiometry Findings:

N

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

Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

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

Enclosed Investigation Reports.

R

6. Special Tests for Mn exposure

Behavioral Disturbances		Present/NotPresent
Neurological	Speech Defect	Present/NotPresent
	Tremor	Present/NotPresent
Disturbances	Adiadocokinesia	Present/NotPresent
	Emotional Changes	Present/NotPresent

7. Any other Special Test Required:

डॉ. (केप्टिन) आर. पी. कोरी Signature की Examination Adhonty मेडिकन ऑफीसर सिविल अस्पताल हटा, जिला- दमोह (म.प्र.)

<u>FORM-0</u> (See Rule 29F (2), and 29L) REPORT OF MEDICAL EXAMINATION UNDER RULE 29B (To be issued in triplicate)**

Certificate No. Certified that Shri / Shrimathi* Aayus Khan Cho maswd I chan
In <u>Countral</u> <u>Factor</u> mine, Form B No. has been examined for an initial/periodical* medical examination. He/She * appears to b
are given in the attached sheet. It is considered that Shri / Shrimathi*
(a) * is medically fit for any employment in mines. (b) * is suffering from
and is medically unfit for
(i) any employment in mine ; or 📎
(ii) any employment below ground; or
(iii) any employment or work
(c) * is suffering from
and should get this disability* cured / controlled and should be again examined within a period of
months .* He/She will appear for re-examination with the result of test
of* and the opinion of specialist from
He/She* may be permitted /nov* permitted to carry on
his duties during this period.
Signature of the Examining authority
Wane and Designation in री एम. वी. वहांद्रहर्म 6338 मेडिकल ऑफी सर जिदिल अस्पताल
हटा, जिला- वभीड (म.प्र.)

Place: Ch chabts Date: 18/04/24

L

** 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.

FORM O (Contd.)

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

Left thump impression of the candidate,

1.	General development	Good / Fair / Poor.
2.	Height Cms.	3. WeightKgs.
4. (i)	Eyes: Visual acuity-Distant Vision (with or with Right eyeLeft E	out glasses) Eye
(ii) (iii) (iv) (v)	Any organic disease of eyes: Night blindness : Colour blindness : Squint :(to	sted in special cases)
5. (i) (ii)	Ears: hearing Right ear Left ear any organic disease :	
6. (i) (ii)	Respiratory System : Chest measurement : 30 after full inspiration	Cms.
7.	Circulatory System : Now 124 Blood Pressure : Pulse : 76hood	
8.	Abdomen Tendemess Liver Spleen Tumour	

9. **Nervous System** History of fits or

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Ascent

Abser

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Epilepsy

Paralysis

Mental Health

Non durcely

- 10. Locomotor System
- 12. Herina

Skin

- 13. Hydrocele
- 14. Any other abnormality:
- 15. Urine

11.

- Reaction
- Albumin Sugar
- 16. Skiagram of chest
- 17. Any other test considered necessary by the examining authority 1
- 18. Any opinion of specialists considered necessary.

Place : chuattz Date : 18loulny



Report of Medical Examination under Mines Rule 29B

(To be used in continuation with Form 0)

Certificate No.

Name:

Identification Marks:

Result of of Lung Function Test (Spirometry)

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

Spirometry Report enclosed

Signature of Examination Authority

Report off Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form 0)

Certificate No. Name:

Identification Marks:

1. Cardiological Assessment

Auscultation	S1	(DD)
	S2	(Ω)
	Additional Sound	/
Electrocardiograph (12 leads)		UNormal/ Abnormal

Enclosed ECG

2. Neurological Assessment

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

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
Present/Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

-

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

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Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

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

Enclosed Investigation Reports.

6. Special Tests for Mn exposure



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

7. Any other Special Test Required:

Signature of Examination Authority डा.(केटिन) ऑपर. पॉ. टी. टी. एव. दी.ची.एटा. रजि.सं. 8938 प्रेडिलल ऑफी.भर सिदिल अस्पताल हटा, जिला- दमोडु (म.प्र.)

<u>FORM-O</u> (See Rule 29F (2), and 29L) REPORT OF MEDICAL EXAMINATION UNDER RULE 29B (To be issued in triplicate)**

Certificate No. Certified that Shri / Shrimathi* <u>heuh. Wew.csh</u> . Joydf. Slow Jacowhur employed as <u>Mol. poly</u> mine, Form B No. has been examined for an initial/periodical* medical examination. He/She * appears to be
In
(a) * is medically fit for any employment in mines. (b) * is suffering from
(b) * is suffering from
<i>▶</i>
and is medically unfit for (i) any employment in mine ; or
(ii) any employment below ground; or
(iii) any employment or work
(c) * is suffering from
and 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
of* and the opinion of specialist from
He/She* may be permitted /not* permitted to carry on
his duties during this period.
Signature of the Examining authority
डॉ.(केट्रिट) आर. पी. कोरी
एम.बी.बी.Name and Designation in मेडिकल ऑफीसर Block Letters गल
हटा, जिला- दमोह (म.प्र.)

Place: Date:

l

CH Haller 13/05/24.

** 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.

REP	REPORT OF THE EXAMINING AUTHORITY		
	e filled in for every medical examination whether initi / control of disability).	ial or periodical or re-examination or after	
	exure to certificate No	as a result of medical examination on	
	tification Mark		
••••••			
Left t	thump impression of the candidate,		
1.	General development	Good / Fair / Poor	
2.	Height Cms.		
4. (i)	Eyes: Visual acuity-Distant Vision (with or without glasse	es) 1	
	Eyes: Visual acuity-Distant Vision (with or without glasse Right eye Left Eye	616	
(ii)	Any organic disease of eyes:		
(iii) (iv)	Night blindness :		
(v)		n special cases)	
5.	Ears:		
(i)	hearing Right ear		
(ii)	any organic disease :		
6.	Respiratory System : Chest measurement :		
(i)	after full inspiration		
(II)	after full expiration	Cms.	
7,	Circulatory System : Blood Pressure : 126/80-Wg Pulse :		
	Pulse : 1//		
0	Abdemen		
8.	Abdomen : Tenderness : 019-		
	Liver : Spleen :		
	Tumour : 1		

FORM O

(Contd.)

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9. Nervous System History of fits or ;

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Epilepsy

Paralysis

Mental Health

- 10. Locomotor System
- 11. Skin
- 12. Herina
- 13. Hydrocele
- 14. Any other abnormality:
- 15. Urine

Reaction Albumin

Sugar

- 16. Skiagram of chest
- W

Absent

WAD.

- 17. Any other test considered necessary by the examining authority :
- 18. Any opinion of specialists considered necessary.

Place : Date :

Ch-natta. 13/03/-CU

Report of Medical Examination under Mines Rule 29B

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(To be used in continuation with Form 0)

Certificate No.

Name:

Identification Marks:

Result of of Lung Function Test (Spirometry)

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

Spirometry Report enclosed

Signature of Examination Authority

Report off Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form 0)

Certificate No. Name:

Identification Marks:

1. Cardiological Assessment

Auscultation	S1	1 1 uh
Ausounation	S2	T PU
	Additional Sound	day
Electrocardiograph (12 leads)		Normal/ Abnormal

Enclosed ECG

2. Neurological Assessment

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

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
Present/Absent		

Enoloood Choot Radiograph

4. Audiometry Findings:

Normal neering.

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

Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

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

Enclosed Investigation Reports.

6. Special Tests for Mn exposure

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

7. Any other Special Test Required:

Signature of Examination Authority

डॉ.(केट्रि) आर. पी. कोरी एम.बी.बी.एस. रजि.नं. 8338 मेडिकल ऑफीसर सिधिल अस्पताल हटा, जिला- दमोड (म.प्र.)

<u>FORM-O</u> (See Rule 29F (2), and 29L) REPORT OF MEDICAL EXAMINATION UNDER RULE 29B (To be issued in triplicate)**

Certificate No. Certified that Shri / Shrimathi*	under sto Runnilan			
employed as Dani Mar	Contraction of the second			
Certificate No. Certified that Shri / Shrimathi* Shiycian Jc. Youday Slo. Runni employed as				
has been examined for an initial/periodical* medical are given in the attached sheet. It is considered that She	e. The indings of the examining autionty			
(a) * is medically fit for any employment in mines.				
(b) * is suffering from				
and is medically unfit for				
(i) any employment in mine ; or 📈				
(ii) any employment below ground; or				
(iii) any employment or work				
(c) * is suffering from				
and should got this dischility toursed / sectorility and should				
and should get this disability* cured / controlled and should get this disability* cured / controlled and shou				
of*	and the oninion of			
	specialist from			
	he permitted (not* permitted to carry on			
his duties during this period.	be permitted for permitted to early of			
	Signature of the Examining authority			
	डॉ.(केल्डि) आर. पी. को री			
	SI (Concol) SILC. CI. COLCI			

एम.बी.Name and Designation in मेडिकल ऑफी.Block Lettersस्पताल हटा, जिला- दभोह (म.प्र.)

Place: Date:

CN. pabla. 13/05/24

** 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.

DED	FORM O (Contd.) REPORT OF THE EXAMINING AUTHORITY				
	e filled in for every medical examination whether initial or periodical or re-examination or after / control of disability).				
Anne	exure to certificate No as a result of medical examination on				
Ident	tification Mark				
Left t	hump impression of the candidate,				
1.	General development Good / Fair / Poor.				
2.	Height <u>f. 7.7.</u> Cms. 3. Weight				
4. (i)	Eyes: Visual acuity-Distant Vision (with or without glasses)				
(1)	Right eye				
(ii)	Any organic disease of eyes:				
(iií) (iv)	Night blindness : Colour blindness :				
(v)	Squint :(to sted in special cases)				
5. (i)	Ears: hearing Right ear				
(ii)	Left ear any organic disease :				
6.	Respiratory System : OF Chest measurement : OF Chest measurement :				
(i) (ii)	after full inspiration				
7.	Circulatory System				
	Blood Pressure				
	Blood Pressure Pulse (36/86 Abdomen : 78 Tenderness :				
8.	Abdomen : 770 Tenderness :				
	Liver Spleen				
	Tumour :				

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9. Nervous System History of fits or

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Epilepsy

Paralysis

Mental Health

- 10. Locomotor System
- 11. Skin

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- 12. Herina
- 13. Hydrocele
- 14. Any other abnormality:
- 15. Urine

Reaction

Albumin

Sugar

- 16. Skiagram of chest
- 17. Any other test considered necessary by the examining authority :
- 18. Any opinion of specialists considered necessary.

Place : Date :

CM-dabba 13/05/24

Report of Medical Examination under Mines Rule 29B



(To be used in continuation with Form 0)

Certificate No.

Name:

Identification Marks:

Result of of Lung Function Test (Spirometry)

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

Spirometry Report enclosed

Signature of Examination Authority

Report off Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form 0)

Certificate No. Name:

l,

Identification Marks:

1. Cardiological Assessment

Auscultation	S1	fat
	S2	t der
	Additional Sound	0.00
Electrocardiograph (12 leads)		Normal/ Abnormal

Enclosed ECG

2. Neurological Assessment

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

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
Present/Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

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

Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

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

Enclosed Investigation Reports.

