

SMPL/ENV/Mine/EC/

Through E. Mail

Date: 20.05.2023

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](mailto:tg035.ifs@nic.in)

**Sub:** Submission of Six-Monthly EC Compliance Report for the period: October-2022 to March-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 **October 2022 to March 2023**.

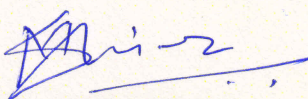
As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the soft copy of same has been sent through email to [tg035.ifs@nic.in](mailto:tg035.ifs@nic.in), [moef@nic.in](mailto:moef@nic.in), [ccb.cpcb@nic.in](mailto:ccb.cpcb@nic.in), [cpcb.bhopal@gov.in](mailto:cpcb.bhopal@gov.in), [monitoring-ec@nic.in](mailto:monitoring-ec@nic.in), [chairman-mppcb@mp.gov.in](mailto:chairman-mppcb@mp.gov.in), [romppcb\\_sagar@rediffmail.com](mailto: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](mailto: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](mailto: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](mailto: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](mailto:chairman-mppcb@mp.gov.in)
5. The Regional Officer, Regional Office, Madhya Pradesh State Pollution Control Board, Din Dayal Nagar, Housing Board Colony, Sagar (MP). Email: [romppcb\\_sagar@rediffmail.com](mailto:romppcb_sagar@rediffmail.com)



**Form for Uploading Six Monthly Compliance Report**

**Proposal Details**

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

**Compliance Letter/Report**

<b>Reporting Year*</b>	2023	<b>Reporting Period*</b>	October-2022 to March-2023
<b>Remarks (if any)</b>	Submitting herewith the Six-Monthly EC Compliance Report for the period: October-2022 to March-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**

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

**PRODUCTION CAPACITY**

<b>Name of the Product*</b>	<b>Units*</b>	<b>As per EC granted*</b>	<b>Production during last financial year: (2022-23) *</b>
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
<b>Total Excavation Quantity</b>	<b>Million TPA</b>	<b>14.11</b>	<b>0.00246504</b>

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: October-2022 to March-2023**

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.

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

<b>A. SPECIFIC CONDITION: -</b>				
<b>S. No.</b>	<b>Condition Type</b>	<b>Condition Details</b>	<b>Self Declaration</b>	<b>Remarks / Reason</b>
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	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.
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
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 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	Complied	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.  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 enclosed as <b>annexure-1</b> .

		collected in the pit be monitored for quality and treated accordingly.		
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.
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 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 to avoid any impact till the entire mining operation.
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.
vii	Miscellaneous	PP shall stay in touch with Forest and Wildlife Department for any intervention required in future for protecting the wildlife.	Complied	Noted.
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	Top soil is being/will be used for plantation and land reclamation. Photographs of plantation developed on top soil is enclosed as <b>Annexure-2</b> .
ix	Human Health Environment	Regular surveillance on 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"> <li>• 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.</li> <li>• Pre-employment medical checkup is being carried out.</li> </ul>



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 enclosed as <b>Annexure-3</b> .
<b>STANDARDS CONDITIONS:</b>				
<b>I. Statutory Compliance</b>				
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
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
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	Complied	Unit has taken the following measures to reduces the impact of mining activities on habitations: - <ul style="list-style-type: none"> <li>• Garland drain constructed,</li> <li>• Siltation pond facilitated,</li> <li>• Regular water spray on haul road is being done,</li> <li>• Company own road used for limestone transportation, and</li> </ul>

		mining Projects wherein Habitations and villages are the parts of mine lease areas or Habitations and villages are surrounded by the mine lease area”.		<ul style="list-style-type: none"> <li>• Carried out dense plantation.</li> </ul> <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"> <li>• Rainwater collected in mine pit will be supplied to nearby villagers during the lean period.</li> <li>• After installation of Mask light, it will be kept in off mode during night period,</li> <li>• Control blasting will be implemented after getting the permission of Blasting.</li> <li>• No village road will be used for transportation of mineral.</li> </ul>
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 enclosed as <b>Annexure-4</b> .
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	This condition is not related to us.
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	Complied	EC granted information published in two local newspapers i.e.: Dainik Bhasker and Raj Express copy of the Newspaper cutting is enclosed as <b>Annexure-5</b> .

		(www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.		
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 para 11 EIA Notification, 2006 as amended from time to time.	Complied	Noted, If any change in ownership of mining, will be intimated to the ministry.
<b>II. Air Quality Monitoring and Preservation</b>				
9)	Air Quality Monitoring and Preservation	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.	Agreed to Complied	<ul style="list-style-type: none"> <li>• The Mines EC is granted on 18.02.2022 and Mines is commencement on 21.03.2022 and Kolkarhiya Limestone Mine is in development stage.</li> <li>• Blasting permission is yet to be obtained however ambient air quality monitoring in core (Mine Site and Mine Boundary, Haul Road) and buffer zone (Village Kolkarhiya, Basan, Muhana, Rekra, Devri) is being carried out by NABL accredited and MoEFCC approved laboratory. Reports are enclosed as <b>Annexure-6</b>.</li> <li>• We are in process to finalize technical quotation for installation of the CAAQMS system along with digital display board as per applicable guidelines.</li> </ul>



10)		<p>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 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>	Complied	<p>Following safeguard measures taken for prevention of dust generation: -</p> <ul style="list-style-type: none"> <li>• Regular water sprinkling is being done on haul roads and loading and unloading point to control the fugitive emission.</li> <li>• Ambient air quality monitoring is being carried out on regular basis by NABL accredited laboratory and air pollution level are under norms.</li> <li>• Detail Ambient air quality and fugitive emission monitoring reports for the period: October-22 to March-23 are enclosed as <b><u>Annexure-6</u></b>.</li> </ul> <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"> <li>• Water sprinkling system will be provided at the dump hopper to control the fugitive emission.</li> <li>• 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.</li> </ul>
<b>III. Water Quality Monitoring and Preservation</b>				
11)	Water Quality Monitoring and Preservation	<p>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 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</p>	Complied	<p>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. Please refer Annexure-3 for the same.</p>

		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.</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 for the period: October-22 to March-23 is enclosed as <b>Annexure-7</b>.</p>
13)	Water Quality Monitoring and Preservation	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	Complied	<ul style="list-style-type: none"> <li>• Unit is monitoring the ground water quality on quarterly basis i.e.: Pre-monsoon (April-May), Monsoon (August), Post-monsoon (November) and Winter (January) by deploying NABL accredited Laboratory.</li> <li>• Detail ground water quality analysis report for the period: Post- monsoon and Winter are enclosed as <b>Annexure-8</b>.</li> </ul>

		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.		
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"> <li>• The Kolkarhiya Limestone Mine has been commencement on 21.03.2022 and is in development stage.</li> <li>• There is no waste generation from the Limestone mining operation.</li> </ul>
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 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.	Complied	<ul style="list-style-type: none"> <li>• Rainwater harvesting pond has been developed in village Kolkarhiya to augment the water resources.</li> <li>• Siltation pond and Garland drain has been constructed to augment water table.</li> <li>• Surface rain water is collected in the lower most benches to augment Ground water resources.</li> </ul> <p>Photos of implemented rainwater harvesting measures i.e.: Mine pit, Garland drain and Siltation pond etc. are enclosed as <b><u>Annexure-9</u></b>.</p>



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"> <li>• There is no industrial waste water is generated from the Mine operation.</li> <li>• 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 &amp; grease from waste water will be sold to recycler authorized from CPCB/SPCB.</li> <li>• Quality of water will be analyzed by NABL accredited Lab.</li> </ul>
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 Kolkarhiya 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, after getting blasting permission Borewell will be constructed and water audit will be conducted accordingly.
<b>IV.</b>	<b>Noise and Vibration Monitoring and Preservation</b>			
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 Kolkarhiya Limestone Mine has been commencement 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 yet to be obtained hence PPV will be monitored periodically and following measures will be implemented at due course of time.</p> <ul style="list-style-type: none"> <li>• Blasting operation will be carried out in day time only.</li> <li>• Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator for blasting will be used to mitigate vibration.</li> <li>• Water injection system on DTH drill will be provided which suppresses dust at its source of generation.</li> </ul>
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.	Complied	<ul style="list-style-type: none"> <li>• Unit is maintaining the illumination and noise level well within permissible limits during day and night hours.</li> </ul>

		Consequent sleeping 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.		<ul style="list-style-type: none"> <li>Detail noise level monitoring report of ambient &amp; work zone area for the period: October-22 to March-23 are enclosed as <b>Annexure-10</b>.</li> </ul>
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 are working without personal protective equipment.	Complied	<ul style="list-style-type: none"> <li>Ear Plugs, Mask and other PPES has been provided to workers engaged in mining.</li> <li>Onsite tool box talk is being conducted on daily basis and make them aware regarding safety and health aspect.</li> <li>Noise level monitoring is being carried out by NABL accredited laboratory and Noise level are under norms. Please refer Annexure-9 for report.</li> </ul>
<b>V. Mining Plan</b>				
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	Complied	<ul style="list-style-type: none"> <li>All mining activities are being carried out as per approved mining plan.</li> <li>Excavation quantity is maintaining well within the permitted limit. Details of excavation for the FY: 2022-23 is enclosed as <b>Annexure-11</b>.</li> </ul>

		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).		
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	<ul style="list-style-type: none"> <li>All mining activities are being carried out as per approved mining plan.</li> <li>Compliance status is being submitted to the MoEFCC and its concerned Regional Office on Half Yearly basis.</li> </ul>
<b>VI. Land Reclamation</b>				
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"> <li>Overburden generated during the mining operations are being at earmarked OB dump sites only.</li> <li>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.</li> <li>Top soil generation quantity from mining operation in the FY: 2022-23 is 398.37 MT. It is being used for plantation purpose.</li> </ul>
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	Complied	Noted



		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.		
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	<ul style="list-style-type: none"> <li>• Garland drain and setting tank has been constructed.</li> <li>• The drains/sedimentation sumps etc shall be de-silted regularly and after proper sedimentation mine water is utilized for various purposes.</li> </ul> Photographs of the same is enclosed as <b>Annexure-12</b> .
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	Complied	<ul style="list-style-type: none"> <li>• Garland drain, setting tank and siltation ponds has been constructed.</li> <li>• The drains/sedimentation sumps etc shall be de-silted regularly and after proper sedimentation mine water is utilized for various purposes.</li> </ul> Photographs of the same is enclosed as <b>Annexure-12</b> .

		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.		
<b>VII. Transportation</b>				
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 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).	Complied	Noted. No transportation of minerals will be transported through roads passing villages/habitation.

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"> <li>Regular water sprinkling is being done on haul roads and loading and unloading point to control the fugitive emission.</li> <li>Ambient air quality monitoring is being carried out on regular basis by NABL accredited laboratory and air pollution level are under norms.</li> <li>Detail Ambient air quality and fugitive emission monitoring reports for the period: October-22 to March-23 are enclosed as <b><u>Annexure-6.</u></b></li> </ul> <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"> <li>Water sprinkling system will be provided at the dump hopper to control the fugitive emission.</li> <li>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.</li> </ul>
<b>VIII. Green Belt</b>				
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"> <li>Plantation has been initiated around the mine lease and covered 0.02 ha area with 132 nos saplings. 2500 nos saplings will be planted in upcoming monsoon (July 2023).</li> <li>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.</li> </ul> <p>Photographs of plantation is enclosed as Annexure-2</p>
30)	Green Belt	The Project Proponent shall carryout plantation/ afforestation in backfilled	Being Complied	<ul style="list-style-type: none"> <li>Plantation has been initiated around the mine lease and covered 0.02 ha area with 132 nos saplings. 2500 nos</li> </ul>



		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>saplings will be planted in upcoming monsoon (July 2023).</p> <ul style="list-style-type: none"> <li>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.</li> <li>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. Photographs of plantation is enclosed as Annexure-2</li> </ul>
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.
<b>IX.</b>	<b>Public Hearing and Human Health Issues</b>			
32)	Public Hearing and Human Health Issues	Project Proponent shall make provision for the housing for workers/labors or shall contract labor	Complied	<ul style="list-style-type: none"> <li>All workers engaged are belongs to local area and they are living in their own houses, therefore temporary structure/ hutments are not required.</li> </ul>

		<p>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.</p>		<ul style="list-style-type: none"> <li>• Employees are residing in colony situated at Hatta Tehsil, where all basic facilities are available.</li> </ul> <p>There is no temporary structure /hutment has been constructed.</p>
<b>X.</b>	<b>Corporate Environment Responsibility (CER)</b>			
33)		<p>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&amp;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.</p>	Being Complied	<p>Activities proposed for CER will be implemented in a time bound manner and three years action plan of activities committed during public consultation and status is enclosed as <b>Annexure-13</b></p>
<b>XI.</b>	<b>Miscellaneous</b>			
34)	Miscellaneous	<p>The Project Proponent Shall prepare digital map (land use &amp; 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&amp;CC.</p>	Agreed to complied	<p>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.</p>
35)	Miscellaneous	<p>The Project Authorities should inform to the Regional Officer regarding date of financial closures and final approval of the project by the</p>	Complied	<p>Noted, Final Approval of the Project by MoEFCC is 18.02.2022. Land development work started on 21.03.2022.</p>

		concerned authorities and the date of start of land development work.		
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.
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.	Complied	Noted
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	Complied	Noted

		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
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



Photographs of protected Garland drain and siltation pond by wire fencing along pit area







Photographs of bund under development along proposed excavation area

Photographs of Plantation done on top soil along the lease area of Mine









(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

**NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION**

Project Name:	Springway Mining Pvt. Ltd		
Project Address:	Village-kol Kardiya, Tehsil- Pawai, District- Panna, M.p.		
Village:	Kolkardiya	Block:	Pawai
District:	Panna	State:	Madhya Pradesh
Pin Code:			
Communication Address:	C-1 Baijnath Dham Colony, Navodya Ward, Hatta Tehsil, Hatta, Damoh, Madhya Pradesh - 470775		
Address of CGWB Regional Office :	Central Ground Water Board North Central Region, Block-1, 4th Floor, Paryawas Bhawan, Area Hills, Jail Road, Bhopal, Madhya Pradesh - 462011		

1. <b>NOC No.:</b>	CGWA/NOC/MIN/ORIG/2021/13119											
2. Application No.:	21-4/854/MP/MIN/2019	3. Category: (GWRE 2020)	Safe									
4. Project Status:	New Project	5. NOC Type:	New									
6. <b>Valid from:</b>	27/09/2021	7. <b>Valid up to:</b>	26/09/2023									
8. Ground Water Abstraction Permitted:												
	Fresh Water		Saline Water									
	Dewatering		Total									
	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day									
	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day									
	10.00	3650.00	756.70									
			257613.00									
9. Details of ground water abstraction /Dewatering structures												
	<b>Total Existing No.:2</b>						<b>Total Proposed No.:0</b>					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*	0	0	1	0	1	0	0	0	0	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps												
10. Ground Water Abstraction/Restoration Charges paid (Rs.):							522526.00					
11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers						Monitoring Mechanism					
							Manual	DWLR**	DWLR With Telemetry			
**DWLR - Digital Water Level Recorder	2						0	1	1			

**(Compliance Conditions given overleaf)**

This is an auto generated document &amp; need not to be signed.

