

SMPL/ENV/Mine/EC/2023/2

Through E. Mail

Date: 06.11.2023

To,

The Addl. Principal Chief Conservator of Forest,
Regional Office (WZ), 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 Compliance Report for the period: April-2023 to September-2023 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 – Kolkarihiya, 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,

Kindly refer to the above subject matter and refer above EC letter no., please find attached herewith compliance of EC for the period of **April 2023 to September 2023 and the same has been uploaded on MoEFCC portal.**

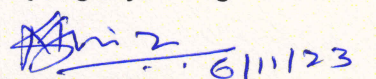
As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the soft copy of same has been sent through email to tg035.ifs@nic.in, moef@nic.in, ccb.cpcb@nic.in, cpcb.bhopal@gov.in, monitoring-ec@nic.in, chairman-mppcb@mp.gov.in, ms-mppcb@mp.gov.in, romppcb_sagar@rediffmail.com

We hope you will find the same in order.

Thanking You,

Yours faithfully,

For Springway Mining Pvt. Ltd.


(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
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-CUM office complex, East Arjun Nagar, New Delhi 110032. Email: ccb.cpcb@nic.in
3. The Regional Director, Central Pollution Control Board Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016. Email: cpcb.bhopal@gov.in
4. The Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016. Email: chairman-mppcb@mp.gov.in
5. The Member Secretary, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016. Email: ms-mppcb@mp.gov.in
6. The Regional Officer, Regional Office, Madhya Pradesh State Pollution Control Board, Din Dayal Nagar, Housing Board Colony, Sagar (MP). Email: romppcb_sagar@rediffmail.com

Form for Uploading Six Monthly Compliance Report

Proposal Details

Proposal No.	IA/MP/MIN/273 04/ 2015	Project Name	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	A	MoEF File No.	J-11015/114/2015-IA. II (M) dated 18th Feb, 2022
Name of the Entity / Corporate Office*	M/s. Springway Mining Private Limited, Chennai, Tamil Nadu-600028		
Entity's PAN*	AAPCS9007H		
Entity Name as per PAN	SPRINGWAY MINING PRIVATE LIMITED		

Compliance Letter/Report

Reporting Year*	2023	Reporting Period*	April-2023 to September-2023
Remarks (if any)	Submitting herewith the Six-Monthly EC Compliance Report for the period: April-2023 to Sept-2023 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.		

Details of Production and Project Area

Date of Commencement of Project /Activity: *	21/03/2022	Project Area as Per EC Granted (In Case of Mine Lease): *	499.641 ha.
Actual Project Area (In Case of Mine Lease): *	499.641 ha.		

PRODUCTION CAPACITY

Name of the Product*	Units*	As per EC granted*	Production during last financial year: (2022-23) *
Limestone	Million TPA	4.0	0.000372
Top Soil	Million TPA	1.57	0.00039837
OB	Million TPA	6.51	0.00169467
Mineral Reject	Million TPA	2.03	0.0
Total Excavation Quantity	Million TPA	14.11	0.00246504

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-2023 to September-2023

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.	Condition Type	Condition Details	Self Declaration	Remarks / Reason																											
i	Public Hearing	The budget of Rs 4.5 Crores to address the concerns raised by the public during the public hearing to be completed within 3 years from the date of start of mining operations.	Agreed to complied	<p>The Mines commencement on 21.03.2022 and is in development stage. Public hearing raised issues will be addressed as per submitted time bound action plant within 3 year from the date of start of mining operation. Status of Budget expenditure (Rs. 22.23 Lakh) up to September 2023 is given below and please refer Annexure-1 for Photographs of the activities.</p> <table border="1"> <thead> <tr> <th>Sr.No.</th><th>Focus Area</th><th>Activities</th><th>No. of beneficiaries</th><th>Budget Spent in Rs.</th></tr> </thead> <tbody> <tr> <td>1</td><td rowspan="4">Health</td><td>Eye Camp at Kolkarhiya Village</td><td>103</td><td>60,875</td></tr> <tr> <td>2</td><td>General Health Camp at Kolkarhiya Village</td><td>155</td><td>35,476</td></tr> <tr> <td>3</td><td>Eye Camp at Devri Village</td><td>97</td><td>67,178</td></tr> <tr> <td>4</td><td>General Health Camp at Devri Village</td><td>144</td><td>34,303</td></tr> <tr> <td>5</td><td>Education</td><td>Ditribution of Education Kits in Kolkarahiya, Devri, Raikra and Kuluwa</td><td>424</td><td>2,96,800</td></tr> </tbody> </table>	Sr.No.	Focus Area	Activities	No. of beneficiaries	Budget Spent in Rs.	1	Health	Eye Camp at Kolkarhiya Village	103	60,875	2	General Health Camp at Kolkarhiya Village	155	35,476	3	Eye Camp at Devri Village	97	67,178	4	General Health Camp at Devri Village	144	34,303	5	Education	Ditribution of Education Kits in Kolkarahiya, Devri, Raikra and Kuluwa	424	2,96,800
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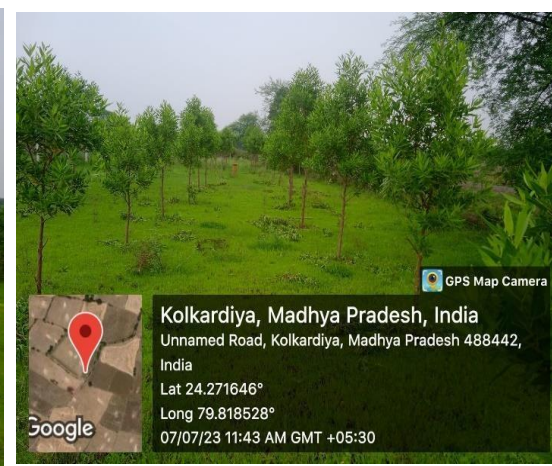
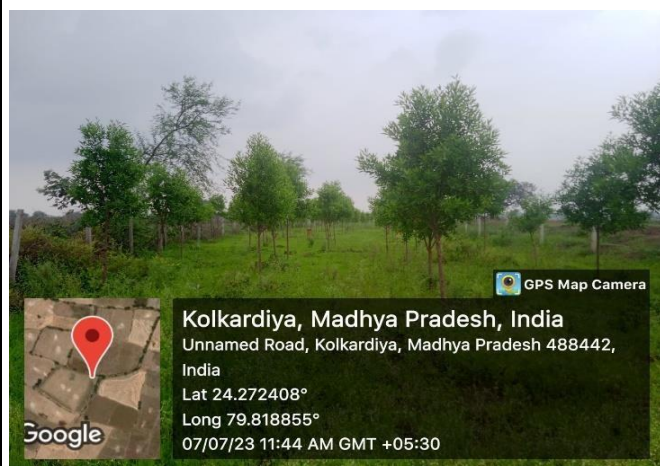
				<table> <tr> <td>6</td><td>Sports & Culture</td><td>Payment to Panna Collector-Towards celebration of Gaurav Diwas on the occasion of Chatrsal Jayanti</td><td>-</td><td>2,00,000</td></tr> <tr> <td>7</td><td>Water</td><td>Borewell & 2 Hand Pump Installation (Kolkarahiya & Raikra Villages) & One Borewell and motorized system setup at Devri Village</td><td>200</td><td>2,73,995</td></tr> <tr> <td>8</td><td>Plantation</td><td>2500 Plantation and tree guard installation in Schools and Mine area</td><td></td><td>9,18,500</td></tr> <tr> <td>9</td><td>Rural Infrastructure</td><td>Installation of 20 Street Solar lights at Village Kolkarhiya, Devri, Rekra and Kuluwa</td><td>5375</td><td>3,36,620</td></tr> <tr> <td colspan="4">Total</td><td>22,23,747/-</td></tr> </table>	6	Sports & Culture	Payment to Panna Collector-Towards celebration of Gaurav Diwas on the occasion of Chatrsal Jayanti	-	2,00,000	7	Water	Borewell & 2 Hand Pump Installation (Kolkarahiya & Raikra Villages) & One Borewell and motorized system setup at Devri Village	200	2,73,995	8	Plantation	2500 Plantation and tree guard installation in Schools and Mine area		9,18,500	9	Rural Infrastructure	Installation of 20 Street Solar lights at Village Kolkarhiya, Devri, Rekra and Kuluwa	5375	3,36,620	Total				22,23,747/-
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ii	Statutory compliance	The Project Proponent shall implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the central/state Government, as provided under the law.	Complied	Noted, till date we have purchased 148.71 ha (Govt land 1.66 ha and Private 147.05 ha) and Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs is being done as per the policy and guidelines of the central/state Government, as provided under the law.																									
iii	Statutory compliance	The Project Proponent must ensure that the Garland drains created to protect entry of water from river into 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 pollutants from the mine area	Complied	<p>Excavation of pit 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.</p> <p>Photographs of protected Garland drain and siltation pond by wire fencing along pit area and Photographs of bund under development along proposed excavation area is</p>																									

		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.		enclosed as annexure-2 .
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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.	Complied	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	Water quality monitoring and preservation	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.	Being 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.
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.

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 for protecting the wildlife.
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 .



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. <ul style="list-style-type: none"> Top soil will only be stored at earmarked site(s) and the soil will be used for plantation and land reclamation. Pre-employment medical checkup is being carried out. Please refer annexure-4 for medical checkup reports.
x	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 27.09.2021. Copy of NOC is already submitted through EC compliance report for the period Oct-2022 to March-2023 dated 20.05.2023 .

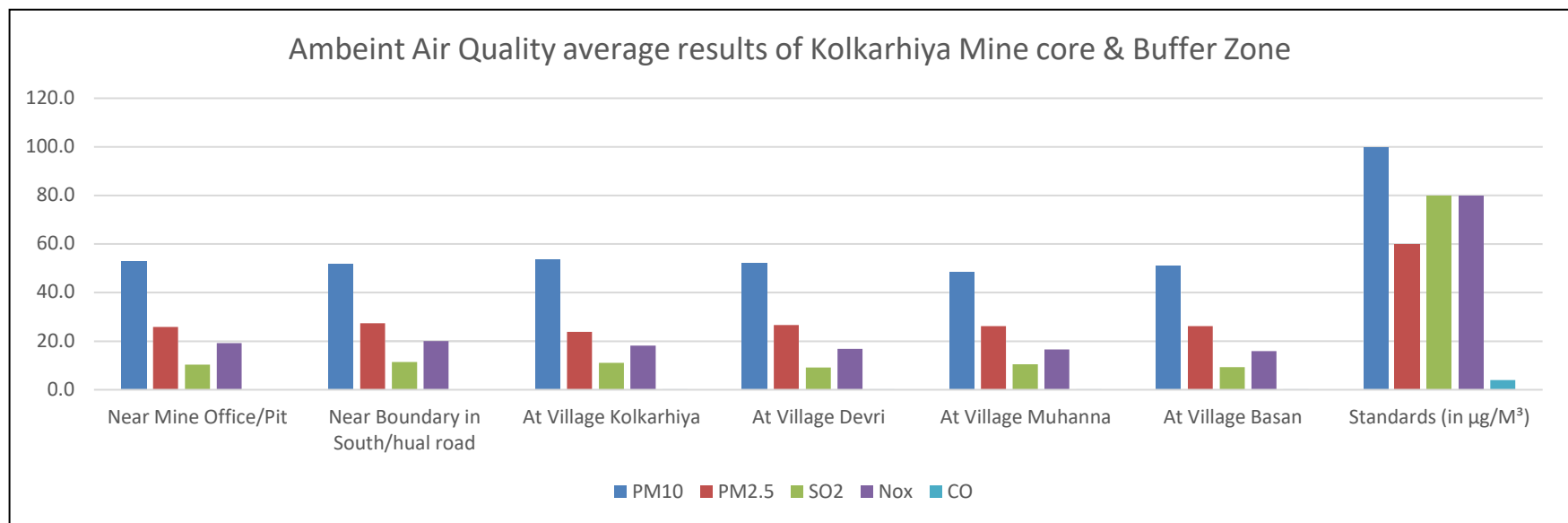
	STANDARDS CONDITIONS:
I.	Statutory Compliance

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	<p>Unit has taken the following measures to reduces the impact of mining activities on habitations: -</p> <ul style="list-style-type: none"> • Garland drain constructed, • Siltation pond facilitated, • Regular water spray on haul road is being done, • Company own road used for limestone transportation, and • Carried out dense plantation. <p>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.</p> <ul style="list-style-type: none"> • Rainwater collected in mine pit will be supplied to nearby villagers during the lean period.

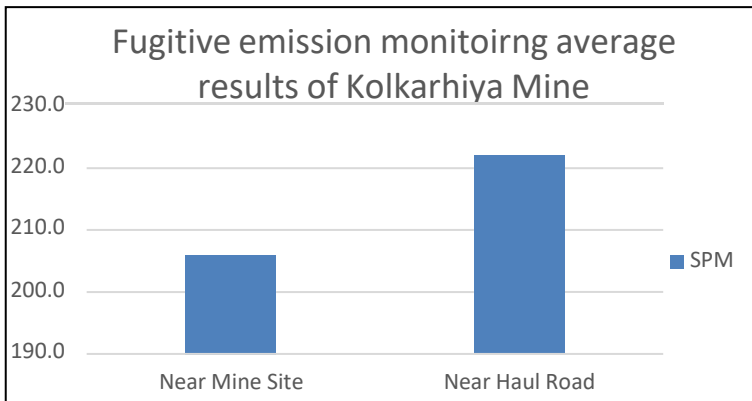
				<ul style="list-style-type: none"> • After installation of Mask light, it will be kept in off mode during night period, • Control blasting will be implemented after getting the permission of Blasting. • No village road will be used for transportation of mineral.
5	Statutory compliance	A copy of EC letter 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 Kolkariya, 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 letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/ Committee and web site of the Ministry of Environment, Forest and Climate Change (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	Complied	Noted, If any change in ownership of mining, will be intimated to the ministry.

		transfer of EC as per provisions of the para 11 EIA Notification, 2006 as amended from time to time.		
II.	Air Quality Monitoring and Preservation			
9)	Air Quality Monitoring and Preservation	<p>The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Station with 1 (One in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the mine Gate of the mine site.</p>	Agreed to Complied	<ul style="list-style-type: none"> • The Mines EC is granted on 18.02.2022 and Mining operation has been commenced on 21.03.2022, mine is in development stage. • Ambient air quality monitoring in core (Mine Site and Mine Boundary) and buffer zone (Village Kolkarhiya, Basan, Muhana, Rekra, Devri) is being carried out by MoEFCC approved laboratory. Six monthly average reports are enclosed as Annexure-5. <p>We are in the process of finalizing the technical quotation for installation of the CAAQMS system along with digital display board as per applicable guidelines and will be installed as early as possible.</p>

Ambient Air Quality average results of Kolkarhiya Mine core & Buffer Zone						
Sr.No.	Name of Location/Parameter	PM10	PM2.5	SO2	NOx	CO
1	Near Mine Office/Pit	53.0	25.9	10.4	19.2	0.2
2	Near Boundary in South/hual road	52.0	27.4	11.4	20.1	0.1
3	At Village Kolkarhiya	53.5	23.9	11.1	18.1	0.3
4	At Village Devri	52.2	26.7	9.2	16.9	0.2
5	At Village Muhanna	48.7	26.3	10.5	16.6	0.3
6	At Village Basan	51.1	26.2	9.4	16.0	0.2
7	Standards (in $\mu\text{g}/\text{M}^3$) & for CO mg/M ³	100	60	80	80	4