6. Special Tests for Mn exposure

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

7. Any other Special Test Required:

Signature of Examination Authority डॉ. (केप्टिन) आर. पी. कोरी एम.बी.बी.एस. रजि.नं. 8338 मेडिकल ऑफीसर सिविल अस्पताल हटा, जिला- दमोह (म.प्र.)

<u>FORM-O</u> (See Rule 29F (2), and 29L) REPORT OF MEDICAL EXAMINATION UNDER RULE 29B (To be issued in triplicate)**

	Certifi Certifi emplo In has b	icate No. ied that Shri / Shrimathi* oyed as been examined for an ipitial/p	Salyer Pretry eriodical* n	mine medical	, Form B No examination	n. He/Sha	Heerr	to be
	are gi	ven in the attached sheet. It is a	considered	that Shri	/ Shrimathi	*	examining au	uiony
L	(a) (b)	* is medically fit for any emplo * is suffering from	oyment in m	ines.				
		/						
		medically unfit for any employment in mine ; or any employment below ground any employment or work	i∵or					
	(c)	* is suffering from	6					
		hould get this disability* cured /					within a perio	d of
		months .* H	e/She will a	ppear fo	r re-examir	nation with		
		<u>}</u>					1	
							itted to carry	on
	his du	ties during this period.			(1.0	>	
r		1			- Contraction of the second states		mining autho	rity
				डॉ.(केप्टिन) आ	रि. पी. क	रि	
				एम.ब	ग.बा.एस _N	ame and D	signation in	
						सिक्तिकरू इमोह (म.प्र		
					and the second se			

Place: CH flattg Date: 13/00/24

** 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.

cure	be filled in for every medical examination whether initia / control of disability). exure to certificate No.	
	tification Mark	
••••••		
Left t	thump impression of the candidate,	
1.	General development	Good / Fair / Poor.
2.	Height	3. Weight
4.	Eyes:	
(i)	Visual acuity-Distant Vision (with or without glasse	s) 6. [
	Right eye	······································
(ii)	Any organic disease of eyes:	
(iii)	Night blindness :	
(iv) (v)	Colour blindness : Squint :(to sted in	special cases)
	\bigcirc	i special cases)
5. (i)	Ears: (16) hearing Right ear	
(1)	Left ear	
(ii)	any organic disease :	
6.	Respiratory System : (🖉)	
(i)	Chest measurement : <u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	Cms
(i) (ii)	5 6 7 6	Cms.
7.	Circulatory System : 1220 Blood Pressure : 1220 Pulse : 76hA	
•	Blood Pressure : 12218	
	Pulse : 76hr	
8.	Abdomen : (A) Tenderness : (A)	
	Liver :	
	Spleen :	10.
	Tumour :	

FORM O (Contd.)

REPORT OF THE EXAMINING AUTHORITY

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:2:

9.	Nervous System History of fits or		
	Epilepsy	:	
	Paralysis	•	
	Mental Health	:	
10.	Locomotor System	ě	NAD
11.	Skin	\$	
12.	Herina	:	
13.	Hydrocele	÷	
14.	Any other abnormality:		
15.	Urine	:	-6)
	Reaction	•	AN
	Albumin	:	Assent-
	Sugar	÷	Absent-
16.	Skiagram of chest	:	

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

18. Any opinion of specialists considered necessary.

Place: Chilletts Date: 13205/24 Report of Medical Examination under Mines Rule 29B

(To be used in continuation with Form 0)

Certificate No.

Name:

6

Identification Marks:

Result of of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)			
Forced Vital Capacity 1 FEV1	2		
FEV 1 /FVC			
Peak Expiratory Flow			

Spirometry Report enclosed

Signature of Examination Authority

Report off Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form 0)

Certificate No. Name:

Identification Marks:

Cardiological Assessment 1.

Auscultation	S1	-tw-
	S2	pnt.
	Additional Sound	1
Electrocardiograph (12 leads)		Unormal/ Abnormal

Enclosed ECG

2. **Neurological Assessment**



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

3. ILO Classification of Chest Radiograph:

 ILO Classification of Chest Radiograph 	n: 🕐 🗡	
Profusion of Pneumoconiotic opacities	Grades	Types
Present/Absent		

Enclosed Chest Radiograph

NO

4. Audiometry Findings:

, Nor hearing

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

Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

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

Enclosed Investigation Reports.

6. Special Tests for Mn exposure

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

7. Any other Special Test Required:

डॉ.(केप्लि) आर. पी. कोरी एम.डोज़ाबागर जि.नं. 8338 एम.डोज़ाबागर किंदल अर्थन Authority मेडिकल आज्जेमर किंदल अर्थन Authority हटा, जिला- दमोर (प्र.प्र.)

<u>FORM-O</u> (See Rule 29F (2), and 29L) REPORT OF MEDICAL EXAMINATION UNDER RULE 29B (To be issued in triplicate)**

Certificate No. Certified that Shri / Shrimathi*	ars to be
 (a) * is medically fit for any employment in mines. (b) * is suffering from	
and is medically unfit for	
 (i) any employment in mine ; or (ii) any employment below ground; or 	
(ii) any employment below ground; or (iii) any employment or work	
(c) * is suffering from	
and should get this disability* cured / controlled and should be again examined within a p	 eriod of
months .* He/She will appear for re-examination with the result	
of* and the opinion of specialist from	
	arry on
his duties during this period.	2
Signature of the Examining au	thority D

हॉ.(केल्लि) आर. गा. कारा Name and Designation in 8038 प्रेडिक Block Letters के (प.प.) हटा, जिला- द्वेते (प.प.)

Place: CA l'allen Date: 27/05/24.

** 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.

	e filled in for every medical examination whether in / control of disability).	nitial or periodical or re-examination or after
	exure to certificate No	
1deni	uncation Mark	
Left t	thump impression of the candidate,	. /
1.	General development	Good / Fair / Poor.
2.	Height Cms.	3. WeightSKgs.
4. (i)	Eyes: Visual acuity-Distant Vision (with or without glas Right eyeLeft Eye	ises)
(ii) (iii) (iv) (v)	Any organic disease of eyes: Night blindness : Colour blindness : Squint :(to stee	d in special cases)
5. (i) (ii)	Ears: hearing Right ear Left ear any organic disease :	
6. (i) (ii)	Respiratory System : Chest measurement : after full inspiration after full expiration	Cms.
7.	Circulatory System : Blood Pressure : BA - 120 Pulse : F6/ww Abdomen :	4/60
8.	Abdomen Tenderness Liver Spleen Tumour	

REPORT OF THE EXAMINING AUTHORITY

FORM O

(Contd.)

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:2:

9.	Nervous System History of fits or	1	
	Epilepsy	ŝ	
	Paralysis	:	
	Mental Health	÷	NAN
10.	Locomotor System		3 1
11.	Skin		
12.	Herina	:	
13.	Hydrocele	:	
14.	Any other abnormality:		/
15.	Urine	:	a
	Reaction	:	an
	Albumin	:	Magandr
	Sugar	1	Abscent
16.	Skiagram of chest	:	D

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

18. Any opinion of specialists considered necessary.

Place : Date :

CM Mulla. Z\$/05/24 -

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Report of Medical Examination under Mines Rule 29B

(To be used in continuation with Form 0)

Certificate No.

Name:

Identification Marks:

Result of of Lung Function Test (Spirometry)

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

Spirometry Report enclosed

Signature of Examination Authority

Report off Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form 0)

Certificate No. Name:

ίŧ.

Identification Marks:

1. Cardiological Assessment

		\sim
Auscultation	S1	(Min
	S2	M.
	Additional Sound	
Electrocardiograp	h (12 leads)	Normal/ Abnormal

Enclosed ECG

2. Neurological Assessment

· ·
Normal/Abnormal

3. ILO Classification of Chest Radiograph:

 ILO Classification of Chest Radiograph 	n: D).
Profusion of Pneumoconiotic opacities	Grades	Types
Present/Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

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

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Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

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

Enclosed Investigation Reports.

6. Special Tests for Mn exposure

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

7. Any other Special Test Required:

कोरी डॉ.(केटि त्म) **3** 8338 Signature of Exa अस्पताल हटा, जिला- ढमोह (म.प्र.)

<u>FORM-O</u> (See Rule 29F (2), and 29L) REPORT OF MEDICAL EXAMINATION UNDER RULE 29B (To be issued in triplicate)**

Certificate No. Certified that Shri / Shrimathi* <u>Maamaadaa</u> <u>Maamaadaa</u> <u>Sta.</u> <u>Ko Shcel</u> employed as <u>provide</u> <u>in</u> <u>mine</u> , Form B No. <u>mine</u> , Form B No. <u>Maamaadaa</u> <u>Sta.</u> <u>Ko Shcel</u> has been examined for an initial/periodical* medical examination. He/She * appears to be <u>standadaa</u> <u>years of age</u> . The findings of the examining authority are given in the attached sheet. It is considered that Shri / Shrimathi*
 (a) * is medically fit for any employment in mines. (b) * is suffering from
and is medically unfit for (i) any employment in mine ; or (ii) any employment below ground; or (iii) any employment or work
(c) * is suffering from
and should get this disability* cured / controlled and should be again examined within a period of months .* He/She will appear for re-examination with the result of test of* and the opinion of specialist from He/She* may be permitted /not* permitted to carry on
his duties during this period.

Signature of the Examining authority ठा.(केन्दिन) आर. पी. कोरी एम.बी.बी.एस. रजि.नं. 8338 Name and Designation in Block Letters हटा, जिला- दमोर्ड (म.प्र.)



Place:

Date:

211 Malstar 27/05/24.

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.

REP	FORM O (Contd.) ORT OF THE EXAMINING AUTHORITY
	e filled in for every medical examination whether initial or periodical or re-examination or after / control of disability).
Anne	exure to certificate No.
Ident	ification Mark
Left t	hump impression of the candidate,
1.	General development Good / Fair / Poor.
2.	Height
4. (i)	Eyes: Visual acuity-Distant Vision (with or without glasses) Right eye
(ii) (iii) (iv) (v)	Any organic disease of eyes: Night blindness : Colour blindness : Squint :(to sted in special cases)
5. (i)	Ears: hearing Right ear Left ear
(ii)	any organic disease :
6. (i) (ii)	Respiratory System : Chest measurement : after full inspiration
7.	Circulatory System : BPo 136/85 Pulse : T&b
8.	Abdomen : Tenderness : Liver : Spleen : Tumour :

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9.	Nervous System History of fits or	i.	ļ
	Epilepsy	£	
	Paralysis	•	
	Mental Health	:	NAD
10.	Locomotor System	•	
11.	Skin	8	
12.	Herina		
13.	Hydrocele	ŝ	
14.	Any other abnormality:		
15.	Urine		(N)
	Reaction	2	N
	Albumin	÷	Alocard
	Sugar	÷	Abseen-
16.	Skiagram of chest	:	(I)

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

18. Any opinion of specialists considered necessary.

Place : Ch Hould Date : 2H05/24.