**Validity of this NOC shall be subject to compliance of the following conditions:**

**Mandatory conditions:**

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website ([www.cgwa-noc.gov.in](http://www.cgwa-noc.gov.in)) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

**General conditions:**

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m<sup>3</sup>/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

**(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)**





## SPRINGWAY MINING PRIVATE LTD.

CIN: U10100WB2010PTC152849

Project Office : H.No. C1, Baijnath Dham Colony, Navodaya Ward,

Hatta, Dist : Damoh, (M.P.) - 470775

Email : projects@springwaymining.co.in

To,

Date: 22/02/2022

**The Secretary/ Sarpanch,  
Gram Panchayat Kolkarhiya,  
Village Kolkarhiya, Tehsil Simariya, District Panna**

**Sub.:** Granted Environmental Clearance to Kolkarhiya limestone Mine of M/s Springway Mining Private Limited located over an area 499.641 ha in Village Kolkarhiya, Tehsil Pawai, District Panna, Madhya Pradesh regarding submission of copy of Environmental Clearance.

Dear Sir,

With references to above cited subject, we would like to submit herewith copy of accorded Environmental Clearance by MoEF&CC for granted Mining lease to M/s Springway Mining Private Limited over an area 499.641 ha in Village Kolkarhiya, Block Pawai, Tehsil Simariya, District Panna, Madhya Pradesh.

This is for your kind information and record please.

Thanking You,

Yours faithfully,

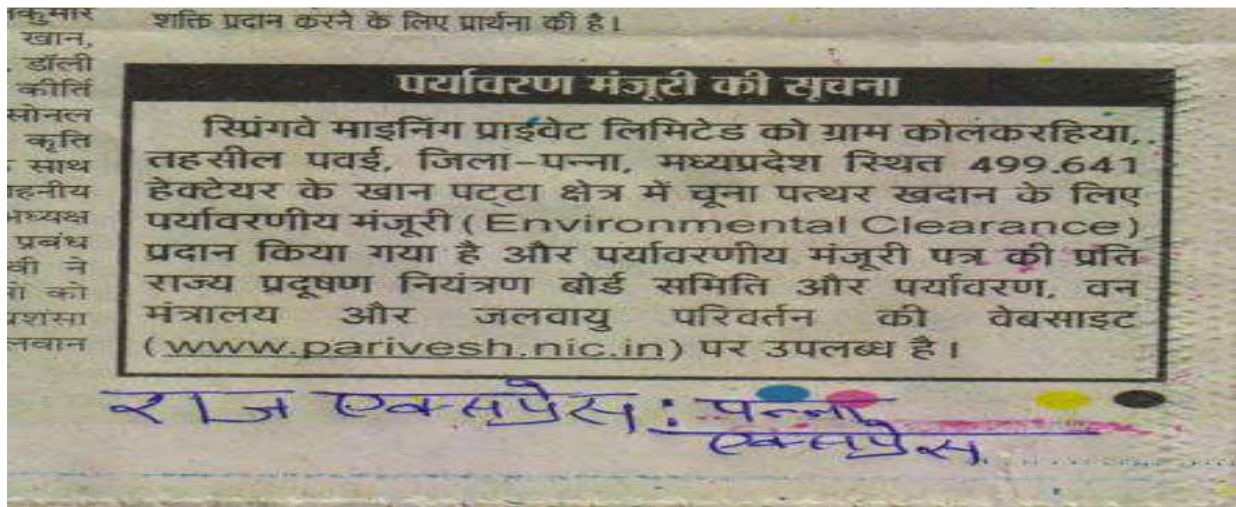
**For Kolkarhiya Limestone Mine,**

*Narender*  
**Narender Prakash Nema,  
(Geologist)**

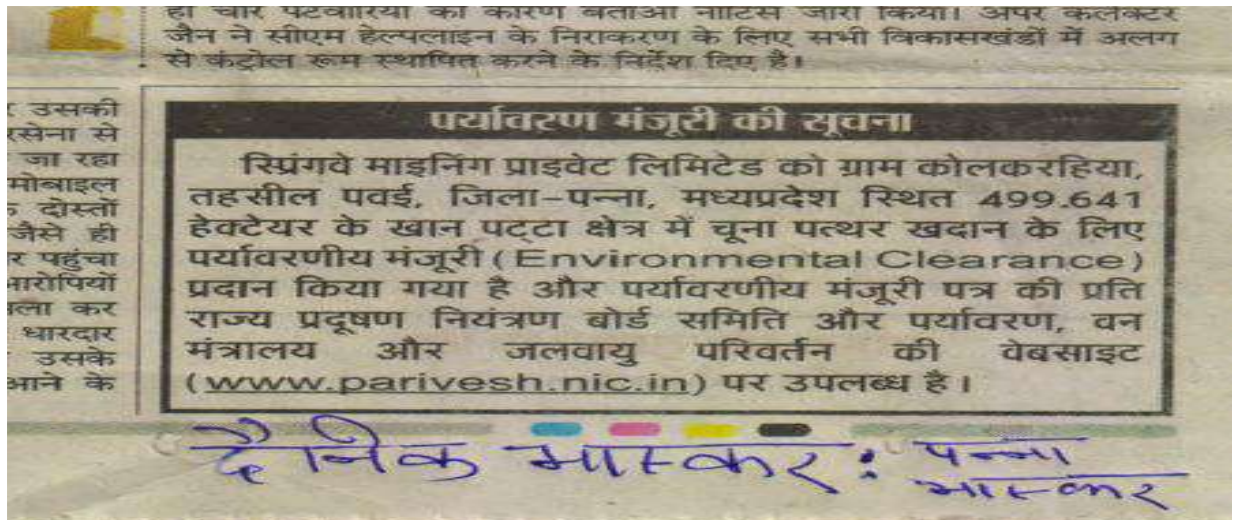
Encl: as above

*File 2/22/2022  
Page-120*

*[Signature]*  
प्रमुख कार्यपालक अभियंता  
मध्य प्रदेश राज्य पर्यावरण विभाग (म.प्र.)  
बिलासपुर



Raj Express



Dainik Bhasker





# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.



Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

Cert No.: TC-6872

## TEST REPORT

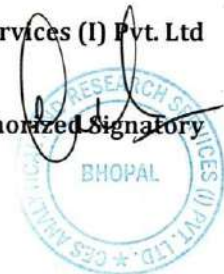
AMBIENT AIR QUALITY REPORT	
Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	ULR No.: TC6872221000000339 Dispatch No.: 11 Issue Date : 04.01.2023 Client Ref: Nil Date : Nil
Method of test : IS: 5182	<b>Sampling Details</b>
Test required: As per work order	<b>Sample Monitored</b> : Ambient Air Quality
Sample Collected By:- CES Representative	<b>Date of Sampling</b> : 27.12.2022
Instrument used: Eco Tech FDS	<b>Date of Receipt</b> : 29.12.2022
Page 1 of 2	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
No. of Sampling Locations -04	<b>Duration of sampling</b> : 8 hrs
Atmospheric condition : Clear	<b>Serial No. of samples</b> : 339/1 to 339/4

AMBIENT AIR QUALITY RESULTS						
S. No.	Parameters	NAAQ Standards	Pollutant Concentration			
			(339/1) Mine Pit	(339/2) Muhanna Village	(339/3) Rekra Village	(339/4) Haul Road
1	Wind direction		NW	NW	NW	NW
2	Wind speed km/h		7	7	7	7
3	Relative Humidity %		34	34	34	34
4	Ambient Temp. (°C)		25	25	25	25
	Parameters		Pollutant Concentration			
1	Particulate matter (size less than 10µm) or PM <sub>10</sub> (µg/m <sup>3</sup> ) -Part-23-2006	100	62.34	53.89	62.41	59.79
2	Particulate matter (size less than 2.5µm) or PM <sub>2.5</sub> (µg/m <sup>3</sup> )-	60	29.57	31.63	29.55	31.13
3	Sulphur Di-Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> ) - Part-2	80	8.31	12.37	9.63	12.64
4	Oxide of Nitrogen (NO <sub>2</sub> ) (µg/m <sup>3</sup> )- Part-4	80	20.57	15.28	18.76	21.49
5	Carbon monoxide (CO) (mg/m <sup>3</sup> )	04	<1.00	<1.00	<1.00	<1.00

NAAQ- National Ambient Air Quality Standards CPCB Notification 18<sup>th</sup> Nov. 2009

For CES Analytical and Research Services (I) Pvt. Ltd

Authorized Signatory



# The Results relate only to the sample tested/Sampled

Note:-The report will not valid for legal case, if Prior permission not taken from CES

NEELAM UPADHYAY  
TECHNICAL MANAGER

42, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.)

Telephone : 0755-4299319, Fax : 0755-4243510, Mobile : 9425009319

Email: cesanalytical@gmail.com, creativelab.bpl@gmail.com, Websearch : www.creativeenviroservices.com

**Note:**

- No statutory liability will be accepted for samples not collected by CES Analytical and Research Services (I) Pvt. Ltd.
- The report shall not be reproduced except in full without permission of CES Analytical and Research Services (I) Pvt. Ltd., Bhopal



# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.

Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



Cert No.: TC-6872

## TEST REPORT

AMBIENT AIR QUALITY REPORT	
Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarihiya, Tehsil Simariya</b> <b>Dist. Panna (M.P.) - 488442</b>	<b>ULR No.: TC6872221000000339</b> Dispatch No.:     Issue Date : 04.01.2023 Client Ref: Nil Date : Nil
Method of test : IS: 5182	<b>Sampling Details</b>
Test required: As per work order	<b>Sample Monitored</b> : Ambient Air Quality
Sample Collected By:- CES Representative	<b>Date of Sampling</b> : 27.12.2022
Instrument used: Eco Tech FDS	<b>Date of Receipt</b> : 29.12.2022
Page 2 of 2	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
No. of Sampling Locations -08	<b>Duration of sampling</b> : 8 hrs
Atmospheric condition : Clear	<b>Serial No. of samples</b> : 339/5 to 339/8

AMBIENT AIR QUALITY RESULTS						
S. No.	Parameters	NAAQ Standards	Pollutant Concentration			
			(339/5) Devri Village	(339/6) Proposed Crusher	(339/7) Kolkariya Village	(339/8) Basan Village
1	Wind direction		NW	NW	NW	NW
2	Wind speed km/h		7	7	7	7
3	Relative Humidity %		34	34	34	34
4	Ambient Temp. (°C)		25	25	25	25
	Parameters		Pollutant Concentration			
1	Particulate matter (size less than 10µm) or PM <sub>10</sub> (µg/m <sup>3</sup> ) -Part-23-2006	100	56.36	58.32	62.35	61.95
2	Particulate matter (size less than 2.5µm) or PM <sub>2.5</sub> (µg/m <sup>3</sup> )-	60	30.74	28.13	28.69	29.78
3	Sulphur Di-Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> ) - Part-2	80	10.33	11.57	9.78	8.33
4	Oxide of Nitrogen (NO <sub>2</sub> ) (µg/m <sup>3</sup> )- Part-4	80	12.65	20.48	18.63	14.87
5	Carbon monoxide (CO) (mg/m <sup>3</sup> )	04	<1.00	<1.00	<1.00	<1.00

NAAQ- National Ambient Air Quality Standards CPCB Notification 18<sup>th</sup> Nov. 2009

For CES Analytical and Research Services (I) Pvt. Ltd

Authorized Signatory



# The Results relate only to the sample tested/Sampled

Note:-The report will not valid for legal case, if Prior permission not taken from CES

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# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.



Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

Lab No.: TC-6872

## TEST REPORT

AMBIENT AIR QUALITY REPORT	
Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No.: TC6872231000000043F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Method of test : IS: 5182	<b>Sampling Details</b>
Test required: As per work order	<b>Sample Monitored</b> : Ambient Air Quality
Sample Collected By:- CES Representative	<b>Date of Sampling</b> : 28.03.2023 to 29.03.2023
Instrument used: Eco Tech FDS	<b>Date of Receipt</b> : 31.03.2023
Page 1 of 1	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
No. of Sampling Locations -08	<b>Duration of sampling</b> : 8 hrs
Atmospheric condition : Clear	<b>Serial No. of samples</b> : 42/1 to 42/4

AMBIENT AIR QUALITY RESULTS						
S.No.	Parameters	NAAQ Standards	Pollutant Concentration			
			(42/1) Mine Pit	(42/2) Muhanna Village	(42/3) Rekra Village	(42/4) Haul Road
1	Wind direction		W	W	W	W
2	Wind speed km/h		8	8	8	8
3	Relative Humidity %		18	18	18	18
4	Ambient Temp. (°C)		37	37	37	37
Parameters			Pollutant Concentration			
1	Particulate matter (size less than 10µm) or PM <sub>10</sub> (µg/m <sup>3</sup> )-Part-23-2006	100	58.21	50.38	56.60	59.01
2	Particulate matter (size less than 2.5µm) or PM <sub>2.5</sub> (µg/m <sup>3</sup> )-Part-24	60	29.37	27.46	28.85	28.78
3	Sulphur Di-Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> ) - Part-2	80	9.37	11.46	10.44	14.75
4	Oxide of Nitrogen (NO <sub>2</sub> ) (µg/m <sup>3</sup> ) - Part-6	80	20.57	13.71	19.38	20.43
5	Carbon monoxide (CO) (mg/m <sup>3</sup> )	04	<1.00	<1.00	<1.00	<1.00

NAAQ- National Ambient Air Quality Standards CPCB Notification 18<sup>th</sup> Nov. 2009

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
TECHNICAL MANAGER  
(BIOLOGICAL)

*M. Khantal*  
Authorized Signatory



The Results relate only to the sample tested/ sampled

Note:-The Report will not valid for any legal case, if prior permission not taken from CES.

