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VILLAGE - KHERI BATTAR, TEHSIL - CHARKHI DADRI, DISTT. - CHARKHI DADRI (HR.)

Ref.

Date: 23.11.2022

Date : _____

To
The Director, Ministry of Environment, Forests & Climate Change,
Northern Regional Office,
Sector-31, Dakshin Marg,
Chandigarh-160030

Sub: Submission of Six Monthly Compliance Report of Stipulated Conditions of Environment Clearance for proposed stone along with associates Minor Minerals at Kheribattar plot -2 over an area 42.01 Ha tehsil- Dadri District- Bhiwani, Haryana for Submission period of December-2022.

Ref. No. 1. SEIAA/HR/2016/875 dated: 04.10.2016
2. 13-27/2016(ENV)/413 dated: 02.12.2019

Sir,

In accordance to the EC letter as above stated received from State Environment Impact Assessment Authority (SEIAA) vide letter SEIAA/HR/2016/875 dated: 04.10.2016. We are submitting herewith six monthly compliance report of stipulated conditions of Environment Clearance (Soft only) along with laboratory analysis results the specific and general conditions and relevant annexure.

We fully assure you that we will comply with all conditions as specified in the Environment clearance granted us.

For M/s ASD RKC JV,


Authorised Signatory,



Name - Sanjeev Kumar Singh
Designation- Business Head
E-mail - singh_sanjiv@rediffmail.com
Contact No.- +91 98330 80030

Copy to:

1. State Environment Impact Assessment Authority (SEIAA), Bay No. 55-58, Paryatan Bhavan, Sector-2, Panchkula, Haryana.
2. The Chairmen, Haryana State Pollution Control Board (HSPCB), Sector-6, Panchkula

M/s ASD RKC J.V. (Mining of Stone along with Associated Minor Minerals
at Kheribattar Plot-2, Tehsil- Dadri, District-Bhiwani, Haryana).
EC No. SEIAA/HR/2016/875 Dated-04.10.2016

**SIX MONTHLY ENVIRONMENTAL COMPLIANCE MONITORING REPORT OF
STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE
(Period-April 2022 to September 2022)**

FOR

**“Stone along with Associated Minor Minerals at Kheribattar Plot-2,
Teshsil-Dadri, District-Bhiwani, Haryana.**

SUBMITTED BY:

M/s ASD RKC J.V.

40, Laxmi Nagar, Near Sub City Centre,

HiranMagri, Sector-8, Udaipur,

Rajasthan-313002

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1

INTRODUCTION

1.1 About the Project

M/s ASD RKC J.V. has obtained the Environmental Clearance Letter from State Environment Impact Assessment Authority, Haryana for the Mining of "Stone along with Associated Minor Minerals" at Kheribattar Plot-2, over an area of 42.0 Ha. in Tehsil-Dadri, District-Bhiwani, Haryana Vide Ref. No. SEIAA/HR/2016/875 on dated: 04.10.2016.

The Total area of the mining site is 42.0 Ha. The total cost of the project is 4.23 Crores. The approval for the mining scheme and progressive mine closure plan was obtained from the Department of Mines & Geology, Haryana vide letter no. DMG/HY/MP/Kheribattar-2/2015/478-481 dated 12.01.2016.

1.2 Purpose of the Report

As per the "Sub Para (j)" of "Para 10" of EIA Notification 2006, it is stated that "It shall be mandatory for the project management to submit six monthly compliance reports in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year" and as per compliance of condition mentioned in Environment Clearance Letter (i.e. Part B General Condition, point number IX), Six monthly compliance reports should be submitted to the Regulatory Authority of Central and State Government.

It is mandatory to submit a Six Monthly Compliance Report to show the status & compliance of all the Conditions mentioned in Environment clearance Letter, along with monitoring of various Environmental Parameters (as per CPCB Norms).

The regulatory authorities in this case are MoEF & CC, Delhi, MoEF & CC, Chandigarh, SEIAA and HSPCB, Panchkula. Various scheduled Site Visits were conducted by a team of Experts to Monitor Pollution related parameters as defined by CPCB / HSPCB. Samples for water and soil were also collected for further analysis.

Based on the Specific and General Conditions mentioned in the EC Letter, a Compliance Report was prepared on behalf of Project Proponent; details of which are present in Chapter - 2 entitled "**Adherence of specific and general conditions**".

This report is supposed to submit after every six month as per the conditions stipulated in Environment Clearance Letter. The Environmental assessment has been carried out to verify:

- 1) That the proposed project has not any adverse effect on the project site as well as its surrounding.
- 2) That there is compliance with the conditions stipulated in the Environmental Clearance Letter.
- 3) That the Project proponent is implementing the environmental safeguards and environmental pollution mitigative measures as suggested in approved Mining Plan, Form-1 and Environment Management Plan.
- 4) The non-conformity in the project with respect to the environmental implication of the project.

1.3 Methodology for Preparation of Report is as follows:

- 1) Study of EC Letter & Related Documents,
- 2) Site Visits by a Team of Experts,
- 3) Monitoring of Environment Parameters, viz. Ambient Air, Water, Noise, Soil & DG stack emissions,
- 4) Analysis of Samples collected during Monitoring,
- 5) Interpretation of Monitoring Results,
- 6) Preparation of six-monthly Environmental Compliance Report.

1.4 Generic Structure of Report:

1. Purpose of the Report, explaining the need of a Compliance Report and Methodology Adopted for preparation of Report .
2. Compliance Report, explaining the entire specific & general conditions given in the EC Letter and providing details w.r.t. each condition/ guideline.
3. Monitoring Reports & Analysis, showing the level of pollution/emission within the project site for various Environment Parameters.
4. Photographs showing status of the project and sampling/monitoring of environmental parameters.
5. Supporting Documents related mandatory for the project.

2

ADHERENCE OF SPECIFIC AND GENERAL CONDITIONS

Part A: Specific Conditions

S. No.	Specific Conditions	Reply																		
1.	<p>This Environmental Clearance is granted for Production of Stone along with Associated Minerals as per below mentioned figures.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Bench mRL</th> <th>Production</th> </tr> </thead> <tbody> <tr> <td>First</td> <td>381, 372, 363, 354, 336, 327</td> <td>70 lakh MT</td> </tr> <tr> <td>Second</td> <td>327, 318, 309, 300</td> <td>70 lakh MT</td> </tr> <tr> <td>Third</td> <td>300, 291, 282</td> <td>75 lakh MT</td> </tr> <tr> <td>Fourth</td> <td>282 & 273</td> <td>80 lakh MT</td> </tr> <tr> <td>Fifth</td> <td>264 & 255</td> <td>81.66 lakh MT</td> </tr> </tbody> </table>	Year	Bench mRL	Production	First	381, 372, 363, 354, 336, 327	70 lakh MT	Second	327, 318, 309, 300	70 lakh MT	Third	300, 291, 282	75 lakh MT	Fourth	282 & 273	80 lakh MT	Fifth	264 & 255	81.66 lakh MT	<p>Agreed. Environmental Clearance was granted in favour of M/s ASD RKC J.V. for Mining of Stone along with Associated Minor Minerals at Kheribattar Plot-2, Tehsil-Dadri, District-Bhiwani, Haryana by SEIAA vide letter no. SEIAA/HR/2016/875 dated 04.10.2016. Copy of EC is enclosed as Annexure- 1.</p>
Year	Bench mRL	Production																		
First	381, 372, 363, 354, 336, 327	70 lakh MT																		
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Fifth	264 & 255	81.66 lakh MT																		
2.	<p>The project proponent shall obtain prior CTO under Air Act and Water Act from HSPCB and effectively implement all the conditions stipulated by the HSPCB.</p>	<p>The project proponent has obtained CTO from State Pollution Control Board, Haryana. The letter number of the CTO is 313100421CRDCTO12611329 dated-07.07.2021 and valid up to-30.09.2026 Copy of the same is enclosed as Annexure- 2.</p>																		
3.	<p>The project proponent shall carry out mining activity strictly as per the approved Mining plan.</p>	<p>Mining activity is being carrying out strictly as per the approved old Mining Plan. Vide letter no. DMG/HY/MP/Kheribattar-2/2015/478-481 dated - 12.01.2016. And Approved New Mining Plan. Vide letter no. DMG/HY/ Kheribattar-3900-3903 dated 04.10.2021 Copy of the same is enclosed as Annexure- 3.</p>																		
4.	<p>The project proponent shall ensure that the mining operations shall not intersect groundwater table and the mining operation should be restricted at least 3 meter above the ground water table.</p>	<p>Agreed. Mining Activity is being done as per approved mining plan Vide letter no. DMG/HY/MP/Kheribattar-2/2015/478-481 dated - 12.01.2016 And Approved New Mining Plan. Vide letter no. DMG/HY/ Kheribattar-3900-3903 dated 04.10.2021. Copy of the same is enclosed as Annexure- 3. and mining operation will not intersect ground water and mining will be restricted at least 3m above ground water table. Copy of the same is enclosed as Annexure- 3.</p>																		
5.	<p>Topsoil shall be stacked temporarily at earmarked sites only and it shall not be kept unutilized for a period more than three years; it shall be used for land reclamation and plantation in mining out areas.</p>	<p>Agreed and Complied. top soil is being used in the plantation. The top soil occurs in the form of patches with thickness of 0.5m is being be removed by dozer and is being transported to soil stack yard at the statutory barrier of the lease area. As per the year wise development plan. Letter of the Forest Dept. regarding plantation and</p>																		

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		Photographs of the Plantation is attached as Annexure-4 &4(A)
6.	The project proponent shall ensure that no natural water course/water body shall be obstructed due to any mining operations.	Agreed. Mining Activity is being done as per approved mine plan & No natural water course/water body shall be obstructed due to any mining operations. Mining Plan is attached as Annexure- 3.
7.	The over burden generated shall be stacked at earmarked dump site (s) only and it shall not be kept active for long period of time. The maximum height of the already existing waste dumps shall not exceed 5 meter in single terraces and the slope angle shall not exceed 28° as per norms.	Agreed. Mining Activity is being done as per approved mining plan Vide letter no. DMG/HY/ Kheribattar-3900-3903 dated 04.10.2021 Copy of the same is enclosed as Annexure- 3.
8.	The dumping site selected and proposed shall be used for OB dump at the designated site within the lease area as per the approved mine plan. In no case the overburden should be dumped outside the lease area.	Agreed and complied. OB dump is designated at site as per approved mining plan. Photographs of OB Dump is attached as Annexure-5.
9.	The benches height and slope shall be maintained as per approved mining plan.	Agreed. The bench height and slope is being maintained as per approved mining plan. Mining Plan is attached as Annexure- 3.
10.	Waste dump shall be terraced. The height of the dump and its slope shall not exceed as suggested in the approved mining plan. A retaining wall shall be constructed at the toe of the dump.	Agreed. Mining is being done as per Approved mining plan. Mining Plan is attached as Annexure- 3.
11.	Garland drains shall be constructed to prevent the flow of the water in the dumps.	Agreed. A Garland drain has been constructed to prevent water flow as per approved mining plan. Photograph is attached as Annexure - 6.
12.	Check dams shall be constructed in the seasonal rivulets to prevent the flow of fines to low lying areas during rains.	Check dams have been constructed in the seasonal rivulets to prevent the flow of fines in the low lying area during rainy season.
13.	The total waste generated in the present plan period shall be as envisaged, which shall be accommodated in old dumpsite in addition to the waste already dumped. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to HSPCB and MOEF Zonal Office, Chandigarh on six monthly bases.	Agreed & complied. There is no waste generation for present plan period. Monitoring of Pollution level is being check regularly. (Lab reports are enclosed as Annexure- 7.). We are regularly submitting Compliance status report to HSPCB and MoEF Zonal Office, Chandigarh on Six monthly bases. Submission receipt of last compliance report is attached as Annexure- 8.
14.	Drills shall either be operated with dust extractors or equipped with water injection system.	Agreed and complied. Drilling is being carried out as per approved mining plan. Drills are equipped with water injection system. Photographs of the same are attached as Annexure- 9
15.	The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.	Agreed. The higher benches of mining pit will be terraced and plantation is being done to stabilize the slope. Mining Plan is attached as Annexure- 3. Peripheral fencing has been carried out along the excavated area.