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Report of Medical Examination under Mines Rule 29B

(To be used in continuation with Form 0)

Certificate No.

Name:

0

Identification Marks:

Result of of Lung Function Test (Spirometry)

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

Spirometry Report enclosed

Signature of Examination Authority

Report off Medical Examination as per the recommendations of National Safety Conferences in Mines

(To be used in continuation with Form 0)

Certificate No. Name:

Identification Marks:

rden -

1. Cardiological Assessment

		<u> </u>
Auscultation	S1	
	S2	(N)
	Additional Sound	
Electrocardiograph (12 leads)		Normal/ Abnormal

Enclosed ECG

2. Neurological Assessment

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

3. ILO Classification of Chest Radiograph:

Profusion of Pneumoconiotic opacities	Grades	Types
Present/Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

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

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Enclosed Audiometry Report.

5. Pathological/Microbiological Investigations:

S.No	Tests	Findings
1.	Blood- Tc, Dc, Hb, ESR, Platelets	₩NL/Abnormal
2.	Blood Sugar- Fasting & PP	WNL/Abnormal
3.	Lipid profile	WNL/Abnormal
4.	Blood Urea, Creatinine	WNL/Abnormal
5.	Urine Routine	WNL/Abnormal
6.	Stool Routine	WNL/Abnormal

Enclosed Investigation Reports.

6. Special Tests for Mn exposure

nces	Present/ Not Present
Speech Defect	Present/NotPresent
Tremor	Present/NotPresent
Adiadocokinesia	Present/NotPresent
Emotional Changes	Present/NotPresent
	Speech Defect Tremor Adiadocokinesia

7. Any other Special Test Required:

डॉ. (केटिल) आर. पी. कोरी एम.बी.बी.एस. पी.कोरी Signature of Examination Authorityन. 8338 हटा, जिला- दमोह (म.प्र.)

Annexure-5

AMBIENT AIR QUALITY MONITORING QUARTERLY AVERAGE REPORT OF KOLKARHIYA LIMESTONE MINE (CORE AND BUFFER ZONE)

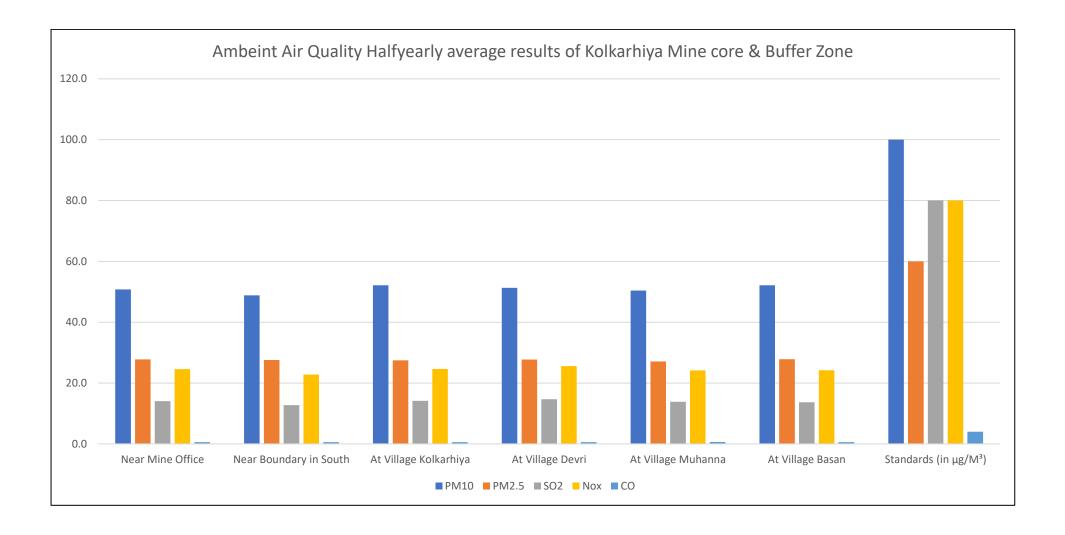
Sr.No.	Month	Near	Mine Office	/Mine Site	(results in	µg/M³)	Near Boundary in South (results in µg/M³)						
		PM-10	PM-2.5	SO2	Nox	CO	PM-10	PM-2.5	SO2	Nox	CO		
		100	60	80	80	4 (mg/M ³⁾	100	60	0	80	4 (mg/M ³⁾		
1	Apr-24	58.09	29.98	16.69	24.88	0.53	52.17	29.28	14.94	24.25	0.58		
2	May-24	57.37	29.86	14.82	23.42	0.57	53.52	29.24	13.46	22.14	0.54		
3	Jun-24	56.32	29.64	13.20	22.66	0.60	53.10	29.89	12.40	22.14	0.54		
Quarte	rly Average	57.26	29.83	14.90	23.65	0.56	52.93	29.47	13.60	22.85	0.55		
Sr.No.	Month	<u>ا</u>	/illage Kolk	arhiya (res	∣ ults in µg/N	Л ³)		Village De	evri (results	in µg/M³)			
		PM-10	PM-2.5	SO2	Nox	CO	PM-10	PM-2.5	SO2	Nox	CO		
		100	60	80	80	4 (mg/M ³⁾	100	60	80	80	4 (mg/M ³⁾		
1	Apr-24	60.53	29.91	17.10	24.00	0.62	57.97	29.27	18.33	25.69	0.66		
2	May-24	59.90	29.68	15.70	23.60	0.58	59.17	29.68	14.81	24.74	0.62		
3	Jun-24	58.36	29.96	12.68	25.02	0.61	56.78	30.80	14.38	24.33	0.58		
Quarte	rly Average	59.59	29.85	15.16	24.21	0.60	57.97	29.91	15.84	24.92	0.62		
Sr.No.	Month		Village Muh	nanaa (resu	∣ ılts in µg/M	³)		Village Ba	san (result	s in μg/M³)			
		PM-10	PM-2.5	SO2	Nox	CO	PM-10	PM-2.5	SO2	Nox	CO		
		100	60	80	80	4 (mg/M ³⁾	100	60	80	80	4 (mg/M ³⁾		
1	Apr-24	55.20	28.49	15.95	24.55	0.67	59.16	30.41	16.76	23.95	0.60		
2	May-24	57.99	29.57	15.34	23.91	0.63	58.88	30.43	13.88	23.39	0.61		
3	Jun-24	56.58	30.09	13.17	23.06	0.59	59.57	30.17	12.71	24.10	0.55		
Quarte	rly Average	56.59	29.38	14.82	23.84	0.63	59.20	30.34	14.45	23.81	0.59		

(Period: April 2024 - June 2024)

AMBIENT AIR QUALITY MONITORING QUARTERLY AVERAGE REPORT OF KOLKARHIYA LIMESTONE MINE (CORE AND BUFFER ZONE)

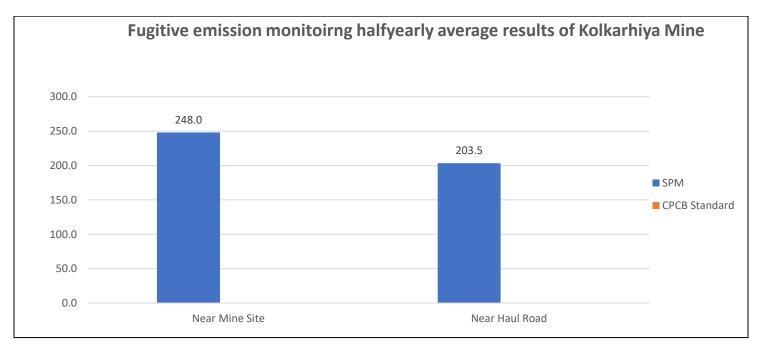
Sr.No.	Month	Near Mine Office/Mine Site (results in µg/M³)					Near Boundary in South (results in µg/M³)					
		PM-10	PM-2.5	SO2	Nox	CO	PM-10	PM-2.5	SO2	Nox	CO	
		100	60	80	80	4 (mg/M ³⁾	100	60	0	80	4 (mg/M ³⁾	
1	Jul-24	44.10	25.96	13.73	27.20	0.57	44.85	25.16	11.70	22.48	0.54	
2	Aug-24	42.90	25.04	12.98	26.03	0.57	44.01	24.61	11.91	22.88	0.54	
3	Sep-24	45.86	26.18	12.75	23.26	0.55	45.30	27.15	11.83	22.75	0.55	
Quarte	erly Average	44.29	25.73	13.15	25.50	0.56	44.72	25.64	11.81	22.70	0.54	
Sr.No.	Month	Village Kolkarhiya (results in µg/M³)					Village Devri (results in µg/M³)					
		PM-10	PM-2.5	SO2	Nox	CO	PM-10	PM-2.5	SO2	Nox	СО	
		100	60	80	80	4 (mg/M ³⁾	100	60	80	80	4 (mg/M ³⁾	
1	Jul-24	44.09	24.30	13.91	26.65	0.61	44.36	25.24	14.09	28.31	0.60	
2	Aug-24	43.41	23.99	13.43	25.47	0.58	43.49	24.43	13.77	26.77	0.58	
3	Sep-24	46.44	26.84	12.20	22.89	0.54	45.89	26.89	12.55	23.49	0.53	
Quarte	erly Average	44.65	25.04	13.18	25.00	0.58	44.58	25.52	13.47	26.19	0.57	
Sr.No.	Month	Village Muhanaa (results in µg/M³)					Village Basan (results in µg/M³)					
		PM-10	PM-2.5	SO2	Nox	CO	PM-10	PM-2.5	SO2	Nox	CO	
		100	60	80	80	4 (mg/M ³⁾	100	60	80	80	4 (mg/M ³⁾	
1	Jul-24	44.35	24.38	12.61	25.86	0.61	44.69	24.98	12.60	25.59	0.60	
2	Aug-24	42.82	23.34	12.33	23.70	0.59	43.99	24.12	12.88	24.78	0.59	
3	Sep-24	45.61	26.56	13.63	23.65	0.54	46.68	26.71	13.20	23.23	0.53	
Quarte	erly Average	44.26	24.76	12.86	24.40	0.58	45.12	25.27	12.89	24.53	0.57	

(Period: July 2024 - September 2024)



Annexure-6

Fugitive emission (April-Sept 2024) average results of Kolkarhiya Mine							
Sr. No.	Sr. No. Name of Location/Parameter SPM						
1	Near Mine Site	248.0					
2	Near Haul Road	203.5					