-----\*End of Report\*-----

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# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.



Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

### AMBIENT AIR QUALITY REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil Simariya</b> <b>Dist. Panna (M.P.) - 488442</b>	<b>ULR No.: TC6872231000000043F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Method of test : IS: 5182	<b>Sampling Details</b>
Test required: As per work order	<b>Sample Monitored</b> : Ambient Air Quality
Sample Collected By:- CES Representative	<b>Date of Sampling</b> : 28.03.2023 to 29.03.2023
Instrument used: Eco Tech FDS	<b>Date of Receipt</b> : 31.03.2023
Page 1 of 1	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
No. of Sampling Locations -08	<b>Duration of sampling</b> : 8 hrs
Atmospheric condition : Clear	<b>Serial No. of samples</b> : 42/5 to 42/8

### AMBIENT AIR QUALITY RESULTS

S.No.	Parameters	NAAQ Standards	Pollutant Concentration			
			(42/5) Devri Village	(42/6) Proposed Crusher	(42/7) Kolkariya Village	(42/8) Basan Village
1	Wind direction		W	W	W	W
2	Wind speed km/h		8	8	8	8
3	Relative Humidity %		18	18	18	18
4	Ambient Temp. (°C)		37	37	37	37
Parameters			Pollutant Concentration			
1	Particulate matter (size less than 10µm) or PM <sub>10</sub> (µg/m <sup>3</sup> )-Part-23-2006	100	55.08	57.96	59.32	54.35
2	Particulate matter (size less than 2.5µm) or PM <sub>2.5</sub> (µg/m <sup>3</sup> )-Part-24	60	31.29	29.80	29.40	30.57
3	Sulphur Di-Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> ) - Part-2	80	8.75	12.57	10.22	9.56
4	Oxide of Nitrogen (NO <sub>2</sub> ) (µg/m <sup>3</sup> ) - Part-6	80	14.48	19.86	19.51	14.80
5	Carbon monoxide (CO) (mg/m <sup>3</sup> )	04	<1.00	<1.00	<1.00	<1.00

NAAQ- National Ambient Air Quality Standards CPCB Notification 18<sup>th</sup> Nov. 2009

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

**DR. SURENDRA SARSAYIA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



The Results relate only to the sample tested/ sampled

Note:-The Report will not valid for any legal case, if prior permission not taken from CES.

-----\*End of Report\*-----

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# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.

CIN : U74999MP2020PTC052747

## TEST REPORT

### Fugitive Dust Emission Report

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarihiya, Tehsil Simariya</b> <b>Dist. Panna (M.P.) - 488442</b>	<b>Test Report No:-CES/LAB/23-24/</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Method of test : IS: 5182	<b>Sampling Details</b>
Test required: As per work order	<b>Sample Monitored</b> : Fugitive Dust monitoring
Sample Collected By:- CES Representative	<b>Date of Sampling</b> : 28.03.2023
Instrument used: Eco Tech FDS	<b>Date of Receipt</b> : 31.03.2023
No. of Sampling Locations -01	<b>Period of testing</b> : 31.03.2023 to 06.04.2023

Fugitive Dust Emission Report				
S. No.	Parameters	Fugitive Standard	Proposed Crusher Area (Down Wind)	Mine Haul Road (Down Wind)
1	Wind direction		DW	DW
2	Wind speed km/h		8	8
3	Relative Humidity %		18	18
4	Ambient Temp. (°C)		37	37
	<b>Parameters</b>			
1	Suspended Particulate matter ( $\mu\text{g}/\text{m}^3$ )	<b>600</b>	270.00	276.00

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



The Results relate only to the sample tested/ sampled

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-----\*End of Report\*-----

**SANTOSH KHANTAL**  
**QUALITY MANAGER**

<b>Springway Mining Pvt. Ltd. (A unit of JSW Cement)</b>		
<b>Monthly Average Water level result of Kolkarhiya Limestone mine</b>		
	MONTH	WATER LEVEL (mWC) (- means bgl)
DATALOGGER ID SPRINGWAY02	Oct-22	<b>-3.76</b>
	Nov-22	<b>-9.20</b>
	Dec-22	<b>-13.99</b>
	Jan-23	<b>-14.51</b>
	Feb-23	<b>-15.51</b>
	Mar-23	<b>-14.66</b>

<b>Springway Mining Pvt. Ltd. (A unit of JSW Cement)</b>		
<b>Day-wise Water level details of Kolkarhiya Limestone mine</b>		
DATALOGGER ID	DATE/TIME	WATER LEVEL (mWC) (- means bgl)
SPRINGWAY02	01-10-2022 00:00	-3.41
SPRINGWAY02	01-10-2022 06:00	-3.43
SPRINGWAY02	01-10-2022 12:00	-3.48
SPRINGWAY02	01-10-2022 18:00	-3.49
SPRINGWAY02	02-10-2022 00:00	-3.53
SPRINGWAY02	02-10-2022 06:00	-3.56
SPRINGWAY02	02-10-2022 12:00	-3.62
SPRINGWAY02	02-10-2022 18:00	-3.63
SPRINGWAY02	03-10-2022 00:00	-3.67
SPRINGWAY02	03-10-2022 06:00	-3.70
SPRINGWAY02	03-10-2022 12:00	-3.77
SPRINGWAY02	03-10-2022 18:00	-3.78
SPRINGWAY02	04-10-2022 00:00	-3.83
SPRINGWAY02	04-10-2022 06:00	-3.85
SPRINGWAY02	04-10-2022 12:00	-3.89
SPRINGWAY02	04-10-2022 18:00	-3.90
SPRINGWAY02	05-10-2022 00:00	-3.94
SPRINGWAY02	05-10-2022 06:00	-3.95
SPRINGWAY02	05-10-2022 12:00	-3.99
SPRINGWAY02	05-10-2022 18:00	-3.97
SPRINGWAY02	06-10-2022 00:00	-3.85
SPRINGWAY02	06-10-2022 06:00	-3.61



SPRINGWAY02	06-10-2022 12:00	-3.42
SPRINGWAY02	06-10-2022 18:00	-3.24
SPRINGWAY02	07-10-2022 00:00	-3.11
SPRINGWAY02	07-10-2022 06:00	-2.98
SPRINGWAY02	07-10-2022 12:00	-2.91
SPRINGWAY02	07-10-2022 18:00	-2.80
SPRINGWAY02	08-10-2022 00:00	-2.77
SPRINGWAY02	08-10-2022 06:00	-2.74
SPRINGWAY02	08-10-2022 12:00	-2.74
SPRINGWAY02	08-10-2022 18:00	-2.70
SPRINGWAY02	09-10-2022 00:00	-2.72
SPRINGWAY02	09-10-2022 06:00	-2.72
SPRINGWAY02	09-10-2022 12:00	-2.76
SPRINGWAY02	09-10-2022 18:00	-2.75
SPRINGWAY02	10-10-2022 00:00	-2.79
SPRINGWAY02	10-10-2022 06:00	-2.80
SPRINGWAY02	10-10-2022 12:00	-2.84
SPRINGWAY02	10-10-2022 18:00	-2.84
SPRINGWAY02	11-10-2022 00:00	-2.87
SPRINGWAY02	11-10-2022 06:00	-2.88
SPRINGWAY02	11-10-2022 12:00	-2.92
SPRINGWAY02	11-10-2022 18:00	-2.91
SPRINGWAY02	12-10-2022 00:00	-2.95
SPRINGWAY02	12-10-2022 06:00	-2.97
SPRINGWAY02	12-10-2022 12:00	-3.03
SPRINGWAY02	12-10-2022 18:00	-3.02
SPRINGWAY02	13-10-2022 00:00	-3.07
SPRINGWAY02	13-10-2022 06:00	-3.09
SPRINGWAY02	13-10-2022 12:00	-3.14
SPRINGWAY02	13-10-2022 18:00	-3.13
SPRINGWAY02	14-10-2022 00:00	-3.17
SPRINGWAY02	14-10-2022 06:00	-3.19
SPRINGWAY02	14-10-2022 12:00	-3.23
SPRINGWAY02	14-10-2022 18:00	-3.23
SPRINGWAY02	15-10-2022 00:00	-3.26
SPRINGWAY02	15-10-2022 06:00	-3.28
SPRINGWAY02	15-10-2022 12:00	-3.32
SPRINGWAY02	15-10-2022 18:00	-3.32
SPRINGWAY02	16-10-2022 00:00	-3.36
SPRINGWAY02	16-10-2022 06:00	-3.39
SPRINGWAY02	16-10-2022 12:00	-3.45
SPRINGWAY02	16-10-2022 18:00	-3.46
SPRINGWAY02	17-10-2022 00:00	-3.50
SPRINGWAY02	17-10-2022 06:00	-3.53
SPRINGWAY02	17-10-2022 12:00	-3.58
SPRINGWAY02	17-10-2022 18:00	-3.56

SPRINGWAY02	18-10-2022 00:00	-3.59
SPRINGWAY02	18-10-2022 06:00	-3.61
SPRINGWAY02	18-10-2022 12:00	-3.67
SPRINGWAY02	18-10-2022 18:00	-3.66
SPRINGWAY02	19-10-2022 00:00	-3.69
SPRINGWAY02	19-10-2022 06:00	-3.72
SPRINGWAY02	19-10-2022 12:00	-3.77
SPRINGWAY02	19-10-2022 18:00	-3.78
SPRINGWAY02	20-10-2022 00:00	-3.81
SPRINGWAY02	20-10-2022 06:00	-3.83
SPRINGWAY02	20-10-2022 12:00	-3.90
SPRINGWAY02	20-10-2022 18:00	-3.91
SPRINGWAY02	21-10-2022 00:00	-3.94
SPRINGWAY02	21-10-2022 06:00	-3.97
SPRINGWAY02	21-10-2022 12:00	-4.05
SPRINGWAY02	21-10-2022 18:00	-4.03
SPRINGWAY02	22-10-2022 00:00	-4.07
SPRINGWAY02	22-10-2022 06:00	-4.09
SPRINGWAY02	22-10-2022 12:00	-4.14
SPRINGWAY02	22-10-2022 18:00	-4.14
SPRINGWAY02	23-10-2022 00:00	-4.17
SPRINGWAY02	23-10-2022 06:00	-4.19
SPRINGWAY02	23-10-2022 12:00	-4.24
SPRINGWAY02	23-10-2022 18:00	-4.23
SPRINGWAY02	24-10-2022 00:00	-4.23
SPRINGWAY02	24-10-2022 06:00	-4.26
SPRINGWAY02	24-10-2022 12:00	-4.30
SPRINGWAY02	24-10-2022 18:00	-4.30
SPRINGWAY02	25-10-2022 00:00	-4.32
SPRINGWAY02	25-10-2022 06:00	-4.34
SPRINGWAY02	25-10-2022 12:00	-4.39
SPRINGWAY02	25-10-2022 18:00	-4.41
SPRINGWAY02	26-10-2022 00:00	-4.45
SPRINGWAY02	26-10-2022 06:00	-4.48
SPRINGWAY02	26-10-2022 12:00	-4.54
SPRINGWAY02	26-10-2022 18:00	-4.55
SPRINGWAY02	27-10-2022 00:00	-4.56
SPRINGWAY02	27-10-2022 06:00	-4.58
SPRINGWAY02	27-10-2022 12:00	-4.64
SPRINGWAY02	27-10-2022 18:00	-4.65
SPRINGWAY02	28-10-2022 00:00	-4.67
SPRINGWAY02	28-10-2022 06:00	-4.69
SPRINGWAY02	28-10-2022 12:00	-4.74
SPRINGWAY02	28-10-2022 18:00	-4.74
SPRINGWAY02	29-10-2022 00:00	-4.77
SPRINGWAY02	29-10-2022 06:00	-4.79

SPRINGWAY02	29-10-2022 12:00	-4.85
SPRINGWAY02	29-10-2022 18:00	-4.86
SPRINGWAY02	30-10-2022 00:00	-4.88
SPRINGWAY02	30-10-2022 06:00	-4.90
SPRINGWAY02	30-10-2022 12:00	-4.96
SPRINGWAY02	30-10-2022 18:00	-4.96
SPRINGWAY02	31-10-2022 00:00	-4.99
SPRINGWAY02	31-10-2022 06:00	-5.02
SPRINGWAY02	31-10-2022 12:00	-5.06
SPRINGWAY02	31-10-2022 18:00	-5.07
<b>Monthly Average</b>		<b>-3.76</b>
SPRINGWAY02	01-11-2022 00:00	-5.12
SPRINGWAY02	01-11-2022 06:00	-5.15
SPRINGWAY02	01-11-2022 12:00	-5.22
SPRINGWAY02	01-11-2022 18:00	-5.25
SPRINGWAY02	02-11-2022 00:00	-5.33
SPRINGWAY02	02-11-2022 06:00	-5.36
SPRINGWAY02	02-11-2022 12:00	-5.43
SPRINGWAY02	02-11-2022 18:00	-5.44
SPRINGWAY02	03-11-2022 00:00	-5.50
SPRINGWAY02	03-11-2022 06:00	-5.55
SPRINGWAY02	03-11-2022 12:00	-5.68
SPRINGWAY02	03-11-2022 18:00	-5.72
SPRINGWAY02	04-11-2022 00:00	-5.83
SPRINGWAY02	04-11-2022 06:00	-5.90
SPRINGWAY02	04-11-2022 12:00	-6.04
SPRINGWAY02	04-11-2022 18:00	-6.06
SPRINGWAY02	05-11-2022 00:00	-6.18
SPRINGWAY02	05-11-2022 06:00	-6.29
SPRINGWAY02	05-11-2022 12:00	-6.35
SPRINGWAY02	05-11-2022 18:00	-6.42
SPRINGWAY02	06-11-2022 00:00	-6.58
SPRINGWAY02	06-11-2022 06:00	-6.73
SPRINGWAY02	06-11-2022 12:00	-6.84
SPRINGWAY02	06-11-2022 18:00	-6.96
SPRINGWAY02	07-11-2022 00:00	-7.09
SPRINGWAY02	07-11-2022 06:00	-7.15
SPRINGWAY02	07-11-2022 12:00	-7.30
SPRINGWAY02	07-11-2022 18:00	-7.31
SPRINGWAY02	08-11-2022 00:00	-7.43
SPRINGWAY02	08-11-2022 06:00	-7.46
SPRINGWAY02	08-11-2022 12:00	-7.48
SPRINGWAY02	08-11-2022 18:00	-7.55
SPRINGWAY02	09-11-2022 00:00	-7.65
SPRINGWAY02	09-11-2022 06:00	-7.72
SPRINGWAY02	09-11-2022 12:00	-7.72