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16.	Catch drains and siltation ponds of appropriate size shall be constructed for size shall be constructed for the working pit. OB dumps and mineral dumps to arrest flow of silt and sediment. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted, particularly after monsoon and maintained properly.	Agreed. Catch drains of appropriate size are constructed to arrest flow of silt and sediment. The collected water is being utilizing for watering the mine area, roads, green belt development etc. The drains are being maintained regularly. Photograph is attached as Annexure - 6. Mining Activity is being done as per approved mining plan. Mining Plan is attached as Annexure-3.
17.	Garland drains; setting tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps and sump capacity shall be constructed designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate pits shall be constructed at the corners of the garland drains and de-silted.	Agreed. Garland drains; setting tanks and check dams have been constructed of appropriate size and gradient around the mine pit & dump. Photograph is attached as Annexure - 6 . Mining Plan is attached as Annexure-3.
18.	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.	Noted
19.	Green belt should be developed as per the proposed plantation as given in the proposal. Plantation should be carried out in phased manner. The green belt should be developed in the safety zone around the mining lease by planting the native species around ML area, OB dumps, backfield and reclaimed around water body, road etc. in consultation with the local DFO/Agriculture Department.	Agreed. The Plantation has been done as per approved mining plan in consultation with local DFO/Agriculture Department. Letter of the Forest Dept. regarding plantation and Photographs of the Plantation is attached as Annexure-4 & 4(A)
20.	Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. The project proponent shall adopt water curtain technology to suppress the RPM as per the assurance given. It shall be ensured that the Ambient Air Quality Parameters conform to the norms prescribed by the CPCB.	Agreed. Regularly water sprinkling is being done on main haulage roads and loading and unloading areas with water tankers fitted sprinklers. Photograph of water sprinkling is enclosed as Annexure 10. Ambient Air quality reports are attached as Annexure- 4.
21.	The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Agreed. Ground water level & quality is being checked regularly. Lab reports are attached as Annexure- 7.
22.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease. The monitoring shall be carried out four times in a year pre-monsoon (April-May), monsoon (August), post monsoon (November); winter (January) and the data thus collected may be sent regularly to MOEF Regional Office, Chandigarh and Regional Director CGWB.	Regular monitoring of ground water level and ground water quality has been carried out in and around the mine lease. Lab reports are attached as Annexure- 7. Ground water Level data in and around the mine area for Pre monsoon (May) and Monsoon (August) are given in Table 3.11 of the chapter-3.
23.	Data on ambient air quality and stack emissions shall be submitted to Haryana Pollution Control Board once in six months carried out by	Agreed. The lease holder has engaged an NABL accredited

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	MOEF/NABL/CPCB/Government approved lab.	Laboratory to conduct Monitoring and the reports being submitted to Haryana Pollution Control Board once in six months. Lab reports are attached as Annexure- 4.
24.	Vehicular emission shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded. The project proponent shall ensure that the vehicle must have pollution under control certificate.	Agreed. PUC certificate for the vehicles has been obtained from authorized centers. During transportation all the haulage roads including the main ramp from the mines pit will be kept wide, leveled, compacted and properly maintained and watered regularly during the operation to prevent generation of dust due to movement of trucks dumpers and other vehicles. PUC Certificates of the vehicles are attached as Annexure-11
25.	Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigation measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.	Blasting is being conducted during day time as per the approved mining scheme as well as DGMS guidelines. The mitigation measures to reduce the impact due to blasting are as follows: <ul style="list-style-type: none"> ➤ Silencer in the machineries is being provided to reduce generation of noise. ➤ Drilling with sharp edges bits will minimize generation of noise. ➤ Control blasting is being done with proper charge of explosive to minimize noise during blasting. ➤ Regular Noise monitoring is being conducted regularly at the project site. (Lab report attached as Annexure- 7). Blasting Certificate (Permission) has been obtained from Competent authority and has been attached as Annexure-12.
26.	The blasting operation will be carried out as per the norms of Director (Mines & Safety), Ghaziabad. Take all safety measures as per the various mining regulations.	Agreed. Blasting is being conducted in day time as per the norms of Director (Mines & Safety), Ghaziabad. The safety measures to reduce the impact due to blasting are as follows: <ul style="list-style-type: none"> ➤ The position of every deep-hole to be drilled is being distinctly marked by the foreman so as to be readily seen by the drillers. ➤ No drilling has commenced in an area, where shot have been fired, until the blaster has made through examination at all places. ➤ Shots shall not be fired except during working hours of day-light. ➤ Siren has blown over the entire area falling within the radius of 500m from the place of firing. ➤ Two persons posted, one in either direction at the two extreme points of the road lying within the danger zone. ➤ The number of detonators issued to, and in the position of a blaster during his shift shall not exceed the maximum number of shots that's he is permitted to fire.

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		<p>➤ Shot firing tools such as electric lamp or torch, a tool made entirely of wood suitable for charging and stemming. A scraper made of brass or wood, a knife for cutting off fuses, crimpers, picker shall be provided by the owner.</p> <p>Blasting Certificate (Permission) has been obtained from Competent authority and has been attached as Annexure-12.</p>
27.	The project proponent shall take all precautionary measures during mining operations for conservations and protection of endangered fauna. If any, spotted in the study area. A plan for conservation shall be drawn and approved by the State Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the wildlife conservation plan so prepared specific to the project site shall be effectively implemented. A copy of action plan may be submitted to the HSPCB and MOEF, Regional Office, Chandigarh within 3 months.	<p>Agreed.</p> <p>NOC of Forest has been taken from Forest Department and Letter number is 1938 date-03.11.2015.</p> <p>Copy of the same is enclosed as Annexure- 13.</p>
28.	As envisaged, the Project Proponent shall invest at least an amount of Rs. 54 lakh as cost for implementing various environmental protection measures including recurring expense per year.	<p>The total cost of project is 4.23 Crores. The project proponent has invested amount of Rs. 34,54,983 as cost for implementing various environmental protection measures including recurring expenses in year 2021-2022.</p> <p>Expense Details on EMP has been attached as Annexure-14</p>
29.	A sum of Rs. 24.5 lakh shall be earmarked by the Project Proponent for investment as on socio economic upliftment activities of the area particularly in the area of habitat, health or education, training programme of rural women & man provide the kit for employment generation. The proposal should contain provision for monthly medical camps, distributions of medicines and improvement in educational facilities in the nearby schools. Details of such activity along with time bound action plan be submitted to HSPCB/SEIAA Haryana before the start of operation.	<p>Agreed.</p> <p>Budget allocation for CSR Activities is 24.5 Lakh for five years.</p> <p>Project Proponent has Spent Rs 12,55,788 in Year 2021-2022 as CSR on socio economic upliftment activities of the area.</p> <p>Expense Details on CSR has been attached as Annexure-15</p>
30.	Budgetary provision of Rs. 08 lakh per year earmarked for the labours working in the Mine for all necessary infrastructure facilities such as healthy facility, sanitation facility, fuel for cooking, along with safe drinking water, medical camps and toilets for women, crèche for infants should be made and submitted to HSPCB at the time CTO/SEIAA Haryana. The housing facilities should be provided for mining labours.	<p>Agreed.</p> <p>Housing arrangement has been made for the labour near the site with all amenities. Whereas rest shelter, first aid facility, crèche, soak pit and other basic sanitary facilities have been developed.</p> <p>Expense Details on it has been attached as Annexure-16</p> <p>All the temporary structure will be removed after the completion of the project. Photographs are enclosed as Annexure -16 (A).</p>

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31.	A Final Mine Closure Plan along with details of corpus fund shall be submitted to the SEIAA well within the stipulated period as prescribed in the minor mineral concession rules 2012.	A final mine closure plan along with details of corpus fund has already been submitted to the SEIAA well within the stipulated period as prescribed in the minor mineral concession rules 2012.
32.	The water reservoir, which would be created/available during post closure (all pits), shall be provided with suitable benches and fencing to provide the access to the water body and safety.	Noted & Agreed. Post closure water reservoir will be provided with suitable benches and fencing to provide the access to the water body.
33.	The project proponent shall ensure that the EC letter as well as the status of compliance of EC conditions and the monitoring data are placed on company's website and displayed at the project site.	Agreed. We ensured that the EC letter as well as the status of compliance of EC condition and the monitoring data are placed on company's website (https://www.asd-rkcjv.com/) and displayed at the project site.
34.	The project proponent shall ensure that loading in Trucks do not exceed the norms fixed by the Transport Department as per relevant rules.	Agreed. We ensure that loading in Trucks do not exceed the norms fixed by the Transport Department as per relevant rules. PUC Certificate has been taken for all the vehicles. PUC Certificates are attached as Annexure-11
35.	The project proponent shall ensure approach roads are widened and strengthened as per requirements fixed by PWD and district administration before the start of the work.	Agreed & is being Complied. Approach roads are widened and strengthened as per requirements fixed by PWD and district administration before the start of the work. Photographs of the same are attached as Annexure-17
36.	The project proponent shall ensure that all measures are taken simultaneously for safeguard and maintenance of the health of the workers.	As per the provisions, rules and regulations of Mines Act, the management will undertake all the necessary precautions. <ul style="list-style-type: none"> ➤ Sanitary facilities will be provided. ➤ All necessary & statutory first aid and medical facilities will be provided to the workers. Photograph is enclosed. ➤ Preventive measures have been taken for occupational health & safety of workers. ➤ Pre-placement medical examination and periodical medical examination of workers is being conducted such as Hematological Test, Biochemical Test, Urine R/M, Spirometry, Audiometry, Vision test. Health Records of the workers are attached as Annexure-18. First Aid room equipped with necessary requirements is present at the site Photographs of the same are attached as Annexure-18 (A).
37.	The project proponent shall ensure supply of drinking water through RO.	Agreed. The project proponent has supply the RO water for drinking purpose at the mine site.

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Part B. General Conditions

S. No.	General Conditions	Reply
i.	Any change in mining technology/scope of working shall not be made without prior approval of the SEIAA.	Agreed.
ii.	Any change in the calendar plan including excavation, quantum of mineral and waste shall not be made.	Agreed. No change in the calendar plan including excavation, quantum of mineral and waste will be made
iii.	Periodic monitoring of ambient air quality shall be carried out for PM ₁₀ , PM _{2.5} , SO ₂ and NO _x monitoring. Location of the stations (minimum 6) shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring shall be decided in consultation with the Haryana State Pollution Control Board (HSPCB). Six monthly reports of the data so collected shall be regularly submitted to the HSPCB/CPCB including the MOEF, Regional Office, and Chandigarh.	Agreed. Periodic monitoring of ambient air quality is being carried out for PM ₁₀ , PM _{2.5} , SO ₂ and NO _x Parameters. Lab reports are enclosed as Annexure- 7 .
iv.	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. shall be provided with earplugs/muffs.	Following mitigation measure will be taken to reduce the noise impact in project site. <ul style="list-style-type: none"> ➤ All scientific blasting is proposed to reduce the vibrations and check noise pollution. An earplug is being provided to the workers. ➤ All the machineries including transport vehicles are properly maintained to minimize generation of noise. ➤ Drilling with sharp edges bits is provided to reduce generation of noise. ➤ Noise source will be isolated. ➤ Dense plantation in mining area is also reducing propagation of noise outside the core zone. (Noise reports are attached as Annexure- 7.)
v.	Waste water (workshop and waste water from the mine) shall be properly collected & treated so as to conform to the standard prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 (amended to date). Oil and grease trap shall be installed before discharge.	Noted & Agreed.
vi.	Personnel working in dusty areas shall wear protective respiratory devices they shall also be provided with adequate training and information on safety and health aspects.	Following mitigation measures has been initiated for the workers who worked at critically dusty area. <ul style="list-style-type: none"> ➤ Sprinkled with water at regular intervals. ➤ Operators and other persons near loading area are using the dust mask. ➤ Scientific Mining has been proposed to minimize the effect of air pollution. ➤ Wet drilling is being practiced. ➤ Health camps are being organized on regular basis. Photograph of water sprinkling is enclosed as Annexure 10.
vii.	Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective	Occupational health surveillance program of the workers is being undertaken periodically to observe any contractions due to exposure to dust and take

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	measures, if needed.	corrective measures. Health Records of the workers are attached as Annexure-18. First Aid room equipped with necessary requirements is present at the site Photographs of the same are attached as Annexure-18 (A).
viii.	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the HSPCB and the Regional Office of MOEF located at Chandigarh.	Agreed & Complied. Project Proponent reported Year wise expenditure of Environment protection Measures to the HSPCB and the Regional office of MoEF located at Chandigarh.
ix.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the northern Regional Office of MOEF, the respective Office of CPCB, HSPCB and SEIAA Haryana.	We are regularly submitting six monthly compliance reports along with monitoring reports to the northern regional office of MoEF&CC, HSPCB and SEIAA Haryana. Submission receipt of last compliance report is attached as Annexure- 8.
x.	The SEIAA, Haryana reserve the right to add new conditions, modify/annual any of the stipulated conditions and/or to revoke the clearance if implementation of any of the condition stipulated by SEIAA, Haryana or any other component authorities is not satisfactory.	Agreed.
xi.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.
xii.	The above conditions will be enforced, inter alia, under the provision of the Water (Prevention & Control of Pollution) Act, 1974 the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act 1991 (all amended till date) and rules made hereunder and also any other orders passed by the Honb'le Supreme Court of India/High Court of Haryana and other Court of law relating to the subject matter.	Agreed.
xiii.	The Project Proponent should inform the public that the project has been accorded Environment Clearance by the SEIAA and copies of the clearance letter area available with the Haryana State Pollution Control Board & SEIAA. This should be advertised within 7 days from the date of issue of the clearance letter at least in tow local newspapers that are widely circulated in the region and the copy of the same should be forwarded to SEIAA Haryana. A copy of Environment Clearance conditions shall also be put on project proponent's web site for public awareness.	Agreed & Complied. Already complied and already published Environmental Clearance conditions in two local newspapers and on website. Photographs of the same are attached as Annexure-19
xiv.	All the other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as may be applicable, by Project Proponent from the competent authority before the start of mining operation.	Agreed.
xv.	That the grant of this EC is issued from the environment	Agreed.