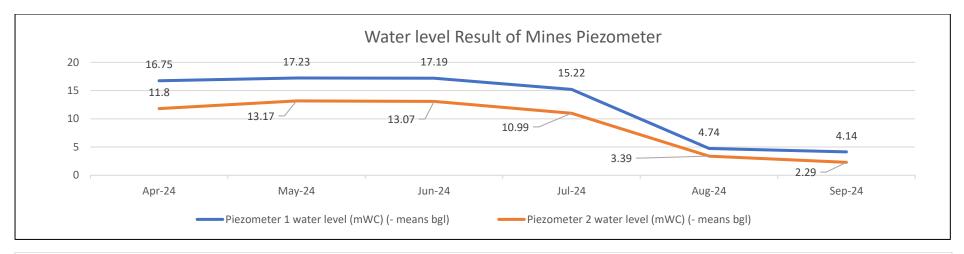
CPCB Standard: 5000 µg/M3

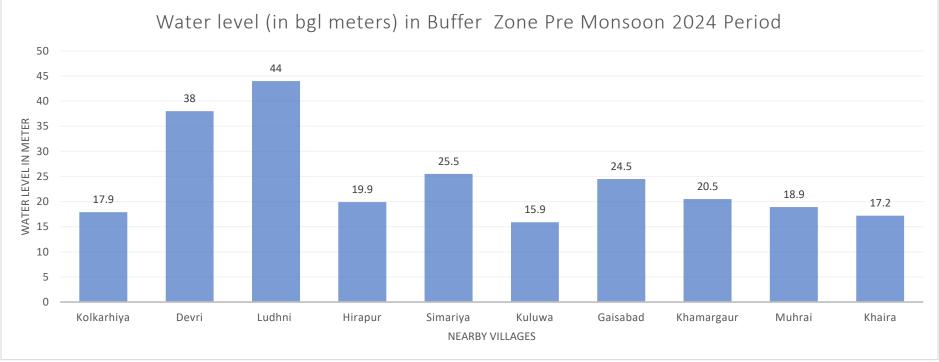
ANNEXURE-7

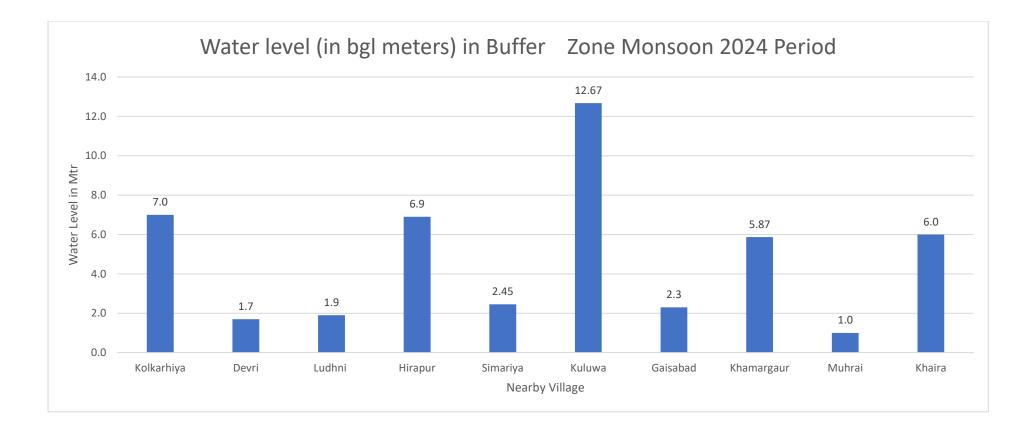
Kolkarhiya Mine Piezometer-1 Monthly Average Water Level Results (With Telemetry)						
DATALOGGER ID SPRINGWAY01 with	MONTH	WATER LEVEL (mWC) (- means bgl)				
Telemetry	Apr-24	16.75				
Website: http://35.200.247.132/webdata/webdatalogin	May-24	17.23				
User ID : springwaymin	Jun-24	17.19				
Password: SpR3i9gwmi9_G	Jul-24	15.22				
	Aug-24	4.74				
	Sep-24	4.14				

Kolkarhiya Mine Piezometer-2 Monthly Average Water Level Results (Without Telemetry)							
	MONTH	WATER LEVEL (mWC) (- means bgl)					
	Apr-24	11.8					
	May-24	13.17					
SPRINGWAY02 (Without Telemetry)	Jun-24	13.07					
	Jul-24	10.99					
	Aug-24	3.39					
	Sep-24	2.29					

		Buffer Zone (Ground Water Level M	onitoring: Pre Monsoo	on 2024 to Mons	oon 2024			
	Name of Village	Owner Name	Latitude	Longitude	Type of Monitoring Station	Direction from Mine	Aerial Distance (in Km)	Water level (in bgl meters)	
Sr. No.								May- 2024	August- 2024
1	Kolkarhiya	Shri Rajendar Parashar	24°16'23.93"N	79°49'24.247"E	Bore Well	Core-zone	-	17.9	7.0
2	Devri	Shri Sharda Patel	24°15'44.431"N	79°50'31.898"E	Bore Well	E	2.5	38	1.7
3	Ludhni	Shri Sanjay Tiwari	24°14'26.941"N	79°53'1.626"E	Bore Well	E	7.5	44	1.9
4	Hirapur	Shri Monu Pathak	24°12'42.66"N	79°52'5.098"E	Bore Well	SE	8.5	19.9	6.9
5	Simariya	Govt Bus Stand	24°16'0.703"N	79°53'49.999"E	Bore Well	E	8	25.5	2.45
6	Kuluwa	Shri Dipendra Patel	24°16'1.018"N	79°50'49.372"E	Bore Well	NE	3	15.9	12.67
7	Gaisabad	Shri Rinku Shrivastav	24°14'12.779"N	79°49'30.482"E	Bore Well	S	4	24.5	2.3
8	Khamargaur	Govt Borewell on the Village road	24°18'28.728"N	79°49'25.982"E	Bore Well	N	4	20.5	5.87
9	Muhrai	Shri Ramadhin Patel	24°16'43.86"N	79°46'40.378"E	Bore Well	sw	4	18.9	1.0
10	Khaira	Govt School	24°18'47.426"N	79°47'37.251"E	Bore Well	WN	4	17.2	6.0







M/s Springway Mining Private Limited at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) GROUND WATER ANALYSIS REPORT (May 2024, Pre Monsoon Period) FOR KOLKARHIYA LIMESTONE MINE

Sr.No.	Test Parameters	Unit	Method No.	Requirement as	per IS-10500-2012	Mine Site
				Desirable	Permissible	(Borewell)
1	pH Value at 25.°C	-	APHA 24th Ed.4500H+A+B	6.5-8.5	No relaxation	7.33
2	Temperature	°C	APHA 24th Ed. 2550-A+B	Not Specified	Not Specified	26.2
3	Colour	Hazen	APHA 24th Ed. 2550-A+B APHA 24th Ed. 2120-B	5	15	<5.0
4	Turbidity	NTU	APHA 24th Ed. 2120-B APHA 24th Ed. 2130-A+B	1	5	5.0
5	Odour	-	APHA 24th Ed. 2150-A+D APHA 24th Ed. 2150-B	Agreeable	Agreeable	Agreeable
6	Taste	-	APHA 24th Ed. 2150-B	Agreeable	Agreeable	Agreeable
7	Electrical Conductivity	μS/Cm	APHA 24th Ed. 2510 B	Not Specified	Not Specified	754
8	Alkalinity	mg/L	APHA 24th Ed. 2320-A+ B	200	600	212
9	Total Dissolved Solids	mg/L	APHA 24th Ed. 2540-C	500	2000	496
10	Total Hardness	mg/L	APHA 24th Ed. 2340 A+C	200	600	238
11	Calcium	mg/L	APHA 24th Ed. 3500 Ca- A+B	75	200	49.1
12	Magnesium	mg/L	APHA 24th Ed. 3500 Mg A+B	30	100	28.6
13	Sodium	mg/L	APHA 24th Ed. 3500 Na, A+B	-	-	22
14	Phosphate	mg/L	APHA 24th Ed. 5500 Na, APB APHA 24th Ed. 4500-E	-	-	<0.20
15	Sulfate	mg/L	APHA 24th Ed. 4500-SO42- E	200	400	26.4
16	Free Residual Chlorine	mg/L	APHA 24th Ed. 4500-Cl B	0.2	1.00	<0.20
17	Chloride	mg/L	APHA 24th Ed. 4500 Cl A+B	250	1000	32
18	Potassium	mg/L	APHA 24th Ed. 3500 K, A+B	-	-	10
19	Nitrate	mg/L	APHA 24th Ed. 4500-NO3- B	45	No relaxation	7.2
20	Phenolic Compound	mg/L	APHA ED-5530 C	0.001	0.002	BDL
eavy Me						
21	Boron	mg/L	APHA 24th Ed. 4500 B A+C	0.5	1.00	<0.2
22	Copper	mg/L	APHA 24th Ed. 3111 A+B	0.05	1.5	< 0.05
23	Cadmium	mg/L	APHA 24th Ed. 3111 A+B	0.003	No relaxation	BDL
24	Iron	mg/L	APHA 24th Ed. 3500 Fe B	0.3	No relaxation	0.25
25	Lead	mg/L	APHA 24th Ed. 3111 A+B	0.01	No relaxation	<0.01
26	Nickel	mg/L	APHA 24th Ed. 3111 A+B	0.02	No relaxation	< 0.02
27	Zinc	mg/L	APHA 24th Ed. 3111 A+B	5	15	< 0.02
28	Mercury	mg/L	APHA 24th Ed. 3112 A+B	0.001	No relaxation	BDL
29	Total Chromium	mg/L	APHA 24th Ed. 3111 A+B	0.05	No relaxation	BDL
30	Arsenic	mg/L	APHA 24th Ed. 3114 B	0.01	0.05	BDL
31	Fluoride	mg/L	APHA 24th Ed. 4500-C	1	1.5	0.28
32	Manganese	mg/L	APHA, 24rd Ed., 3111 A+B	0.1	0.3	BDL
33	Aluminium	mg/L	APHA 24th Ed. 3500-AL+B	0.03	0.2	BDL
34	Sulphide	mg/L	APHA 24th Ed. 4500:(S2)-D	0.05	No relaxation	BDL
35	Selenium	mg/L	APHA 24th Ed. 3114 B	0.01	No relaxation	BDL
36	Mineral Oil	mg/L	APHA, 24rd Ed. (Part 39) Class -6 Infrared Partition Method	0.5	No relaxation	BDL
37	Anionic Detergent	mg/L	APHA 24rd Ed., 5540 A+C	0.2	1	BDL
38	Cyanide	mg/L	APHA 24th Ed. ,4500 CN	0.05	No relaxation	BDL
39	Silver	mg/L	APHA 24th Ed3500 AG	0.1	No relaxation	BDL
40	Barium	mg/L	APHA 24th Ed. 3500 BA	0.7	No relaxation	BDL
41	Chloramines	mg/L	APHA 4500-Cl G	4	No relaxation	BDL
42	Molybdenum	mg/L	APHA 24th Ed. 3500,MO	0.07	No relaxation	BDL
esticide	ı — — — — — — — — — — — — — — — — — — —	51		-		
43	Aldrin	μg/l	USEPA 508	0.03	-	ND
44	2,4-Dichlorophenoxy acetic acid	μg/l	USEPA 515.1	30	-	ND
45	DDT	μg/l	USEPA 508	1	-	ND
46	Endosulfan	μg/l	USEPA 508	0.4	-	ND
47	Malathion	μg/l	USEPA 8141A	190	-	ND
iological						
48	Total Coliform Count	MPN/100 ML	APHA 24th Ed. 9221 B		ctable in any 100 ml mple	0
49	E-Coli	MPN/100 ML	APHA 24th Ed. 9221 G		-	0