SPRINGWAY02	09-11-2022 18:00	-7.74
SPRINGWAY02	10-11-2022 00:00	-7.79
SPRINGWAY02	10-11-2022 06:00	-7.78
SPRINGWAY02	10-11-2022 12:00	-7.76
SPRINGWAY02	10-11-2022 18:00	-7.90
SPRINGWAY02	11-11-2022 00:00	-8.06
SPRINGWAY02	11-11-2022 06:00	-8.20
SPRINGWAY02	11-11-2022 12:00	-8.26
SPRINGWAY02	11-11-2022 18:00	-8.31
SPRINGWAY02	12-11-2022 00:00	-8.41
SPRINGWAY02	12-11-2022 06:00	-8.46
SPRINGWAY02	12-11-2022 12:00	-8.47
SPRINGWAY02	12-11-2022 18:00	-8.52
SPRINGWAY02	13-11-2022 00:00	-8.61
SPRINGWAY02	13-11-2022 06:00	-8.68
SPRINGWAY02	13-11-2022 12:00	-8.69
SPRINGWAY02	13-11-2022 18:00	-8.75
SPRINGWAY02	14-11-2022 00:00	-8.84
SPRINGWAY02	14-11-2022 06:00	-8.92
SPRINGWAY02	14-11-2022 12:00	-8.95
SPRINGWAY02	14-11-2022 18:00	-9.00
SPRINGWAY02	15-11-2022 00:00	-9.06
SPRINGWAY02	15-11-2022 06:00	-9.13
SPRINGWAY02	15-11-2022 12:00	-9.13
SPRINGWAY02	15-11-2022 18:00	-9.21
SPRINGWAY02	16-11-2022 00:00	-9.30
SPRINGWAY02	16-11-2022 06:00	-9.45
SPRINGWAY02	16-11-2022 12:00	-9.42
SPRINGWAY02	16-11-2022 18:00	-9.51
SPRINGWAY02	17-11-2022 00:00	-9.54
SPRINGWAY02	17-11-2022 06:00	-9.67
SPRINGWAY02	17-11-2022 12:00	-9.68
SPRINGWAY02	17-11-2022 18:00	-9.75
SPRINGWAY02	18-11-2022 00:00	-9.84
SPRINGWAY02	18-11-2022 06:00	-9.96
SPRINGWAY02	18-11-2022 12:00	-9.95
SPRINGWAY02	18-11-2022 18:00	-10.02
SPRINGWAY02	19-11-2022 00:00	-10.10
SPRINGWAY02	19-11-2022 06:00	-10.23
SPRINGWAY02	19-11-2022 12:00	-10.24
SPRINGWAY02	19-11-2022 18:00	-10.30
SPRINGWAY02	20-11-2022 00:00	-10.37
SPRINGWAY02	20-11-2022 06:00	-10.52
SPRINGWAY02	20-11-2022 12:00	-10.51
SPRINGWAY02	20-11-2022 18:00	-10.57
SPRINGWAY02	21-11-2022 00:00	-10.64

SPRINGWAY02	21-11-2022 06:00	-10.75
SPRINGWAY02	21-11-2022 12:00	-10.75
SPRINGWAY02	21-11-2022 18:00	-10.77
SPRINGWAY02	22-11-2022 00:00	-10.86
SPRINGWAY02	22-11-2022 06:00	-10.99
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SPRINGWAY02	22-11-2022 18:00	-11.09
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SPRINGWAY02	23-11-2022 18:00	-11.31
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SPRINGWAY02	24-11-2022 12:00	-11.48
SPRINGWAY02	24-11-2022 18:00	-11.52
SPRINGWAY02	25-11-2022 00:00	-11.59
SPRINGWAY02	25-11-2022 06:00	-11.71
SPRINGWAY02	25-11-2022 12:00	-11.74
SPRINGWAY02	25-11-2022 18:00	-11.77
SPRINGWAY02	26-11-2022 00:00	-11.84
SPRINGWAY02	26-11-2022 06:00	-11.92
SPRINGWAY02	26-11-2022 12:00	-11.92
SPRINGWAY02	26-11-2022 18:00	-11.96
SPRINGWAY02	27-11-2022 00:00	-11.96
SPRINGWAY02	27-11-2022 06:00	-12.09
SPRINGWAY02	27-11-2022 12:00	-12.07
SPRINGWAY02	27-11-2022 18:00	-12.11
SPRINGWAY02	28-11-2022 00:00	-12.18
SPRINGWAY02	28-11-2022 06:00	-12.25
SPRINGWAY02	28-11-2022 12:00	-12.27
SPRINGWAY02	28-11-2022 18:00	-12.37
SPRINGWAY02	29-11-2022 00:00	-12.43
SPRINGWAY02	29-11-2022 06:00	-12.48
SPRINGWAY02	29-11-2022 12:00	-12.43
SPRINGWAY02	29-11-2022 18:00	-12.46
SPRINGWAY02	30-11-2022 00:00	-12.49
SPRINGWAY02	30-11-2022 06:00	-12.57
SPRINGWAY02	30-11-2022 12:00	-12.53
SPRINGWAY02	30-11-2022 18:00	-12.63
<b>Monthly Average</b>		<b>-9.20</b>
SPRINGWAY02	01-12-2022 00:00	-12.63
SPRINGWAY02	01-12-2022 06:00	-12.67
SPRINGWAY02	01-12-2022 12:00	-12.65
SPRINGWAY02	01-12-2022 18:00	-12.73
SPRINGWAY02	02-12-2022 00:00	-12.81
SPRINGWAY02	02-12-2022 06:00	-12.94

SPRINGWAY02	02-12-2022 12:00	-12.85
SPRINGWAY02	02-12-2022 18:00	-12.88
SPRINGWAY02	03-12-2022 00:00	-12.83
SPRINGWAY02	03-12-2022 06:00	-12.94
SPRINGWAY02	03-12-2022 12:00	-12.92
SPRINGWAY02	03-12-2022 18:00	-12.95
SPRINGWAY02	04-12-2022 00:00	-12.98
SPRINGWAY02	04-12-2022 06:00	-13.05
SPRINGWAY02	04-12-2022 12:00	-13.03
SPRINGWAY02	04-12-2022 18:00	-13.02
SPRINGWAY02	05-12-2022 00:00	-13.03
SPRINGWAY02	05-12-2022 06:00	-13.10
SPRINGWAY02	05-12-2022 12:00	-13.08
SPRINGWAY02	05-12-2022 18:00	-13.06
SPRINGWAY02	06-12-2022 00:00	-13.08
SPRINGWAY02	06-12-2022 06:00	-13.09
SPRINGWAY02	06-12-2022 12:00	-13.10
SPRINGWAY02	06-12-2022 18:00	-13.18
SPRINGWAY02	07-12-2022 00:00	-13.14
SPRINGWAY02	07-12-2022 06:00	-13.28
SPRINGWAY02	07-12-2022 12:00	-13.27
SPRINGWAY02	07-12-2022 18:00	-13.17
SPRINGWAY02	08-12-2022 00:00	-13.31
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SPRINGWAY02	08-12-2022 12:00	-13.60
SPRINGWAY02	08-12-2022 18:00	-13.49
SPRINGWAY02	09-12-2022 00:00	-13.65
SPRINGWAY02	09-12-2022 06:00	-13.84
SPRINGWAY02	09-12-2022 12:00	-13.71
SPRINGWAY02	09-12-2022 18:00	-13.95
SPRINGWAY02	10-12-2022 00:00	-13.87
SPRINGWAY02	10-12-2022 06:00	-13.88
SPRINGWAY02	10-12-2022 12:00	-13.85
SPRINGWAY02	10-12-2022 18:00	-14.13
SPRINGWAY02	11-12-2022 00:00	-14.23
SPRINGWAY02	11-12-2022 06:00	-14.38
SPRINGWAY02	11-12-2022 12:00	-14.16
SPRINGWAY02	11-12-2022 18:00	-14.47
SPRINGWAY02	12-12-2022 00:00	-14.50
SPRINGWAY02	12-12-2022 06:00	-14.47
SPRINGWAY02	12-12-2022 12:00	-14.37
SPRINGWAY02	12-12-2022 18:00	-14.64
SPRINGWAY02	13-12-2022 00:00	-14.49
SPRINGWAY02	13-12-2022 06:00	-14.54
SPRINGWAY02	13-12-2022 12:00	-14.45
SPRINGWAY02	13-12-2022 18:00	-14.72

SPRINGWAY02	14-12-2022 00:00	-14.88
SPRINGWAY02	14-12-2022 06:00	-14.97
SPRINGWAY02	14-12-2022 12:00	-14.66
SPRINGWAY02	14-12-2022 18:00	-14.79
SPRINGWAY02	15-12-2022 00:00	-14.68
SPRINGWAY02	15-12-2022 06:00	-14.49
SPRINGWAY02	15-12-2022 12:00	-14.47
SPRINGWAY02	15-12-2022 18:00	-14.43
SPRINGWAY02	16-12-2022 00:00	-14.35
SPRINGWAY02	16-12-2022 06:00	-14.26
SPRINGWAY02	16-12-2022 12:00	-14.24
SPRINGWAY02	16-12-2022 18:00	-14.51
SPRINGWAY02	17-12-2022 00:00	-14.58
SPRINGWAY02	17-12-2022 06:00	-14.54
SPRINGWAY02	17-12-2022 12:00	-14.42
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SPRINGWAY02	18-12-2022 06:00	-14.47
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SPRINGWAY02	19-12-2022 00:00	-14.48
SPRINGWAY02	19-12-2022 06:00	-14.27
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SPRINGWAY02	19-12-2022 18:00	-14.36
SPRINGWAY02	20-12-2022 00:00	-14.20
SPRINGWAY02	20-12-2022 06:00	-14.16
SPRINGWAY02	20-12-2022 12:00	-14.11
SPRINGWAY02	20-12-2022 18:00	-14.13
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SPRINGWAY02	21-12-2022 12:00	-14.04
SPRINGWAY02	21-12-2022 18:00	-14.04
SPRINGWAY02	22-12-2022 00:00	-14.05
SPRINGWAY02	22-12-2022 06:00	-14.00
SPRINGWAY02	22-12-2022 12:00	-14.00
SPRINGWAY02	22-12-2022 18:00	-14.03
SPRINGWAY02	23-12-2022 00:00	-14.06
SPRINGWAY02	23-12-2022 06:00	-14.03
SPRINGWAY02	23-12-2022 12:00	-14.02
SPRINGWAY02	23-12-2022 18:00	-14.11
SPRINGWAY02	24-12-2022 00:00	-14.05
SPRINGWAY02	24-12-2022 06:00	-14.02
SPRINGWAY02	24-12-2022 12:00	-14.03
SPRINGWAY02	24-12-2022 18:00	-14.04
SPRINGWAY02	25-12-2022 00:00	-14.06
SPRINGWAY02	25-12-2022 06:00	-14.05

SPRINGWAY02	25-12-2022 12:00	-14.05
SPRINGWAY02	25-12-2022 18:00	-14.17
SPRINGWAY02	26-12-2022 00:00	-14.26
SPRINGWAY02	26-12-2022 06:00	-14.19
SPRINGWAY02	26-12-2022 12:00	-14.18
SPRINGWAY02	26-12-2022 18:00	-14.31
SPRINGWAY02	27-12-2022 00:00	-14.22
SPRINGWAY02	27-12-2022 06:00	-14.18
SPRINGWAY02	27-12-2022 12:00	-14.23
SPRINGWAY02	27-12-2022 18:00	-14.46
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SPRINGWAY02	28-12-2022 12:00	-14.33
SPRINGWAY02	28-12-2022 18:00	-14.51
SPRINGWAY02	29-12-2022 00:00	-14.49
SPRINGWAY02	29-12-2022 06:00	-14.51
SPRINGWAY02	29-12-2022 12:00	-14.53
SPRINGWAY02	29-12-2022 18:00	-14.77
SPRINGWAY02	30-12-2022 00:00	-14.65
SPRINGWAY02	30-12-2022 06:00	-14.63
SPRINGWAY02	30-12-2022 12:00	-14.64
SPRINGWAY02	30-12-2022 18:00	-14.64
SPRINGWAY02	31-12-2022 00:00	-14.63
SPRINGWAY02	31-12-2022 06:00	-14.62
SPRINGWAY02	31-12-2022 12:00	-14.65
SPRINGWAY02	31-12-2022 18:00	-14.90
<b>Monthly Average</b>		<b>-13.99</b>
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SPRINGWAY02	01-01-2023 06:00	-14.93
SPRINGWAY02	01-01-2023 12:00	-14.90
SPRINGWAY02	01-01-2023 18:00	-15.22
SPRINGWAY02	02-01-2023 00:00	-15.05
SPRINGWAY02	02-01-2023 06:00	-14.93
SPRINGWAY02	02-01-2023 12:00	-14.83
SPRINGWAY02	02-01-2023 18:00	-14.97
SPRINGWAY02	03-01-2023 00:00	-14.89
SPRINGWAY02	03-01-2023 06:00	-14.84
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SPRINGWAY02	03-01-2023 18:00	-14.78
SPRINGWAY02	04-01-2023 00:00	-14.70
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SPRINGWAY02	04-01-2023 18:00	-14.67
SPRINGWAY02	05-01-2023 00:00	-14.65
SPRINGWAY02	05-01-2023 06:00	-14.63
SPRINGWAY02	05-01-2023 12:00	-14.61