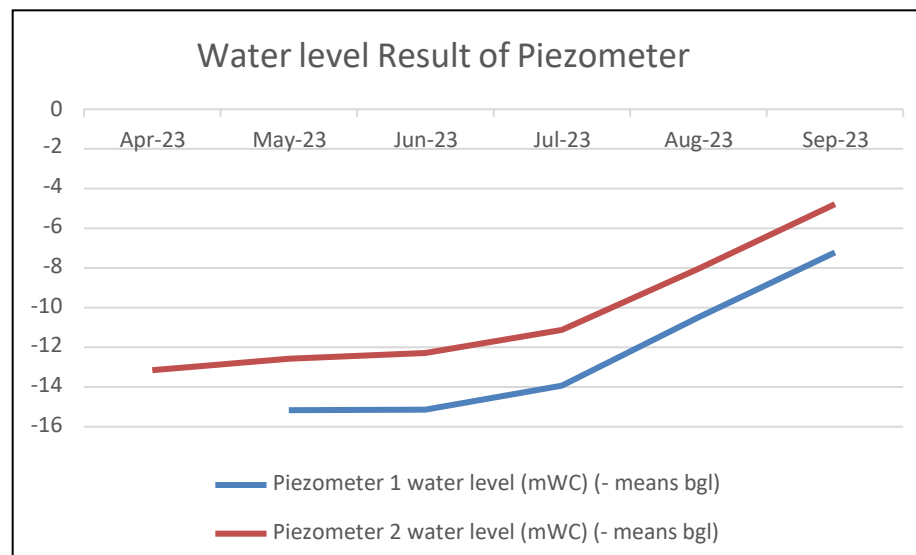


10)		Effective safeguard measure for prevention of dust generation and subsequent suppression (Like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources	Complied	<p>Following safeguard measures taken for prevention of dust generation: -</p> <ul style="list-style-type: none"> 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 well within the prescribed norms. Six monthly average Ambient air quality and fugitive emission monitoring reports for the period: April-23 to September-23 are enclosed as <u>Annexure-5</u>.
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		shall be regularly controlled by installation of required equipment's/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dusty control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/Central Pollution Control Board.		<p>In Addition to the above, 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.</p> <ul style="list-style-type: none">• 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 @ the source & during transportation. <table border="1"><caption>Fugitive emission monitoring average results of Kolkarhiya Mine</caption><thead><tr><th>Sr. No.</th><th>Name of Location/Parameter</th><th>SPM</th></tr></thead><tbody><tr><td>1</td><td>Near Mine Site</td><td>206.0</td></tr><tr><td>2</td><td>Near Haul Road</td><td>222.0</td></tr></tbody></table> 	Sr. No.	Name of Location/Parameter	SPM	1	Near Mine Site	206.0	2	Near Haul Road	222.0
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1	Near Mine Site	206.0											
2	Near Haul Road	222.0											
III.	Water Quality Monitoring and Preservation												
11)	Water Quality Monitoring and Preservation	In case, immediate mining scheme envisages intersection of ground water table, then Environment Clearance shall become operation only after receiving formal clearance from CGWA, In case, mining operation involves intersection of	Complied	NOC for intersection of ground water table has been obtained from CGWA vide letter no. CGWA/NOC/MIN/ORIG/2021/13119 dated 27.09.2021. Copy of NOC is already submitted through EC compliance report dated 20.05.2023 .									

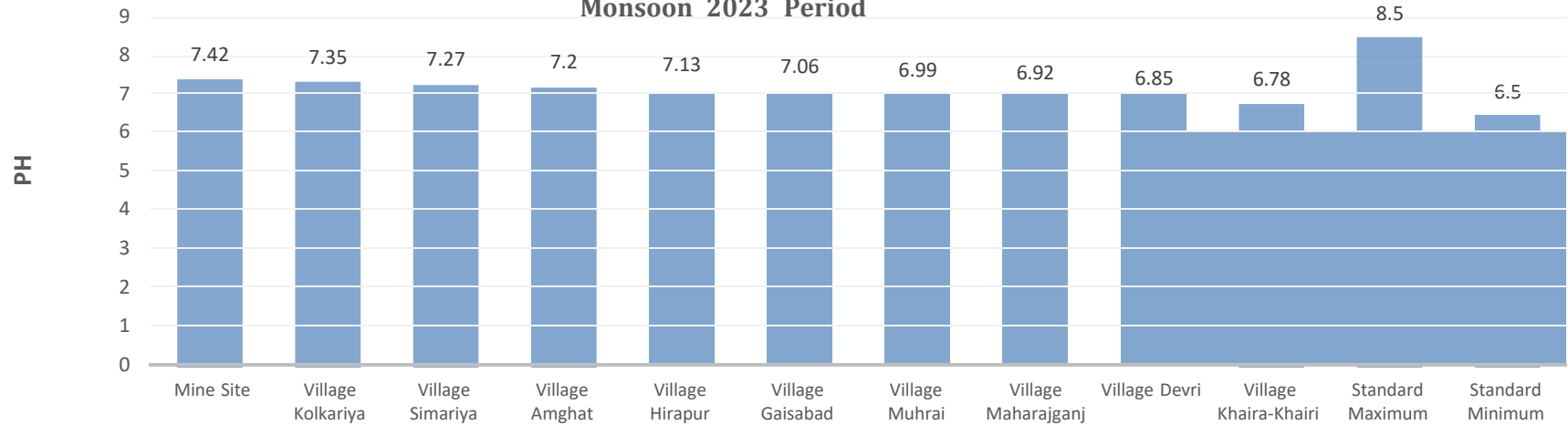
		ground water table at a later stage, than PP shall ensure that prior approval from CGWA and MoEFCC is in Place Before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.		
12)	Water Quality Monitoring and Preservation	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six- monthly basis to the Regional Office of the Ministry, CGWA and State Ground water Department / State Pollution Control Board.	Complied	<p>Regular monitoring of ground water level and quality is being carried out in and around the mining lease area as per the Environment Management Plan of approved Mining plan by establishing a network of existing wells in nearby 10 Villages.</p> <p>Unit has installed 1 no. of piezometers as per CGWA NOC for periodic monitoring of groundwater level and installed 1 DWLR (Digital Water Level Recorder) with telemetry system for online monitoring of ground water level.</p> <p>Detail ground water level monitoring report and quality for the period: April-23 to September-23 is enclosed as Annexure-6.</p>

Month	WATER LEVEL (mWC) (- means bgl)	
	Piezometer-1 (with telemetry)	Piezometer-2 (without telemetry)
April 2023	Out of Order	-13.159
May 2023	-15.17	-12.573
June 2023	-15.14	-12.29
July 2023	-13.93	-11.13
August 2023	-10.49	-8.04
September 2023	-7.22	-4.79

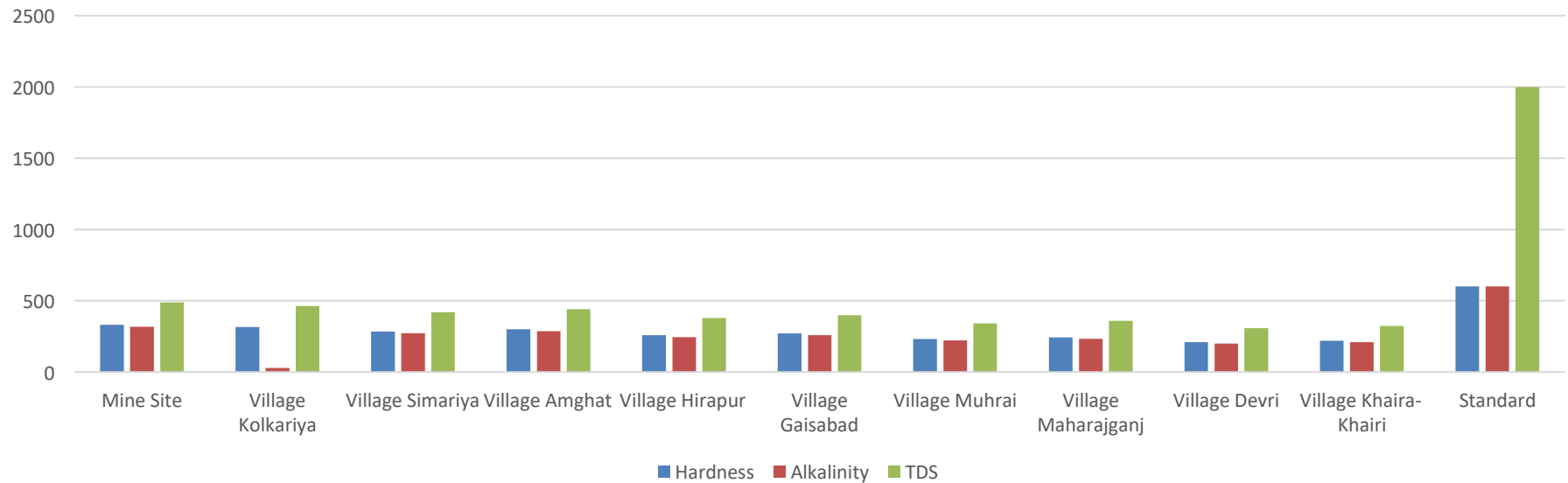


13)	Water Quality Monitoring and Preservation	<p>The Project Proponent shall undertake regular monitoring of natural water course/water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-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. pre – monsoon (April May), monsoon (August), post –monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional office, Central Ground water Authority and Regional Director, Central Ground water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.</p>	Complied	<ul style="list-style-type: none"> • 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-7 for analysis report for the period: Pre- monsoon and Monsoon. • 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 as given below: <ul style="list-style-type: none"> ❖ The ground water analysis for Core and Buffer zone stations shows that pH varied from 7.12 to 7.61 in pre-monsoon period while in Monsoon period pH was varied from 7.42 to 6.78. Total hardness was varied from 178 to 488 mg/l, alkalinity varied from 152 to 350 mg/l and total dissolved solids varied from 562 to 1536 mg/l in Pre-monsoon period while in Monsoon period total hardness was varied from 210 to 332 mg/l, alkalinity varied from 30 to 318 mg/l and total dissolved solids varied from 308 to 489 mg/l.
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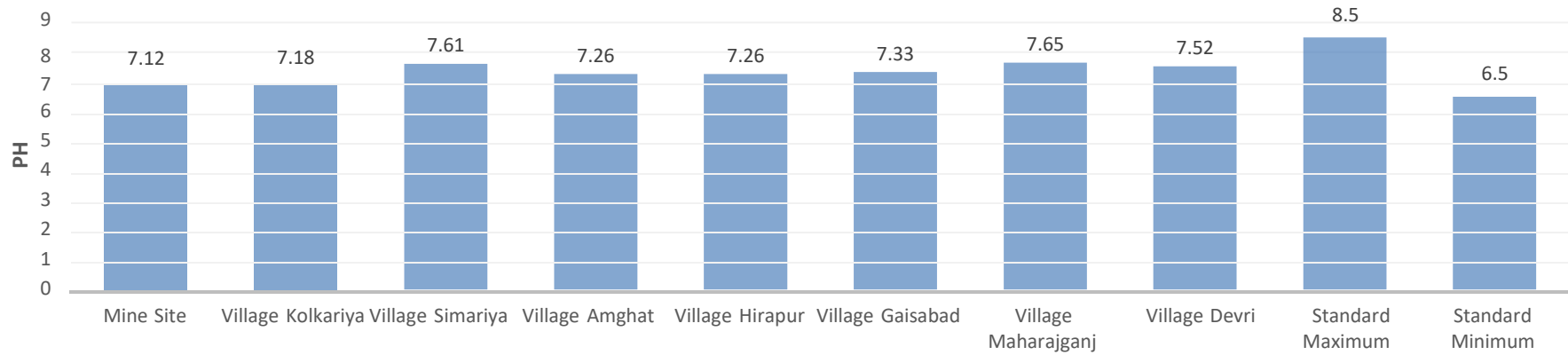
**Ground Water quality (pH) core & Buffer Zone
Monsoon 2023 Period**



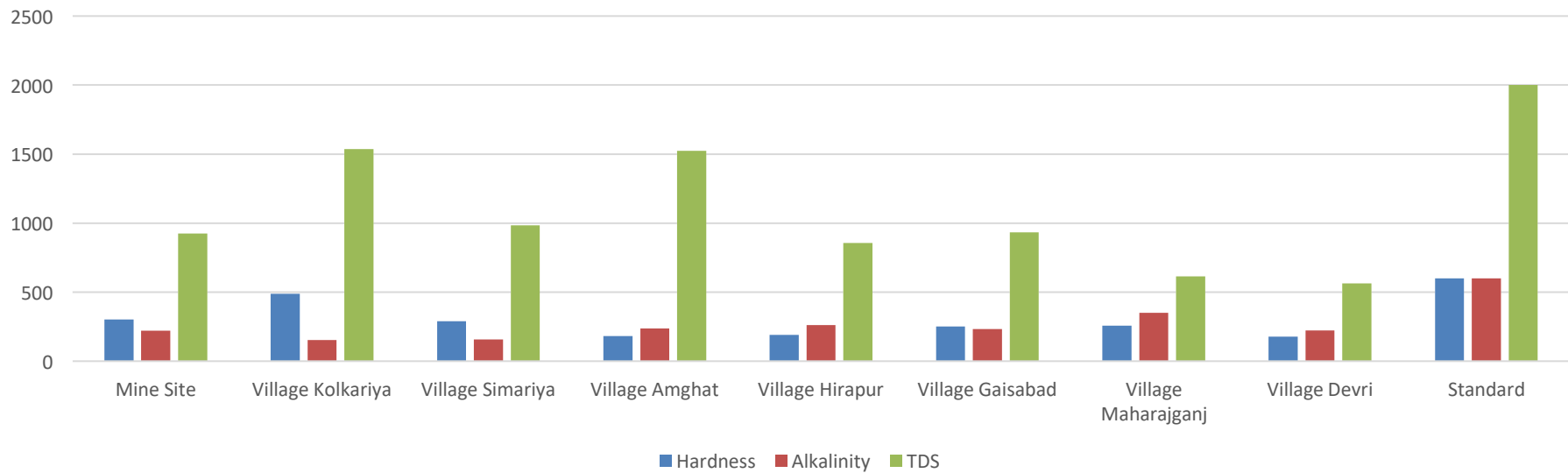
**Ground Water quality core & Buffer Zone
Monsoon 2023 Period**