	GROUND WATER ANALYSIS REPORT (May 2024, Pre Monsoon Period) FOR KOLKARHIYA LIMESTONE MINE (CORE AND BUFFER ZONE) Name of Village Name of Village													
	Test Parameters	Unit	Method No.		is per IS-10500-)12	Village Kolkariya	Village Simariya	Village Amghat	Village Hirapur	Village Gaisabad	e Village Muhrai	Village Maharajganj	Village Devri	Village Khaira- Khairi
				Acceptable	Permissible	(Hand Pump)	(Hand Pump)	(Hand Pump)	(Hand Pump)	(Hand Pump)	(Hand Pump)	(Hand Pump)	(Hand Pump)	(Hand pump)
1	pH Value at 25.°C	-	APHA 24th Ed.4500H+A+B	6.5-8.5	No relaxation	7.56	7.52	7.25	7.58	7.44	7.62	7.22	7.45	7.54
2	Temperature	°C	APHA 24th Ed. 2550-A+B	Not Specified	Not Specified	25.8	26	25.9	25.9	27.1	25.9	25.9	26.8	25.8
3	Colour	Hazen	APHA 24th Ed. 2120-B	5	15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4	Turbidity	NTU	APHA 24th Ed. 2130-A+B	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	Odour	-	APHA 24th Ed. 2150-B	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
6	Electrical Conductivity	µS/Cm	APHA 24th Ed. 2510 B	Not Specified	Not Specified	681	744	690	790	642	824	730	782	711
7	Alkalinity	mg/L	APHA 24th Ed. 2320-A+ B	200	600	180	188	186	192	164	214	182	204	178
8	Total Dissolved Solids	mg/L	APHA 24th Ed. 2540-C	500	2000	439	496	428	507	409	526	453	485	455
9	Total Hardness	mg/L	APHA 24th Ed. 2340 A+C	200	600	168	214	172	204	178	234	176	224	192
10	Calcium	mg/L	APHA 24th Ed. 3500 Ca- A+B	75	200	32.5	38.5	36.5	40.7	32.8	45.2	32.4	44.1	34.2
11	Magnesium	mg/L	APHA 24th Ed. 3500 Mg A+B	30	100	21.1	28.6	19.7	24.8	23.4	29.4	23.1	27.7	25.9
12	Sodium	mg/L	APHA 24th Ed. 3500 Na, A+B	-	-	19	24	20	25	22	25	28	26	20
13	Phosphate	mg/L	APHA 24th Ed. 4500-E	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
14	Sulfate	mg/L	APHA 24th Ed. 4500-SO42- E	200	400	25.1	28.1	22.1	28.9	28.7	30.9	24.6	27.4	24.8
15	Potassium	mg/L	APHA 24th Ed. 3500 K, A+B	-		8	11	11	12	11	12	12	12	9
16	Nitrate	mg/L	APHA 24th Ed. 4500-NO3- B	45	No relaxation	6.7	6.3	5.9	8.9	8.2	6.2	7.8	6.5	5.4
17	Free Residual Chlorine	mg/L	APHA 24th Ed. 4500-Cl B	0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18	Chloride	mg/L	APHA 24th Ed. 4500 Cl A+B	250	1000	30	42	28	38	42	38.4	36.8	30	36
19	Boron	mg/L	APHA 24th Ed. 4500 B A+C	0.5	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
20	Copper	mg/L	APHA 24th Ed. 3111 A+B	0.05	1.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
21	Cadmium	mg/L	APHA 24th Ed. 3111 A+B	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
22	Iron	mg/L	APHA 24th Ed. 3500 Fe B	0.3	No relaxation	0.22	0.28	0.22	0.27	0.29	0.28	0.22	0.29	0.22
23	Lead	mg/L	APHA 24th Ed. 3111 A+B	0.01	No relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	Nickel	mg/L	APHA 24th Ed. 3111 A+B	0.02	No relaxation	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
25	Zinc	mg/L	APHA 24th Ed. 3111 A+B	5	15	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
26	Mercury	mg/L	APHA 24th Ed. 3112 A+B	0.001	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
27	Total Chromium	mg/L	APHA 24th Ed. 3111 A+B	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
28	Arsenic	mg/L	APHA 24th Ed. 3114 B	0.01	0.05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
29	Fluoride	mg/L	APHA 24th Ed. 4500-C	1	1.5	0.35	0.56	0.38	0.56	0.39	0.58	0.38	0.39	0.37
30	Phenolic Compound	mg/L	APHA ED-5530 C	0.001	0.002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
31	Total Coliform Count	MPN/100 ML	APHA 24th Ed. 9221 B		ectable in any 100	0	0	0	0	0	0	0	0	0
32	E-Coli	MPN/100 ML	APHA 24th Ed. 9221 G	ml sa	ample	0	0	0	0	0	0	0	0	0

M/s Springway Mining Private Limited at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) ROUND WATER ANALYSIS REPORT (May 2024, Pre Monsoon Period) FOR KOLKARHIYA LIMESTONE MINE (CORE AND BUFFER ZONE)

S. No.	Test Parameters	Unit	Method of Test	Limit as per IS:2296	Result O	btained
511101		0		Class A	Bearma River	Sonar River
1	pH	-	APHA 4500-H+	6.0-9.0	7.22	7.63
2	Colour	Hazen	APHA 2120-B	300	10	15
3	Turbidity	NTU	APHA 2130-A+B	-	<1.0	<1.0
4	Total Dissolved Solid (TDS)	mg/L	APHA 2540-C	1500	425	395
5	Total Suspended Solid (TSS)	mg/L	APHA (2540-D)	100	25.6	18.1
6	Alkalinity	mg/L	APHA 2320-A+ B	-	188	175
7	Total Hardness	mg/L	APHA 2340 A+C	-	172	158
8	Dissolve Oxygen (DO)	mg/L	APHA 4500:(0)-C	4 (Min.)	6.1	5.9
9	Bilogical Oxygen Demand (BOD 3 days 27°C)	mg/L	IS: 3025 (Part-44)	3	2.8	2.2
10	Chemical Oxygen Demand as COD	mg/L	APHA (5220-B)	250	16	12
11	Chloride, Cl	mg/L	APHA 4500:(Cl-)-B	600	38	36
12	Fluoride, (F)	mg/L	APHA 4500:(F-)-D	1.5	0.59	0.52
13	Sulphate, SO4	mg/L	APHA 4500:(SO4)-E	400	38.50	32.1
14	Phenolic Compound, (C6H5OH)	mg/L	АРНА 5530-С	0.005	<0.01	<0.01
15	Oil & Grease, (0 & G)	mg/L	APHA 5520-D	0.1	BDL	BDL
16	Nitrate, (NO3)	mg/L	APHA 4500:(NO3-)-B	50	5.9	6.2
17	Arsenic, (As)	mg/L	APHA 3120B	0.2	< 0.01	< 0.01
18	Copper, (Cu)	mg/L	APHA 3120B	1.5	< 0.01	< 0.01
19	Iron, (Fe)	mg/L	APHA 3120B	0.5	0.23	0.25
20	Zinc, (Zn)	mg/L	APHA 3120B	15	< 0.05	< 0.05
21	Cadmium, Cd)	mg/L	APHA 3120B	0.01	< 0.01	< 0.01
22	Chromium, (Cr+6)	mg/L	APHA 3500:(Cr)-B	0.05	< 0.01	< 0.01
23	Lead, (Pb)	mg/L	APHA-3120B	0.1	< 0.01	< 0.01
24	Mercury (HG)	mg/L	APHA-3112A+B	-	< 0.01	< 0.01
25	Total Coliform Count	MPN/100 ml	APHA 9221 B	5000	210	350
26	Faecal Coliform	MPN/100 ml	APHA 9221 E	-	120	220

M/s Springway Mining Private Limited at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) Surface water analysis report (**May 2024, Pre-Monsoon Period**) for kolkarhiya limestone mine

	QUARTERLY SURFACE WATER FLOW RATE N	IONITORING RE	PORT OF KO	LKARHIYA LIMES	TONE MINE BUFF	ER ZONE		
Sr.No.	Location	Parameters	Unit	Results				
51.110.	Location	rarameters	onit	Apr-24	May-24	Jun-24		
1	Sonar River upstream			210.32	225.2	218.7		
2	Sonar River downstream		m³/sec	193.25	199.32	198.4		
3	Bearma River upstream	Elow rato		278.65	271.3	268.7		
4	Bearma River downstream	Flow rate		255.84	248.32	249.5		
5	Seasonal Nallah Gahra			Dry	Dry	Dry		
6	Seasonal Nallah Marwa			Dry	Dry	Dry		

M/s Springway Mining Private Limited at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.)

M/s JSW Cement Limited at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) GROUND WATER ANALYSIS REPORT (August 2024, Monsoon Period) FOR KOLKARHIYA LIMESTONE MINE