SPRINGWAY02	05-01-2023 18:00	-14.78
SPRINGWAY02	06-01-2023 00:00	-14.67
SPRINGWAY02	06-01-2023 06:00	-14.60
SPRINGWAY02	06-01-2023 12:00	-14.55
SPRINGWAY02	06-01-2023 18:00	-14.59
SPRINGWAY02	07-01-2023 00:00	-14.65
SPRINGWAY02	07-01-2023 06:00	-14.59
SPRINGWAY02	07-01-2023 12:00	-14.65
SPRINGWAY02	07-01-2023 18:00	-14.96
SPRINGWAY02	08-01-2023 00:00	-14.73
SPRINGWAY02	08-01-2023 06:00	-14.64
SPRINGWAY02	08-01-2023 12:00	-14.78
SPRINGWAY02	08-01-2023 18:00	-14.85
SPRINGWAY02	09-01-2023 00:00	-14.69
SPRINGWAY02	09-01-2023 06:00	-14.63
SPRINGWAY02	09-01-2023 12:00	-14.64
SPRINGWAY02	09-01-2023 18:00	-14.86
SPRINGWAY02	10-01-2023 00:00	-14.70
SPRINGWAY02	10-01-2023 06:00	-14.64
SPRINGWAY02	10-01-2023 12:00	-14.64
SPRINGWAY02	10-01-2023 18:00	-14.84
SPRINGWAY02	11-01-2023 00:00	-14.66
SPRINGWAY02	11-01-2023 06:00	-14.60
SPRINGWAY02	11-01-2023 12:00	-14.61
SPRINGWAY02	11-01-2023 18:00	-14.61
SPRINGWAY02	12-01-2023 00:00	-14.57
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SPRINGWAY02	13-01-2023 12:00	-14.48
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SPRINGWAY02	14-01-2023 00:00	-14.46
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SPRINGWAY02	16-01-2023 18:00	-14.32
SPRINGWAY02	17-01-2023 00:00	-14.22

SPRINGWAY02	17-01-2023 06:00	-14.17
SPRINGWAY02	17-01-2023 12:00	-14.14
SPRINGWAY02	17-01-2023 18:00	-14.25
SPRINGWAY02	18-01-2023 00:00	-14.15
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SPRINGWAY02	18-01-2023 12:00	-14.10
SPRINGWAY02	18-01-2023 18:00	-14.20
SPRINGWAY02	19-01-2023 00:00	-14.11
SPRINGWAY02	19-01-2023 06:00	-14.08
SPRINGWAY02	19-01-2023 12:00	-14.07
SPRINGWAY02	19-01-2023 18:00	-14.25
SPRINGWAY02	20-01-2023 00:00	-14.16
SPRINGWAY02	20-01-2023 06:00	-14.12
SPRINGWAY02	20-01-2023 12:00	-14.15
SPRINGWAY02	20-01-2023 18:00	-14.15
SPRINGWAY02	21-01-2023 00:00	-14.16
SPRINGWAY02	21-01-2023 06:00	-14.11
SPRINGWAY02	21-01-2023 12:00	-14.36
SPRINGWAY02	21-01-2023 18:00	-14.48
SPRINGWAY02	22-01-2023 00:00	-14.35
SPRINGWAY02	22-01-2023 06:00	-14.28
SPRINGWAY02	22-01-2023 12:00	-14.28
SPRINGWAY02	22-01-2023 18:00	-14.54
SPRINGWAY02	23-01-2023 00:00	-14.43
SPRINGWAY02	23-01-2023 06:00	-14.36
SPRINGWAY02	23-01-2023 12:00	-14.37
SPRINGWAY02	23-01-2023 18:00	-14.62
SPRINGWAY02	24-01-2023 00:00	-14.44
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SPRINGWAY02	24-01-2023 12:00	-14.45
SPRINGWAY02	24-01-2023 18:00	-14.74
SPRINGWAY02	25-01-2023 00:00	-14.51
SPRINGWAY02	25-01-2023 06:00	-14.44
SPRINGWAY02	25-01-2023 12:00	-14.56
SPRINGWAY02	25-01-2023 18:00	-14.75
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SPRINGWAY02	26-01-2023 12:00	-14.58
SPRINGWAY02	26-01-2023 18:00	-14.72
SPRINGWAY02	27-01-2023 00:00	-14.51
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SPRINGWAY02	27-01-2023 12:00	-14.46
SPRINGWAY02	27-01-2023 18:00	-14.45
SPRINGWAY02	28-01-2023 00:00	-14.38
SPRINGWAY02	28-01-2023 06:00	-14.33
SPRINGWAY02	28-01-2023 12:00	-14.31

SPRINGWAY02	28-01-2023 18:00	-14.32
SPRINGWAY02	29-01-2023 00:00	-14.26
SPRINGWAY02	29-01-2023 06:00	-14.24
SPRINGWAY02	29-01-2023 12:00	-14.31
SPRINGWAY02	29-01-2023 18:00	-14.47
SPRINGWAY02	30-01-2023 00:00	-14.34
SPRINGWAY02	30-01-2023 06:00	-14.27
SPRINGWAY02	30-01-2023 12:00	-14.59
SPRINGWAY02	30-01-2023 18:00	-14.58
SPRINGWAY02	31-01-2023 00:00	-14.41
SPRINGWAY02	31-01-2023 06:00	-14.36
SPRINGWAY02	31-01-2023 12:00	-14.60
SPRINGWAY02	31-01-2023 18:00	-14.49
<b>Monthly Average</b>		<b>-14.51</b>
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SPRINGWAY02	01-02-2023 06:00	-14.30
SPRINGWAY02	01-02-2023 12:00	-14.51
SPRINGWAY02	01-02-2023 18:00	-14.58
SPRINGWAY02	02-02-2023 00:00	-14.47
SPRINGWAY02	02-02-2023 06:00	-14.46
SPRINGWAY02	02-02-2023 12:00	-14.72
SPRINGWAY02	02-02-2023 18:00	-14.77
SPRINGWAY02	03-02-2023 00:00	-14.56
SPRINGWAY02	03-02-2023 06:00	-14.51
SPRINGWAY02	03-02-2023 12:00	-14.75
SPRINGWAY02	03-02-2023 18:00	-14.71
SPRINGWAY02	04-02-2023 00:00	-14.64
SPRINGWAY02	04-02-2023 06:00	-14.60
SPRINGWAY02	04-02-2023 12:00	-14.59
SPRINGWAY02	04-02-2023 18:00	-14.55
SPRINGWAY02	05-02-2023 00:00	-14.67
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SPRINGWAY02	05-02-2023 12:00	-14.97
SPRINGWAY02	05-02-2023 18:00	-14.82
SPRINGWAY02	06-02-2023 00:00	-14.84
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SPRINGWAY02	06-02-2023 12:00	-14.97
SPRINGWAY02	06-02-2023 18:00	-14.94
SPRINGWAY02	07-02-2023 00:00	-14.92
SPRINGWAY02	07-02-2023 06:00	-14.88
SPRINGWAY02	07-02-2023 12:00	-15.05
SPRINGWAY02	07-02-2023 18:00	-15.01
SPRINGWAY02	08-02-2023 00:00	-14.98
SPRINGWAY02	08-02-2023 06:00	-14.95
SPRINGWAY02	08-02-2023 12:00	-15.41
SPRINGWAY02	08-02-2023 18:00	-15.35



SPRINGWAY02	09-02-2023 00:00	-15.18
SPRINGWAY02	09-02-2023 06:00	-15.07
SPRINGWAY02	09-02-2023 12:00	-15.40
SPRINGWAY02	09-02-2023 18:00	-15.61
SPRINGWAY02	10-02-2023 00:00	-15.32
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SPRINGWAY02	10-02-2023 12:00	-15.39
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SPRINGWAY02	11-02-2023 00:00	-15.44
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SPRINGWAY02	11-02-2023 12:00	-15.68
SPRINGWAY02	11-02-2023 18:00	-15.60
SPRINGWAY02	12-02-2023 00:00	-15.46
SPRINGWAY02	12-02-2023 06:00	-15.42
SPRINGWAY02	12-02-2023 12:00	-15.83
SPRINGWAY02	12-02-2023 18:00	-15.72
SPRINGWAY02	13-02-2023 00:00	-15.65
SPRINGWAY02	13-02-2023 06:00	-15.52
SPRINGWAY02	13-02-2023 12:00	-15.91
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SPRINGWAY02	14-02-2023 06:00	-15.62
SPRINGWAY02	14-02-2023 12:00	-16.03
SPRINGWAY02	14-02-2023 18:00	-15.89
SPRINGWAY02	15-02-2023 00:00	-15.74
SPRINGWAY02	15-02-2023 06:00	-15.69
SPRINGWAY02	15-02-2023 12:00	-15.79
SPRINGWAY02	15-02-2023 18:00	-15.78
SPRINGWAY02	16-02-2023 00:00	-15.77
SPRINGWAY02	16-02-2023 06:00	-15.73
SPRINGWAY02	16-02-2023 12:00	-15.82
SPRINGWAY02	16-02-2023 18:00	-15.80
SPRINGWAY02	17-02-2023 00:00	-15.77
SPRINGWAY02	17-02-2023 06:00	-15.74
SPRINGWAY02	17-02-2023 12:00	-15.80
SPRINGWAY02	17-02-2023 18:00	-15.78
SPRINGWAY02	18-02-2023 00:00	-15.78
SPRINGWAY02	18-02-2023 06:00	-15.77
SPRINGWAY02	18-02-2023 12:00	-15.90
SPRINGWAY02	18-02-2023 18:00	-16.08
SPRINGWAY02	19-02-2023 00:00	-16.23
SPRINGWAY02	19-02-2023 06:00	-15.88
SPRINGWAY02	19-02-2023 12:00	-16.27
SPRINGWAY02	19-02-2023 18:00	-16.26
SPRINGWAY02	20-02-2023 00:00	-15.95
SPRINGWAY02	20-02-2023 06:00	-15.83

SPRINGWAY02	20-02-2023 12:00	-16.19
SPRINGWAY02	20-02-2023 18:00	-16.24
SPRINGWAY02	21-02-2023 00:00	-15.97
SPRINGWAY02	21-02-2023 06:00	-15.86
SPRINGWAY02	21-02-2023 12:00	-16.16
SPRINGWAY02	21-02-2023 18:00	-15.98
SPRINGWAY02	22-02-2023 00:00	-15.97
SPRINGWAY02	22-02-2023 06:00	-15.95
SPRINGWAY02	22-02-2023 12:00	-15.97
SPRINGWAY02	22-02-2023 18:00	-15.96
SPRINGWAY02	23-02-2023 00:00	-15.94
SPRINGWAY02	23-02-2023 06:00	-15.92
SPRINGWAY02	23-02-2023 12:00	-15.95
SPRINGWAY02	23-02-2023 18:00	-15.95
SPRINGWAY02	24-02-2023 00:00	-15.93
SPRINGWAY02	24-02-2023 06:00	-15.92
SPRINGWAY02	24-02-2023 12:00	-15.95
SPRINGWAY02	24-02-2023 18:00	-15.92
SPRINGWAY02	25-02-2023 00:00	-15.86
SPRINGWAY02	25-02-2023 06:00	-15.85
SPRINGWAY02	25-02-2023 12:00	-15.91
SPRINGWAY02	25-02-2023 18:00	-15.88
SPRINGWAY02	26-02-2023 00:00	-15.84
SPRINGWAY02	26-02-2023 06:00	-15.84
SPRINGWAY02	26-02-2023 12:00	-15.90
SPRINGWAY02	26-02-2023 18:00	-15.88
SPRINGWAY02	27-02-2023 00:00	-15.83
SPRINGWAY02	27-02-2023 06:00	-15.81
SPRINGWAY02	27-02-2023 12:00	-15.86
SPRINGWAY02	27-02-2023 18:00	-15.84
SPRINGWAY02	28-02-2023 00:00	-15.81
SPRINGWAY02	28-02-2023 06:00	-15.80
SPRINGWAY02	28-02-2023 12:00	-16.16
SPRINGWAY02	28-02-2023 18:00	-15.84
<b>Monthly Average</b>		<b>-15.51</b>
SPRINGWAY02	01-03-2023 00:00	-15.80
SPRINGWAY02	01-03-2023 06:00	-15.79
SPRINGWAY02	01-03-2023 12:00	-15.83
SPRINGWAY02	01-03-2023 18:00	-15.80
SPRINGWAY02	02-03-2023 00:00	-15.76
SPRINGWAY02	02-03-2023 06:00	-15.73
SPRINGWAY02	02-03-2023 12:00	-15.83
SPRINGWAY02	02-03-2023 18:00	-15.79
SPRINGWAY02	03-03-2023 00:00	-15.70
SPRINGWAY02	03-03-2023 06:00	-15.68
SPRINGWAY02	03-03-2023 12:00	-15.70