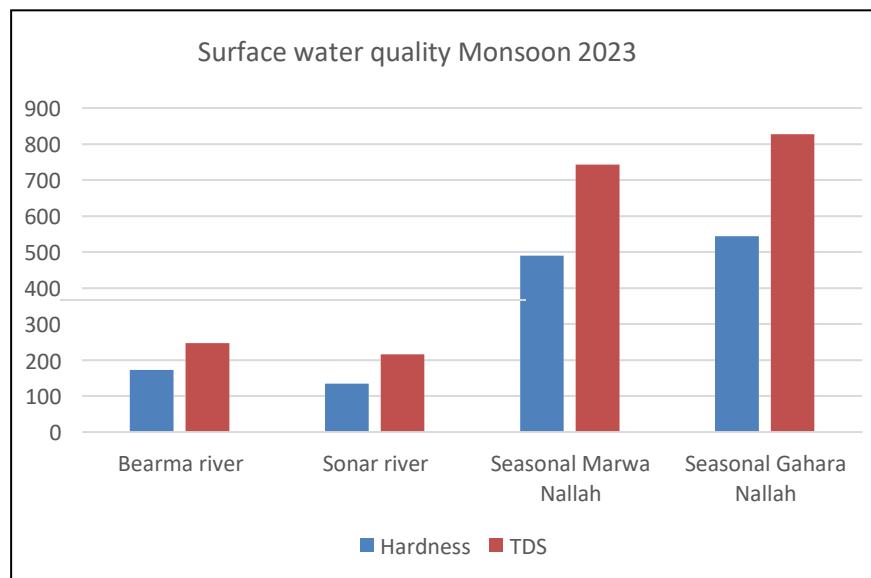
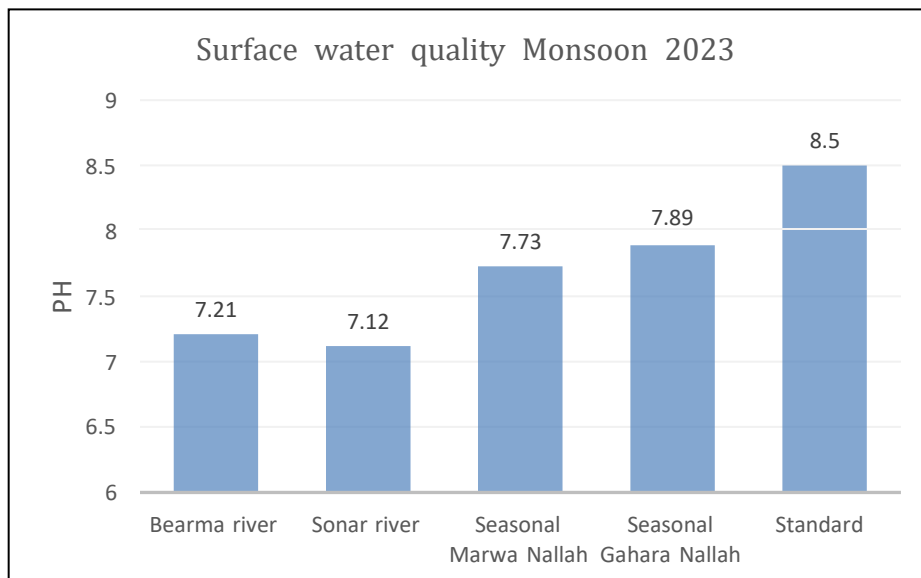
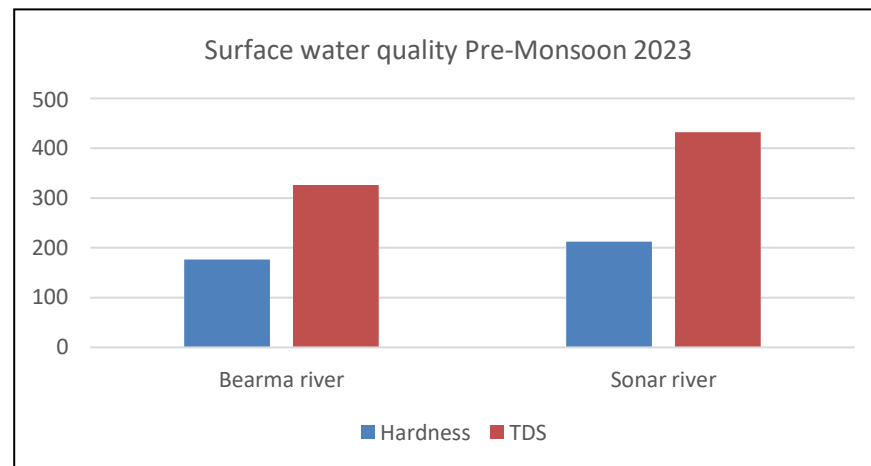
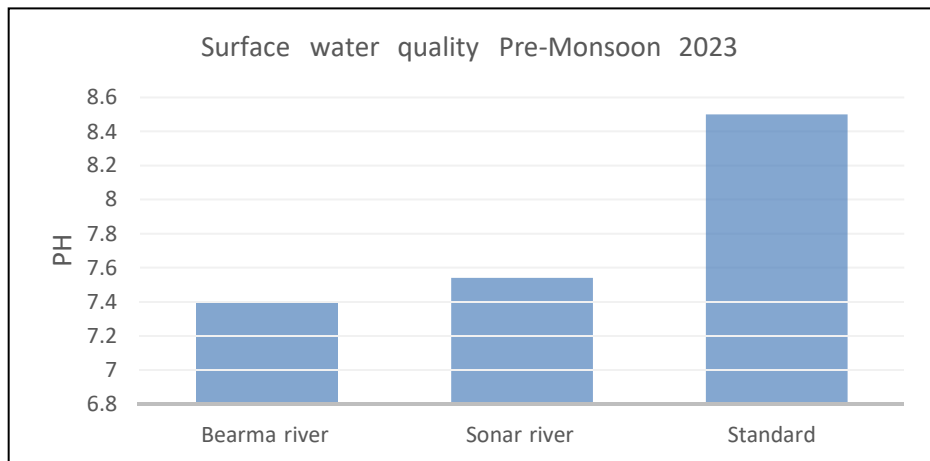


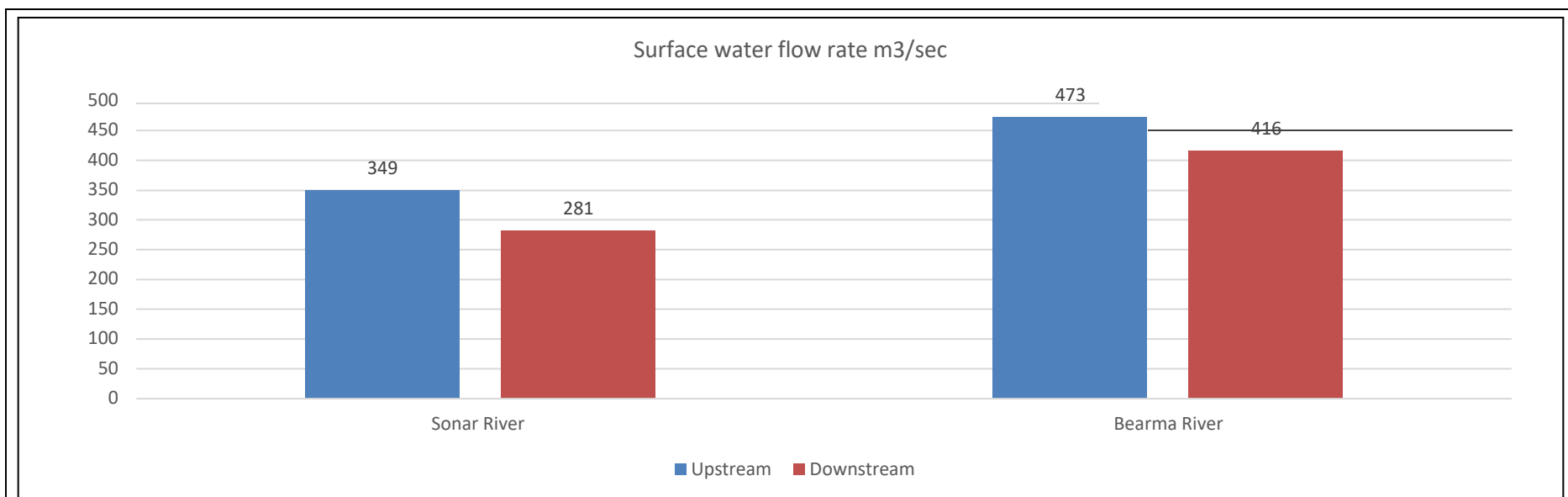
**Ground Water quality (pH) core & Buffer Zone
Pre-Monsoon 2023 Period**



**Ground Water quality core & Buffer Zone
Pre-Monsoon 2023 Period**







14)	Water Quality Monitoring and Preservation	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 Solis (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.	Agreed to Complied	<ul style="list-style-type: none"> 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)	Water Quality Monitoring and Preservation	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in	Complied	<ul style="list-style-type: none"> Rainwater harvesting pond has been developed in village Kolkarhiya to augment the water resources. Siltation pond and Garland drain has been constructed to augment water table.

		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.	<ul style="list-style-type: none"> Surface rain water is collected in the lower most benches to augment Ground water resources. <p>Photos of implemented rainwater harvesting measures i.e.: Mine pit, RWH pond, Garland drain and Siltation pond etc. are enclosed as <u>Annexure-8</u>.</p>
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Water Pond in Kolkardiya Limestone Mine
(Length 34-meter X Width 21-meter X Depth 3- meter)



Rainwater Harvesting in Mine Pit



Garland Drain



Siltation Pit-1



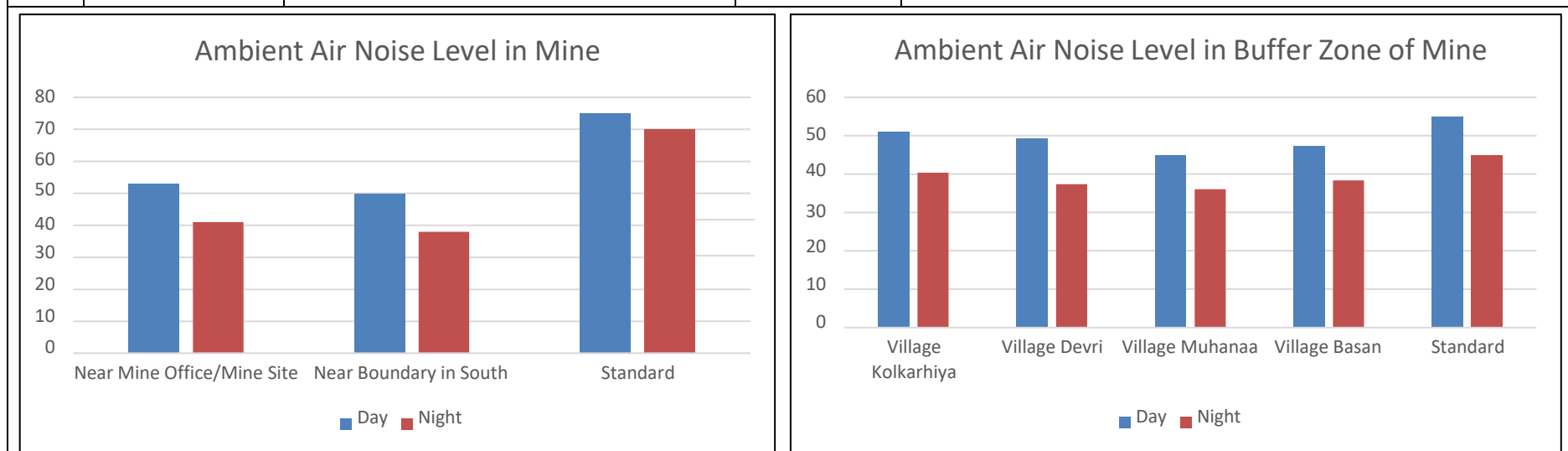
Siltation Pit-2



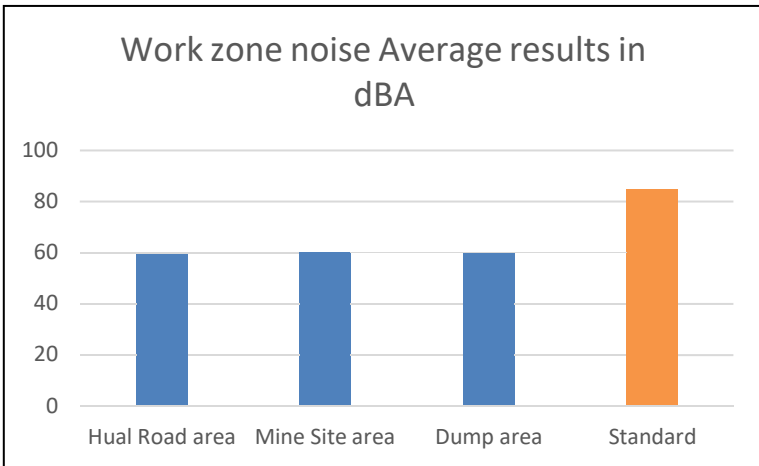
Bund along-with Mine Pit

16)	Water Quality 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 shall be treated after its initial Passage through oil and grease trap.	Complied	<ul style="list-style-type: none"> There is no industrial waste water is generated from the Mine operation. Workshop is yet to be installed. Workshop waste water will be passed through oil and grease trap and clear water is 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.
17)	Water Quality Monitoring and Preservation	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 complied	The Kolkarihiya Limestone Mine has been commenced w.e.f. 21.03.2022 and is in development stage. Till now we have not constructed Borewell hence ground water consumption is nil. However, water audit will be conducted once we start consuming/utilizing water
IV. Noise and Vibration Monitoring and Preservation				
18)	Noise and Vibration Monitoring and Preservation	The peak particle velocity at 500m distance or with the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Agreed to complied	<p>The Kolkarihiya 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.</p> <p>Blasting and magazine permission is obtained on 28.08.2023. PPV will be monitored periodically as we start blasting and following measures will be implemented at due course of time.</p> <ul style="list-style-type: none"> Blasting operation will be carried out in day time only. Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator for blasting will be used to mitigate vibration. Water injection system on DTH drill will be provided which suppresses dust at its source of generation.
19)	Noise and Vibration Monitoring and Preservation	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping	Complied	<ul style="list-style-type: none"> 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-23 to September-23 are

		disorders and stress may affect the health in the villages location close to mining operation. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed: by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day/night hours.		enclosed as Annexure-9 . Please refer below graph showing 2 nd Quarter Noise level results in Core zone as well as Buffer zone of Mine area.
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20)	Noise and Vibration Monitoring and Preservation	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operation of HEMM, etc. should be provided with ear plugs /Muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ Laborers	Complied	<ul style="list-style-type: none"> • Ear Plugs, Mask and other PPES has been provided to workers engaged in mining. • Onsite tool box talk is being conducted on daily basis to create awareness regarding safety and health aspect. • Work Zone Noise level monitoring is being carried out by MoEF&CC approved laboratory and Noise level are well within the prescribed norms. Please refer Annexure-10 for more detail of Noise level.
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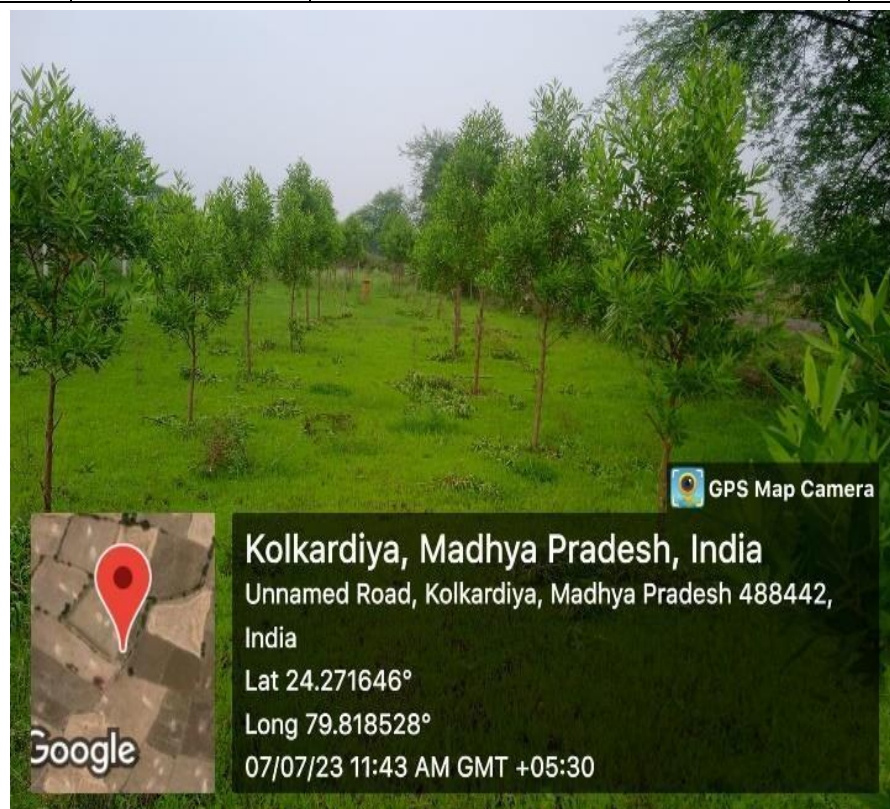
		are working without personal protective equipment.		<div>Work zone noise Average results in dBA</div>  <table><thead><tr><th>Area</th><th>Noise Level (dBA)</th></tr></thead><tbody><tr><td>Hual Road area</td><td>60</td></tr><tr><td>Mine Site area</td><td>60</td></tr><tr><td>Dump area</td><td>60</td></tr><tr><td>Standard</td><td>85</td></tr></tbody></table>	Area	Noise Level (dBA)	Hual Road area	60	Mine Site area	60	Dump area	60	Standard	85																						
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Mine Site area	60																																			
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Standard	85																																			
V.	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	<ul style="list-style-type: none">All mining activities are being carried out as per approved mining plan.Excavation quantity is maintaining well within the permitted limit. Excavation details for the period from April 2023 to September 2023 is given below: - <table><thead><tr><th>Month</th><th>Limestone (MT)</th><th>Over Burden (MT)</th><th>Top Soil (MT)</th></tr></thead><tbody><tr><td>April'23</td><td>125</td><td>426.02</td><td>104.79</td></tr><tr><td>May'23</td><td>50</td><td>502.776</td><td>110.92</td></tr><tr><td>June'23</td><td>64</td><td>0</td><td>0</td></tr><tr><td>July'23</td><td>80</td><td>0</td><td>0</td></tr><tr><td>Aug'23</td><td>76</td><td>0</td><td>0</td></tr><tr><td>Sep'23</td><td>100</td><td>0</td><td>0</td></tr><tr><td>Total</td><td>495</td><td>928.80</td><td>215.71</td></tr></tbody></table>	Month	Limestone (MT)	Over Burden (MT)	Top Soil (MT)	April'23	125	426.02	104.79	May'23	50	502.776	110.92	June'23	64	0	0	July'23	80	0	0	Aug'23	76	0	0	Sep'23	100	0	0	Total	495	928.80	215.71
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Total	495	928.80	215.71																																	
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	Complied	<ul style="list-style-type: none">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 20.05.2023 for the period from October 2022 to March 2023.																																