Sr.No.	Test Parameters	Unit	Method No.	Requirement as	per IS-10500-2012	Mine Office	
				Desirable	Permissible	(Domousell)	
				6.5-8.5	No relaxation	(Borewell) 7.22	
1	pH Value at 25.°C	-	APHA 24th Ed.4500H+A+B	0.5-0.5	Norelaxation	1.22	
2	Temperature	°C	APHA 24th Ed. 2550-A+B	Not Specified	Not Specified	21.1	
3	Colour	Hazen	APHA 24th Ed. 2120-B	5	15	<5.0	
4	Turbidity	NTU	APHA 24th Ed. 2130-A+B	1	5	<1.0	
5	Odour	-	APHA 24th Ed. 2150-B	Agreeable	Agreeable	Agreeable	
6	Taste	-	APHA 24th Ed. 2160-B	Agreeable	Agreeable	Agreeable	
7	Electrical Conductivity	μS/Cm	APHA 24th Ed. 2510 B	Not Specified	Not Specified	1560	
8	Alkalinity	mg/L	APHA 24th Ed. 2320-A+ B	200	600	250	
9	Total Dissolved Solids	mg/L	APHA 24th Ed. 2540-C	500	2000	988	
10	Total Hardness	mg/L	APHA 24th Ed. 2340 A+C	200	600	520	
11	Calcium	mg/L	APHA 24th Ed. 3500 Ca- A+B	75	200	125.5	
12	Magnesium	mg/L	APHA 24th Ed. 3500 Mg A+B	30	100	95	
13	Sodium	mg/L	APHA 24th Ed. 3500 Na, A+B	-	-	35	
14	Phosphate	mg/L	APHA 24th Ed. 4500-E	-	-	<0.20	
15	Sulfate	mg/L	APHA 24th Ed. 4500-SO42- E	200	400	37.8	
16	Free Residual Chlorine	mg/L	APHA 24th Ed. 4500-Cl B	0.2	1.00	<0.20	
17	Chloride	mg/L	APHA 24th Ed. 4500 Cl A+B	250	1000	82.3	
18	Potassium	mg/L	APHA 24th Ed. 3500 K, A+B	-	-	18	
19	Nitrate	mg/L	APHA 24th Ed. 4500-NO3- B	45	No relaxation	8.4	
20	Phenolic Compound	mg/L	APHA ED-5530 C	0.001	0.002	BDL	
eavy Me	1 1		1				
21	Boron	mg/L	APHA 24th Ed. 4500 B A+C	0.5	1.00	<0.2	
22	Copper	mg/L	APHA 24th Ed. 3111 A+B	0.05	1.5	< 0.05	
23	Cadmium	mg/L	APHA 24th Ed. 3111 A+B	0.003	No relaxation	BDL	
24	Iron	mg/L	APHA 24th Ed. 3500 Fe B	0.3	No relaxation	0.29	
25	Lead	mg/L	APHA 24th Ed. 3111 A+B	0.01	No relaxation	< 0.01	
26	Nickel	mg/L	APHA 24th Ed. 3111 A+B	0.02	No relaxation	< 0.02	
27	Zinc	mg/L	APHA 24th Ed. 3111 A+B	5	15	< 0.02	
28	Mercury	mg/L	APHA 24th Ed. 3112 A+B	0.001	No relaxation	BDL	
29	Total Chromium	mg/L	APHA 24th Ed. 3111 A+B	0.05	No relaxation	BDL	
30	Arsenic	mg/L	APHA 24th Ed. 3114 B	0.01	0.05	BDL	
31	Fluoride	mg/L	APHA 24th Ed. 4500-C	1	1.5	0.88	
32	Manganese	mg/L	APHA, 24rd Ed., 3111 A+B	0.1	0.3	BDL	
33	Aluminium	mg/L	APHA 24th Ed. 3500-AL+B	0.03	0.2	BDL	
34	Sulphide	mg/L	APHA 24th Ed. 4500:(S2)-D	0.05	No relaxation	BDL	
35	Selenium	mg/L	APHA 24th Ed. 3114 B	0.01	No relaxation	BDL	
36	Mineral Oil	mg/L	APHA, 24rd Ed. (Part 39) Class -6 Infrared Partition Method	0.5	No relaxation	BDL	
37	Anionic Detergent	mg/L	APHA 24rd Ed., 5540 A+C	0.2	1	BDL	
38	Cyanide	mg/L	APHA 24th Ed. ,4500 CN	0.05	No relaxation	BDL	
39	Silver	mg/L	APHA 24th Ed3500 AG	0.1	No relaxation	BDL	
40	Barium	mg/L	APHA 24th Ed. 3500 BA	0.7	No relaxation	BDL	
41	Chloramines	mg/L	APHA 4500-Cl G	4	No relaxation	BDL	
42	Molybdenum	mg/L	APHA 24th Ed. 3500,MO	0.07	No relaxation	BDL	
sticide			1				
43	Aldrin	μg/l	USEPA 508	0.03	-	ND	
44	2,4-Dichlorophenoxy acetic acid	μg/l	USEPA 515.1	30	-	ND	
45	DDT	μg/l	USEPA 508	1	-	ND	
46	Endosulfan	μg/l	USEPA 508	0.4	-	ND	
47	Malathion	μg/l	USEPA 8141A	190	-	ND	
ological 48	Total Coliform Count	MPN/100 ML	APHA 24th Ed. 9221 B	Shall not be detec	table in any 100 ml	0	
				531	nple		

			GROUND WA		REPORT (Aug	ust 2024, WOIIS	oon Penou) FC		TALIMESTON		of Village	ONE)			
	Test Parameters	Unit	Method No.		is per IS-10500-)12	Village	Village	Village	Village	Village	Village Muhrai	Village	Village Devri	Village Khaira-	Mine Office
	Test Parameters	omt	Method No.	Acceptable	Permissible	Kolkariya (Hand Pump)	Simariya (Hand Pump)	Amghat (Hand Pump)	Hirapur (Hand Pump)	Gaisabad (Hand Pump)	(Hand Pump)	Maharajganj (Hand Pump)	(Hand Pump)	Khairi (Hand pump)	(Borewell)
1	pH Value at 25.°C	-	APHA 24th Ed.4500H+A+B	6.5-8.5	No relaxation	7.15	7.67	7.17	7.13	7.2	7.69	7.29	7.61	7.74	7.22
2	Temperature	°C	APHA 24th Ed. 2550-A+B	Not Specified	Not Specified	28.3	28.5	21.4	20.9	20.1	24.4	24.1	24.2	24.9	21.1
3	Colour	Hazen	APHA 24th Ed. 2120-B	5	15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.1
4	Turbidity	NTU	APHA 24th Ed. 2130-A+B	1	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.1
5	Odour	-	APHA 24th Ed. 2150-B	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
6	Electrical Conductivity	μS/Cm	APHA 24th Ed. 2510 B	Not Specified	Not Specified	756	764	695	1157	1427	865	711	787	732	1560
7	Alkalinity	mg/L	APHA 24th Ed. 2320-A+ B	200	600	195	216	272	276	300	224	172	208	188	250
8	Total Dissolved Solids	mg/L	APHA 24th Ed. 2540-C	500	2000	459	504	1236	743	422	538	434	456	467	988
9	Total Hardness	mg/L	APHA 24th Ed. 2340 A+C	200	600	168	232	284	300	568	240	158	224	204	520
10	Calcium	mg/L	APHA 24th Ed. 3500 Ca- A+B	75	200	45.5	48.7	80	57.71	121.8	48.4	30.1	48.1	38.2	125.5
11	Magnesium	mg/L	APHA 24th Ed. 3500 Mg A+B	30	100	29.7	26.8	25	42.5	48.5	29	20.1	25.3	24.4	95
12	Sodium	mg/L	APHA 24th Ed. 3500 Na, A+B	-	-	20	28.4	64	28	34	24	25	28	22	35
13	Phosphate	mg/L	APHA 24th Ed. 4500-E	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
14	Sulfate	mg/L	APHA 24th Ed. 4500-SO42- E	200	400	22.4	24.7	33.8	29.5	33.2	32.4	26.4	26.4	21.9	37.8
15	Potassium	mg/L	APHA 24th Ed. 3500 K, A+B	-	-	8	10	14	12	10	11	9	13	10	18
16	Nitrate	mg/L	APHA 24th Ed. 4500-NO3- B	45	No relaxation	5.5	7.2	8.2	8.4	8.9	7.1	8.2	6.9	6.5	8.4
17	Free Residual Chlorine	mg/L	APHA 24th Ed. 4500-Cl B	0.2	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18	Chloride	mg/L	APHA 24th Ed. 4500 Cl A+B	250	1000	27	38	59.9	99	48	32.4	38	32	42	82.3
19	Boron	mg/L	APHA 24th Ed. 4500 B A+C	0.5	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
20	Copper	mg/L	APHA 24th Ed. 3111 A+B	0.05	1.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05
21	Cadmium	mg/L	APHA 24th Ed. 3111 A+B	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
22	Iron	mg/L	APHA 24th Ed. 3500 Fe B	0.3	No relaxation	0.23	0.24	0.24	0.27	0.17	0.24	0.21	0.24	0.29	0.29
23	Lead	mg/L	APHA 24th Ed. 3111 A+B	0.01	No relaxation	<0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01
24	Nickel	mg/L	APHA 24th Ed. 3111 A+B	0.02	No relaxation	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
25	Zinc	mg/L	APHA 24th Ed. 3111 A+B	5	15	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
26	Mercury	mg/L	APHA 24th Ed. 3112 A+B	0.001	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
27	Total Chromium	mg/L	APHA 24th Ed. 3111 A+B	0.05	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
28	Arsenic	mg/L	APHA 24th Ed. 3114 B	0.01	0.05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
29	Fluoride	mg/L	APHA 24th Ed. 4500-C	1	1.5	0.32	0.18	0.18	0.15	0.31	0.17	0.11	0.12	0.16	0.88
30	Phenolic Compound	mg/L	APHA ED-5530 C	0.001	0.002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
31	Total Coliform Count	MPN/100 ML	APHA 24th Ed. 9221 B		ectable in any 100	0	0	0	0	0	0	0	0	0	0
32	E-Coli	MPN/100 ML	APHA 24th Ed. 9221 G	ml si	ample	0	0	0	0	0	0	0	0	0	0

M/s JSW Cement Limited at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) GROUND WATER ANALYSIS REPORT (August 2024, Monsoon Period) FOR KOLKARHIYA LIMESTONE MINE (CORE AND BUFFER ZONE)

M/s JSW Cement Limited

S. No.	Test Parameters	Unit	Method of Test	Limit as per IS:2296	Result O	btained
				Class A	Bearma River	Sonar River
1	pН	-	APHA 4500-H+	6.0-9.0	7.84	7.48
2	Colour	Hazen	APHA 2120-B	300	20	12
3	Turbidity	NTU	APHA 2130-A+B	-	<1.0	<1.0
4	Total Dissolved Solid (TDS)	mg/L	APHA 2540-C	1500	520	468
5	Total Suspended Solid (TSS)	mg/L	APHA (2540-D)	100	28.4	23.5
6	Alkalinity	mg/L	APHA 2320-A+ B	-	205	235
7	Total Hardness	mg/L	APHA 2340 A+C	-	231	168
8	Dissolve Oxygen (DO)	mg/L	APHA 4500:(0)-C	4 (Min.)	6.2	6.8
9	Bilogical Oxygen Demand (BOD 3 days 27∘C)	mg/L	IS: 3025 (Part-44)	3	2.9	2.4
10	Chemical Oxygen Demand as COD	mg/L	APHA (5220-B)	250	64	65
11	Chloride, Cl	mg/L	APHA 4500:(Cl-)-B	600	49	53
12	Fluoride, (F)	mg/L	APHA 4500:(F-)-D	1.5	0.36	0.36
13	Sulphate, SO4	mg/L	APHA 4500:(SO4)-E	400	32.40	31.5
14	Phenolic Compound, (C6H5OH)	mg/L	АРНА 5530-С	0.005	<0.01	<0.01
15	Oil & Grease, (0 & G)	mg/L	APHA 5520-D	0.1	BDL	BDL
16	Nitrate, (NO3)	mg/L	APHA 4500:(NO3-)-B	50	10.6	9.4
17	Arsenic, (As)	mg/L	APHA 3120B	0.2	< 0.01	< 0.01
18	Copper, (Cu)	mg/L	APHA 3120B	1.5	< 0.01	< 0.01
19	Iron, (Fe)	mg/L	APHA 3120B	0.5	0.42	0.32
20	Zinc, (Zn)	mg/L	APHA 3120B	15	< 0.05	< 0.05
21	Cadmium, Cd)	mg/L	APHA 3120B	0.01	< 0.01	< 0.01
22	Chromium, (Cr+6)	mg/L	APHA 3500:(Cr)-B	0.05	< 0.01	< 0.01
23	Lead, (Pb)	mg/L	APHA-3120B	0.1	< 0.01	< 0.01
24	Mercury (HG)	mg/L	APHA-3112A+B	-	< 0.01	< 0.01
25	Total Coliform Count	MPN/100 ml	APHA 9221 B	5000	1110	750
26	Faecal Coliform	MPN/100 ml	APHA 9221 E	-	380	420

at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) Surface water analysis report (**August 2024, Monsoon Period**) for kolkarhiya limestone mine