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angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time being in force, rests with the industry/unit/project proponent. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of National Green Tribunal Act, 2010.

3

DETAILS OF ENVIRONMENTAL MONITORING

3.1 Monitoring Portfolio:

This report is prepared for the period April 2022 to September 2022 as per EC conditions. The samples were analyzed at NABL approved Environmental laboratory. Following environmental components has been monitored and analyzed.

1. Ambient Air Quality
2. Noise Quality
3. Water Quality
4. Soil Quality

3.2 AMBIENT AIR QUALITY MONITORING

3.2.1 Ambient Air Quality Monitoring Stations

Ambient air quality monitoring has been carried out at 6 locations as mentioned below. This will enable to have a comparative analytical understanding about air quality and the changes in the air environment in the study area with respect to the condition prevailing. The locations of the ambient air quality monitoring stations are given in **Table 3.1**.

Table 3.1 Details of Ambient Air Quality Monitoring Stations

S. No.	Location Code	Location Name
1.	AAQ-1	Near Main Office
2.	AAQ-2	100 mtr from mine site
3.	AAQ-3	Haul Road
4.	AAQ-4	Village-Kheribattar
5.	AAQ-5	Loading Area
6.	AAQ-6	Village-Kheribora

AAQ-1: Near Main Office

The sampler was placed near office was free from any obstructions. Surroundings of the sampling site represent Industrial environmental setting.

AAQ-2: 100 mtr from mine site

The sampler was placed 100 mtr. from mine site and was free from any obstructions. Surroundings of the sampling site represent Industrial environmental setting.

AAQ-3: Haul Road

The sampler was placed haul road, for estimate the pollution level due to movement of vehicles.

AAQ-4: Village-Kheribattar

The sampler was placed at Village-Kheribattar, was free from any obstructions. Surroundings of the sampling site represent residential environmental setting.

AAQ-5: Loading Area

The sampler was placed at loading area to estimate the pollution level due to loading activity.

AAQ-6: Village-Kheribora

The sampler was placed at Village-Kheribora, was free from any obstructions. Surroundings of the sampling site represent residential environmental setting.

3.2.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Particulate Matter 2.5 (PM 2.5)
- Particulate Matter 10 (PM 10)
- Sulphur Dioxide (SO₂)
- Nitrogen Dioxide (NO₂)

The duration of sampling of PM_{2.5}, PM₁₀, SO₂ and NO₂ were 24 hourly continuous sampling per day. The monitoring was conducted for one day at each location. This is to allow a comparison with the National Ambient Air Quality Standards.

The air samples were analyzed as per standard methods specified by Central Pollution Control Board (CPCB) and IS: 5182. The techniques used for ambient air quality monitoring and minimum detectable levels are given in **Table 3.2**.

Fine Particulate Sampler instruments have been used for monitoring Particulate Matter 2.5 (PM_{2.5} i.e. <2.5 microns), and Respirable Dust Sampler was used for sampling Respirable fraction (<10 microns), gaseous pollutants like SO₂, and NO_x.

Table 3.2 Techniques used for Ambient Air Quality Monitoring

S. No.	Parameter	Technique	Technical Protocol
1	Particulate Matter 2.5 (PM _{2.5})	Fine Particulate Sampler, Gravimetric Method	#SOP No. VEL/SOP/01, Section No. SP 63
2	Particulate Matter 10 (PM ₁₀)	Respirable Dust Sampler, with cyclone separator, Gravimetric Method	IS-5182 (Part-23)
3	Sulphur dioxide (SO ₂)	Modified West and Gaeke	IS-5182 (Part- II)
4	Nitrogen Dioxide (NO ₂)	Jacob &Hochheiser	IS-5182 (Part-VI)

#SOP-As per Laboratory Standard Operating Procedure.

3.2.3 Ambient Air Quality Monitoring Results

The detailed on-site monitoring results of PM_{2.5}, PM₁₀, SO₂, NO₂ are presented as **Table 3.3**

Table 3.3 Ambient Air Quality Monitoring Results
(All results are expressed in µg/m³)

S. No.	Parameter	Test Result						NAAQS*
		AAQ1	AAQ2	AAQ3	AAQ4	AAQ5	AAQ6	
1.	Particulate Matter (PM _{2.5}), µg/m ³	55.76	52.07	57.25	50.86	59.64	48.62	60
2.	Particulate Matter (PM ₁₀), µg/m ³	98.24	93.72	102.76	90.16	110.22	84.16	100
3.	Nitrogen Dioxide (NO ₂), µg/m ³	12.70	10.82	15.82	10.72	16.82	8.07	80
4.	Sulphur Dioxide (SO ₂), µg/m ³	9.53	7.76	9.97	6.58	10.14	5.62	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009

Graphical Presentation of location wise variation of Ambient Air Quality

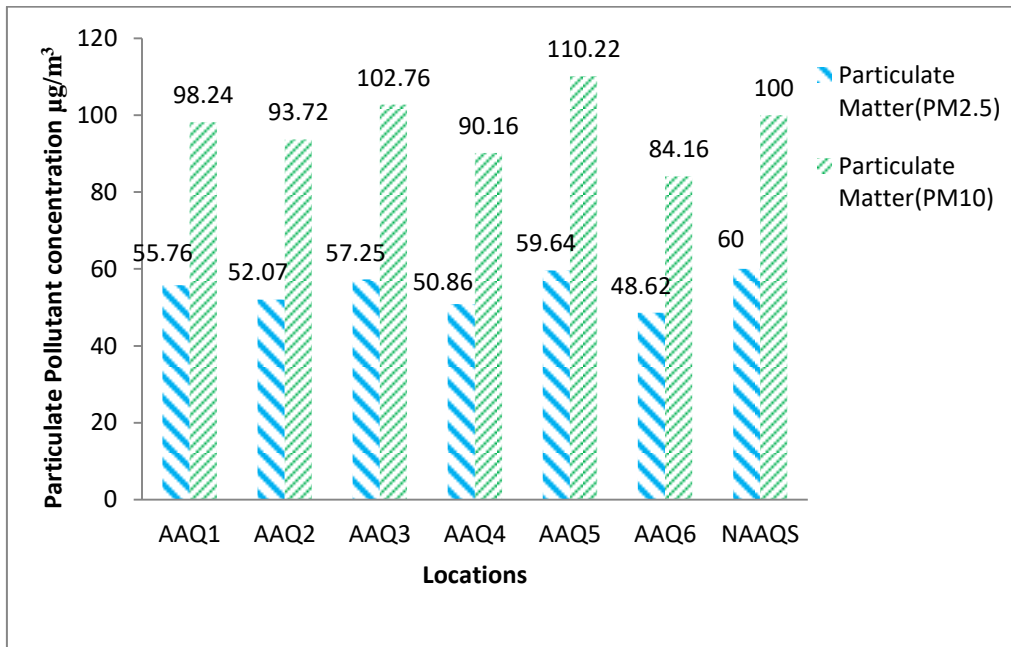


Fig. 3.1 Graphical representation of particulate pollutant

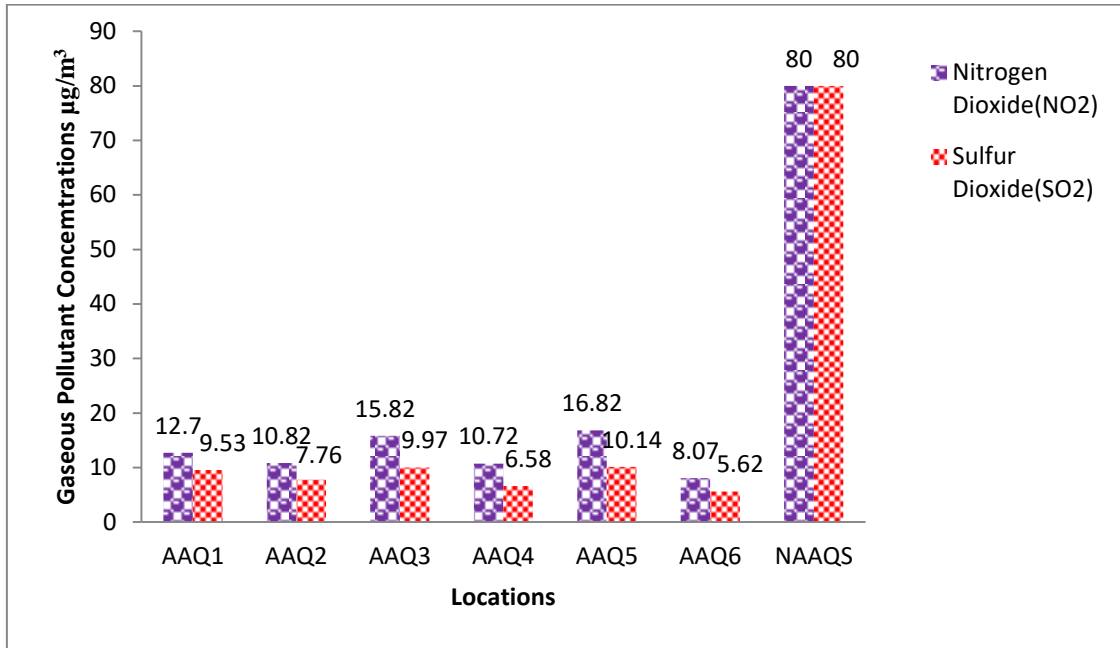


Fig.3.2 Graphical representation of gaseous pollutant

3.2.4 Discussion on Ambient Air Quality in the Study Area

The level of PM_{2.5} and PM₁₀ at all locations was found to be in range of 48.62 to 59.64 µg/m³ and 84.16 to 110.22 µg/m³ respectively. The level of NO₂ and SO₂ at all locations was found to be in range of 8.07 to 16.82 µg/m³ and 5.62 to 10.14 µg/m³ respectively. All the results were found to be well within the prescribed NAAQS limits.

3.3 AMBIENT NOISE MONITORING

3.3.1 Ambient Noise Monitoring Locations

The main objective of noise monitoring in the study area is to assess the present ambient noise levels due to various mining allied activities and increased vehicular movement. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area. Ambient noise monitoring was conducted at 6 locations near the mining area as given in Table 3.4.

Table 3.4 Details of Ambient Noise Monitoring Stations

S. No.	Location Code	Location Name
1	N1	Near main Office
2	N2	100 mtr from mine site
3	N3	Haul Road
4	N4	Village-Kheribattar
5	N5	Loading Area
6	N6	Village-Kheribora

3.3.2 Methodology of Noise Monitoring

Noise levels were measured using sound level meter. Noise level monitoring was carried out continuously for 24-hours. The noise levels were monitored on working days only. During each hour Leq were directly computed by the instrument based on the sound pressure levels. Monitoring was carried out at 'A' response and fast mode.