		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.		
VI.	Land Reclamation			
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/ 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.	Complied	<ul style="list-style-type: none"> • Overburden generated during the mining operations are being stacked at earmarked OB dump sites only. • Physical parameters of the OB dumps i.e. height, width and angle of slope being maintained in compliance of the approved mining plan as per the guidelines /circulars issued by DGMS. • Top soil generation quantity from mining operation in the FY: 2022-23 is 398.37 MT. It is being used for plantation purpose only. Please refer annexure no 3 for photographs of 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 will 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/	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

		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.		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.	Complied	Noted. No transportation of minerals is being done through roads passing villages/habitation.

		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 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).		
28)	Land Reclamation	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 avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emission.	Partially Complied	<ul style="list-style-type: none"> • 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: April-23 to September-23 are enclosed as <u>Annexure-5.</u> <p>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.</p> <ul style="list-style-type: none"> • 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.
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. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	Being Complied	<ul style="list-style-type: none"> • Greenbelt development is a continual & ongoing process, Plantation has been initiated around the mine lease and covered 1.02 ha area with 2632 nos of saplings up to September 2023. • Green belt in 7.5 m lease periphery/boundary (Area 32.392 ha) will be developed within first five-year subject to availability of land as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan. <p>Photographs of plantation is enclosed as Annexure-11</p>
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Plantation done in FY 22-23 Monsoon at Mine Lease Boundary



New sapling plantation Photographs of Kolkardiya Limestone Mine FY 2023-24 (July 23)

30)	Green Belt	<p>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 plating 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.</p>	Being Complied	<ul style="list-style-type: none"> Greenbelt development is a continual & ongoing process Plantation has been initiated around the mine lease and covered 1.02 ha area with 2632 nos saplings up to September 2023. Green belt in 7.5m lease periphery/boundary (Area 32.392 ha) including the area of 2.516 ha covered in the 50mt safety barrier of the village road will be done with in first five year 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-11 for photographs of plantation.
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31)	Green Belt	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those area 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 and Human Health Issues				
32)	Public Hearing and Human Health Issues	Project Proponent shall make 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.	Complied	<ul style="list-style-type: none"> • All workers engaged belongs to local area and they are living in their own houses, therefore temporary structure/ hutments are not required. • Employees are residing in colony situated at Hatta Tehsil, where all basic facilities are available. <p>There is no temporary structure /hutment has been constructed.</p>
X. Corporate Environment 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	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 budget spent under the CER activities committed.

		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.		
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 complied	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 of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Complied	Noted, Final Approval of the Project by MoEFCC is 18.02.2022. Land development work started on 21.03.2022.
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 20.05.2023 for the period from October 2022 to March 2023.
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.	Complied	Noted, Full cooperation will be extended to the MoEF&CC officer(s) by furnishing the requisite data /information/monitoring reports.

		The project authorities should extend full cooperation 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 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.	Complied	Noted and all applicable laws will be followed.
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.

CER Activities April-Sept 2023

ANNEXURE-1



Sr.No.	Focus Area	Activities	No. of beneficiaries	Budget Spent in Rs.
1	Health	Eye Camp at Kolkarhiya Village	103	60,875
2		General Health Camp at Kolkarhiya Village	155	35,476
3		Eye Camp at Devri Village	97	67,178
4		General Health Camp at Devri Village	144	34,303
5	Education	Ditribution of Education Kits in Kolkarahiya, Devri, Raikra and Kuluwa	424	2,96,800
6	Sports & Culture	Payment to Panna Collector-Towards celebration of Gaurav Diwas on the occasion of Chatrsal Jayanti	-	2,00,000
7	Water	Borewell & 2 Hand Pump Installation (Kolkarahiya & Raikra Villages) & One Borewell and motorized system setup at Devri Village	200	2,73,995
8	Plantation	2500 Plantation and tree guard installation in Schools and Mine area		9,18,500
9	Rural Infrastructure	Installation of 20 Street Solar lights at Village Kolkarhiya, Devri, Rekra and Kuluwa	5375	3,36,620
Total				22,23,747/-

Photographs of CER Activities



Eye Check Up Camp was Organized at Kolkarhiya Village

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



Photographs of CER Activities

Eye Check Up Camp was Organized at Devri Village

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



Photographs of CER Activities

Health Check Up Camp was Organized at Devri Village

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



Photographs of CER Activities



20 Solar street lights installed at Kolkarahiya (8), Devri (5), Kulwa (1) & Raikra (6) (Mines Area)
Around 2000 villagers are getting benefitted.

Photographs of CER Activities



800 Educational Kits were distributed in Primary and Middle Schools at Gaisabad, Kolkarahiya, Devri and Raikra Village

Photographs of CER Activities

Borewell cum Handpump installation Work



Gaisabad Village



Kolkarhiya Village



Raikra Village



Devri Village

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

हिंदुस्तान समाज दमोह विजय यादव दमोह हटा। स्प्रिंगवे माइनिंग प्राइवेट लिमिटेड -जे. एस. डब्लू सीमेंट की इकाई के द्वारा निशुल्क बीस सोलर स्ट्रीट लाइटों की गैसाबाद ग्राम पंचायत में स्थापना स्प्रिंगवे माइनिंग प्राइवेट लिमिटेड -जे. एस. डब्लू 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 आमजन



कम्पनी द्वारा सतत इन ग्राम पंचायतों में किया जाता रहेगा।

नेत्र शिविर का हुआ आयोजन

हटा@पत्रिका. स्प्रिंगवे जीएसडब्ल्यू माइनिंग प्राइवेट लिमिटेड सीमेंट द्वारा निः शुल्क नेत्र शिविर का आयोजन गैसाबाद ग्राम पंचायत में रखा गया। जिसमें निःशुल्क नेत्र जांच व परामर्श किया गया। इसमें ग्रामीण क्षेत्रों के सभी लोगों ने आंखों की जांच की गई। डॉक्टरों की टीम के द्वारा आवश्यकता अनुसार उनकी निःशुल्क चश्मा और दवाइयां वितरण की गई। इस अवसर पर ग्राम पंचायत के जनप्रतिनिधि

स्वास्थ्य शिविर में 230 मरीजों की जांच कर दवाइयां दी

दमोह। गैसाबाद में बस स्टैंड के पास बालक प्राथमिक शाला परिसर में निशुल्क स्वास्थ्य जांच एवं परामर्श शिविर का आयोजन स्प्रिंगवे माइनिंग प्राइवेट लिमिटेड की ओर से किया गया। यह कंपनी जेएसडब्ल्यू सीमेंट की एक इकाई है। शिविर में सुबह 9.30 बजे से दोपहर 1.30 बजे तक 230 से ज्यादा मरीज पहुंचे। जिनकी होमोग्लोबिन, शुगर, बीपी, बुखार, खासी, जुकाम की जांचें और दवाइयां निशुल्क प्रदान की गई। इस शिविर में मिशन हॉस्पिटल दमोह के डॉक्टरों द्वारा 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।



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 के द्वारा अपने प्रारंभिक काल से ही समाज कल्याण के तहत कार्य करना शुरू कर दिया है। कंपनी द्वारा ग्राम के सरकारी स्कूल में दर्ज विद्यार्थियों को स्कूल से जोड़े रखने अद्यापन सामग्री प्रदान की गई। जिसके अंतर्गत प्राथमिक बालक शाला गैसाबाद, आदिवासी टोला गैसाबाद, कन्या शाला गैसाबाद में दर्ज विद्यार्थियों के लिए गुरुवार को स्कूल में आमंत्रित कर उन्हें बैग, कापियां, पेन, पैसिल, रबर, कट्टर, ब्रश, कलर्स एवं एक डेंटल किट प्रदान की गई। यह सामग्री पाकर उत्साहित दिखे बच्चों को स्कूल खुलने पर प्रतिदिन स्कूल आने एवं मन लगाकर पढ़ाई करने पर अन्य पुरस्कार दिए जाने की बात कही गई। इस अवसर पर स्प्रिंगवे माइनिंग प्राइवेट लिमिटेड कंपनी के अधिकारियों एवं स्कूल स्टाफ की उपस्थिति रही।



170 मरीजों का हुआ स्वास्थ्य परीक्षण



दोपहर 1 बजे तक शिविर का आयोजन किया गया। होमोग्लोबिन, शुगर, बीपी बुखार, खासी, जुकाम की जांच की गई। साथ ही दवाओं का वितरण किया गया। इसमें 170 मरीजों ने भाग लिया।



Photographs of protected Garland drain by wire fencing along pit area



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

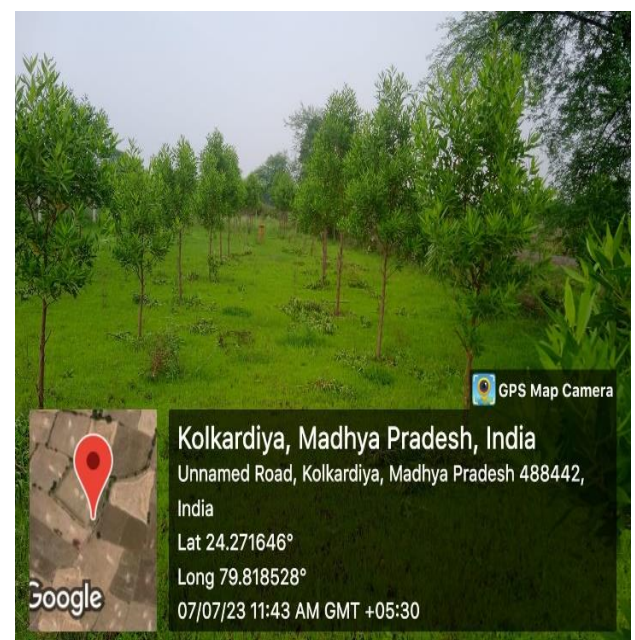


Siltation Pit -2 (L&W 5.5 and Depth 2.8)



Photographs of bund along with proposed excavation area

Photographs of Plantation on Top Soil



(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/ Yash Parashar employed as miner loader In Form B No. 01 has been examined for an initial/periodical medical examination. He/she* appears to be 28 years of age. The findings of the examining authority are given in the attached sheet. It is considered that Shri. Yash Parashar

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

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

(i) Any employment in mine; or

(ii) Any employment below ground; or

(iii) Any employment or work.....

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



Space for affixing Passport
Size photograph of the Candidate.

Place: Hatta

Date:

Signature of the examining authority
Dr. V. K. Sharma
(MO) C.H. Ramoh (MP)
Name and designation in Block letters

* Delete whatever is not applicable.

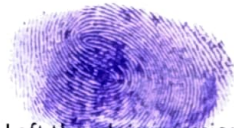
** One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority,

Report of the examining authority

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

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

Identification Mark..... *Left mark in left hand*



Left thumb impression of
The candidate

1. General development-

Good Good/Fair/Poor

2. Height.....*171*.....cms.

3. Weight.....*71*.....kg.

4. Eyes:

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

Right eye.....*16/6*..... Left eye.....*16/6*

(ii) Any organic disease of eyes *NO*

(iii) Night blindness *NO*

(iv) Color blindness *NO*

(v) Squint *NO*

(* to be tested in special cases)

5. Ears:

(a) Hearing: Right ear.....*N*..... Left ear.....*N*.....

(b) Any organic diseases. *NO*

6. Respiratory system.

Chest measurement:

(i) After full inspiration.....*93*.....cms.

(ii) After full expiration.....*88*.....cms.

7. Circulatory system:

Blood Pressure

Pulse

116/75
75/min

8. Abdomen:

Tenderness.

Liver.

Spleen.

Tumour.

NIL
NIL
NOD
NIL

9. Nervous system:

History of fits or epilepsy

Paralysis.

Mental health.

NIL
NIL
Normal

10. Locomotory system

NOD

11. Skin.

NOD

12. Hydrocele.

NIL

13. Hernia.

NIL

14. Any other abnormality

NIL

15. Urine:

Reaction.

Albumin.

Sugar.

Acidic
NIL
NIL

16. Skiagram of chest.

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

NIL

18. Any opinion of specialist considered necessary.

Vidush
Signature of the examining authority
Dr. V. K. Sharma
(MO) C.H. Panna
Dist. Damoh (MP)

Place:

Hatta

Report off Medical examination under Mines Rule 29B

(To be used in continuation with Form -O)

Certificate No.

Name:

Identification Marks:

Yash Parashar
A left mark in left hand

Result of Lung Function Test (Spirometry)

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

Spirometry Report enclosed

Signature of the Examination Authority
Videon
Dr. V. N. Sharma
(MO) C.H. Hada
Dist. Raigarh (M.P.)

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

(To be used in continuation with Form -O)

Certificate No.

Name:

Identification Marks:

Spash Pradhary

A cut mark in left hand

1. Cardio logical Assessment

Auscultation	S1	
	S2	
	Additional Sound	
Electrocardiograph (12 leads) findings:		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 Pneumoconiosis Opacities	Grades	Types
Present/Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

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

Enclosed Audiometry Report.

5. Pathological /Microbiological Investigations:


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

Enclosed Investigation Reports.

6. Special Test for Mn exposure

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

7. Any other Special Test Required:

Signature of the Examination Authority

 Dr. V.K. Sharma
 (MO) C.H. Hata
 Dist. Damoh (M.P.)

(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/
Mines worker In Jyoti Singh employed as
..... Form B No. 92 has been
examined for an initial/periodical medical examination. He/she* appears to be 28 years of age. The
findings of the examining authority are given in the attached sheet. It is considered that
Shri. Jyoti Singh

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

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

(i) Any employment in mine; or

(ii) Any employment below ground; or

(iii) Any employment or work.....

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



Space for affixing Passport
Size Photograph of the Candidate.

Place: Hatta
Date:

Vidush
Signature of the examining authority
Dr. V. K. Sharma
(MO) G.H. Hatta
Name and designation in Block letters
Dist. D.

* Delete whatever is not applicable.