M/s JSW Cement Limited

S. No.	Test Parameters	Unit	Method of Test	Limit as per IS:2296	Result 0	btained
5. NO.	Test Parameters	Unit	Method of Test	Class A	Marwa Nallah	Gehra Nallah
1	рН	-	APHA 4500-H+	6.0-9.0	7.23	7.45
2	Colour	Hazen	APHA 2120-B	300	26	16
3	Turbidity	NTU	APHA 2130-A+B	-	<1.0	<1.0
4	Total Dissolved Solid (TDS)	mg/L	APHA 2540-C	1500	563	567
5	Total Suspended Solid (TSS)	mg/L	APHA (2540-D)	100	29.4	26.4
6	Alkalinity	mg/L	APHA 2320-A+ B	-	295	220
7	Total Hardness	mg/L	APHA 2340 A+C	-	361	145
8	Dissolve Oxygen (DO)	mg/L	APHA 4500:(0)-C	4 (Min.)	6.4	5.6
9	Bilogical Oxygen Demand (BOD 3 days 27°C)	mg/L	IS: 3025 (Part-44)	3	3.6	3.2
10	Chemical Oxygen Demand as COD	mg/L	APHA (5220-B)	250	88	64
11	Chloride, Cl	mg/L	APHA 4500:(Cl-)-B	600	126	46
12	Fluoride, (F)	mg/L	APHA 4500:(F-)-D	1.5	0.68	0.32
13	Sulphate, SO4	mg/L	APHA 4500:(SO4)-E	400	39.50	35.3
14	Phenolic Compound, (C6H5OH)	mg/L	АРНА 5530-С	0.005	<0.01	<0.01
15	Oil & Grease, (0 & G)	mg/L	APHA 5520-D	0.1	BDL	BDL
16	Nitrate, (NO3)	mg/L	APHA 4500:(NO3-)-B	50	11.5	9.3
17	Arsenic, (As)	mg/L	APHA 3120B	0.2	< 0.01	< 0.01
18	Copper, (Cu)	mg/L	APHA 3120B	1.5	< 0.01	< 0.01
19	Iron, (Fe)	mg/L	APHA 3120B	0.5	0.38	0.38
20	Zinc, (Zn)	mg/L	APHA 3120B	15	<0.05	< 0.05
21	Cadmium, Cd)	mg/L	APHA 3120B	0.01	< 0.01	< 0.01
22	Chromium, (Cr+6)	mg/L	APHA 3500:(Cr)-B	0.05	< 0.01	< 0.01
23	Lead, (Pb)	mg/L	APHA-3120B	0.1	< 0.01	< 0.01
24	Mercury (HG)	mg/L	APHA-3112A+B	-	< 0.01	< 0.01
25	Total Coliform Count	MPN/100 ml	APHA 9221 B	5000	1600	920
26	Faecal Coliform	MPN/100 ml	APHA 9221 E	-	920	560

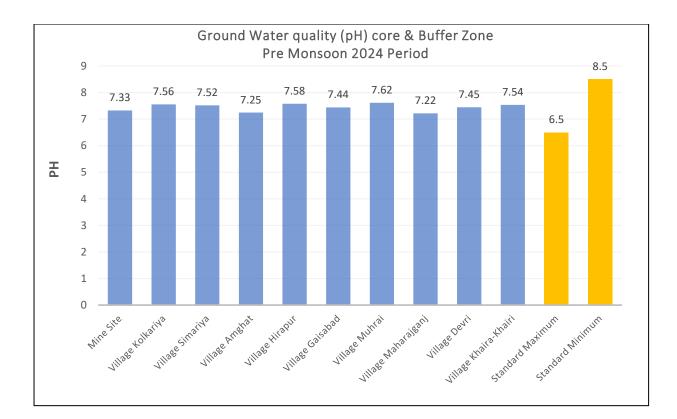
at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) Surface water (Seasonal Nallah) analysis report (**August 2024, Monsoon Period**) for kolkarhiya limestone mine

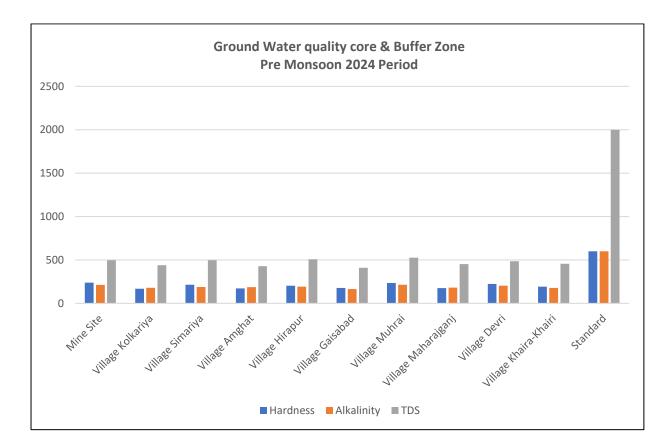
M/s Springway Mining Private Limited

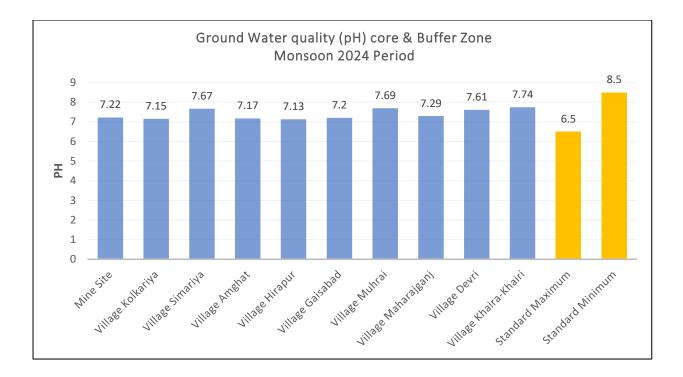
at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.)

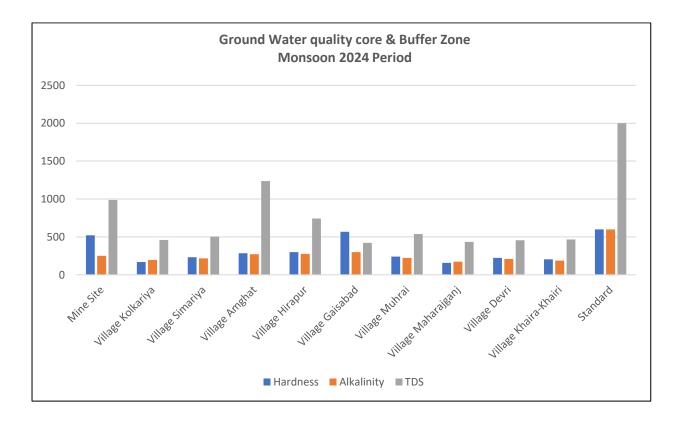
QUARTERLY SURFACE WATER FLOW RATE MONITORING REPORT OF KOLKARHIYA LIMESTONE MINE BUFFER ZONE

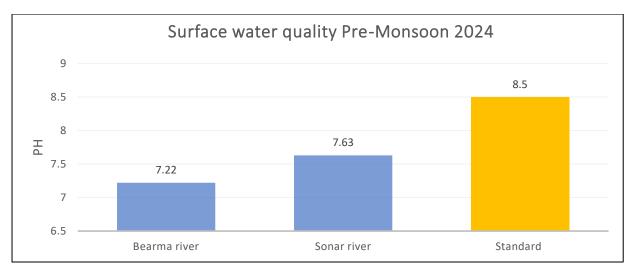
Sr No	Location	Parameters	Unit	Results				
Sr.No.	Location	Parameters	Onit	Jul-24	Aug-24	Sep-24		
1	Sonar River upstream			621.5	226.7	221.2		
2	Sonar River downstream		m³/sec	587.2	208.5	203.1		
3	Bearma River upstream	Flow rate		567.3	284.3	275.3		
4	Bearma River downstream	riowrate		543.3	262.5	259.3		
5	Seasonal Nallah Gahra			Dry	115.2	Dry		
6	Seasonal Nallah Marwa			Dry	105.3	Dry		