SPRINGWAY02	03-03-2023 18:00	-15.67
SPRINGWAY02	04-03-2023 00:00	-15.64
SPRINGWAY02	04-03-2023 06:00	-15.61
SPRINGWAY02	04-03-2023 12:00	-15.63
SPRINGWAY02	04-03-2023 18:00	-15.60
SPRINGWAY02	05-03-2023 00:00	-15.57
SPRINGWAY02	05-03-2023 06:00	-15.55
SPRINGWAY02	05-03-2023 12:00	-15.54
SPRINGWAY02	05-03-2023 18:00	-15.51
SPRINGWAY02	06-03-2023 00:00	-15.44
SPRINGWAY02	06-03-2023 06:00	-15.42
SPRINGWAY02	06-03-2023 12:00	-15.44
SPRINGWAY02	06-03-2023 18:00	-15.41
SPRINGWAY02	07-03-2023 00:00	-15.37
SPRINGWAY02	07-03-2023 06:00	-15.34
SPRINGWAY02	07-03-2023 12:00	-15.34
SPRINGWAY02	07-03-2023 18:00	-15.30
SPRINGWAY02	08-03-2023 00:00	-15.28
SPRINGWAY02	08-03-2023 06:00	-15.25
SPRINGWAY02	08-03-2023 12:00	-15.26
SPRINGWAY02	08-03-2023 18:00	-15.23
SPRINGWAY02	09-03-2023 00:00	-15.22
SPRINGWAY02	09-03-2023 06:00	-15.20
SPRINGWAY02	09-03-2023 12:00	-15.19
SPRINGWAY02	09-03-2023 18:00	-15.15
SPRINGWAY02	10-03-2023 00:00	-15.13
SPRINGWAY02	10-03-2023 06:00	-15.05
SPRINGWAY02	10-03-2023 12:00	-15.09
SPRINGWAY02	10-03-2023 18:00	-15.06
SPRINGWAY02	11-03-2023 00:00	-15.00
SPRINGWAY02	11-03-2023 06:00	-14.98
SPRINGWAY02	11-03-2023 12:00	-15.01
SPRINGWAY02	11-03-2023 18:00	-14.97
SPRINGWAY02	12-03-2023 00:00	-14.93
SPRINGWAY02	12-03-2023 06:00	-14.91
SPRINGWAY02	12-03-2023 12:00	-15.02
SPRINGWAY02	12-03-2023 18:00	-14.95
SPRINGWAY02	13-03-2023 00:00	-14.87
SPRINGWAY02	13-03-2023 06:00	-14.85
SPRINGWAY02	13-03-2023 12:00	-14.85
SPRINGWAY02	13-03-2023 18:00	-14.82
SPRINGWAY02	14-03-2023 00:00	-14.80
SPRINGWAY02	14-03-2023 06:00	-14.78
SPRINGWAY02	14-03-2023 12:00	-14.78
SPRINGWAY02	14-03-2023 18:00	-14.75
SPRINGWAY02	15-03-2023 00:00	-14.73

SPRINGWAY02	15-03-2023 06:00	-14.71
SPRINGWAY02	15-03-2023 12:00	-14.71
SPRINGWAY02	15-03-2023 18:00	-14.68
SPRINGWAY02	16-03-2023 00:00	-14.65
SPRINGWAY02	16-03-2023 06:00	-14.64
SPRINGWAY02	16-03-2023 12:00	-14.63
SPRINGWAY02	16-03-2023 18:00	-14.60
SPRINGWAY02	17-03-2023 00:00	-14.58
SPRINGWAY02	17-03-2023 06:00	-14.54
SPRINGWAY02	17-03-2023 12:00	-14.56
SPRINGWAY02	17-03-2023 18:00	-14.53
SPRINGWAY02	18-03-2023 00:00	-14.49
SPRINGWAY02	18-03-2023 06:00	-14.47
SPRINGWAY02	18-03-2023 12:00	-14.46
SPRINGWAY02	18-03-2023 18:00	-14.41
SPRINGWAY02	19-03-2023 00:00	-14.40
SPRINGWAY02	19-03-2023 06:00	-14.38
SPRINGWAY02	19-03-2023 12:00	-14.38
SPRINGWAY02	19-03-2023 18:00	-14.35
SPRINGWAY02	20-03-2023 00:00	-14.33
SPRINGWAY02	20-03-2023 06:00	-14.30
SPRINGWAY02	20-03-2023 12:00	-14.30
SPRINGWAY02	20-03-2023 18:00	-14.26
SPRINGWAY02	21-03-2023 00:00	-14.25
SPRINGWAY02	21-03-2023 06:00	-14.22
SPRINGWAY02	21-03-2023 12:00	-14.22
SPRINGWAY02	21-03-2023 18:00	-14.19
SPRINGWAY02	22-03-2023 00:00	-14.15
SPRINGWAY02	22-03-2023 06:00	-14.13
SPRINGWAY02	22-03-2023 12:00	-14.16
SPRINGWAY02	22-03-2023 18:00	-14.12
SPRINGWAY02	23-03-2023 00:00	-14.10
SPRINGWAY02	23-03-2023 06:00	-14.07
SPRINGWAY02	23-03-2023 12:00	-14.15
SPRINGWAY02	23-03-2023 18:00	-14.10
SPRINGWAY02	24-03-2023 00:00	-14.03
SPRINGWAY02	24-03-2023 06:00	-14.01
SPRINGWAY02	24-03-2023 12:00	-14.02
SPRINGWAY02	24-03-2023 18:00	-13.99
SPRINGWAY02	25-03-2023 00:00	-13.98
SPRINGWAY02	25-03-2023 06:00	-13.97
SPRINGWAY02	25-03-2023 12:00	-13.98
SPRINGWAY02	25-03-2023 18:00	-13.96
SPRINGWAY02	26-03-2023 00:00	-13.94
SPRINGWAY02	26-03-2023 06:00	-13.93
SPRINGWAY02	26-03-2023 12:00	-13.93

SPRINGWAY02	26-03-2023 18:00	-13.90
SPRINGWAY02	27-03-2023 00:00	-13.88
SPRINGWAY02	27-03-2023 06:00	-13.83
SPRINGWAY02	27-03-2023 12:00	-13.87
SPRINGWAY02	27-03-2023 18:00	-13.84
SPRINGWAY02	28-03-2023 00:00	-13.80
SPRINGWAY02	28-03-2023 06:00	-13.78
SPRINGWAY02	28-03-2023 12:00	-13.81
SPRINGWAY02	28-03-2023 18:00	-13.78
SPRINGWAY02	29-03-2023 00:00	-13.75
SPRINGWAY02	29-03-2023 06:00	-13.73
SPRINGWAY02	29-03-2023 12:00	-13.76
SPRINGWAY02	29-03-2023 18:00	-13.72
SPRINGWAY02	30-03-2023 00:00	-13.70
SPRINGWAY02	30-03-2023 06:00	-13.68
SPRINGWAY02	30-03-2023 12:00	-13.73
SPRINGWAY02	30-03-2023 18:00	-13.65
SPRINGWAY02	31-03-2023 00:00	-13.64
SPRINGWAY02	31-03-2023 06:00	-13.64
SPRINGWAY02	31-03-2023 12:00	-13.64
SPRINGWAY02	31-03-2023 18:00	-13.61
<b>Monthly Average</b>		<b>-14.66</b>



# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.



Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkariya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC6872220000000960</b> Dispatch No:     Issue Date: 04.01.2023 Client Ref: Nil Date : Nil	
Qty : 1 No. x 4 litre	<b>Date of Collection</b>	: 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b>	: 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b>	: 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b>	: IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b>	: OK
Sample Collected By:- CES Representative	<b>Page no.</b>	: 1 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b>	: 960/1

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Kolkariya (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.02
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	<0.10
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	722.00
7	Total Alkalinity	mg/lit	2320 B	200	600	346.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	340.00
9	Calcium as Ca	mg/lit	3500 B	75	200	123.45
10	Magnesium as Mg	mg/lit	3500 B	30	100	7.78
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	148.93
12	Chlorides as Cl	mg/lit	4500-Cl- B	250	1000	51.98
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	0.18
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	15.00
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

# The Results relate only to the sample tested/Sampled

Note:-The report will not valid for legal case, if Prior permission not taken from CES

Authorized Signatory



**NEELAM UPADHYAY**  
TECHNICAL MANAGER

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkariya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date: Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/1

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Kolkariya (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

For CES Analytical and Research Services (I) Pvt. Ltd

# The Results relate only to the sample tested/Sampled

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Authorized Signatory



**NEELAM UPADHYAY**  
TECHNICAL MANAGER

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC687222000000960</b>	
	Dispatch No: 11	Issue Date: 04.01.2023
	Client Ref: Nil	Date: Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b>	: 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b>	: 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b>	: 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b>	: IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b>	: OK
Sample Collected By:- CES Representative	<b>Page no.</b>	: 3 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b>	: 960/2

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Simariya (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.06
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	<0.10
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	980.00
7	Total Alkalinity	mg/lit	2320 B	200	600	328.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	366.00
9	Calcium as Ca	mg/lit	3500 B	75	200	136.27
10	Magnesium as Mg	mg/lit	3500 B	30	100	6.32
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	191.49
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	128.96
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	1.33
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

# The Results relate only to the sample tested/Sampled

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC6872220000000960</b> Dispatch No:     Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 4 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/2

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Simariya (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

For CES Analytical and Research Services (I) Pvt. Ltd

# The Results relate only to the sample tested/Sampled

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Authorized Signatory

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# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.



Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872220000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 5 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/3

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Hirapur (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.30
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	5.20
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	383.00
7	Total Alkalinity	mg/lit	2320 B	200	600	90.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	96.00
9	Calcium as Ca	mg/lit	3500 B	75	200	33.67
10	Magnesium as Mg	mg/lit	3500 B	30	100	2.92
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	10.63
12	Chlorides as Cl	mg/lit	4500-Cl- B	250	1000	9.99
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	4.00
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

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## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 6 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/3

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Hirapur (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC6872220000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date: Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 7 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/4

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Gesabad (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.04
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	1.20
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	807.00
7	Total Alkalinity	mg/lit	2320 B	200	600	328.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	370.00
9	Calcium as Ca	mg/lit	3500 B	75	200	64.93
10	Magnesium as Mg	mg/lit	3500 B	30	100	50.54
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	170.21
12	Chlorides as Cl	mg/lit	4500-Cl- B	250	1000	135.96
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	3.33
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date: Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 8 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/4

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Gesabad (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC6872220000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date: Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 9 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/5

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Muhenna (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	6.88
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	1.30
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	667.00
7	Total Alkalinity	mg/lit	2320 B	200	600	344.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	318.00
9	Calcium as Ca	mg/lit	3500 B	75	200	22.44
10	Magnesium as Mg	mg/lit	3500 B	30	100	63.67
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	174.47
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	25.99
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	8.00
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil	
Qty : 1 No. x 4 litre	<b>Date of Collection</b>	: 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b>	: 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b>	: 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b>	: IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b>	: OK
Sample Collected By:- CES Representative	<b>Page no.</b>	: 10 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b>	: 960/5

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Muhenna (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

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Cert No.: TC-6872

## TEST REPORT

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Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 11 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/6

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Aamghar (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.17
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	1.70
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	1020.00
7	Total Alkalinity	mg/lit	2320 B	200	600	410.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	312.00
9	Calcium as Ca	mg/lit	3500 B	75	200	28.06
10	Magnesium as Mg	mg/lit	3500 B	30	100	58.81
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	95.74
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	136.96
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	30.00
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

# The Results relate only to the sample tested/Sampled

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Authorized Signatory



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# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.

Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil	
Qty : 1 No. x 4 litre	<b>Date of Collection</b>	: 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b>	: 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b>	: 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b>	: IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b>	: OK
Sample Collected By:- CES Representative	<b>Page no.</b>	: 12 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b>	: 960/6

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Aamghar (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

For CES Analytical and Research Services (I) Pvt. Ltd

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 13 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/7

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Mine pit (A) (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.59
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	15.20
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	724.00
7	Total Alkalinity	mg/lit	2320 B	200	600	268.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	154.00
9	Calcium as Ca	mg/lit	3500 B	75	200	25.65
10	Magnesium as Mg	mg/lit	3500 B	30	100	21.87
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	46.80
12	Chlorides as Cl	mg/lit	4500-Cl <sup>-</sup> B	250	1000	22.99
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	17.67
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC6872220000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil	
Qty : 1 No. x 4 litre	<b>Date of Collection</b>	: 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b>	: 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b>	: 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b>	: IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b>	: OK
Sample Collected By:- CES Representative	<b>Page no.</b>	: 14 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b>	: 960/7

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Mine pit (A) (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872220000000960</b> Dispatch No: <b>11</b> Issue Date: 04.01.2023 Client Ref: Nil Date: Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 15 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/8

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Maharajganj (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	6.79
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	0.50
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	802.00
7	Total Alkalinity	mg/lit	2320 B	200	600	110.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	150.00
9	Calcium as Ca	mg/lit	3500 B	75	200	28.86
10	Magnesium as Mg	mg/lit	3500 B	30	100	21.36
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	21.27
12	Chlorides as Cl	mg/lit	4500-Cl <sup>-</sup> B	250	1000	17.99
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	6.00
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 16 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/8

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Maharajganj (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr+ B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872220000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date: Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 17 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/9

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Devri (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	6.94
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	4.50
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	1354.00
7	Total Alkalinity	mg/lit	2320 B	200	600	312.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	386.00
9	Calcium as Ca	mg/lit	3500 B	75	200	62.52
10	Magnesium as Mg	mg/lit	3500 B	30	100	55.89
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	85.10
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	58.98
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	36.67
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

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## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 18 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/9

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Devri (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr+ B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

For CES Analytical and Research Services (I) Pvt. Ltd

# The Results relate only to the sample tested/Sampled

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Authorized Signatory



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# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.

Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC6872220000000960</b> Dispatch No:    Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 19 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/10

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Khariya (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	6.97
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	10.90
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	1224.00
7	Total Alkalinity	mg/lit	2320 B	200	600	360.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	320.00
9	Calcium as Ca	mg/lit	3500 B	75	200	32.06
10	Magnesium as Mg	mg/lit	3500 B	30	100	19.44
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	74.46
12	Chlorides as Cl	mg/lit	4500-Cl- B	250	1000	78.98
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	20.50
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 20 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/10

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Khariya (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

For CES Analytical and Research Services (I) Pvt. Ltd

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Surface Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 21 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/11

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Bearma River
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.71
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	2.80
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	298.00
7	Total Alkalinity	mg/lit	2320 B	200	600	96.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	114.00
9	Calcium as Ca	mg/lit	3500 B	75	200	30.46
10	Magnesium as Mg	mg/lit	3500 B	30	100	9.23
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	10.63
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	15.99
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	8.66
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC6872220000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil	
Qty : 1 No. x 4 litre	<b>Date of Collection</b>	: 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b>	: 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b>	: 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b>	: IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Surface Water</b>	<b>Sample tested as received</b>	: OK
Sample Collected By:- CES Representative	<b>Page no.</b>	: 22 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b>	: 960/11

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Bearma River
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872220000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Surface Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 23 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/12

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Sonar River
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	8.00
2	Colour	Hazen	-	5	15	Yellow
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	25.80
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	375.00
7	Total Alkalinity	mg/lit	2320 B	200	600	250.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	388.00
9	Calcium as Ca	mg/lit	3500 B	75	200	73.75
10	Magnesium as Mg	mg/lit	3500 B	30	100	49.57
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	82.98
12	Chlorides as Cl	mg/lit	4500-Cl- B	250	1000	22.99
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	8.00
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC687222000000960</b> Dispatch No: 11 Issue Date: 04.01.2023 Client Ref: Nil Date: Nil	
Qty : 1 No. x 4 litre	<b>Date of Collection</b>	: 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b>	: 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b>	: 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b>	: IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Surface Water</b>	<b>Sample tested as received</b>	: OK
Sample Collected By:- CES Representative	<b>Page no.</b>	: 24 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b>	: 960/12

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Sonar River
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

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Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC687222000000960</b> Dispatch No:     Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Drinking Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 25 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/13

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Kolkariya (Borewell)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	6.91
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	9.90
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	757.00
7	Total Alkalinity	mg/lit	2320 B	200	600	330.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	316.00
9	Calcium as Ca	mg/lit	3500 B	75	200	32.06
10	Magnesium as Mg	mg/lit	3500 B	30	100	57.35
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	53.19
12	Chlorides as Cl	mg/lit	4500-Cl- B	250	1000	73.98
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	20.00
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

# The Results relate only to the sample tested/Sampled

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Authorized Signatory

NEELAM UPADHYAY  
TECHNICAL MANAGER

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# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.



Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkariya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC687222000000960</b> Dispatch No: / / Issue Date: 04.01.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 4 litre	<b>Date of Collection</b> : 27.12.2022
Method of test : APHA 23 <sup>rd</sup> edition	<b>Date of Receipt</b> : 29.12.2022
Packing :- Plastic bottle	<b>Period of testing</b> : 29.12.2022 to 04.01.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : IS:3025
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Drinking Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 26 of 26
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 960/13

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Kolkariya (Borewell)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	<1.00
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	3111-B	0.003	No relaxation	<0.05
25	Lead as Pb	mg/lit	3111-B	0.01	No relaxation	<0.05
26	Mercury as Hg	mg/lit	3111-B	0.001	No relaxation	<0.01
27	Total Arsenic (as As),	mg/lit	3114-B	0.01	0.05	<0.05
28	Boron as B	mg/lit	4500-B-C	0.5	1.0	<0.10
29	Nickel (as Ni)	mg/lit	3111-B	0.02	No relaxation	<0.05
30	Total Chromium (as Cr)	mg/lit	3111-B	0.05	No relaxation	<0.05
31	Barium (as Ba)	mg/lit	3111-D	0.7	No relaxation	<1.00

For CES Analytical and Research Services (I) Pvt. Ltd

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkariya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/1

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Kolkariya (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.13
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	2.40
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	706.00
7	Total Alkalinity	mg/lit	2320 B	200	600	266.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	336.00
9	Calcium as Ca	mg/lit	3500 B	75	200	74.54
10	Magnesium as Mg	mg/lit	3500 B	30	100	36.45
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	196.01
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	23.99
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	11.16
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



The Results relate only to the sample tested/ sampled

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**SANTOSH KHANTAL**  
**QUALITY MANAGER**

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkariya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/1

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Kolkariya (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	32.94
21	Potassium as K	mg/lit	3500- K B	-	-	4.49
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Arunendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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-----\*End of Report\*-----

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/2

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Simariya (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.53
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	4.30
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	992.00
7	Total Alkalinity	mg/lit	2320 B	200	600	164.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	338.00
9	Calcium as Ca	mg/lit	3500 B	75	200	32.06
10	Magnesium as Mg	mg/lit	3500 B	30	100	62.69
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	126.05
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	192.94
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	20.75
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/2

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Simariya (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	64.57
21	Potassium as K	mg/lit	3500- K B	-	-	1.57
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Ausendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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-----\*End of Report\*-----

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, M/s Spring way Mining Private Limited Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	ULR No: TC6872230000000176F Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	Date of Collection : 28.03.2023
Method of test : Given Below	Date of Receipt : 31.03.2023
Packing :- Plastic bottle	Period of testing : 31.03.2023 to 06.04.2023
Sample Condition at receipt: packed	Method of sampling : -
Sample Discipline: Chemical Testing Sub Group: Ground Water	Sample tested as received : OK
Sample Collected By:- CES Representative	Page no. : 1 of 2
Total No. of Sample - 13	Serial No. of Sample : 176/3

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Hirapur (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.07
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	2.30
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	897.00
7	Total Alkalinity	mg/lit	2320 B	200	600	272.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	186.00
9	Calcium as Ca	mg/lit	3500 B	75	200	38.47
10	Magnesium as Mg	mg/lit	3500 B	30	100	21.87
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	260.44
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	42.98
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	17.01
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

*Santosh*  
Authorized Signatory



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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/3

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Hirapur (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	36.74
21	Potassium as K	mg/lit	3500- K B	-	-	<1.00
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAYIA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



The Results relate only to the sample tested/ sampled

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-----\*End of Report\*-----

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QUALITY MANAGER

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# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.



Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/4

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Gesabad (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.10
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	3.80
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	915.00
7	Total Alkalinity	mg/lit	2320 B	200	600	316.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	208.00
9	Calcium as Ca	mg/lit	3500 B	75	200	44.88
10	Magnesium as Mg	mg/lit	3500 B	30	100	23.32
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	121.27
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	119.96
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	20.70
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

*Santosh Khan*  
Authorized Signatory



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TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/4

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Gesabad (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	50.93
21	Potassium as K	mg/lit	3500- K B	-	-	14.62
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>6+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



TC-6872

## TEST REPORT

Name & Address of the Customer To, M/s Spring way Mining Private Limited Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	ULR No: TC6872230000000176F Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	Date of Collection : 28.03.2023
Method of test : Given Below	Date of Receipt : 31.03.2023
Packing :- Plastic bottle	Period of testing : 31.03.2023 to 06.04.2023
Sample Condition at receipt: packed	Method of sampling : -
Sample Discipline: Chemical Testing Sub Group: Ground Water	Sample tested as received : OK
Sample Collected By:- CES Representative	Page no. : 1 of 2
Total No. of Sample - 13	Serial No. of Sample : 176/5

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Muhenna (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.20
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	3.80
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	852.00
7	Total Alkalinity	mg/lit	2320 B	200	600	250.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	212.00
9	Calcium as Ca	mg/lit	3500 B	75	200	47.29
10	Magnesium as Mg	mg/lit	3500 B	30	100	22.84
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	224.87
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	30.99
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	4.64
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil	
Qty : 1 No. x 1 litre	<b>Date of Collection</b>	: 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b>	: 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b>	: 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b>	: -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b>	: OK
Sample Collected By:- CES Representative	<b>Page no.</b>	: 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b>	: 176/5

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Muhenna (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	30.76
21	Potassium as K	mg/lit	3500- K B	-	-	11.67
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Aurendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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-----\*End of Report\*-----

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TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC687223000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/6

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Aamghar (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.39
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	3.80
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	1535.00
7	Total Alkalinity	mg/lit	2320 B	200	600	284.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	248.00
9	Calcium as Ca	mg/lit	3500 B	75	200	48.89
10	Magnesium as Mg	mg/lit	3500 B	30	100	30.61
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	384.68
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	135.95
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	1.91
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:   
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

  
Authorized Signatory



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TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/6

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Aamghar (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	212.50
21	Potassium as K	mg/lit	3500- K B	-	-	42.50
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By: *Ausendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory  
*[Signature]*

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-----\*End of Report\*-----

**SANTOSH KHANTAL**  
**QUALITY MANAGER**

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TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/7

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Mine pit (A) (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.42
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	3.00
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	911.00
7	Total Alkalinity	mg/lit	2320 B	200	600	230.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	304.00
9	Calcium as Ca	mg/lit	3500 B	75	200	33.66
10	Magnesium as Mg	mg/lit	3500 B	30	100	53.46
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	256.40
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	41.98
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	16.06
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By: **DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



The Results relate only to the sample tested/ sampled

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42, Doorsanchar Nagar, Near Savoy Complex, E-8 Extension, Gulmohar, Bhopal-462 039 (M.P.)

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# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.

Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/7

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Mine pit (A) (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	46.91
21	Potassium as K	mg/lit	3500- K B	-	-	1.75
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>6+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:   
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

  
**Authorized Signatory**



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-----\*End of Report\*-----

**SANTOSH KHANTIA**  
**QUALITY MANAGER**

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/8

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Maharajganj (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.51
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	4.70
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	624.00
7	Total Alkalinity	mg/lit	2320 B	200	600	342.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	198.00
9	Calcium as Ca	mg/lit	3500 B	75	200	15.23
10	Magnesium as Mg	mg/lit	3500 B	30	100	38.88
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	62.36
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	24.99
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	0.33
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

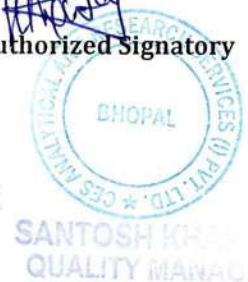
For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:   
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

  
Authorized Signatory

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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/8

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Maharajganj (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	32.95
21	Potassium as K	mg/lit	3500- K B	-	-	1.62
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*A Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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-----\*End of Report\*-----

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TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/9

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Devri (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.44
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	1.60
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	549.00
7	Total Alkalinity	mg/lit	2320 B	200	600	230.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	144.00
9	Calcium as Ca	mg/lit	3500 B	75	200	3.20
10	Magnesium as Mg	mg/lit	3500 B	30	100	33.04
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	41.87
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	32.98
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	8.43
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	ULR No: TC6872230000000176F Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	Date of Collection : 28.03.2023
Method of test : Given Below	Date of Receipt : 31.03.2023
Packing :- Plastic bottle	Period of testing : 31.03.2023 to 06.04.2023
Sample Condition at receipt: packed	Method of sampling : -
Sample Discipline: Chemical Testing Sub Group: Ground Water	Sample tested as received : OK
Sample Collected By:- CES Representative	Page no. : 2 of 2
Total No. of Sample - 13	Serial No. of Sample : 176/9

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Devri (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	25.33
21	Potassium as K	mg/lit	3500- K B	-	-	3.74
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/10

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Khariya (Hand Pump)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.14
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	3.60
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	1546.00
7	Total Alkalinity	mg/lit	2320 B	200	600	140.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	574.00
9	Calcium as Ca	mg/lit	3500 B	75	200	196.39
10	Magnesium as Mg	mg/lit	3500 B	30	100	20.41
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	330.78
12	Chlorides as Cl	mg/lit	4500-Cl- B	250	1000	29.99
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	2.06
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

*Santosh Khantia*  
Authorized Signatory



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TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Ground Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/10

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Khariya (Hand Pump)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	85.83
21	Potassium as K	mg/lit	3500- K B	-	-	4.28
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAYIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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**SANTOSH KHANDE**  
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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Surface Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/11

S. No.	Test Parameters	Unit	Method No.	Result Obtained Bayarma River
1	pH	-	4500 H+B	7.28
2	Colour	Hazen	-	Colourless
3	Odour	-	-	Odourless
4	Taste	-	-	Agreeable
5	Turbidity	NTU	2130 B	4.50
6	Total Dissolved Solid	mg/lit	2540 C	313.00
7	Total Alkalinity	mg/lit	2320 B	342.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	118.00
9	Calcium as Ca	mg/lit	3500 B	17.63
10	Magnesium as Mg	mg/lit	3500 B	17.98
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	35.10
12	Chlorides as Cl	mg/lit	4500-Cl B	14.99
13	Iron as Fe	mg/lit	3500- Fe B	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	1.20
15	Fluoride as F	mg/lit	4500- F D	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*A Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

*Santosh Khanna*  
**Authorized Signatory**



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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Surface Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/11

S. No.	Test Parameters	Unit	Method No.	Result Obtained Bayarma River
18	Phosphate as P	mg/lit	4500-PD	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	35.49
21	Potassium as K	mg/lit	3500- K B	1.97
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	<0.01
23	Zinc as Zn	mg/lit	3111-B	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline:</b> Chemical Testing <b>Sub Group:</b> Surface Water	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/12

S. No.	Test Parameters	Unit	Method No.	Result Obtained Sonar River
1	pH	-	4500 H+B	7.61
2	Colour	Hazen	-	Yellow
3	Odour	-	-	Odourless
4	Taste	-	-	Agreeable
5	Turbidity	NTU	2130 B	17.30
6	Total Dissolved Solid	mg/lit	2540 C	424.00
7	Total Alkalinity	mg/lit	2320 B	182.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	190.00
9	Calcium as Ca	mg/lit	3500 B	8.01
10	Magnesium as Mg	mg/lit	3500 B	41.31
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	129.09
12	Chlorides as Cl	mg/lit	4500-Cl- B	26.99
13	Iron as Fe	mg/lit	3500- Fe B	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	1.86
15	Fluoride as F	mg/lit	4500- F D	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

*Santosh Khanna*  
**Authorized Signatory**



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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarhiya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Surface Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/12

S. No.	Test Parameters	Unit	Method No.	Result Obtained Sonar River
18	Phosphate as P	mg/lit	4500-PD	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	35.16
21	Potassium as K	mg/lit	3500- K B	2.82
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	<0.01
23	Zinc as Zn	mg/lit	3111-B	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:   
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

  
**Authorized Signatory**



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TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkariya, Tehsil</b> <b>Simariya Dist. Panna (M.P.) - 488442</b>	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Drinking Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 1 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/13