3.3.3 Ambient Noise Monitoring Results

The location wise ambient noise monitoring results is summarized in Table 3.5. Graphical presentation of location wise variation of ambient noise level is shown in Figure 3.2

Table 3.5 Location Wise variation of ambient Noise Level

Parameter	Location Code											
	N1		N2		N3		N4		N5		N6	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Lmax	70.6	62.4	69.7	58.4	71.7	64.6	67.6	56.1	78.6	70.4	61.7	53.4
Lmin	46.7	38.7	44.2	37.6	48.2	40.6	45.8	37.7	49.5	40.8	42.8	36.7
Leq	64.86	57.66	63.82	52.76	67.78	59.28	53.08	42.86	70.86	61.22	52.86	42.81
CPCB Limits in dB(A) Leq	75.0	70.0	75.0	70.0	75.0	70.0	55.0	45.0	75.0	70.0	55.0	45.0

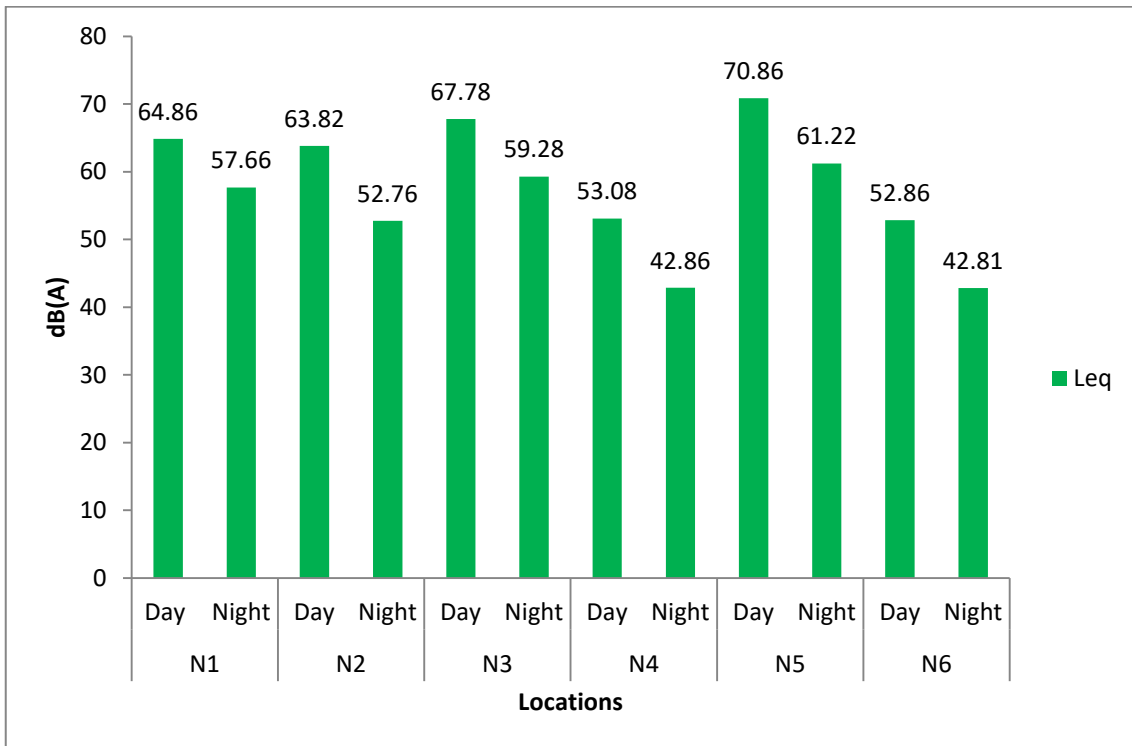


Figure 3.3 Graphical Presentation of Ambient Noise Level

3.3.4 Discussion on Ambient Noise Levels in the Study Area

The Equivalent noise levels for day and night was found to be in range of 52.86 to 70.86 dB (A) and 42.81 to 61.22 dB (A) respectively. The noise levels were well within the permissible limits of NAAQS w.r.t Noise.

3.4 Water Quality Monitoring

3.4.1 Ground Water Quality Monitoring Locations

Keeping in view the importance of water as important source to the local population, sample of ground water was collected from the project site for the assessment of impacts of the project on the water quality.

Water sample was collected from the project site. The samples were analyzed for various parameters to compare with the standards for water as per IS: 10500- 2012. The details of water sampling locations are given in **Table 3.6**.

Table-3.6 Details of Ground Water Quality Monitoring Station

S. No.	Location Code	Location Name/ Description
1.	GW1	Near Project Site (May-2022 and August 2022 Pre Monsoon)
2.	GW2	Village- Kheribora (May-2022 and August 2022 Monsoon)

3.4.2 Methodology of Ground Water Quality Monitoring

Sampling of ground water was carried out on May-2021 and August 2022. Samples were collected as grab sample and sampling forms are filled in as per the sampling plan. The preservative sample were properly added to preserve as per standard operating procedures (SOP) and stored immediately in ice boxes, which were ensured for appropriate temperatures. Sample for chemical analysis was collected in polyethylene carboys. Samples collected for metal content were acidified to <2 pH with 1 ml HNO₃. Samples for bacteriological analysis were collected in sterilized glass bottles.

Soon after the completion of sampling, chain of custody sheets for the samples are filled in and then they were transported by road for further analysis. Proper care was taken during packing and transportation of samples. All the samples reached the central laboratory within the holding times for different parameters. After ensuring the same the samples were forwarded immediately for analysis.

The samples were analyzed as per the standard procedures specified in 'Standard Methods for the Examination of Water and Wastewater' published by American Public Health Association (APHA) and CPCB. The analytical techniques and the test methods adopted for testing of water are given in **Table 3.7, 3.8, 3.9 & 3.10**.

3.4.3 Ground Water Quality Monitoring Results

The detailed ground water quality monitoring results are presented in **Table 3.7, 3.8 and 3.9, 3.10.**

Table 3.7 Ground Water Quality Monitoring Results (May-2022 Pre Monsoon) Near Mine site

S. No.	Parameter	Unit	Result	Limits of IS:10500 -2012	
				Requirement (Acceptable Limits)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	--	7.52	6.5 to 8.5	No Relaxation
2.	Colour	Hazen	*BDL (**DL 1.0Hazen)	5	15
3.	Turbidity	NTU	*BDL (**DL 1.0 NTU)	1	5
4.	Odour	--	Agreeable	Agreeable	Agreeable
5.	Taste	--	Agreeable	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	mg/l	479.00	200	600
7.	Calcium as Ca	mg/l	142.35	75	200
8.	Alkalinity as CaCO ₃	mg/l	501.25	200	600
9.	Chloride as Cl	mg/l	98.52	250	1000
10.	Cyanide as CN	mg/l	*BDL(**DL 0.02 mg/l)	0.05	No Relaxation
11.	Magnesium as Mg	mg/l	29.99	30	100
12.	Total Dissolved Solids	mg/l	761.00	500	2000
13.	Sulphate as SO ₄	mg/l	57.25	200	400
14.	Fluoride as F	mg/l	0.51	1.0	1.5
15.	Nitrate as NO ₃	mg/l	23.97	45	No Relaxation
16.	Iron as Fe	mg/l	0.30	1.0	No relaxation
17.	Aluminum as Al	mg/l	*BDL(**DL 0.002 mg/l)	0.03	0.2
18.	Boron	mg/l	*BDL(**DL 0.01 mg/l)	0.5	2.4
19.	Total Chromium as Cr	mg/l	*BDL(**DL 0.002 mg/l)	0.05	No Relaxation
20.	Conductivity (at 25°C)	µS/cm	1172	----	----
21.	Phenolic Compounds	mg/l	*BDL(**DL 0.0004 mg/l)	0.001	0.002
22.	Mineral Oil	mg/l	*BDL(**DL 0.05mg/l)	1.0	No Relaxation
23.	Anionic Detergents as MBAS	mg/l	*BDL(**DL 0.05 mg/l)	0.2	1.0
24.	Zinc as Zn	mg/l	1.36	5	15
25.	Copper as Cu	mg/l	0.13	0.05	1.5
26.	Manganese as Mn	mg/l	*BDL(**DL 0.01 mg/l)	0.1	0.3
27.	Cadmium as Cd	mg/l	*BDL(**DL 0.002 mg/l)	0.003	No Relaxation
28.	Lead as Pb	mg/l	*BDL(**DL 0.002 mg/l)	0.01	No Relaxation
29.	Selenium as Se	mg/l	*BDL(**DL 0.001 mg/l)	0.01	No Relaxation
30.	Arsenic as As	mg/l	*BDL(**DL 0.002 mg/l)	0.01	No Relaxation
31.	Mercury as Hg	mg/l	*BDL (**DL 0.0005 mg/l)	0.001	No Relaxation
32.	Total Coliform	MPN/100ml	Absent	Shall not be detectable in any	
33.	E. Coli	MPN/100ml	Absent	Shall not be detectable in any	

Note:- *BDL-Below Detection Limit, *DL- Detection Limit
#These parameter are not covered in our NABL scope.

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Table 3.8

Ground Water Quality Monitoring Results (May-2022, Pre Monsoon) Village-Kheribora

S. No.	Parameter	Unit	Result	Limits of IS:10500 -2012	
				Requirement (Acceptable Limits)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	--	7.55	6.5 to 8.5	No Relaxation
2.	Colour	Hazen	*BDL (**DL 1.0 Hazen)	5	15
3.	Turbidity	NTU	*BDL (**DL 1.0 NTU)	1	5
4.	Odour	--	Agreeable	Agreeable	Agreeable
5.	Taste	--	Agreeable	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	mg/l	419.56	200	600
7.	Calcium as Ca	mg/l	130.23	75	200
8.	Alkalinity as CaCO ₃	mg/l	462.00	200	600
9.	Chloride as Cl	mg/l	93.65	250	1000
10.	Cyanide as CN	mg/l	*BDL(**DL 0.02 mg/l)	0.05	No Relaxation
11.	Magnesium as Mg	mg/l	23.00	30	100
12.	Total Dissolved Solids	mg/l	710.00	500	2000
13.	Sulphate as SO ₄	mg/l	51.23	200	400
14.	Fluoride as F	mg/l	0.38	1.0	1.5
15.	Nitrate as NO ₃	mg/l	23.56	45	No Relaxation
16.	Iron as Fe	mg/l	0.27	1.0	No relaxation
17.	Aluminum as Al	mg/l	*BDL(**DL 0.002 mg/l)	0.03	0.2
18.	Boron	mg/l	*BDL(**DL 0.01 mg/l)	0.5	2.4
19.	Total Chromium as Cr	mg/l	*BDL(**DL 0.002 mg/l)	0.05	No Relaxation
20.	Conductivity (at 25°C)	µS/cm	1094	----	----
21.	Phenolic Compounds	mg/l	*BDL(**DL 0.0004 mg/l)	0.001	0.002
22.	Mineral Oil	mg/l	*BDL(**DL 0.05mg/l)	1.0	No Relaxation
23.	Anionic Detergents as MBAS	mg/l	*BDL(**DL 0.05 mg/l)	0.2	1.0
24.	Zinc as Zn	mg/l	1.22	5	15
25.	Copper as Cu	mg/l	0.12	0.05	1.5
26.	Manganese as Mn	mg/l	*BDL(**DL 0.01 mg/l)	0.1	0.3
27.	Cadmium as Cd	mg/l	*BDL(**DL 0.002 mg/l)	0.003	No Relaxation
28.	Lead as Pb	mg/l	*BDL(**DL 0.002 mg/l)	0.01	No Relaxation
29.	Selenium as Se	mg/l	*BDL(**DL 0.001 mg/l)	0.01	No Relaxation
30.	Arsenic as As	mg/l	*BDL(**DL 0.002 mg/l)	0.01	No Relaxation
31.	Mercury as Hg	mg/l	*BDL (**DL 0.0005 mg/l)	0.001	No Relaxation
32.	Total Coliform	MPN/100ml	Absent	Shall not be detectable in any	
33.	E. Coli	MPN/100ml	Absent	Shall not be detectable in any	

Note:- *BDL-Below Detection Limit, *DL- Detection Limit
#These parameter are not covered in our NABL scope.

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Table 3.9 Ground Water Quality Monitoring Results (August 2022 Monsoon) Near Mine site

S. No.	Parameter	Unit	Result	Limits of IS:10500 -2012	
				Requirement (Acceptable Limits)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	--	7.52	6.5 to 8.5	No Relaxation
2.	Colour	Hazen	*BDL (**DL 1.0 Hazen)	5	15
3.	Turbidity	NTU	*BDL (**DL 1.0 NTU)	1	5
4.	Odour	--	Agreeable	Agreeable	Agreeable
5.	Taste	--	Agreeable	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	mg/l	448.27	200	600
7.	Calcium as Ca	mg/l	95.56	75	200
8.	Alkalinity as CaCO ₃	mg/l	522.67	200	600
9.	Chloride as Cl	mg/l	104.25	250	1000
10.	Cyanide as CN	mg/l	*BDL(**DL 0.02 mg/l)	0.05	No Relaxation
11.	Magnesium as Mg	mg/l	50.99	30	100
12.	Total Dissolved Solids	mg/l	779.00	500	2000
13.	Sulphate as SO ₄	mg/l	56.35	200	400
14.	Fluoride as F	mg/l	0.40	1.0	1.5
15.	Nitrate as NO ₃	mg/l	23.56	45	No Relaxation
16.	Iron as Fe	mg/l	0.17	1.0	No relaxation
17.	Aluminum as Al	mg/l	*BDL(**DL 0.002 mg/l)	0.03	0.2
18.	Boron	mg/l	*BDL(**DL 0.01 mg/l)	0.5	2.4
19.	Total Chromium as Cr	mg/l	*BDL(**DL 0.002 mg/l)	0.05	No Relaxation
20.	Conductivity (at 25°C)	µS/cm	1199	----	----
21.	Phenolic Compounds	mg/l	*BDL(**DL 0.0004 mg/l)	0.001	0.002
22.	Mineral Oil	mg/l	*BDL(**DL 0.05mg/l)	1.0	No Relaxation
23.	Anionic Detergents as MBAS	mg/l	*BDL(**DL 0.05 mg/l)	0.2	1.0
24.	Zinc as Zn	mg/l	1.15	5	15
25.	Copper as Cu	mg/l	0.13	0.05	1.5
26.	Manganese as Mn	mg/l	*BDL(**DL 0.01 mg/l)	0.1	0.3
27.	Cadmium as Cd	mg/l	*BDL(**DL 0.002 mg/l)	0.003	No Relaxation
28.	Lead as Pb	mg/l	*BDL(**DL 0.002 mg/l)	0.01	No Relaxation
29.	Selenium as Se	mg/l	*BDL(**DL 0.001 mg/l)	0.01	No Relaxation
30.	Arsenic as As	mg/l	*BDL(**DL 0.002 mg/l)	0.01	No Relaxation
31.	Mercury as Hg	mg/l	*BDL (**DL 0.0005 mg/l)	0.001	No Relaxation
32.	Total Coliform	MPN/100ml	Absent	Shall not be detectable in any	
33.	E. Coli	MPN/100ml	Absent	Shall not be detectable in any	

Note:- *BDL-Below Detection Limit, *DL- Detection Limit
#These parameter are not covered in our NABL scope.