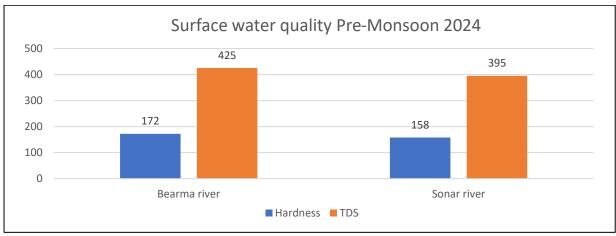


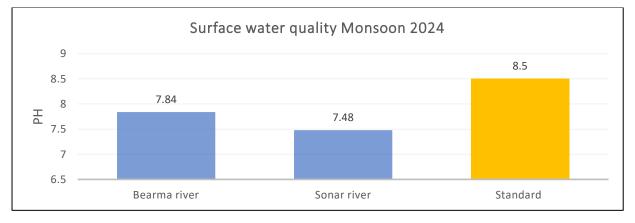


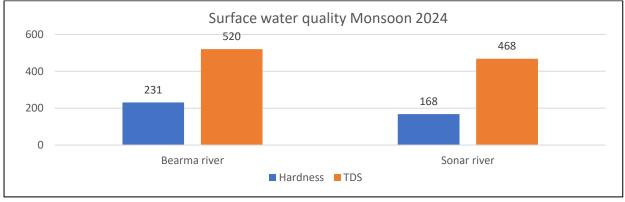


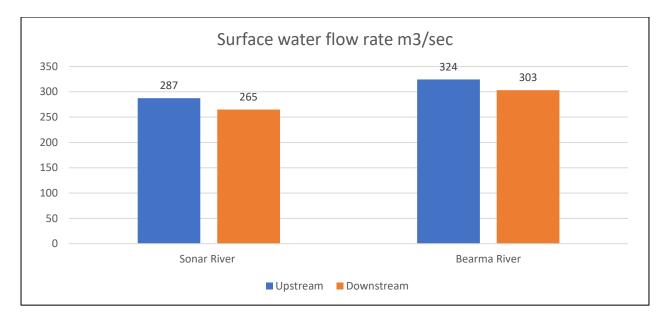


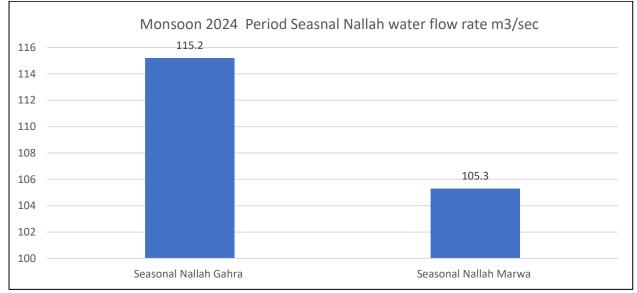












Annexure-9

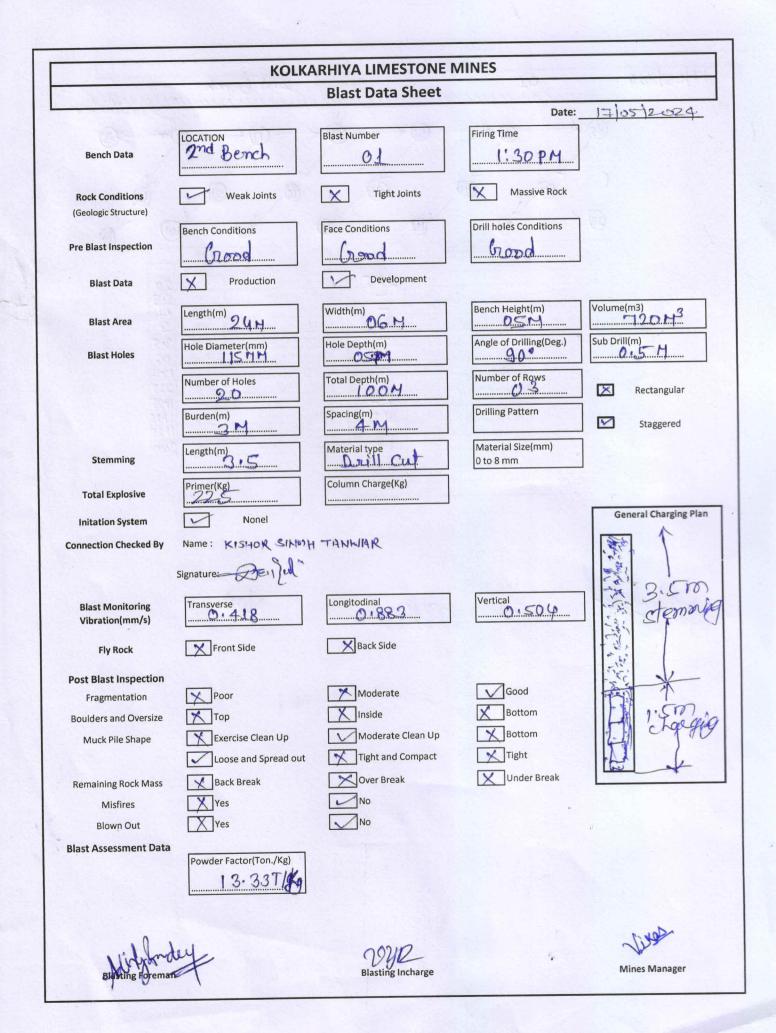


Rainwater Harvesting in Mine Pit



Rainwater Harvesting in Garland Drain

Annexure-10



		KOLKARH	IYA LIMES		-		-	-	
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	S.NO	EXPLOSIVE	UOM	QUANTITY		DESCRRIPTION	UOM	T	
	1	Solar	Kg	225		No. of Holes	Nos.	20	
	2	Primex	Kg	-		Depth of Holes	mtr	5.5	
	3	Kelamboost	Kg	-		Spacing	mtr	4	
	4	ANFO	Kg	1-0		Burden	mtr	3	
	5	DF	mtr			Stemming Height	mtr	3.5	
015 P	6	ED	Nos	01		No. of Row	Nos.	03	
	7	DTH 10m	Nos	-		Powder Factor	Ton/Kg	13:33	
	8	DTH 9m	Nos	11-51		Total Charge	Kg	225	
	9	DTH 6m	Nos	22		Charge/Hole	Kg	11-25	
	10	TLD 3/17	Nos	as.		Charge/Delay(Q)	Kg	11.25	
	11	TLD 4/17	Nos	-12		Charge/Delay(Q MAX.)	Kg	1125	
	12	TLD 3/25	Nos	17		Rock Generation		3000	
	13	TLD 4/25	Nos			1.1.245		10000	
	14	TLD 3/42	Nos	03					
	15	TLD 4/42	Nos	-					

eman

Blasting Incharge

Vivas Mines Manager

SETIM



Event Report

Trigger Sour Range Record Time Job Number: Operator/Set	rce Geo: 0.200 r Geo: 254.0 r 3.0 sec at 20	mm/s 048 sps			Serial Number Battery Level Unit Calibration File Name Scaled Distance	TEMP.EVT	023 by UES N			
GPS Location		Longitude				DGM	S India (A)			
Sens	sor1: 024 16.21				254	Permissible	Ground Vib	ration	_	+
Notes Location: Client:	ance: 303.1 m Kolkarhiya Limest SMPL (A Unit of J SMPL (A Unit of J Limestone Mine	SW Cement Ltd.)			200- 100- 50-	No velocity	y above 1.0 m	ım/s		
Extended No	otes			(s/u	+					a
Microphone PSPL ZC Freq	Linear Weightir 98.30 dB(L) at 2 4.4 Hz			Velocity (mm/s)	20		[b
	t Passed (Freq =	= 20.5 Hz Amp =	1259 mv)	eloc	10					- <u>+</u> e
	Tran	Vert Long		>	5					‡
PPV ZC Freq Time (Rel. to Peak Acceler Peak Displac Sensor Chec	cement 0.010	0.883 0.504 4.6 8.3 0.359 1.494 0.026 0.010 0.028 0.009 Passed Passed	3 Hz 4 sec 0 g 9 mm		2					+
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	Sum 0.970 mm/s					Freq Tran: + \ a)Industr b)Domestic h	uency (Hz) /ert: × Long: ial Buildings ouses/structu	Ø		
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Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Trigger =

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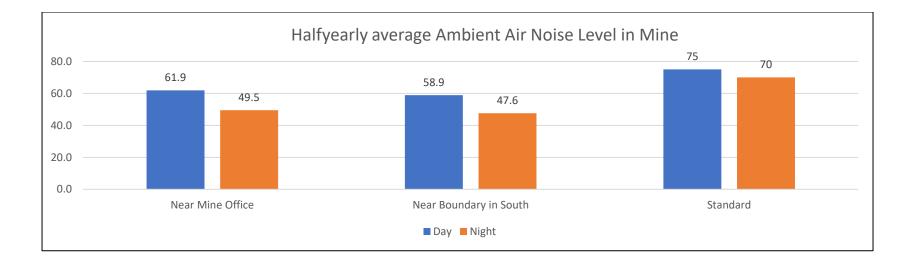
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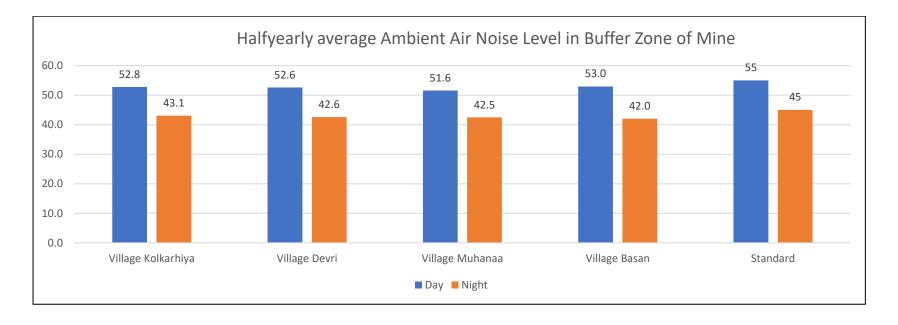
M/s Springway Mining Private Limited

at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.)

QUA	ARTERLY AMBIENT AIR NOISE		Y MONITOR	RING REPORT	FOR KOL	_KARHIYA LIM	ESTONE N	MINE (CORE A	AND BUFFE	R ZONE)
					Noise Le	evel (Mine)			Limit (Ind	ustrial area)
Sr.No.	Location Core Zone	Unit	A	or-24	M	ay-24	Ju	ın-24		ustrial area)
51.100.		Onit	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
1	Near Mine Office/Mine Site	dB(A)	60.2	49.7	61.5	48.2	62.4	47.9	75	70
2	Near Boundary in South	dB(A)	59.5	48.3	58.9	47.9	59.1	47.5	/5	70
	Location Buffer Zone		Noise Level (Village)						Limit (Residential area)	
	Location Burler Zone	Unit	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
3	Village Kolkarhiya	dB(A)	52.3	42.8	51.9	41.5	52.8	42.8		
4	Village Devri	dB(A)	51.6	43.1	52.2	41.9	53.4	41.2		45
5	Village Muhanaa	dB(A)	50.2	41.3	50.1	40.8	51.7	42.5	55	45
6	Village Basan	dB(A)	53.8	42.4	52.8	41.2	56.4	41.5		

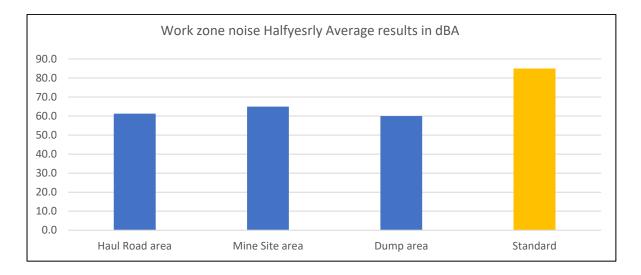
Sr.No.	Location Core Zone	Unit	LITY MONITORING REPORT FOR KOLKARHIYA LIMESTONE MINE (CORE Noise Level (Mine)							,	
			Jul-24		Aug-24		Sep-24		Limit (Industrial area)		
			Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	
1	Near Mine Office	dB(A)	63.7	50.2	62.5	49.5	61.2	51.3	75	70	
2	Near Boundary in South	dB(A)	60.3	48.6	59.4	44.7	56.2	48.7			
	Location Buffer Zone		Noise Level (Village)						Limit (Residential area)		
		Unit	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	
3	Village Kolkarhiya	dB(A)	53.7	43.4	54.3	42.6	51.6	45.3	- 55	45	
4	Village Devri	dB(A)	51.3	41.6	52.4	43.4	54.6	44.3			
5	Village Muhanna	dB(A)	53.6	44.2	52.6	43.4	51.2	42.5			
6	Village Basan	dB(A)	52.5	42.6	51.6	43.3	50.6	41.2			





QUARTERLY WORK ZONE NOISE QUALITY MONITORING REPORT FOR KOLKARHIYA LIMESTONE MINE								
Sr No	Location	Unit	Work-	Limit				
Sr.No.			April-24	May-24	June-23	Limit		
1	Haul Road area	dB(A)	63.5	65.2	62.8			
2	Mine Site area	dB(A)	65.1	66.8	64.5	85 dB (Max)		
5	Dump area	dB(A)	62.7	64.2	61.9			

QUARTERLY WORK ZONE NOISE QUALITY MONITORING REPORT FOR KOLKARHIYA LIMESTONE MINE								
Sr.No.	Location	Unit	Work-z	zone Noise	Limit			
51.NO.	Location		July-24	Aug-24	Sep-24	Linit		
1	Haul Road area	dB(A)	60.4	59.4	56.2			
2	2 Mine Site area		65.3	64.3	63.7	85 dB (Max)		
5	Dump area	dB(A)	58.6	57.5	55.1			





Photographs of Kolkarhiya Limestone Mine FY 2022-23 Plantation Status

Plantation Photographs of Kolkarhiya Limestone Mine FY 2023-24