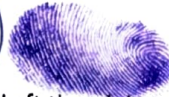
** One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority,

Report of the examining authority

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

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

Identification Mark..... *left mark in right leg*



Left thumb impression of
The candidate

1. General development-

Good/Fair/Poor

2. Height.....cms.

3. Weight.....kg.

4. Eyes:

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

Right eye *N(6/6)* Left eye *N(6/6)*

(ii) Any organic disease of eyes

(iii) Night blindness

(iv) Color blindness

(v) Squint

(* to be tested in special cases)

5. Ears:

(a) Hearing: Right ear *N* Left ear *N*

(b) Any organic diseases.

6. Respiratory system.

Chest measurement:

(i) After full inspiration.....cms.

(ii) After full expiration.....cms.

7. Circulatory system:

Blood Pressure

Pulse

119/78
73/min

8. Abdomen:

Tenderness. Nil
Liver. Nil
Spleen. Nil
Tumour. Nil

9. Nervous system:

History of fits or epilepsy Nil
Paralysis. Nil
Mental health. Normal

10. Locomotory system

Nil

11. Skin.

Nil

12. Hydrocele.

Nil

13. Hernia.

Nil

14. Any other abnormality

Nil

15. Urine:

Reaction. Acidic
Albumin. Nil
Sugar. Nil

16. Skiagram of chest.

Nil

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

Nil

18. Any opinion of specialist considered necessary.

Vidush
Signature of the examining authority
Dr. V. K. Sharma
(MO) C.H. Hada
Dist. Damoh (M.P.)

Place:

Hada

Report off Medical examination under Mines Rule 29B

(To be used in continuation with Form -O)

Certificate No.

Name:

Omprakash Singh


Identification Marks:

Left molar in front leg

Result of Lung Function Test (Spirometry)

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

Spirometry Report enclosed


Signature of the Examination Authority
Dr. V. K. Sharma
(MO) C.H. Hama
Dist. Damoh (MP)

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

(To be used in continuation with Form -O)

Certificate No.

Name:

Identification Marks:

JVALLA SINGH
cut mark in right leg

1. Cardio logical Assessment

Auscultation	S1	
	S2	
	Additional Sound	
Electrocardiograph (12 leads) findings:		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 Pneumoconiosis Opacities	Grades	Types
Present / Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

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

Enclosed Audiometry Report.

5. Pathological /Microbiological Investigations:

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

Enclosed Investigation Reports.

6. Special Test for Mn exposure

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

7. Any other Special Test Required:

Signature of the Examination Authority

Vidush
Dr. V. K. Sharma
 (MO) Ch. Hata
 Dist. Damoh (MP)

Annexure-5

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

(Period: April-September 2023)

Sr.No.	Location Parameter Standard	Near Mine Pit (results in $\mu\text{g}/\text{M}^3$)					Near Haul Road (results in $\mu\text{g}/\text{M}^3$)				
		PM-10	PM-2.5	SO ₂	Nox	CO	PM-10	PM-2.5	SO ₂	Nox	CO
		100	60	80	80	4 (mg/M^3)	100	60	80	80	4 (mg/M^3)
1	09.06.2023	60.79	27.81	10.55	19.38	<1.0	60.75	31.24	12.02	21.51	<1.0
1 st Quarter Average		60.79	27.81	10.55	19.38	<1.0	60.75	31.24	12.02	21.51	<1.0

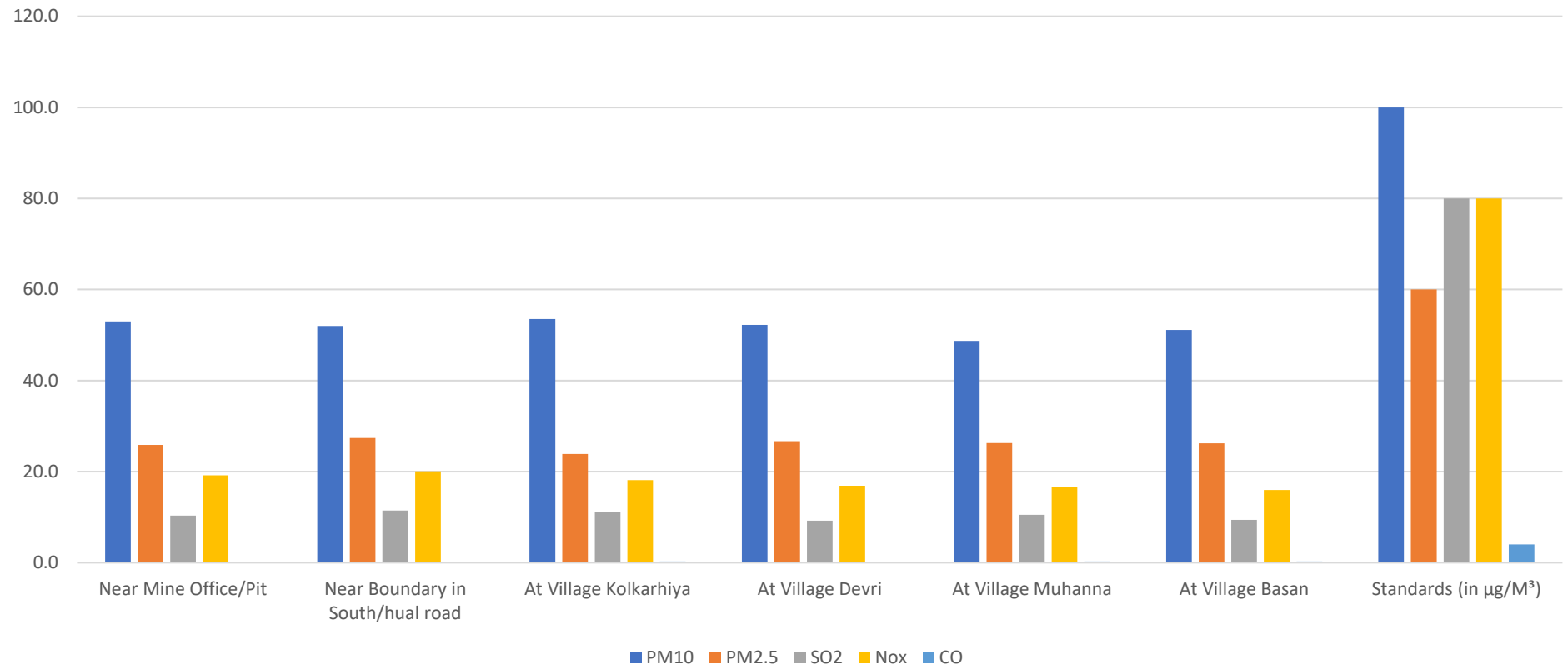
Sr.No.	Location Parameter Standard	Village Muhana (results in $\mu\text{g}/\text{M}^3$)					Village Rekra (results in $\mu\text{g}/\text{M}^3$)				
		PM-10	PM-2.5	SO ₂	Nox	CO	PM-10	PM-2.5	SO ₂	Nox	CO
		100	60	80	80	4 (mg/M^3)	100	60	80	80	4 (mg/M^3)
2	09.06.2023	51.70	28.05	9.81	14.75	<1.0	57.31	29.08	12.33	20.50	<1.0
1 st Quarter Average		51.70	28.05	9.81	14.75	<1.0	57.31	29.08	12.33	20.50	<1.0

Sr.No.	Location Parameter Standard	Proposed Crusher (results in $\mu\text{g}/\text{M}^3$)					Village Basan (results in $\mu\text{g}/\text{M}^3$)				
		PM-10	PM-2.5	SO ₂	Nox	CO	PM-10	PM-2.5	SO ₂	Nox	CO
		100	60	80	80	4 (mg/M^3)	100	60	80	80	4 (mg/M^3)
1	10.06.2023	57.78	29.31	14.37	22.52	<1.0	51.93	29.08	8.26	12.70	<1.0
1 st Quarter Average		57.78	29.31	14.37	22.52	<1.0	51.93	29.08	8.26	12.70	<1.0

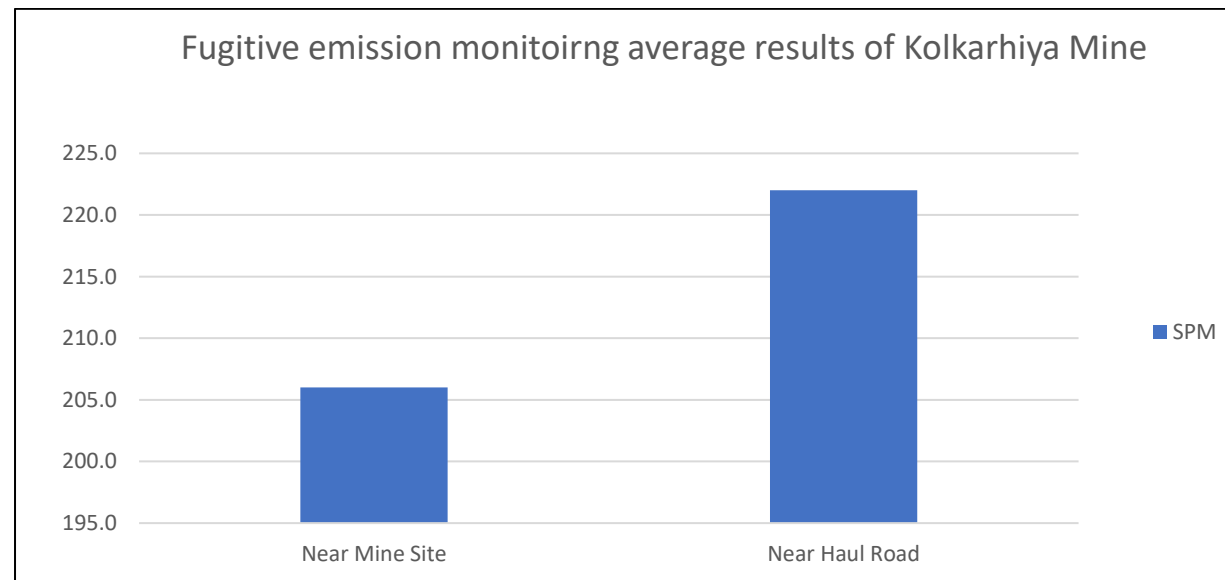
Sr.No.	Location Parameter Standard	Village Kolkarhiya (results in $\mu\text{g}/\text{M}^3$)					Village Devri (results in $\mu\text{g}/\text{M}^3$)				
		PM-10	PM-2.5	SO ₂	Nox	CO	PM-10	PM-2.5	SO ₂	Nox	CO
		100	60	80	80	4 (mg/M^3)	100	60	80	80	4 (mg/M^3)
1	10.06.2023	59.87	30.68	11.00	20.40	<1.0	54.76	28.40	7.00	15.09	<1.0
1 st Quarter Average		59.87	30.68	11.00	20.40	<1.0	54.76	28.40	7.00	15.09	<1.0

Sr.No.	Month	Near Mine Office/Mine Site (results in $\mu\text{g}/\text{M}^3$)					Near Boundary in South (results in $\mu\text{g}/\text{M}^3$)				
		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-23	47.10	23.90	10.16	20.38	0.18	45.49	23.30	10.25	18.40	0.13
2	Aug-23	43.55	24.72	9.37	18.36	0.15	43.90	24.27	10.45	19.49	0.12
3	Sep-23	44.84	23.22	11.03	18.40	0.14	40.45	22.88	11.93	17.88	0.13
2 nd Quarter Average		45.16	23.9	10.2	19.05	0.16	43.28	23.48	10.88	18.59	0.13
Sr.No.	Month	Village Kolkarhiya (results in $\mu\text{g}/\text{M}^3$)					Village Devri (results in $\mu\text{g}/\text{M}^3$)				
		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-23	56.48	24.11	11.42	18.12	0.31	52.11	25.27	11.30	19.33	0.26
2	Aug-23	52.38	24.58	10.29	17.98	0.27	49.55	24.88	10.53	18.90	0.21
3	Sep-23	51.69	23.02	11.53	18.35	0.24	47.25	24.90	12.48	17.88	0.18
2 nd Quarter Average		53.52	23.90	11.08	18.15	0.27	49.64	25.02	11.44	18.70	0.22
Sr.No.	Month	Village Muhanaa (results in $\mu\text{g}/\text{M}^3$)					Village Basan (results in $\mu\text{g}/\text{M}^3$)				
		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-23	48.44	24.76	12.25	18.49	0.29	52.92	21.55	10.45	20.65	0.29
2	Aug-23	45.76	24.97	10.60	17.44	0.25	49.14	24.11	10.67	18.38	0.24
3	Sep-23	43.06	23.72	10.82	19.49	0.23	48.77	24.28	10.36	18.62	0.21
2 nd Quarter Average		45.75	24.48	11.22	18.47	0.26	50.28	23.31	10.49	19.21	0.25

Ambeint Air Quality average results of Kolkarhiya Mine core & Buffer Zone



Fugitive emission monitoring average results of Kolkarhiya Mine		
Sr.No.	Name of Location/Parameter	SPM
1	Near Mine Site	206.0
2	Near Haul Road	222.0



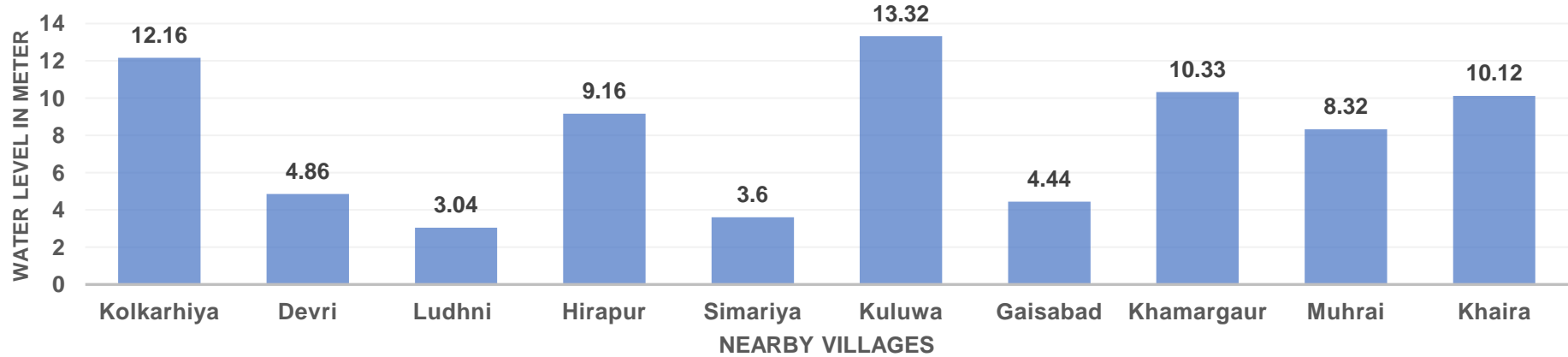
ANNEXURE-6

Kolkarhiya Mine Piezometer-1 Monthly Average Water level results (With Telemetry)		
DATALOGGER ID SPRINGWAY01 with Telemetry Website: http://35.200.247.132/webdata/webdatalogin User ID : springwaymin Password: SpR3i9gwmi9_G	MONTH	WATER LEVEL (mWC) (- means bgl)
	Apr-23	Out of Order
	May-23	-15.17
	Jun-23	-15.14
	Jul-23	-13.93
	Aug-23	-10.49
	Sep-23	-7.22