Table 3.10 Ground Water Quality Monitoring Results (August 2022 Monsoon) Village- Kheribora

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S. No.	Parameter	Unit	Result	Limits of IS:10500 -2012	
				Requirement (Acceptable Limits)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 ⁰ C)	--	7.72	6.5 to 8.5	No Relaxation
2.	Colour	Hazen	*BDL (**DL 1.0 Hazen)	5	15
3.	Turbidity	NTU	*BDL (**DL 1.0 NTU)	1	5
4.	Odour	--	Agreeable	Agreeable	Agreeable
5.	Taste	--	Agreeable	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	mg/l	396.56	200	600
7.	Calcium as Ca	mg/l	93.65	75	200
8.	Alkalinity as CaCO ₃	mg/l	427.65	200	600
9.	Chloride as Cl	mg/l	102.36	250	1000
10.	Cyanide as CN	mg/l	*BDL(**DL 0.02 mg/l)	0.05	No Relaxation
11.	Magnesium as Mg	mg/l	39.59	30	100
12.	Total Dissolved Solids	mg/l	690.00	500	2000
13.	Sulphate as SO ₄	mg/l	57.82	200	400
14.	Fluoride as F	mg/l	0.44	1.0	1.5
15.	Nitrate as NO ₃	mg/l	25.21	45	No Relaxation
16.	Iron as Fe	mg/l	0.21	1.0	No relaxation
17.	Aluminum as Al	mg/l	*BDL(**DL 0.002 mg/l)	0.03	0.2
18.	Boron	mg/l	*BDL(**DL 0.01 mg/l)	0.5	2.4
19.	Total Chromium as Cr	mg/l	*BDL(**DL 0.002 mg/l)	0.05	No Relaxation
20.	Conductivity (at 25 ⁰ C)	μS/cm	1062.00	----	----
21.	Phenolic Compounds	mg/l	*BDL(**DL 0.0004 mg/l)	0.001	0.002
22.	Mineral Oil	mg/l	*BDL(**DL 0.05mg/l)	1.0	No Relaxation
23.	Anionic Detergents as MBAS	mg/l	*BDL(**DL 0.05 mg/l)	0.2	1.0
24.	Zinc as Zn	mg/l	1.19	5	15
25.	Copper as Cu	mg/l	0.16	0.05	1.5
26.	Manganese as Mn	mg/l	*BDL(**DL 0.01 mg/l)	0.1	0.3
27.	Cadmium as Cd	mg/l	*BDL(**DL 0.002 mg/l)	0.003	No Relaxation
28.	Lead as Pb	mg/l	*BDL(**DL 0.002 mg/l)	0.01	No Relaxation
29.	Selenium as Se	mg/l	*BDL(**DL 0.001 mg/l)	0.01	No Relaxation
30.	Arsenic as As	mg/l	*BDL(**DL 0.002 mg/l)	0.01	No Relaxation
31.	Mercury as Hg	mg/l	*BDL (**DL 0.0005 mg/l)	0.001	No Relaxation
32.	Total Coliform	MPN/100ml	Absent	Shall not be detectable in any 100 ml sample	
33.	E. Coli	MPN/100ml	Absent	Shall not be detectable in any 100 ml sample	

Note: - *BDL-Below Detection Limit, *DL- Detection Limit
#These parameter are not covered in our NABL scope.

3.4.4 Discussion on Ground Water Quality in the Study Area

The Ground water quality of all location were observed to be slightly alkaline in nature with total alkalinity reaching up to 427.65 and 522.67 mg/L respectively in water samples against the prescribed limit of 200 mg/L (600 Permissible limit). Total Hardness in the water is 396.56 mg/L and 479.00 mg/ against prescribed limit of 200 mg/L but it is within the permissible limit of 600mg/L. However, remaining parameters are within the CPCB prescribed limits.

3.4.5 Ground Water Level in and around the mine site

Ground water level was monitored villages and locations located approx. 5 Km in and around mine area. Water level of the water sources was measured manually in pre monsoon (month of May) and during Monsoon (month of August). The data is given below in table 3.11.

Table 3.11 Ground Water level in and around the mine site

Sample. Number	Village Name	Location	Pre monsoon (May 2021)	Monsoon (August 2021)
W1	Near Mine Site	28°33'43.25"N 76°10'32.89"E	59.50	57.90
W2	Kaliyana	28°33'7.55"N 76°12'1.14"E	33.38	32.5
W3	Asawari	28°32'31.65"N 76° 8'36.32"E	25.72	24.38
W4	Kalali	28°31'21.66"N 76°11'1.54"E	28.2	26.95
W5	Kheri Bura	28°35'22.68"N 76°11'56.23"E	17.62	16.10

3.5 SOIL MONITORING

3.5.1 Soil Monitoring Locations

The objective of the soil monitoring is to identify the impacts of ongoing project activities on soil quality and also predict impacts, which have arisen due to execution of various mining activities. Accordingly, a study of assessment of the soil quality has been carried out

To assess impacts of ongoing project activities on the soil in the area, the physico-chemical characteristics of soils were examined by obtaining soil samples from selected points and analysis of the same. Single sample of soil was collected from the project site for studying soil characteristics, the location of which is listed in Table 3.12

Table 3.12 Details of Soil Quality Monitoring Location

S. No.	Location Code	Location Name/ Description
1.	S1	Near Mine Site
2.	S2	Village- Kheribora

3.5.2 Methodology of Soil Monitoring

The sampling has been done in line with IS: 2720 & Methods of Soil Analysis, Part-1, 2nd edition, 1986 of American Society for Agronomy and Soil Science Society of America. The homogenized samples were analyzed for physical and chemical characteristics (physical, chemical and heavy metal concentrations). The soil samples were collected in the month of March 2022.

The samples have been analyzed as per the established scientific methods for physico-chemical parameters. The heavy metals have been analyzed by using Atomic Absorption Spectrophotometer.

3.5.3 Soil Monitoring Results

Single sample of soil is collected from the project site to check the quality of soil of the study area. The physico-chemical characteristics of the soil, as obtained from the analysis of the soil sample, are presented in **Table 3.13, 3.14.**

Table 3.13 Physico-Chemical Characteristics of Soil in the Study Area (Near Project Site)

S. No.	Parameter	Test-Method	Unit	Result
1.	pH (at 25 °C)	IS : 2720 (P-26) by pH Meter	--	7.59
2.	Conductivity	IS:14767 by Conductivity meter	mS/cm	0.254
3.	Soil Texture	IS : 2720 (P-22, RA2003)	--	Sandy loam
4.	Color	SOP , SP-78,Issue No.-01& Issue Date-14/02/2013	--	Yellowish Brown
5.	Water holding capacity	SOP , SP-81,Issue No.-01& Issue Date-14/02/2013	%	31.86
6.	Bulk density	SOP , SP-80,Issue No.-01& Issue Date-14/02/2013	gm/cc	1.52
7.	Chloride as Cl	SOP , SP-85,Issue No.-01& Issue Date-14/02/2013	mg/100g	16.82
8.	Calcium as Ca	SOP , SP-82,Issue No.-01& Issue Date-14/02/2013	mg/100g	18.10
9.	Sodium as Na	SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	mg/kg	42.77
10.	Potassium as K	SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	kg/hect.	123.82
11.	Organic Matter	IS:2720 (P-22) Titrimetric Method	%	0.32
12.	Magnesium as Mg	SOP , SP-83,Issue No.-01& Issue Date-14/02/2013	mg/100g	8.92
13.	Available Nitrogen as N	IS:14684 Distillation Method	kg./hect.	130.82
14.	Available Phosphorus	SOP , SP-86,Issue No.-01& Issue Date-14/02/2013	kg./hect.	14.76
15.	Zinc (as Zn)	USEPA 3050B	mg/kg	0.92
16.	Manganese (as Mn)	USEPA 3050B	mg/kg	2.36
17.	Lead (as Pb)	USEPA 3050B	mg/kg	0.62
18.	Cadmium (as Cd)	USEPA 3050B	mg/kg	*BDL(DL- 0.5)
19.	Chromium (as Cr)	USEPA 3050B	mg/kg	0.52
20.	Copper (as Cu)	USEPA 3050B	mg/kg	0.89

*SOP -Laboratory standard operating procedure

Table 3.14 Physico-Chemical Characteristics of Soil in the Study Area (Village- Kheribora)

S. No.	Parameter	Test-Method	Unit	Result
1.	pH (at 25 °C)	IS : 2720 (P-26) by pH Meter	--	7.63
2.	Conductivity	IS:14767 by Conductivity meter	mS/cm	0.314
3.	Soil Texture	IS : 2720 (P-22, RA2003)	--	Silty loam
4.	Color	SOP , SP-78,Issue No.-01& Issue Date-14/02/2013	--	Brownish Black
5.	Water holding capacity	SOP , SP-81,Issue No.-01& Issue Date-14/02/2013	%	35.86
6.	Bulk density	SOP , SP-80,Issue No.-01& Issue Date-14/02/2013	gm/cc	1.45
7.	Chloride as Cl	SOP , SP-85,Issue No.-01& Issue Date-14/02/2013	mg/100g	20.86
8.	Calcium as Ca	SOP , SP-82,Issue No.-01& Issue Date-14/02/2013	mg/100g	22.47
9.	Sodium as Na	SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	mg/kg	42.82
10.	Potassium as K	SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	kg/hect.	131.22
11.	Organic Matter	IS:2720 (P-22) Titrimetric Method	%	0.36
12.	Magnesium as Mg	SOP , SP-83,Issue No.-01& Issue Date-14/02/2013	mg/100g	10.22
13.	Available Nitrogen as N	IS:14684 Distillation Method	kg./hect.	144.32
14.	Available Phosphorus	SOP , SP-86,Issue No.-01& Issue Date-14/02/2013	kg./hect.	19.82
15.	Zinc (as Zn)	USEPA 3050B	mg/kg	0.95
16.	Manganese (as Mn)	USEPA 3050B	mg/kg	3.92
17.	Lead (as Pb)	USEPA 3050B	mg/kg	0.54
18.	Cadmium (as Cd)	USEPA 3050B	mg/kg	*BDL(DL – 0.5)
19.	Chromium (as Cr)	USEPA 3050B	mg/kg	0.52
20.	Copper (as Cu)	USEPA 3050B	mg/kg	0.86

*SOP -Laboratory standard operating procedure.

3.5.4 Discussion on Soil Characteristics in the Study Area

The soil in study area is characterized by moderate organic content. The soil quality in the project area has not been affected by the Mining activities.

3.6 SITE PHOTOGRAPHS



Project Site



Ambient Air Monitoring



Noise Monitoring



Soil Sampling



Water Sprinkling



Plantation



Plantation



Plantation



Garland Drain



Retention Wall



Labors Colony



Personal Protective Equipment's for workers

150

961

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HARYANA
Bay No. 55-58, Prayatan Bhawan, Sector-2, PANCHKULA.

No. SEIAA/HR/2016/ 75

Dated: 04-10-2016 ✓

To

M/s ASD RKC JV
40.1 axmi Nagar, Near Sub City Centre,
Hiran Magri, Sector-8, Udaipur,
Rajasthan-313002.

Subject: Environmental Clearance for proposed Stone along with Associated Minor Minerals at Kheribattar Plot 2, over an area of 42.0 Ha Tehsil-Dadri District-Bhiwani, Haryana.

This has reference to your application no. nil dated 30.11.2015 addressed to M. S. SEIAA Haryana received online on 30.11.2015 and subsequent letter dated 26.07.2016 seeking prior environmental clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, Pre-feasibility report, copy of approved Mining Plan, EIA/EMP on the basis of approved TOR and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MOEF & CC, GOI vide their Notification 21.08.2015, in its meetings held on 13.01.2016 and 03.08.2016.

[2] The SEAC has examined the application and noted that the proposal is for Mining of Stone along with Associated Minor Minerals at Kheribattar Plot 2, over an area of 42.0 Ha at Tehsil- Dadri District-Bhiwani, Haryana, Khasra no.139, 140 & 141 min. The Letter of Intent (LOI) dated 21.10.2015 has been granted for an area of 42.0 Ha having Village- Kheribattar Plot 2. The validity of Mining Scheme in the Mining plan is for 5 years. The project proponent has submitted copy NOC from Forest Department. The SEAC appraised this project under category 1(a) as category B-1 project as other mine lease area is also located within 500 meter. The project proposal has been appraised as per proper procedure of EIA Notification i.e. approval of TOR and Public hearing.