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Kolkariya (Borewell)
				Desirable Limit	Permissible limit	
1	pH	-	4500 H+B	5.5 -8.5	No relaxation	7.11
2	Colour	Hazen	-	5	15	Colourless
3	Odour	-	-	Agreeable	Agreeable	Odourless
4	Taste	-	-	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	2130 B	1	5	3.90
6	Total Dissolved Solid	mg/lit	2540 C	500	2000	982.00
7	Total Alkalinity	mg/lit	2320 B	200	600	340.00
8	Total Hardness as CaCO <sub>3</sub>	mg/lit	2340 C	200	600	244.00
9	Calcium as Ca	mg/lit	3500 B	75	200	43.28
10	Magnesium as Mg	mg/lit	3500 B	30	100	33.04
11	Sulphates as SO <sub>4</sub>	mg/lit	4500- SO <sub>4</sub> E	200	400	364.00
12	Chlorides as Cl	mg/lit	4500-Cl B	250	1000	38.98
13	Iron as Fe	mg/lit	3500- Fe B	0.30	No relaxation	<0.05
14	Nitrate as NO <sub>3</sub>	mg/lit	4500-NO <sub>3</sub> B	45	No relaxation	0.47
15	Fluoride as F	mg/lit	4500- F D	1.0	1.5	<0.10
16	Copper as Cu	mg/lit	3500-Cu B	0.05	1.5	<0.03
17	Manganese as Mn	mg/lit	3500- Mn B	0.1	0.3	<0.20

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



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TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> Address: Village Kolkarhiya, Tehsil Simariya Dist. Panna (M.P.) - 488442	<b>ULR No: TC6872230000000176F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Qty : 1 No. x 1 litre	<b>Date of Collection</b> : 28.03.2023
Method of test : Given Below	<b>Date of Receipt</b> : 31.03.2023
Packing :- Plastic bottle	<b>Period of testing</b> : 31.03.2023 to 06.04.2023
<b>Sample Condition at receipt: packed</b>	<b>Method of sampling</b> : -
<b>Sample Discipline: Chemical Testing</b> <b>Sub Group: Drinking Water</b>	<b>Sample tested as received</b> : OK
Sample Collected By:- CES Representative	<b>Page no.</b> : 2 of 2
<b>Total No. of Sample - 13</b>	<b>Serial No. of Sample</b> : 176/13

S. No.	Test Parameters	Unit	Method No.	Requirement as per IS-10500-2012		Result Obtained Village Kolkariya (Borewell)
				Desirable Limit	Permissible limit	
18	Phosphate as P	mg/lit	4500-PD	-	-	<0.01
19	Phenolic compound	mg/lit	IS:3025 P-34	0.001	0.002	<0.0001
20	Sodium as Na	mg/lit	3500- Na B	-	-	53.82
21	Potassium as K	mg/lit	3500- K B	-	-	3.13
22	Chromium as Cr <sup>6+</sup>	mg/lit	3500-Cr <sup>+</sup> B	0.05	No relaxation	<0.01
23	Zinc as Zn	mg/lit	3111-B	5	15	<0.05
24	Cadmium as Cd	mg/lit	IS:3025 P-65 ICP-MS	0.003	No relaxation	<0.00005
25	Lead as Pb	mg/lit	IS:3025 P-65 ICP-MS	0.01	No relaxation	<0.00025
26	Mercury as Hg	mg/lit	IS:3025 P-65 ICP-MS	0.001	No relaxation	<0.000025
27	Total Arsenic (as As),	mg/lit	IS:3025 P-65 ICP-MS	0.01	0.05	<0.00025
28	Boron as B	mg/lit	IS:3025 P-65 ICP-MS	0.5	1.0	<0.01
29	Nickel (as Ni)	mg/lit	IS:3025 P-65 ICP-MS	0.02	No relaxation	<0.0005
30	Total Chromium (as Cr)	mg/lit	IS:3025 P-65 ICP-MS	0.05	No relaxation	<0.00125
31	Barium (as Ba)	mg/lit	IS:3025 P-65 ICP-MS	0.7	No relaxation	<0.01

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAIYA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

*Santosh Khanna*  
Authorized Signatory



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-----\*End of Report\*-----

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Mine Pit for rainwater Harvesting



Garland Drain





Siltation Pond



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Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747



Cert No.: TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkariya, Tehsil Simariya Dist.</b> <b>Panna (M.P.) - 488442</b>	<b>ULR No.: TC6872222000000297</b> Dispatch No.: 11 Issue Date : 04.01.2022 Client Ref: Nil Date : Nil
Sample Particulars: Ambient Noise Level Monitoring	<b>Date of monitoring</b> : 27.12.2022
Test required: As given below	<b>Date of Receipt</b> : 29.12.2022
Protocol for testing : IS-9989-2001	<b>Date of commencement of testing</b> : 29.12.2022
Sample collected by: CES representative	<b>Sample condition at receipt</b> : Ok
Page no. 1 of 1	<b>Sample tested as received</b> : 29.12.2022

## TEST RESULTS

### Day Time

S. No.	Location	Unit	Monitoring Time	Noise level	
				Minimum	Maximum
1	Village: Kolkariya	dB(A)	11:00 AM	37.80	58.60
2	Village : Vasan	dB(A)	11:10 AM	36.20	56.40
3	Mine Pit	dB(A)	11:20 AM	27.60	42.80
4	Village : Muhanna	dB(A)	11:30 AM	32.20	50.80
5	Village : Rekra	dB(A)	11:40 AM	38.40	60.50
6	Houl Road	dB(A)	11:50 AM	33.90	62.40
7	Village : Devri	dB(A)	12:00 PM	30.20	45.40
8	Proposed Crusher	dB(A)	12:10 PM	36.10	47.50

For CES Analytical and Research Services (I) Pvt. Ltd

Authorized Signatory

The Results relate only to the sample tested/ sampled.

Note:-The report will not valid for any legal case, if prior permission not taken from CES.

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TECHNICAL MANAGER

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### Note:

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# CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD.



Accredited Organisation by National Accreditation Board for Testing and Calibration Laboratories (NABL) CIN : U74999MP2020PTC052747

TC-6872

## TEST REPORT

Name & Address of the Customer To, <b>M/s Spring way Mining Private Limited</b> <b>Address: Village Kolkarihiya, Tehsil Simariya Dist.</b> <b>Panna (M.P.) - 488442</b>	<b>ULR No.: TC687223200000042F</b> Dispatch No.: 52 Issue Date : 06.04.2023 Client Ref: Nil Date : Nil
Sample Particulars: Ambient Noise Level Monitoring	<b>Date of monitoring</b> : 28.03.2023
Test required: As given below	<b>Date of Receipt</b> : 31.03.2023
Protocol for testing : IS-9989-2001	<b>Date of commencement of testing</b> : 31.03.2023
Sample collected by: CES representative	<b>Sample condition at receipt</b> : Ok
Page no. 1 of 1	<b>Sample tested as received</b> : 31.03.2023

## TEST RESULTS

### Day Time

S. No.	Location	Unit	Monitoring Time	Noise level	
				Minimum	Maximum
1	Village: Kolkariya	dB(A)	10:30 AM	52.30	66.70
2	Village : Vasana	dB(A)	10:40 AM	41.20	55.70
3	Mine Pit	dB(A)	10:50 AM	36.30	49.70
4	Village : Muhanna	dB(A)	11:00 AM	42.70	65.90
5	Village : Rekra	dB(A)	11:10 AM	38.30	48.90
6	Houl Road	dB(A)	11:30 AM	38.90	45.10
7	Village : Devri	dB(A)	11:40 AM	42.30	48.30
8	Proposed Crusher	dB(A)	12:00 PM	38.40	52.60

For CES Analytical and Research Services (I) Pvt. Ltd

Checked By:

*Surendra*  
**DR. SURENDRA SARSAYIA**  
**TECHNICAL MANAGER**  
**(BIOLOGICAL)**

Authorized Signatory



The Results relate only to the sample tested/ sampled

Note:-The Report will not valid for any legal case, if prior permission not taken from CES.

-----\*End of Report\*-----

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Garland Drain



Siltation Pond





Settling tank

## Public Hearing issues action plan

S. No	Physical Targets	EMP (PH concerns) Budget & 3 Year Plan of Activity (in Rs. Lakhs)				Detailed description with cost
		I	II	III	Total	
		Year	Year	Year		
1	Construction of boundary wall of garden and development of Garden in Village KolKarahiya near Govt. Middle School.	20.0	10.0	10.0	40.0	<ul style="list-style-type: none"> <li>➤ I year - Garden area (about 1 Acre i.e. 43,560 Sq.ft.) - Land Cost with Registration - Rs. 16 Lakhs, Boundary Wall 830 ft. length of 5 ft. height @ Rs. 90 per Sq.ft. with Gate, etc. - 4 Lakhs,</li> <li>➤ II + III year - Garden development (Plants, Saplings, grass, Rides, walk ways, Open gym, etc.) - 20 Lakhs</li> </ul>
2	Construction of Skill Development Center (SDC) in Village KolKarahiya near School	34.0	15.0	15.0	64.0	<ul style="list-style-type: none"> <li>➤ I year - Land for SDC (about 4 Ares i.e. 4300 Sq ft. Cost - Rs. 1.6 Lakhs ), Rooms (4 nos.x150 sq.ft.) &amp; hall (2 no.x 600 sq.ft.) with fittings, fixture, furniture, etc. @ Rs.1800 per sq. ft.) - Rs. 32.4 Lakhs, Total 1.6+32.4 = Rs. 34 Lakhs</li> <li>➤ II + III year - Workshop Shed, Sewing m/c - 10 nos. and Tools &amp; Tackles for repair of Sewing m/c, TV &amp; Mobile, Two wheelers, Electric gadgets, Cutting &amp; welding, etc.- 30 Lakhs</li> </ul>
3	Four hand pumps in village KolKarahiya (2), Devri (1), Raikra (1) will be established for water source.	1.0	1.0	2.0	4.0	All the four hand pumps will be installed in the scattered & isolated areas of villages where piped water is not available. Approximate cost of Hand pump including drilling, casing, pipes & instruments is about Rs. 1 lakh per hand pump.
4	Overhead Water Tank Construction for drinking water supply at Kolkarhiya Village	-	30.0	25.0	55.0	<ul style="list-style-type: none"> <li>➤ Village population - 1324 nos., considering 10% growth after the past census, Population considered is about 1500, water consumption per person per day as per JalJivan Mission in rural area @ 135 Ltrs. per person, total daily requirement -202 KL, O/H water tank Size - 300 KL, Cost of O/H tank with pipe lines, valves, etc. - 55 Lakhs. Pipeline for water supply in the village is already there and water is being supplied from a bore well with pump but power supply in village is very irregular, so villagers insisted for O/H tank in the PH.</li> </ul>
5	Digital Classroom Development by facilitating the online education system by providing Wi-Fi connectivity and desktop/tablets at Village KolKarahiya, Devri and Raikra	19.0	14.5	3.5	37.0	<ul style="list-style-type: none"> <li>➤ Screen for Digital Classroom, computer &amp; other accessories, etc. Rs. 1.5 Lakhs per classroom, Kolkarahiya (Middle &amp; Primary schools)- 4 sets, Devri (Middle school) - 1 sets, Raikra (Middle school)- 1 sets, Simariya (Sr. Secondary School) - 7 sets = 13 rooms/set ups, Desktop computers 50 nos. @ Rs. 0.35 lakhs each</li> </ul>



	Providing furniture (Table and chair) for 300 students in the schools of Village KolKarhiya, Devri and Raikra	2.0	2.0	2.0	<b>6.0</b>	Table & chairs for about 300 students @ Rs. 2000/set = 6 Lakhs (schools of Village KolKarhiya - 150, Devri -75 and Raikra - 75)
	Creation of Playground, sports & games facility in schools of Village Kol Karhiya & Devri	-	3.0	4.0	<b>7.0</b>	KolKarhiya - 4.5 Lakhs & Devri - 2.5 Lakhs
6	Complete renovation of internal Roads & Cross drains in KolKariya, Devri and Raikra Villages	35.0	42.0	49.0	<b>126.0</b>	Length of Road in Kolkarhiya - 2400 m, Devri - 660 m, Raikra - 540 m, Avg. Width - 3 m, Cost of CC road with cross drains in village ineranl area is @ Rs. 35 Lakhs per Km for 3 m Width,
7	Ambulance Van and Development of sub-health center at Village Kol Karhiya	15.0	15.0	16.0	<b>46.0</b>	Ambulance Van - 15 Lakhs, Defabrillator (AED) - 1.5 Lakh, Rooms (3 nos.) etc. - 27 Lakhs; Beds, Medicines, Instruments, Hospital materials, etc. - 2.5 Lakhs
8	To support for basic infrastructure & equipments to health center as per need of community in Village Devri - renovation	3.0	5.0	12.0	<b>20.0</b>	Rooms (2 nos.) etc. - 18 Lakhs; Beds, Medicines, Instruments, Hospital materials, etc. - 2 Lakhs
9	Establishment of a COVID center at Village Panchayat of project villages with necessary medical equipment providing Oxygen concentrators, beds, PPE Kits, support in vaccination, one Ambulance, Awareness for COVID. Vaccination Program, etc	36.0	-	-	<b>36.0</b>	<ul style="list-style-type: none"> <li>➤ Oxygen Concentrator - 20 nos. @ Rs. 0.5 Lakhs each, Beds - 50 nos. @ Rs. 0.1 Lakhs each, PPE Kits - 200 @ Rs. 500 each, Ambulance - Rs. 15 Lakhs for establishment of <b>Covid centre</b> at Simariya which lateron will be used for other serious diseases</li> <li>➤ Motivating, Campaigning &amp; Arranging for <b>Vaccination</b> in Kolkarahiya, Devri &amp; Raikra villages - 5 Lakhs,</li> </ul>
10	Providing Solar Lighting in Kolkarhiya, Devri & Raikra Villages	1.8	3.6	3.6	<b>9.0</b>	<ul style="list-style-type: none"> <li>➤ 80 watt solar light with panel - Rs. 9000, Pole 8 m - Rs. 7000, Foundation &amp; flooring etc. Rs. 2000, total - Rs. 18,000 per solar light, Total 50 nos. in villages Kolkarhiya -30, Devri-10 &amp; Raikra-10</li> </ul>
	<b>Total</b>	<b>166.8</b>	<b>141.1</b>	<b>142.1</b>	<b>450.0</b>	