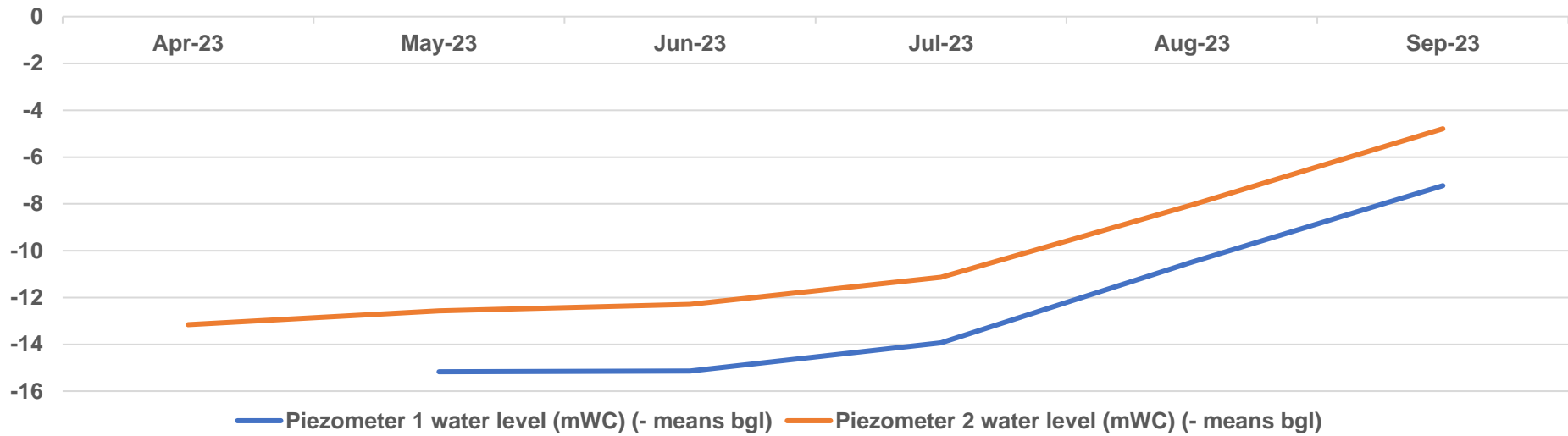
Kolkarhiya Mine Piezometer-2 Monthly Average Water level results (Without Telemetry)		
DATALOGGER ID SPRINGWAY02 (Without Telemetry)	MONTH	WATER LEVEL (mWC) (- means bgl)
	Apr-23	-13.159
	May-23	-12.573
	Jun-23	-12.29
	Jul-23	-11.13
	Aug-23	-8.04
	Sep-23	-4.79

Buffer Zone Ground Water Level Monitoring: Post Monsoon 2022 to Monsoon 2023									
Sr. No.	Name of Village	Owner Name	Latitude	Longitude	Type of Monitoring Station	Direction from Mine	Aerial Distance (in Km)	Water level (in bgl meters)	
								15-05-2023	23-08-2023
1	Kolkarhiya	Shri Rajendar Parashar	24°16'23.93"N	79°49'24.247"E	Bore Well	Core-zone	-	18.45	12.16
2	Devri	Shri Sharda Patel	24°15'44.431"N	79°50'31.898"E	Bore Well	E	2.5	9.96	4.86
3	Ludhni	Shri Sanjay Tiwari	24°14'26.941"N	79°53'1.626"E	Bore Well	E	7.5	6.56	3.04
4	Hirapur	Shri Monu Pathak	24°12'42.66"N	79°52'5.098"E	Bore Well	SE	8.5	11.22	9.16
5	Simariya	Govt Bus Stand	24°16'0.703"N	79°53'49.999"E	Bore Well	E	8	6.15	3.60
6	Kuluwa	Shri Dipendra Patel	24°16'1.018"N	79°50'49.372"E	Bore Well	NE	3	16.53	13.32
7	Gaisabad	Shri Rinku Shrivastav	24°14'12.779"N	79°49'30.482"E	Bore Well	S	4	16.11	4.44
8	Khamargaur	Govt Borewell on the Village road	24°18'28.728"N	79°49'25.982"E	Bore Well	N	4	14.36	10.33
9	Muhrai	Shri Ramadhin Patel	24°16'43.86"N	79°46'40.378"E	Bore Well	SW	4	12.66	8.32
10	Khaira	Govt School	24°18'47.426"N	79°47'37.251"E	Bore Well	WN	4	12.44	10.12

Water level (in bgl meters) in Buffer Zone Monsoon Period



Water level Result of Mine



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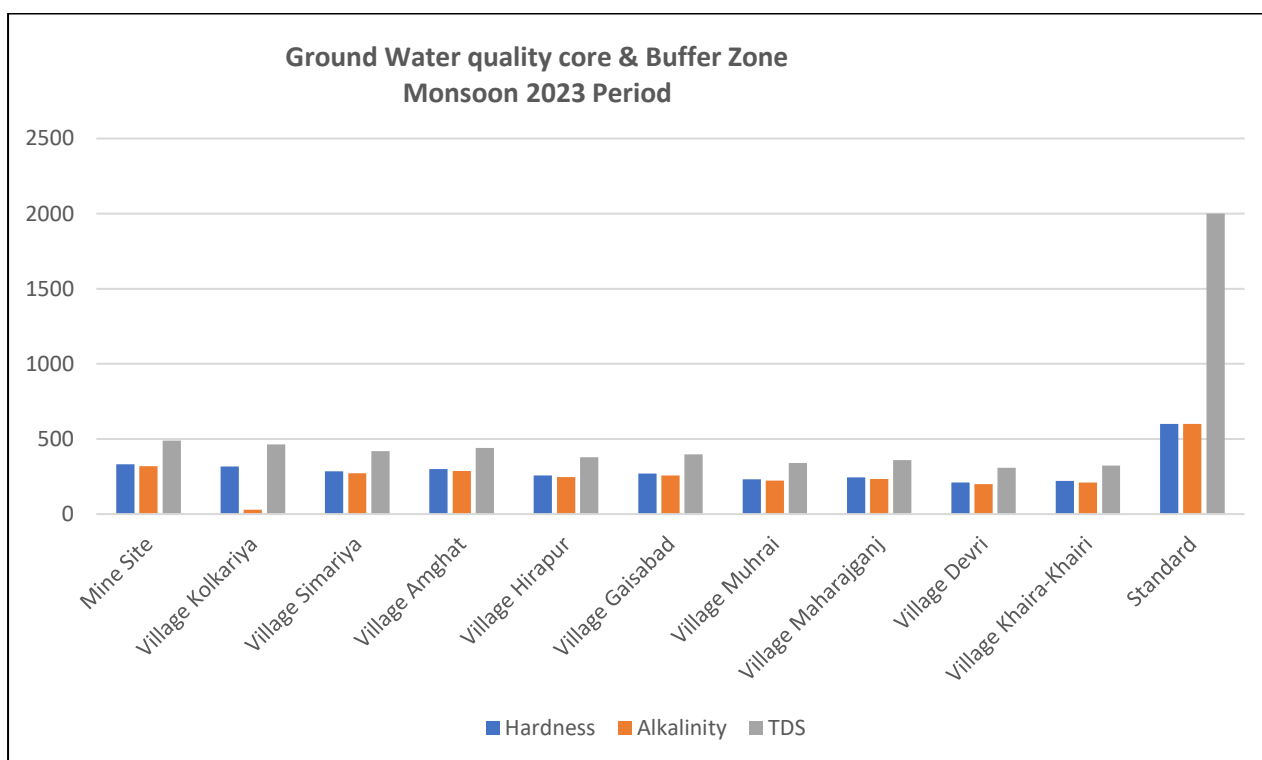
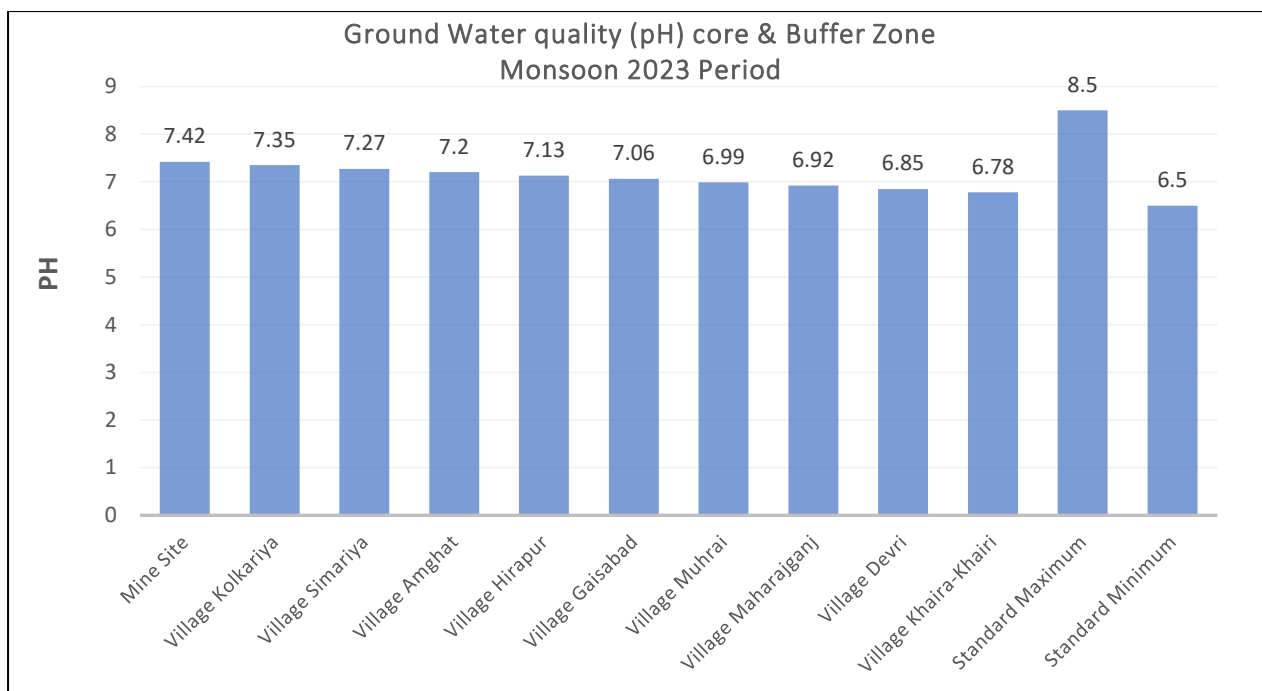
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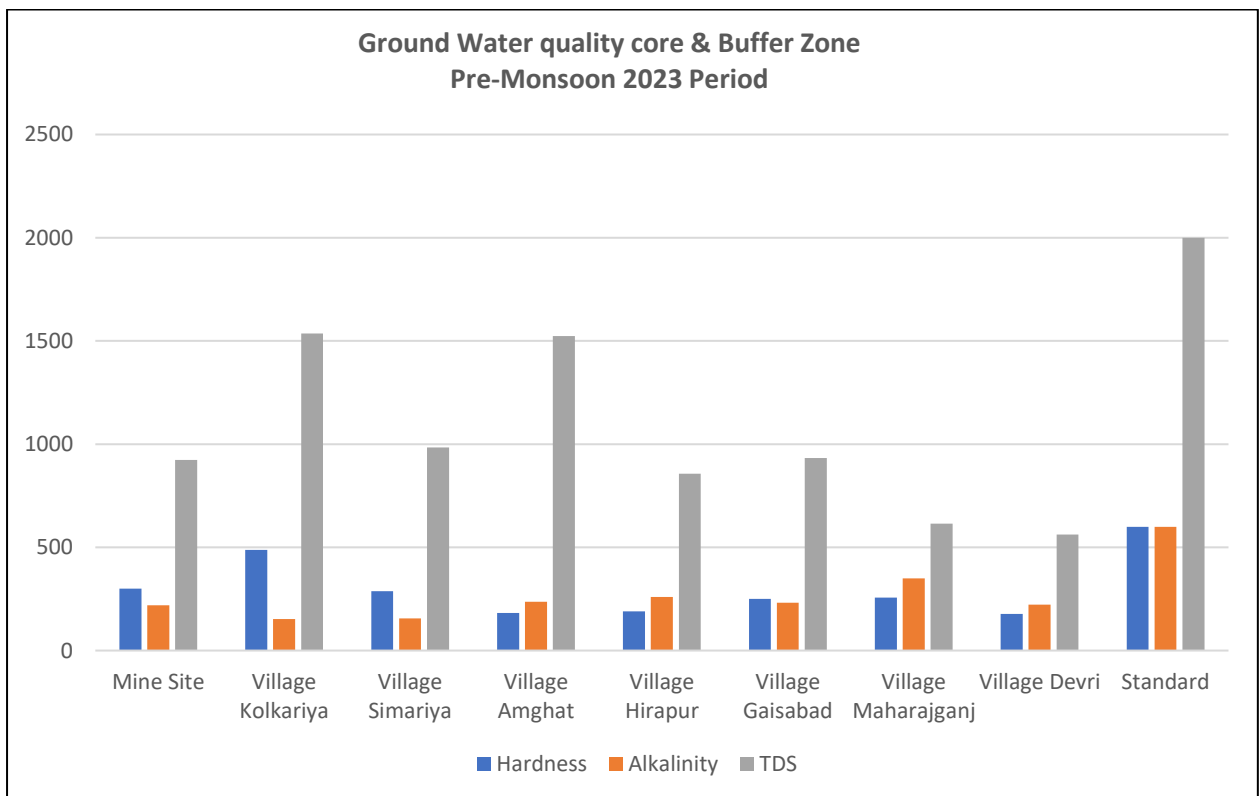
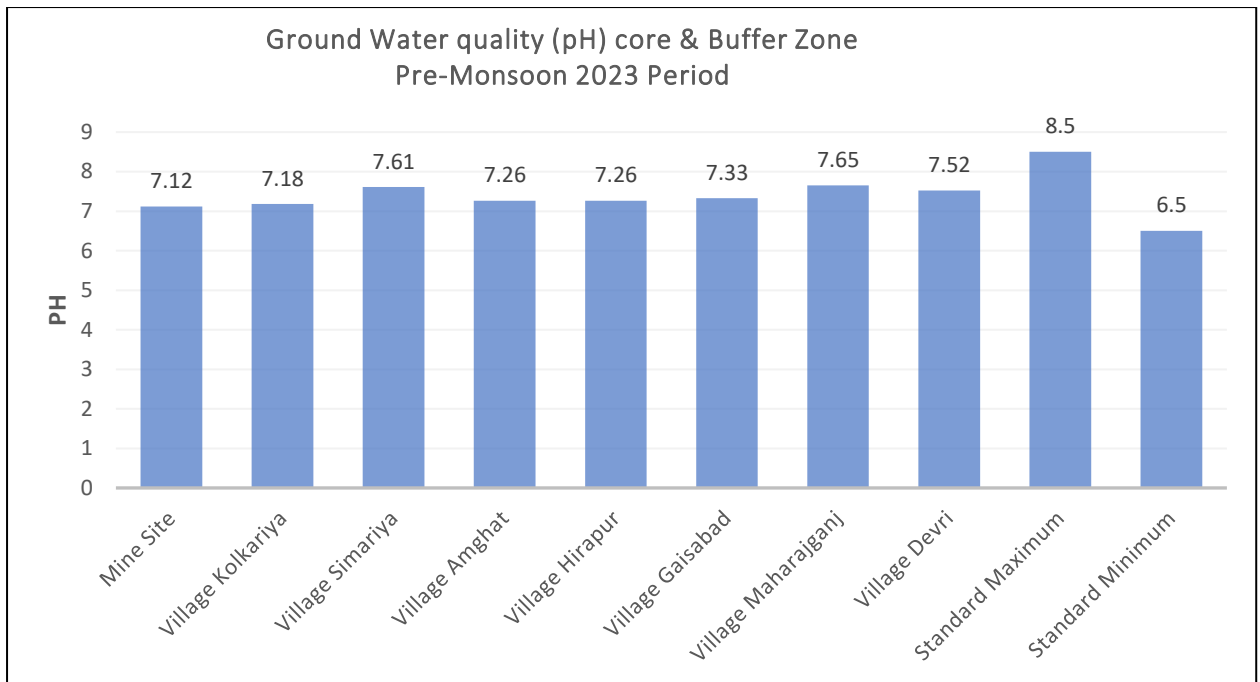
M/s Springway Mining Private Limited					
at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.)					
Surface water analysis report (May 2023) for kolkarhiya limestone mine					
S. No.	Test Parameters	Unit	Method No.	Result Obtained	
				Bearma River	Sonar River
1	pH	-	4500 H+B	7.41	7.54
2	Colour	Hazen	-	Colourless	Yellow
3	Odour	-	-	Odourless	Odourless
4	Taste	-	-	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	4	15
6	Total Dissolved Solid	mg/lit	2540 C	326	432
7	Total Alkalinity	mg/lit	2320 B	348	196
8	Total Hardness as CaCO ₃	mg/lit	2340 C	176	212
9	Calcium as Ca	mg/lit	3500 B	56.11	22.44
10	Magnesium as Mg	mg/lit	3500 B	8.75	37.91
11	Sulphates as SO ₄	mg/lit	4500- SO ₄ E	31.91	123.4
12	Chlorides as Cl	mg/lit	4500-Cl ⁻ B	17.99	34.99
13	Iron as Fe	mg/lit	3500- Fe B	<0.05	<0.05
14	Nitrate as NO ₃	mg/lit	4500-NO ₃ B	3.16	7.33
15	Fluoride as F	mg/lit	4500- F D	<0.10	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	<0.03	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	<0.20	<0.20
18	Phosphate as P	mg/lit	4500-PD	<0.01	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	<0.0001	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	35.49	16.83
21	Potassium as K	mg/lit	3500- K B	1.97	1.25
22	Chromium as Cr ⁶⁺	mg/lit	3500-Cr ⁺ B	<0.01	<0.01
23	Zinc as Zn	mg/lit	3111-B	<0.05	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	<0.000005	<0.000005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	<0.00025	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	<0.000025	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	<0.00025	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	<0.01	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	<0.0005	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	<0.00125	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	<0.01	<0.01