Brief details of the project:

1. Category/Item no. (in schedule):	1 (a) B-1
2. Location of Project	Village- Kheribattar Plot 2, Tehsil-Dadri District-Bhiwani, Haryana over an area of 42.0 Ha.
3. Project Details Khasra No.	Mining of Stone along with Associated Minerals "Kheribattar Plot 2", over an area of 42.0 Ha Khasra no.139, 140 & 141 min
Production capacity	81,66,000 MT/Year (27220 Ton/day)
4. Project Cost	4.23 Crores

5.	Water Requirement & Source	10 KLD through Tankers		
		Dust suppression & Wet Drilling	4 KLD	
		Plantation	4 KLD	
		Drinking	2 KLD	
6.	Environment Management Plan Budget	54 lakh		
7.	CSR Activates Budget	24.5 Lakh		
8.	Production (Year wise)	Year	Bench mrl	Production
		First	381,372,363,354,336,327	70 lakh MT
		Second	327, 318, 309, 300	70 lakh MT
		Third	300, 291, 282	75 lakh MT
		Fourth	282 & 273	80 lakh MT
		Fifth	264 & 255	81.66 lakh MT
9.	Green belt plantation	Year of Plantation	Proposed Plantation	
		I Yr.	700 Trees	
		II Yr.	700 Trees	
		III Yr.	700 Trees	
		IV Yr.	700 Trees	
		V Yr.	700 Trees	
10.	Machinery required	Excavator, Dozer Crawler Mounted, Wagon Drill with inbuilt Compressors, Air Compressor, Rock Breaker, Diesel Operated Pump, Explosive Van		

The SEIAA in its 95th meeting held on 26.08.2016 decided to agree with the recommendations of SEAC to accord Environment Clearance to this project by imposing the following conditions.

SPECIFIC CONDITIONS:

[1] This Environment Clearance is granted for Production of Stone along with Associated Minerals as per below mentioned figures.

Year	Bench mrl	Production
First	381,372,363,354,336,327	70 lakh MT
Second	327, 318, 309, 300	70 lakh MT
Third	300, 291, 282	75 lakh MT
Fourth	282 & 273	80 lakh MT
Fifth	264 & 255	81.66 lakh MT

[2] The project proponent shall obtain prior CTO under Air Act and Water Act from HSPCB and effectively implement all the conditions stipulated by the HSPCB.

[3] The project proponent shall carry out mining activity strictly as per the approved Mining Plan.

[4] The project proponent shall ensure that the mining operations shall not intersect groundwater table and the mining operation should be restricted at least 3 meter above the ground water table.

- [5] Topsoil shall be stacked temporarily at earmarked sites only and it shall not be kept unutilized for a period more than three years; it shall be used for land reclamation and plantation in mined out areas.
- [6] The project proponent shall ensure that no natural water course/water body shall be obstructed due to any mining operations.
- [7] The over burden generated shall be stacked at earmarked dump site (s) only and it shall not be kept active for long period of time. The maximum height of the already existing waste dumps shall not exceed 5 meter in single terraces and the slope angle shall not exceed 28° as per norms.
- [8] The dumping site selected and proposed shall be used for OB dump at the designated site within the lease area as per the approved mine plan. In no case the overburden should be dumped outside the lease area.
- [9] The benches height and slope shall be maintained as per approved mining plan.
- [10] Waste dump shall be terraced. The height of the dump and its slope shall not exceed as suggested in the approved mining plan. A retaining wall shall be constructed at the toe of the dump.
- [11] Garland drains shall be constructed to prevent the flow of the water in the dumps.
- [12] Check dams shall be constructed in the seasonal rivulets to prevent the flow of fines to low lying areas during rains.
- [13] The total waste generated in the present plan period shall be as envisaged, which shall be accommodated in old dumpsite in addition to the waste already dumped. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self sustaining. Compliance status shall be submitted to HSPCB and MOEF Zonal Office, Chandigarh on six monthly bases.
- [14] Drills shall either be operated with dust extractors or equipped with water injection system.
- [15] The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slop of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.
- [16] Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, OB dumps and mineral dumps to arrest flow of silt and sediment. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted, particularly after monsoon and maintained properly.
- [17] Garland drains: setting tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area

adjoining the mine site. Sump capacity shall also provide adequate pits shall be constructed at the corners of the garland drains and de-silted.

- [18] Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.
- [19] Green belt should be developed as per the proposed plantation as given in the proposal. Plantation should be carried out in phased manner. The green belt should be developed in the safety zone around the mining lease by planting the native species around ML area, OB dumps, backfilled and reclaimed around water body, road etc. in consultation with the local DFO/Agriculture Department.
- [20] Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. The project proponent shall adopt water curtain technology to suppress the RPM as per the assurance given. It shall be ensured that the Ambient Air Quality Parameters conform to the norms prescribed by the CPCB.
- [21] The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.
- [22] Regular monitoring of ground water level and quality shall be carried out in and around the mine lease. The monitoring shall be carried out four times in a year-pre monsoon (April-May), monsoon (August), post monsoon (November); winter (January) and the data thus collected may be sent regularly to MOEF Regional Office, Chandigarh and Regional Director CGWB.
- [23] Data on ambient air quality and stack emissions shall be submitted to Haryana Pollution Control Board once in six months carried out by MOEF/NABI/CPCB/Government approved lab.
- [24] Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded. The project proponent shall ensure that the vehicle must have pollution under control certificate.
- [25] Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigation measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.
- [26] The blasting operation will be carried out as per the norms of Director (Mines & Safety), Gaziabad. Take all safety measures as per the various mining regulations.
- [27] The project proponent shall take all precautionary measures during mining operations for conservation and protection of endangered fauna, if any, spotted in the study area. A plan for conservation shall be drawn and approved by the State

Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the wildlife conservation plan so prepared specific to the project site shall be effectively implemented. A copy of action plan may be submitted to the HSPCB and MOEF, Regional Office, Chandigarh within 3 months.

- [28] As envisaged, the Project Proponent shall invest at least an amount of Rs. 54 lakh as cost for implementing various environmental protection measures including recurring expenses per year.
- [29] A sum of Rs. 24.5 lakh shall be earmarked by the Project proponent for investment as CSR on socio economic up-liftment activities of the area particularly in the area of habitat, health or education, training programme of rural women & man provide the kit for employment generation. The proposal should contain provision for monthly medical camps, distributions of medicines and improvement in educational facilities in the nearby schools. Details of such activity along with time bound action plan be submitted to HSPCB/SEIAA Haryana before the start of operation.
- [30] Budgetary provision of Rs. 08 lakh per year earmarked for the labours working in the Mine for all necessary infrastructure facilities such as health facility, sanitation facility, fuel for cooking, along with safe drinking water, medical camps and toilets for women, crèche for infants should be made and submitted to HSPCB at the time of CTO/SEIAA Haryana. The housing facilities should be provided for mining labours.
- [31] A Final Mine Closure Plan along with details of corpus fund shall be submitted to the SEIAA well within the stipulated period as prescribed in the minor mineral concession rules 2012.
- [32] The water reservoir, which would be created/available during post closure (all pits), shall be provided with suitable benches and fencing to provide the access to the water body and safety.
- [33] The project proponent shall ensure that the EC letter as well as the status of compliance of EC conditions and the monitoring data are placed on company's website and displayed at the project site.
- [34] The project proponent shall ensure that loading in Trucks do not exceed the norms fixed by the Transport Department as per relevant rules.
- [35] The project proponent shall ensure approach roads are widened and strengthened as per requirements fixed by PWD and district administration before the start of the work.
- [36] The project proponent shall ensure that all measures are taken simultaneously for safeguard and maintenance of the health of the workers.

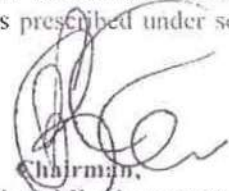
3(5)

[37] The project proponent shall ensure supply of drinking water through RO.

GENERAL CONDITIONS:

- [i] Any change in mining technology/scope of working shall not be made without prior approval of the SEIAA.
- [ii] Any change in the calendar plan including excavation, quantum of mineral and waste shall not be made.
- [iii] Periodic monitoring of ambient air quality shall be carried out for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. Location of the stations (minimum 6) shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring shall be decided in consultation with the Haryana State Pollution Control Board (HSPCB). Six monthly reports of the data so collected shall be regularly submitted to the HSPCB/CPCB including the MOEF, Regional office, Chandigarh.
- [iv] Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. shall be provided with earplugs/muffs.
- [v] Waste water (workshop and waste water from the mine) shall be properly collected & treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 93 and 31st December 1993 (amended to date). Oil and grease trap shall be installed before discharge.
- [vi] Personnel working in dusty areas shall wear protective respiratory devices they shall also be provided with adequate training and information on safety and health aspects.
- [vii] Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- [viii] The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the HSPCB and the Regional office of MOEF located at Chandigarh.
- [ix] The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the northern Regional Office of MoEF, the respective Office of CPCB, HSPCB and SEIAA Haryana.
- [x] The SEIAA, Haryana reserves the right to add new conditions, modify/annual any of the stipulated conditions and/or to revoke the clearance if implementation of any of the condition stipulated by SEIAA, Haryana or any other competent authorities is not satisfactory.
- [xi] Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- [xii] The above conditions will be enforced, inter alia, under the provision of the Water (Prevention & Control of Pollution) Act, 1974 the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act 1991 (all amended till date) and rules made hereunder and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Haryana and other Court of law relating to the subject matter.

- [xiii] The Project proponent should inform the public that the project has been accorded Environment Clearance by the SEIAA and copies of the clearance letter are available with the Haryana State Pollution Control Board & SEIAA. This should be advertised within 7 days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region and the copy of the same should be forwarded to SEIAA Haryana. A copy of Environment Clearance conditions shall also be put on project proponent's web site for public awareness.
- [xiv] All the other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (protection) Act, 1972 etc. shall be obtained, as may be applicable, by Project proponent from the competent authority before the start of mining operation.
- [xv] That the grant of this EC is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time being in force, rests with the industry/unit/project proponent. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of National Green Tribunal Act, 2010.



Chairman,
**State Level Environment Impact
 Assessment Authority, Haryana, Panchkula.**

Endst. No. SEIAA HR/2016/

Dated:.....

A copy of the above is forwarded to the following:

1. The Director (IA Division), MoEF&CC, Gol, Indra Paryavaran Bhavan, Zor bagh Road-New Delhi.
2. The Regional office, Ministry of Environment, Forests & Climate Change, Govt. of India, Bay's no. 24-25, Sector 31-A, Dakshin Marg, Chandigarh.
3. The Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Pkl.
4. The Director General, Mines & Geology Department Haryana, Chandigarh.

Chairman,
**State Level Environment Impact
 Assessment Authority, Haryana, Panchkula.**



HARYANA STATE POLLUTION CONTROL BOARD

SCF-32, sector 13, HUDA, Bhiwani Ph. 01664-240259 Email:- hspcbrojr@gmail.com

E-mail: hspcb@hry.nic.in



No. HSPCB/Consent/ : 313100421CRDCTO12611329

Dated:07/07/2021

To.

M/s :ASD RKC J.V

KHASARA NO. 139,140,141MIN VILLAGE KHARIBATTAR, TEHSIL DADRI, BHIWANI, HARYANA

Subject: Grant of consent to operate to M/s ASD RKC J.V.

Please refer to your application no. 12611329 received on dated 2021-06-02 in regional office Bhiwani. With reference to your above application for consent to operate, M/s ASD RKC J.V is here by granted consent as per following specification/Terms and conditions.

Consent Under	BOTH
Period of consent	01/10/2021 - 30/09/2026
Industry Type	Mining and ore beneficiation
Category	RED
Investment(In Lakh)	788.0
Total Land Area(Sq. meter)	4020100.0
Total Builtup Area(Sq. meter)	10000.0
Quantity of effluent	
1. Trade	0.0 KL/Day
2. Domestic	1.5 KL/Day
Number of outlets	1.0
Mode of discharge	
1. Domestic	Septic tank
2. Trade	
Domestic Effluent Parameters	
1. NA	
Trade Effluent Parameters	
1. NA	
Number of stacks	1
Height of stack	
1. NA	
Emission parameters	
1. PM 10	100
2. PM 2.5	60
Product Details	
1. Mining of stones	27220 Metric Tonnes/day

Capacity of boiler	
1. NA	Ton/hr
Type of Furnace	
1. NA	
Type of Fuel	
1. Electricity	Kilowatt/day
Raw Material Details	
Mining of stones	27220 Metric Tonnes/Day

Regional Officer, Bhiwani
Haryana State Pollution Control Board.

Terms and conditions

1. The applicants shall maintain good house keeping both within factory and in the premises. All hose pipelines valves, storage tanks etc. shall be leak proof. In plant allowable pollutants levels, if specified by State Board should be met strictly.
2. The applicant/company shall comply with and carry out directive/orders issued by the Board in this consent order at all subsequent times without negligence of his /its part. The applicant/company shall be liable for such legal action against him as per provision of the law/act in case of violation of any order/directives. Issued at any time and or non compliance of the terms and conditions of his consent order.
3. The applicant shall make an application for grant of consent at least 90 days before the date of expiry of this consent.
4. Necessary fee as prescribed for obtaining renewal consent shall be paid by the applicant alongwith the consent application.
5. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above required variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard vary all or such condition and there upon the applicant shall be bound to comply with the conditions so varied.
6. The industry shall provide adequate arrangement for fighting the accidental leakages, discharge of any pollutants gas/liquids from the vessels, mechanical equipment etc. which are likely to cause environment pollution.
7. The industry shall comply noise pollution (Regulation and control) Rules, 2000.
8. The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSPCB from time to time.
9. The industry shall ensure that various characteristics of the effluents remain within the tolerance limits as specified in EPA Standard and as amended from time to time and at no time the concentration of any characteristics should exceed these limits for discharge.
10. The industry would immediately submit the revised application to the Board in the event of any change in the raw material in process, mode of treatment/discharge of effluent. In case of change of process at any stage during the consent period, the industry shall submit fresh consent application alongwith the consent to operate fee, if found due, which may be on any account and that shall be paid by the industry and the industry would immediately submit the consent application to the Board in the event of any change during the year in the raw material,

quantity, quality of the effluent, mode of discharge, treatment facilities etc.

11. The officer/official of the Board shall reserve the right to access for the inspection of the industry in connection with the various process and the treatment facilities. The consent to operate is subject to review by the Board at any time.

12. Permissible limits for any pollutants mentioned in the consent to operate order should not exceed the concentration permitted in the effluent by the Board.

13. The industry shall pay the balance fee, in case it is found due from the industry at any time later on.

14. If the industry fails to adhere to any of the conditions of this consent to operate order, the consent to operate so granted shall automatically lapse.

15. If the industry is closed temporarily at its own, they shall inform the Board and obtain permission before restart of the unit.

16. The industry shall comply all the Directions/ Rules/Instructions issued from time to time by the Board.

Specific Conditions :

1. That the unit will submit the analysis report air emissions, Noise monitoring, water etc regularly as per policy of the Board and as per conditions of EC obtained.

2. That the unit will run and maintain the APCM & Green belt.

3. That the unit will apply for renewal of consent to operate before 90 days from the expiry of this CTO.

4. The said mining project will make strict compliance of EC granted by MOEF/SEIAA.

5. The said unit will submit half yearly Environment management report as per EC condition & board policy for mining projects.

6. The unit use dust suppression and APCM to overcome air emission.

7. Unit will apply for HW authorization & make agreement with board authorized agency for safe disposal of Hazardous waste as per HOWM Rules, 2016.

8. The said unit will make Dust Suppression and wet drilling by using water through sprinklers etc. (ix) unit will install AAQMS at three locations within mining lease area for EC compliance (copy of comprehensive inspection report on prescribed Performa along with photographs).

9. Unit will take all necessary clearances from all the concerned departments / agencies.

10. The unit will abide with the directions/guidelines HSPCB/CPCB/ any court decision/ direction of any competent authority.

11. This CTO is without prejudice to any action under the provisions of applicable laws / acts / notification / courts order to be taken in respect of any violation at any stage without any claim of the unit. If the unit fails to comply the provisions of EC/CTE/CTO, various applicable provisions of concerned departments / agencies / authorities / any relevant decision of court, the consent to operate so granted shall be revoked automatically without giving any notice.

12. If the unit is found not complying the conditions of CTO so granted at any stage, the unit will be liable for legal action, closure action as per the provisions of Environmental Acts/laws and for lavvy of Environment Compensation on the basis of polluter pay principle as per the directions of Hon'ble NGT / EPCA/CPCB/ HSPCB issued from time to time.

***Regional Officer, Bhiwani
Haryana State Pollution Control Board.***

**MODIFIED MINING PLAN AND PROGRESSIVE MINE CLOSURE PLAN
OF
STONE ALONG WITH ASSOCIATED MINOR MINERALS**

**IN VILLAGE: Kheribattar-2
(Area-42.01 Hectares), Production: 120 lac
DISTRICT: CHARKHI DADRI
STATE: HARYANA.**

T/Annum
Department of Mines and Geology
Haryana, Panchkula
APPROVED
With Conditions
सर्वो के अन्तर्गत
Vide Letter No. DMG/HY/Kheribattar
3900 to 3903
4/19/2021
Sanjay
Mining Engineer



APPLICANT

MAY-2021

M/s ASD-RKC JV, 40, Laxmi Nagar, Hiran Magari, Sector-8,
Udaipur-313002 (Rajasthan)

PREPARED BY

S.N. Sharma
RQP/DDN/0135/2001-A.
House No. 282; Sector 11-D Faridabad (Haryana)

APPROVED
Sanjay Sunderwal
Mining Engineer
Department of Mines and Geology, Haryana, Panchkula

सेवामे

दिनांक 22 /07 /2021

M/S ASD RKC JV

खेरीबतर स्टोन माइन -2

चरखी दादरी हरीयाणा

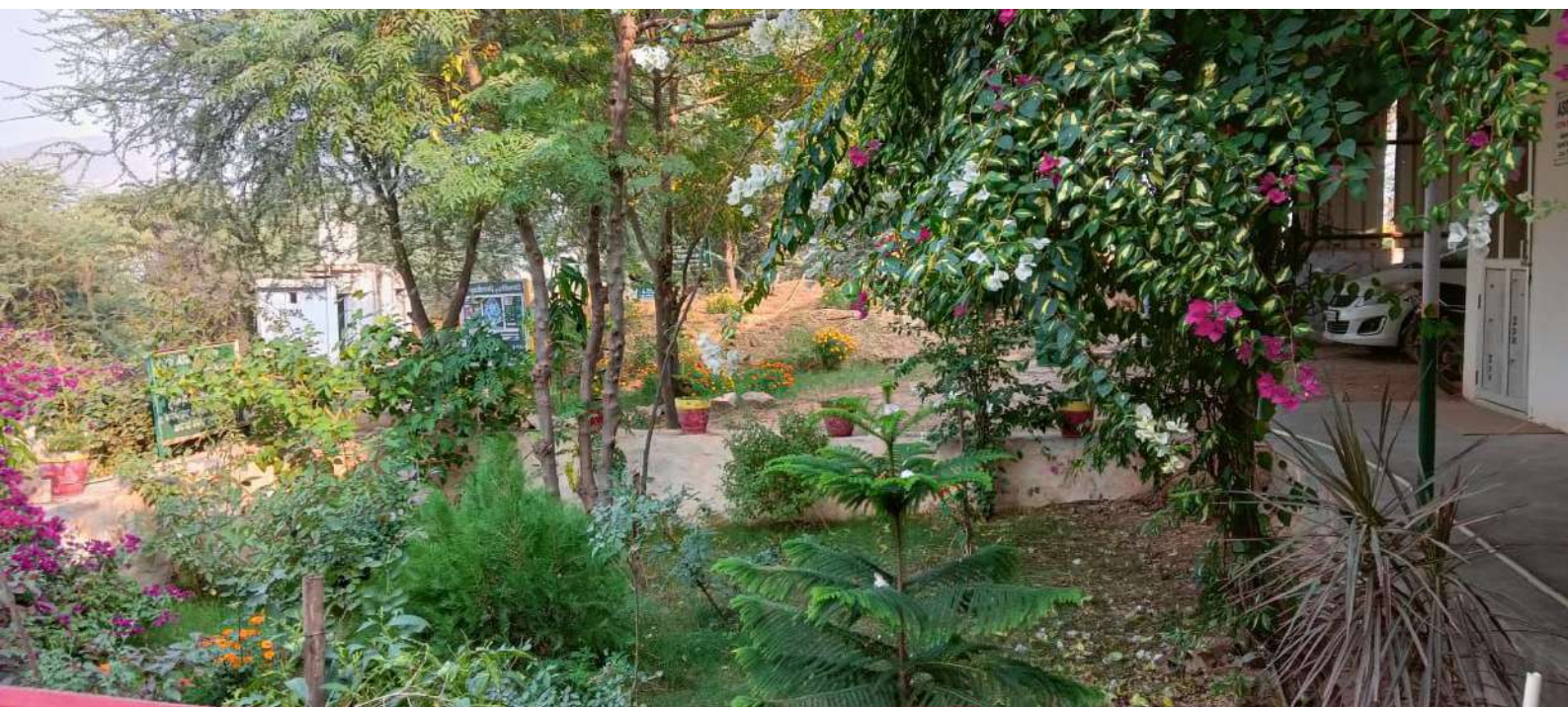
हम सत्यापित करते है कि वर्ष 2021 -22 के लिए M /S ASD RKC JV के द्वारा पौधरोपण का कार्य माह जून और जुलाई 2021 के दौरान वन विभाग के अधिकारियो कि देख रेख में किया गया है एवं कुल 1030 पौधे लगाए गए ह जो कि अलग अलग प्रकार / प्रजाति के है तथा सभी पौधे माइनिंग क्षेत्र / लीज क्षेत्र में लगाए गए है


Block Forest Officer
Jhojhu Kalan (Ch Dadri)
वन विभाग हरीयाण

ASD-RKC J V
KHERI BATTAR STONE MINES-2
CHARKHI DADRI



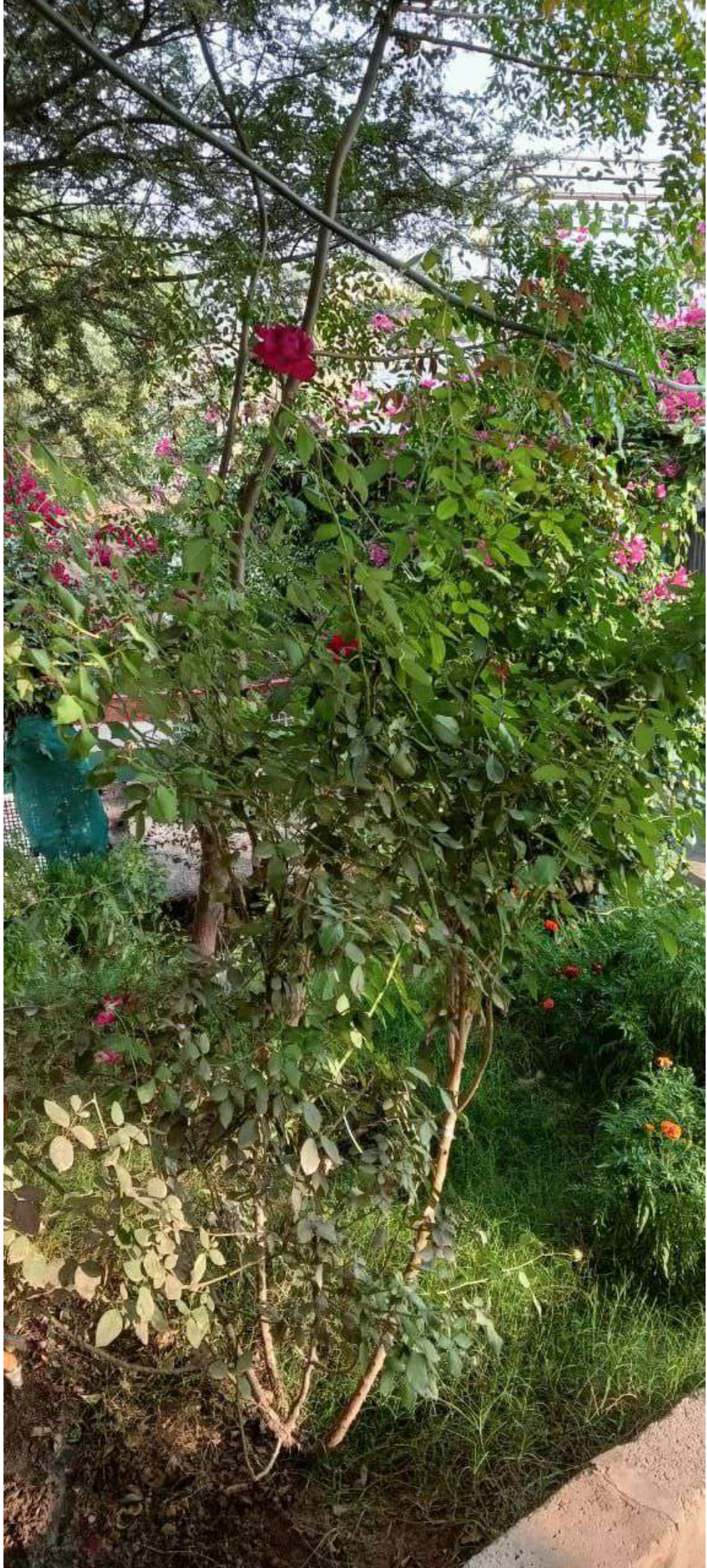






























































































Shot on Y50
AI Quad camera

Test Report

Sample Number:	VEL/ASD/AA/01	Report No.:	VEL/AA/2209/20/007
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & address of Project :	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description :	Ambient Air Quality Monitoring	Reporting Date:	24/09/2022
		Period of Analysis	20/09/2022to 24/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan EnviroLab Representative
Sampling Location	: Near Mine Site
Instrument Used	: RDS & FPS with all accessories
Instrument Code	: VEL/RDS-FPS/10
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 18/09/2022 to 19/09/2022
Time of Monitoring	: 10:00 AM to 10:00 AM
Ambient Temperature (°C)	: Min 25°C, Max 35°C
Surrounding Activity	: Human, Vehicular & Mining Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS:5182 & CPCB Guidelines
Parameter Required	: PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ & CO