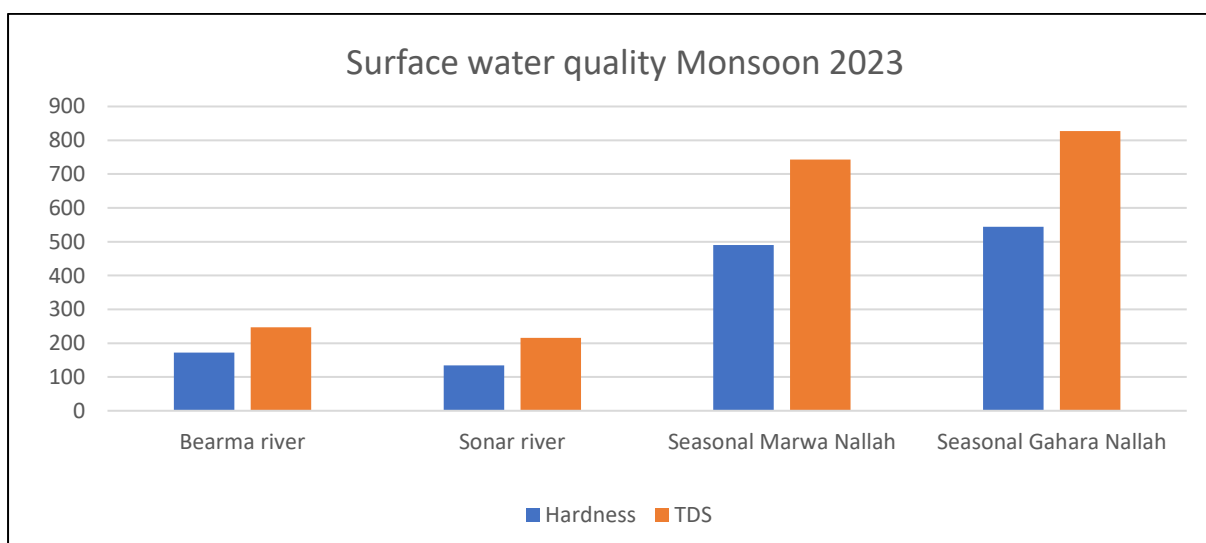
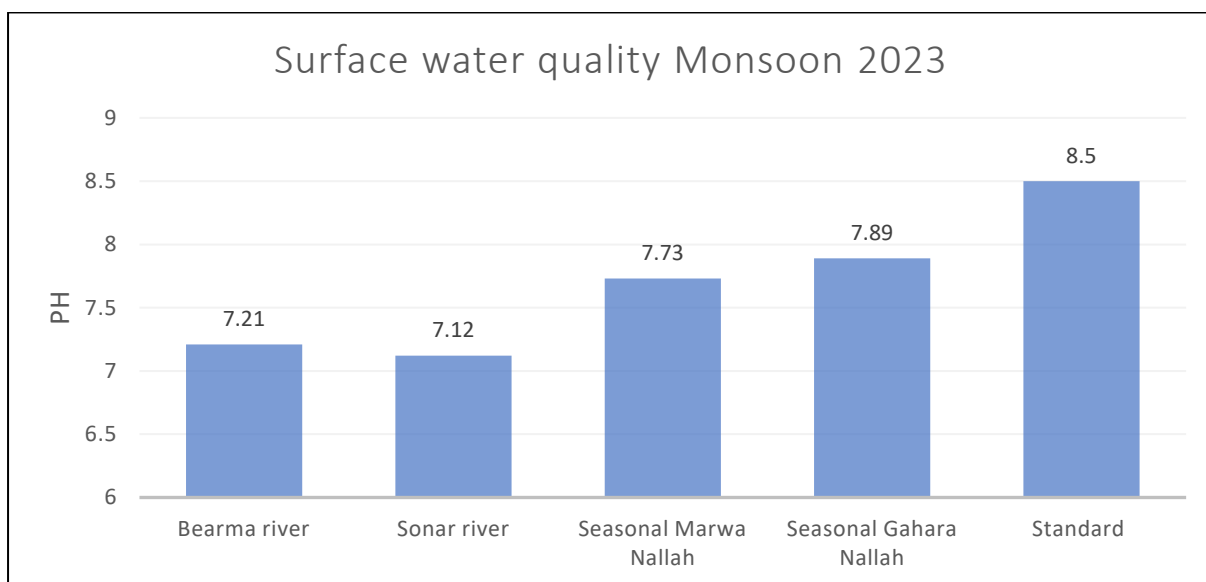
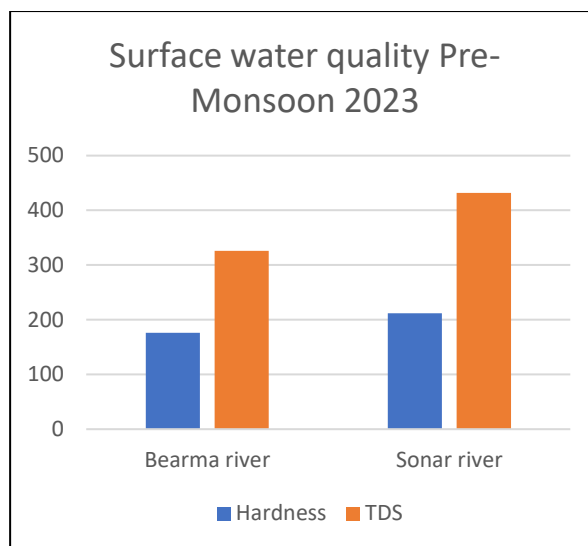
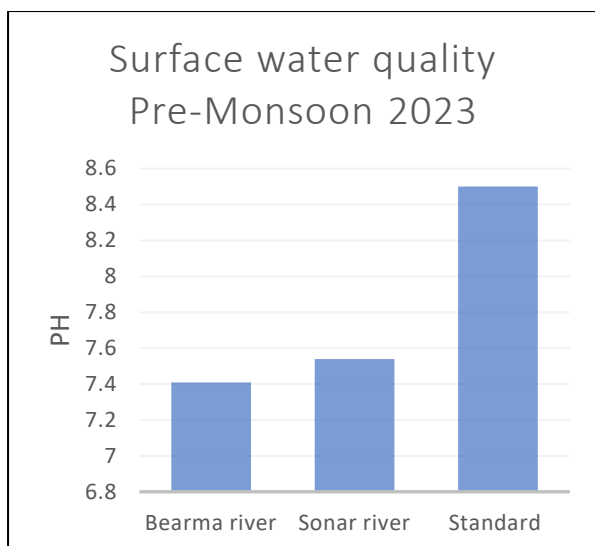
M/s Springway Mining Private Limited						
at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.)						
Surface water analysis report (August 2023, Monsoon Period) for kolkarhiya limestone mine						
S. No.	Test Parameters	Unit	Method of Test	Limit as per IS:2296	Result Obtained	
				Class A	Bearma River	Sonar River
1	Taste	-	IS:3025:(part-8)	None	Disagreeable	Disagreeable
2	Odour	-	IS:3025:(part-5)	Unobj	Agreeable	Agreeable
3	Colour	Hazen	IS:3025:(Part-4)	10	5.0	5.0
4	pH Value at 25.2°C	-	IS:3025:(Part-11)	8.5	7.21	7.12
5	Dissolved Oxygen (as DO)	mg/L	IS:3025:(Part-38)	6	5.3	5.6
6	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44)	2	1.6	1.7
7	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	247	216
8	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.01	N.D.	N.D.
9	Total Hardness (as CaCO3)	mg/L	IS:3025:(Part-21)	300	172	134
10	Chloride (as Cl)	mg/L	IS:3025:(Part-32)	250	21.9	19.9
11	Sulphate (as SO4)	mg/L	IS:3025:(Part-24)	400	29.39	25.49
12	Nitrate (as NO3)	mg/L	IS:3025:(part-34)	20	13.32	4.56
13	Fluoride (as F)	mg/L	IS:3025:(part-60)	1.5	0.12	0.11
14	Calcium (as Ca)	mg/L	IS:3025:(Part-40)	80.1	49.69	36.07
15	Magnesium (as Mg)	mg/L	IS:3025:(Part-46)	24.28	11.66	10.69
16	Copper (as Cu)	mg/L	IS:3025:(part-42)	1.5	N.D.	N.D.
17	Iron (as Fe)	mg/L	IS:3025:(part-53)	0.3	0.14	0.13
18	Manganese (as Mn)	mg/L	IS:3025:(part-59)	0.5	N.D.	N.D.
19	Zinc (as Zn)	mg/L	IS:3025:(part-49)	15	N.D.	N.D.
20	Barium (as Ba)	mg/L	Annex F of IS:13428	1	N.D.	N.D.
21	Silver (as Ag)	mg/L	Annex J of IS 13428	0.05	N.D.	N.D.
22	Arsenic (as As)	mg/L	IS:3025:(part-37)	0.05	N.D.	N.D.
23	Mercury (as Hg)	mg/L	IS:3025:(part-48)	0.001	N.D.	N.D.
24	Lead (as Pb)	mg/L	IS:3025:(part-47)	0.1	N.D.	N.D.
25	Cadmium (as Cd)	mg/L	IS:3025:(part-41)	0.01	N.D.	N.D.
26	Chromium (as Cr)	mg/L	Annex J of IS:13428	0.05	N.D.	N.D.
27	Selenium (as Se)	mg/L	IS:3025:(part-56)	0.01	N.D.	N.D.
28	Cyanide (as CN)	mg/L	IS:3025:(part-27)	0.05	N.D.	N.D.
29	Phenols	mg/L	IS:3025:(part-49)	0.002	N.D.	N.D.
30	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	N.D.	N.D.
31	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	APHA 6440	0.2	N.D.	N.D.
32	Pesticides	mg/L	USEPA Method	0	N.D.	N.D.
33	Alpha HCH	µg/l	USEPA 508	0.001	N.D.	N.D.
34	Beta HCH	µg/l	USEPA 508	0.01	N.D.	N.D.
35	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	50	24	35

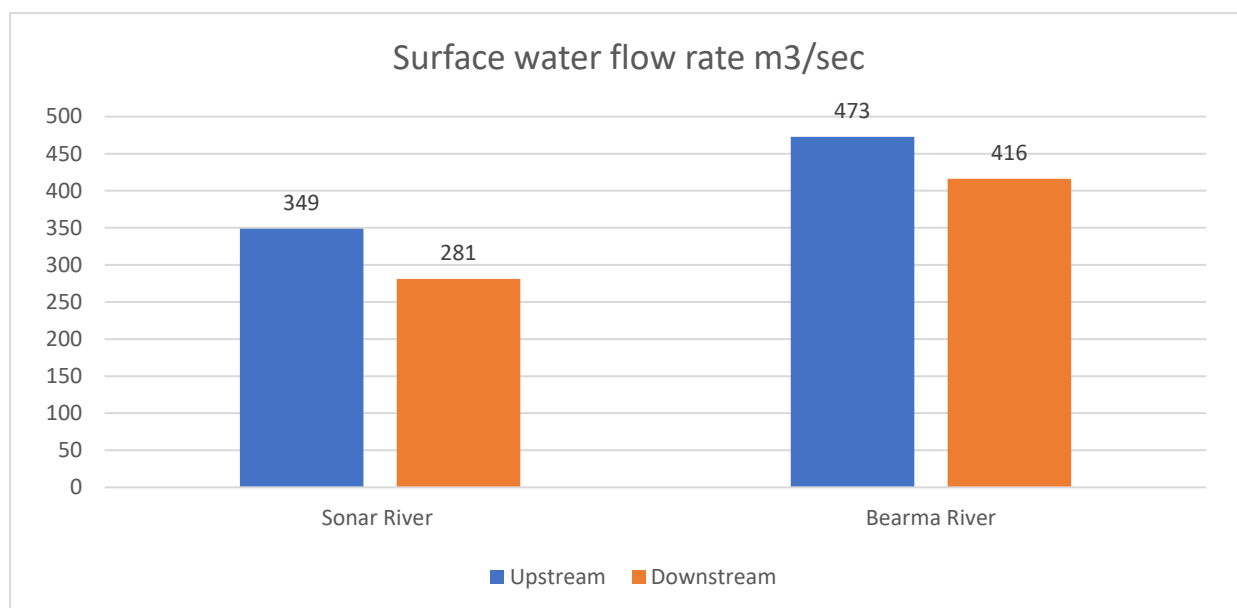
M/s Springway Mining Private Limited						
at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.)						
Surface water analysis report (August 2023, Monsoon Period) for kolkarhiya limestone mine						
S. No.	Test Parameters	Unit	Method of Test	Limit as per IS:2296	Result Obtained	
				Class C	Marwa Nallaha	Gahra Nallaha
1	Taste	-	IS:3025:(part-8)	-	Disagreeable	Disagreeable
2	Odour	-	IS:3025:(part-5)	-	Disagreeable	Disagreeable
3	Colour	Hazen	IS:3025:(Part-4)	-	10.0	10.0
4	pH Value at 25.2°C	-	IS:3025:(Part-11)	8.5	7.73	7.89
5	Conductivity	µS/Cm		2250	1238.7	1378.9
6	Dissolved Oxygen (as DO)	mg/L	IS:3025:(Part-38)	-	3.8	3.9
7	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44)	-	7.6	7.8
8	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	2100	743	827
9	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	-	N.D.	N.D.
10	Total Hardness (as CaCO3)	mg/L	IS:3025:(Part-21)	-	490	544
11	Chloride (as Cl)	mg/L	IS:3025:(Part-32)	600	66.9	73.9
12	Sulphate (as SO4)	mg/L	IS:3025:(Part-24)	1000	86.19	95.93
13	Nitrate (as NO3)	mg/L	IS:3025:(part-34)	-	39.07	43.49
14	Fluoride (as F)	mg/L	IS:3025:(part-60)	-	0.25	0.27
15	Calcium (as Ca)	mg/L	IS:3025:(Part-40)	-	141.08	158.72
16	Magnesium (as Mg)	mg/L	IS:3025:(Part-46)	-	33.53	35.96
17	Copper (as Cu)	mg/L	IS:3025:(part-42)	-	N.D.	N.D.
18	Iron (as Fe)	mg/L	IS:3025:(part-53)	-	0.34	0.39
19	Manganese (as Mn)	mg/L	IS:3025:(part-59)	-	N.D.	N.D.
20	Zinc (as Zn)	mg/L	IS:3025:(part-49)	-	0.26	0.28
21	Boron (as B)	mg/L	Annex F of IS:13428	2	N.D.	N.D.
22	Arsenic (as As)	mg/L	IS:3025:(part-37)	-	N.D.	N.D.
23	Mercury (as Hg)	mg/L	IS:3025:(part-48)	-	N.D.	N.D.
24	Lead (as Pb)	mg/L	IS:3025:(part-47)	-	N.D.	N.D.
25	Cadmium (as Cd)	mg/L	IS:3025:(part-41)	-	N.D.	N.D.
26	Chromium (as Cr)	mg/L	Annex J of IS:13428	-	N.D.	N.D.
27	Selenium (as Se)	mg/L	IS:3025:(part-56)	-	N.D.	N.D.
28	Cyanide (as CN)	mg/L	IS:3025:(part-27)	-	N.D.	N.D.
29	Phenols	mg/L	IS:3025:(part-49)	-	N.D.	N.D.
30	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	-	N.D.	N.D.
31	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	APHA 6440	-	N.D.	N.D.
32	Pesticides	mg/L	USEPA Method	-	N.D.	N.D.
33	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	-	55	63

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		
				Jul-23	Aug-23	Sep-23
1	Sonar River upstream	Flow rate	m ³ /sec	313.6	362.1	371.3
2	Sonar River downstream			232.7	273.4	337.4
3	Bearma River upstream			454.8	472.6	490.3
4	Bearma River downstream			391.5	415.8	441.1
5	Seasonal Nallah Gahra			Dry	56.8	Dry
6	Seasonal Nallah Marwa			Dry	10.71	Dry









Water Pond in Kolkarhiya Limestone Mine

(Length 34-meter X Width 21-meter X Depth 3- meter)



Rainwater Harvesting in Mine Pit



Photographs of protected Garland drain by wire fencing along pit area



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

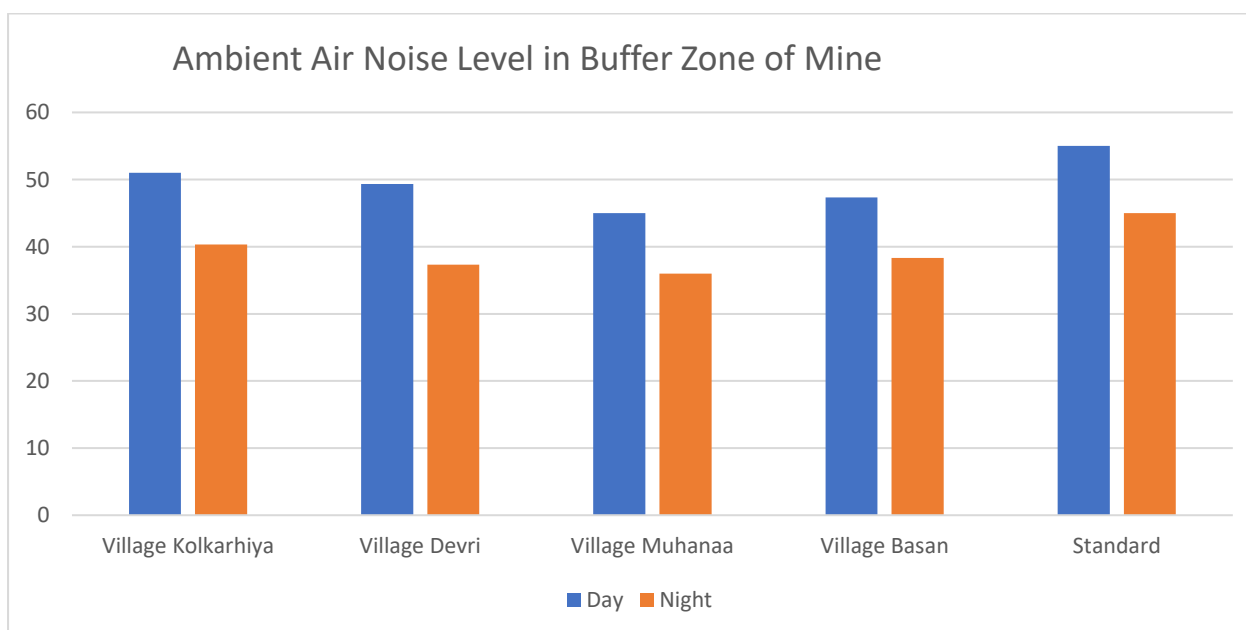
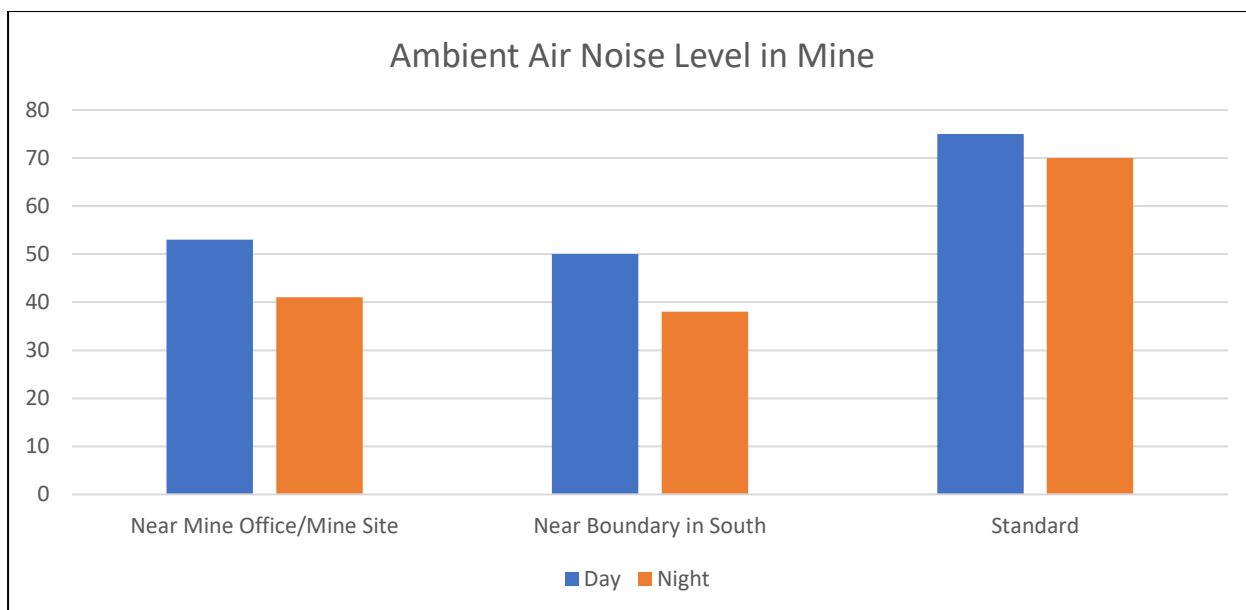


Siltation Pit -2 (L&W 5.5 and Depth 2.8)



Photographs of bund along with proposed excavation area

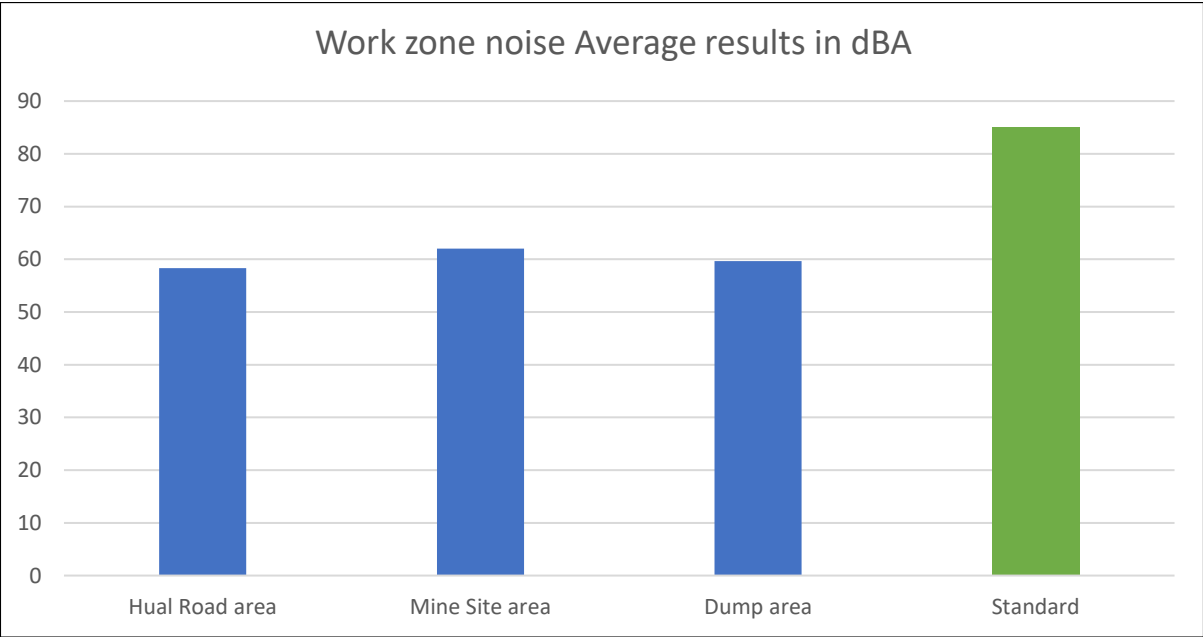
M/s Springway Mining Private Limited										
at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.)										
QUARTERLY AMBIENT AIR NOISE QUALITY MONITORING REPORT FOR KOLKARHIYA LIMESTONE MINE (CORE AND BUFFER ZONE)										
Sr.No.	Location Core Zone	Unit	Noise Level (Mine)						Limit (Industrial area)	
			Jul-23		Aug-23		Sep-23			
			Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
1	Near Mine Office/Mine Site	dB(A)	52	40	54	41	53	42	75	70
2	Near Boundary in South	dB(A)	50	37	51	39	49	38		
	Location Buffer Zone	Unit	Noise Level (Village)						Limit (Residential area)	
			Day Time	Night Time	Day Time	Night Time	Day Time	Night Time		
3	Village Kolkarhiya	dB(A)	51	40	52	41	50	40	55	45
4	Village Devri	dB(A)	49	37	50	38	49	37		
5	Village Muhanaa	dB(A)	45	36	46	37	44	35		
6	Village Basan	dB(A)	47	38	48	39	47	38		



M/s Springway Mining Private Limited						
at Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.)						
QUARTERLY (April-June 2023) AMBIENT AIR NOISE QUALITY MONITORING REPORT FOR KOLKARHIYA LIMESTONE MINE (CORE AND BUFFER ZONE)						
Sr.No.	Location Core Zone	Unit	Noise Level		Limit (Industrial area)	
			Min	Max	Day Time	Night Time
1	Near Mine Pit	dB(A)	39.4	43.4	75	70
2	Near Haul Road	dB(A)	45	47.1		
3	Proposed Crusher	dB(A)	47.9	51.2		
	Location Buffer Zone	Unit	Min	Max	Limit (Residential area)	
					Day Time	Night Time
4	Village Muhanaa	dB(A)	38.6	47.5	55	45
5	Village Rekra	dB(A)	41.2	45.6		
6	Village Devri	dB(A)	40.7	43.6		
7	Village Kolkarhiya	dB(A)	46.2	48.0		
8	Village Basan	dB(A)	40.1	44.5		

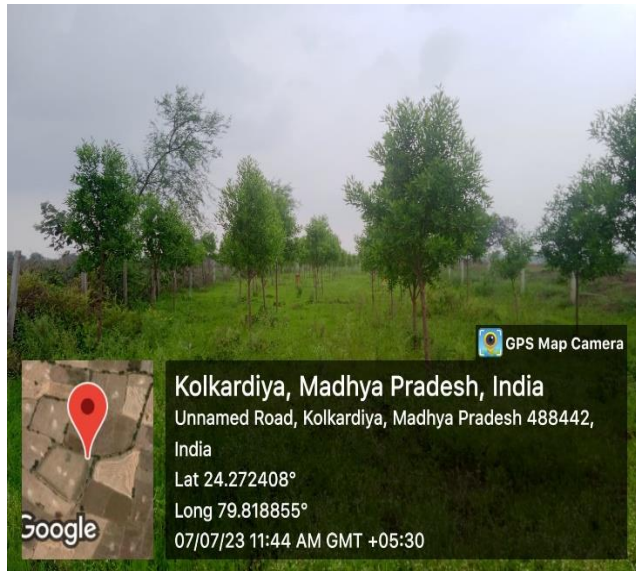
Annexure-10

Sr.No.	Location	Unit	Work-Zone Noise Level			Limit
			Jul-23	Aug-23	Sep-23	
1	Hual Road area	dB(A)	59	60	56	85 dB (Max)
2	Mine Site area	dB(A)	61	63	62	
5	Dump area	dB(A)	60	61	58	

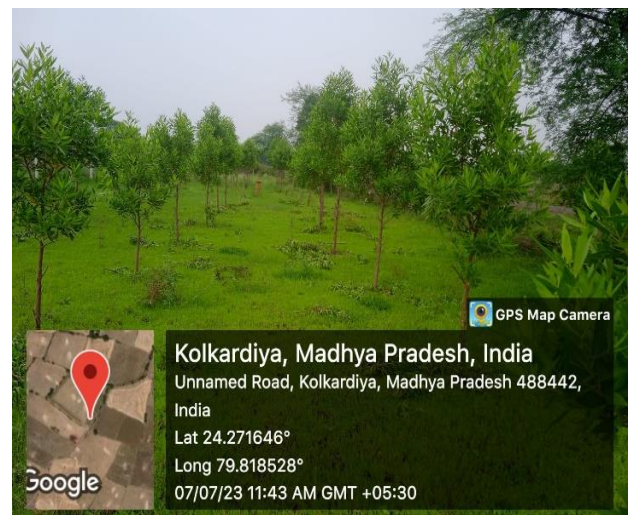
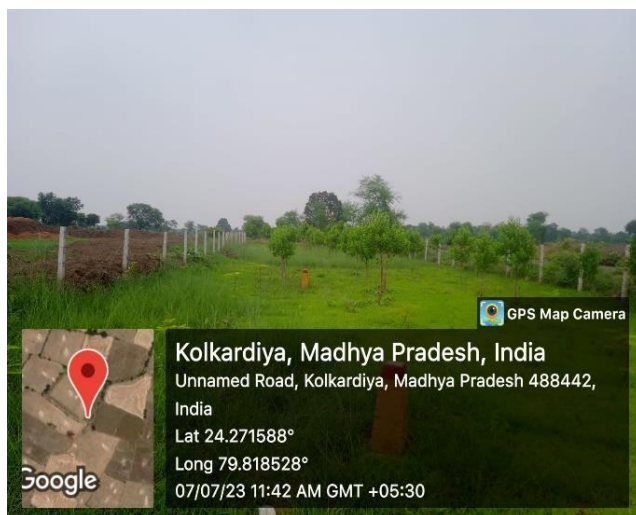


Annexure-11

Photographs of Kolkardiya Limestone Mine FY 2022-23 Plantation Status



Plantation done in FY 22-23 Monsoon at Mine Lease Boundary



New sapling plantation Photographs of Kolkarhiya Limestone Mine FY 2023-24 (July 23)



Total Plantation area 1.02 ha covered with 2632 nos of sapling at 7.5 mtr safety zone area near Pit D Location.