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	55.76	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23) Gravimetric Method	98.24	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6) Jacob & Hochheiser	12.70	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2) Modified West and Geake	9.53	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10) Gas Chromatography, RA:2003	0.56	mg/m ³	4

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009

SOP-As per Laboratory Standard Operating Procedure



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c) The sample will be destroyed after retention time unless otherwise specified
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Test Report

Sample Number:	VEL/ASD/AA/02	Report No.:	VEL/AA/2209/20/008
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan- 313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description	Ambient Air Quality Monitoring	Reporting Date:	24/09/2022
		Period of Analysis	20/09/2022 to 24/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan EnviroLab Representative
Sampling Location	: 100 mtr from mine site
Instrument Used	: RDS & FPS with all accessories
Instrument Code	: VEL/RDS-FPS/11
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 18/09/2022 to 19/09/2022
Time of Monitoring	: 10:15 AM to 10:15AM
Ambient Temperature (°C)	: Min 25°C, Max 35°C
Surrounding Activity	: Human, Vehicular & Mining Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS:5182& CPCB Guidelines
Parameter Required	: PM ₁₀ , PM _{2.5} , NO ₂ & SO ₂

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	52.07	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23) Gravimetric Method	93.72	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6) Jacob &Hochheiser	10.82	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2) Modified West and Geake	7.76	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10) Gas Chromatography, RA:2003	0.54	mg/m ³	4

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009

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Test Report

Sample Number:	VEL/ASD/AA/03	Report No.:	VEL/AA/2209/20/009
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District-Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description:	Ambient Air Quality Monitoring	Reporting Date:	24/09/2022
		Period of Analysis	20/09/2022 to 24/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan EnviroLab Representative
Sampling Location	: Haul Road
Instrument Used	: RDS & FPS with all accessories
Instrument Code	: VEL/RDS-FPS/12
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 18/09/2022 to 19/09/2022
Time of Monitoring	: 10:30 AM to 10:30AM
Ambient Temperature (°C)	: Min 25°C, Max 35°C
Surrounding Activity	: Human, Vehicular & Other Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS:5182 & CPCB Guidelines
Parameter Required	: PM ₁₀ , PM _{2.5} , NO ₂ & SO ₂

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	57.25	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23) Gravimetric Method	102.76	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6) Jacob & Hochheiser	15.82	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2) Modified West and Geake	9.97	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10) Gas Chromatography, RA:2003	0.63	mg/m ³	4

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009

#SOP -As per Laboratory Standard Operating Procedure



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Test Report

Sample Number:	VEL/ASD/AA/04	Report No.:	VEL/AA/2209/20/010
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District-Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description:	Ambient Air Quality Monitoring	Reporting Date:	24/09/2022
		Period of Analysis	20/09/2022 to 24/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan EnviroLab Representative
Sampling Location	: Village-Kheribattar
Instrument Used	:RDS & FPS with all accessories
Instrument Code	:VEL/RDS-FPS/10
Instrument Calibration Status	:Calibrated
Meteorological condition during monitoring	:Clear Sky
Date of Monitoring	: 19/09/2022to 20/09/2022
Time of Monitoring	: 10:10 AM to 10:10 AM
Ambient Temperature (°C)	: Min 25°C, Max 35°C
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS:5182& CPCB Guidelines
Parameter Required	: PM ₁₀ , PM _{2.5} , NO ₂ & SO ₂

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	50.86	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23) Gravimetric Method	90.16	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6) Jacob &Hochheiser	10.72	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2) Modified West and Geake	6.58	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10) Gas Chromatography, RA:2003	0.55	mg/m ³	4

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009

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Test Report

Sample Number:	VEL/ASD/AA/05	Report No.:	VEL/AA/2209/20/011
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan- 313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description :	Ambient Air Quality Monitoring	Reporting Date:	24/09/2022
		Period of Analysis	20/09/2022 to 24/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan EnviroLab Representative
Sampling Location	: Loading Area
Instrument Used	: RDS & FPS with all accessories
Instrument Code	: VEL/RDS-FPS/11
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 19/09/2022 to 20/09/2022
Time of Monitoring	: 10:20AM to 10:20 AM
Ambient Temperature (°C)	: Min 25°C, Max 35°C
Surrounding Activity	: Human , Vehicular & Other Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS:5182 & CPCB Guidelines
Parameter Required	: PM ₁₀ , PM _{2.5} , NO ₂ & SO ₂

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	59.64	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23) Gravimetric Method	110.22	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6) Jacob & Hochheiser	16.82	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2) Modified West and Geake	10.14	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10) Gas Chromatography, RA:2003	0.65	mg/m ³	4

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009
 # SOP -As per Laboratory Standard Operating Procedure



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Test Report

Sample Number:	VEL/ASD/AA/06	Report No.:	VEL/AA/2209/20/012
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District-Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description :	Ambient Air Quality Monitoring	Reporting Date:	24/09/2022
		Period of Analysis	20/09/2022 to 24/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan EnviroLab Representative
Sampling Location	: Village-Kheribora
Instrument Used	: RDS & FPS with all accessories
Instrument Code	: VEL/RDS-FPS/12
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 19/09/2022 to 20/09/2022
Time of Monitoring	: 10:50AM to 10:50 AM
Ambient Temperature (°C)	: Min 25°C, Max 35°C
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS:5182& CPCB Guidelines
Parameter Required	: PM ₁₀ , PM _{2.5} , NO ₂ & SO ₂

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	48.62	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23) Gravimetric Method	84.16	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6) Jacob & Hochheiser	8.07	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2) Modified West and Geake	5.62	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10) Gas Chromatography, RA:2003	0.53	mg/m ³	4

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009
 # SOP -As per Laboratory Standard Operating Procedure



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Test Report

Sample Number:	VEL/ASD/AN/01	Report No.:	VEL/AN/2209/20/007
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District-Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Reporting Date:	24/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan EnviroLab Representative
Sampling Location	: Near Mine Site
Instrument Used	: Sound Level Meter
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 18/09/2022 to 19/09/2022
Time of Monitoring	: 06:10AM to 06:10AM
Surrounding Activity	: Human, Vehicular & Mining Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-9989 & CPCB Guidelines
Sampling Duration	: 24 Hours
Parameter Required	: L_{max} , L_{min} , & L_{eq}

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS-9989	70.6	62.4	dB(A)
2.	L_{min}	IS-9989	46.7	38.7	dB(A)
3.	L_{eq}	IS-9989	64.86	57.66	dB(A)
4.	As per #DGMS Limits in dB(*A) Leq (Mining Area)	-	75.0	70.0	dB(A)

Note- * A "decibel" is a unit in which noise is measured. #DGMS-Directorate General of Mines & Safety



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Test Report

Sample Number:	VEL/ASD/AN/02	Report No.:	VEL/AN/2209/20/008
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District-Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Reporting Date:	24/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: 100 mtr from mine site
Instrument Used	: Sound Level Meter
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 18/09/2022 to 19/09/2022
Time of Monitoring	: 06:25AM to 06:25AM
Surrounding Activity	: Vehicular & Mining Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-9989 & CPCB Guidelines
Sampling Duration	: 24 Hours
Parameter Required	: L_{max} , L_{min} , & L_{eq}

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS-9989	69.7	58.4	dB(A)
2.	L_{min}	IS-9989	44.2	37.6	dB(A)
3.	L_{eq}	IS-9989	63.82	52.76	dB(A)
4.	As per [#] DGMS Limits in dB ^(*) A Leq (Mining Area)	-	75.0	70.0	dB(A)



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Test Report

Sample Number:	VEL/ASD/AN/03	Report No.:	VEL/AN/2209/20/009
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan- 313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description :	AMBIENT NOISE LEVEL MONITORING	Reporting Date:	24/09/2022
		Period of Analysis	20/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Haul Road
Instrument Used	: Sound Level Meter
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 18/09/2022 to 19/09/2022
Time of Monitoring	: 06:45AM to 06:45AM
Surrounding Activity	: Mining & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-9989 & CPCB Guidelines
Sampling Duration	: 24 Hours
Parameter Required	: L_{max} , L_{min} , & L_{eq}

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS-9989	71.7	64.6	dB(A)
2.	L_{min}	IS-9989	48.2	40.6	dB(A)
3.	L_{eq}	IS-9989	67.78	59.28	dB(A)
4.	As per #DGMS Limits in dB(A) L_{eq} (Mining Area)	-	75.0	70.0	dB(A)

Note- * A "decibel" is a unit in which noise is measured. #DGMS-Directorate General of Mines & Safety



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Test Report

Sample Number:	VEL/ASD/AN/04	Report No.:	VEL/AN/2209/20/010
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan- 313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description :	AMBIENT NOISE LEVEL MONITORING	Reporting Date:	24/09/2022
		Period of Analysis	20/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Village-Kheribattar
Instrument Used	: Sound Level Meter
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 19/09/2022 to 20/09/2022
Time of Monitoring	: 07:00AM to 07:00AM
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-9989 & CPCB Guidelines
Sampling Duration	: 24 Hours
Parameter Required	: L_{max} , L_{min} , & L_{eq}

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS-9989	67.6	56.1	dB(A)
2.	L_{min}	IS-9989	45.8	37.7	dB(A)
3.	L_{eq}	IS-9989	53.08	42.86	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.0	45.0	dB(A)

Note- * A "decibel" is a unit in which noise is measured.



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Test Report

Sample Number:	VEL/ASD/AN/05	Report No.:	VEL/AN/2209/20/011
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan- 313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description :	AMBIENT NOISE LEVEL MONITORING	Reporting Date:	24/09/2022
		Period of Analysis	20/09/2022
		Receipt Date:	20/09/2022

General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Loading Area
Instrument Used	: Sound Level Meter
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 19/09/2022 to 20/09/2022
Time of Monitoring	: 07:15AM to 07:15AM
Surrounding Activity	: Mining & Loading Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-9989 & CPCB Guidelines
Sampling Duration	: 24 Hours
Parameter Required	: L_{max} , L_{min} , & L_{eq}

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS-9989	78.6	70.4	dB(A)
2.	L_{min}	IS-9989	49.5	40.8	dB(A)
3.	L_{eq}	IS-9989	70.86	61.22	dB(A)
4.	As per #DGMS Limits in dB(A) Leq (Mining Area)	-	75.0	70.0	dB(A)

Note- * A "decibel" is a unit in which noise is measured. #DGMS-Directorate General of Mines & Safety



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Test Report

Sample Number:	VEL/ASD/AN/06 M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan- 313002.	Report No.:	VEL/AN/2209/20/012
		Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	24/09/2022
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Period of Analysis	20/09/2022
		Receipt Date:	20/09/2022
Sample Description :	AMBIENT NOISE LEVEL MONITORING		

General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Village-Kheribora
Instrument Used	: Sound Level Meter
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 19/09/2022 to 20/09/2022
Time of Monitoring	: 07:35AM to 07:35AM
Surrounding Activity	: Human, Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-9989 & CPCB Guidelines
Sampling Duration	: 24 Hours
Parameter Required	: L_{max} , L_{min} , & L_{eq}

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS-9989	61.7	53.4	dB(A)
2.	L_{min}	IS-9989	42.8	36.7	dB(A)
3.	L_{eq}	IS-9989	52.86	42.81	dB(A)
4.	CPCB Limits in dB(*A) Leq (Residential Area)	-	55.0	45.0	dB(A)

Note- * A "decibel" is a unit in which noise is measured.



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Test Report

Sample Number:	VEL/ASD/W/03	Report No.:	VEL/W/2208/17/003
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & Address of Project	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description:	Ground Water Sample	Reporting Date:	20/08/2022
Sampling Location:	Near Mine Site	Period of Analysis:	17/08/2022 to 20/08/2022
Sample Collected by	VardanEnviro Lab representative	Receipt Date:	17/08/2022
Sampling & Analysis Protocol:	IS 3025&APHA, 23 rd Edition 2017	Sampling Date:	16/08/2022
		Sampling Quantity:	2.0Ltr.+250 ml
		Sampling Type:	Grab
		Preservation:	Ice Box
		Parameter Required:	As Per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	7.52	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 1.0 Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 1.0 NTU)	NTU	1	5
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Threshold Test Method	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	APHA , 2340 C, EDTA Titrimetric Method	448.27	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	95.56	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA , 2320 B, Titrimetric Method	522.67	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	104.25	mg/l	250	1000
10.	Cyanide as CN	IS:3025 (P-27)	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	50.99	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	779.00	mg/l	500	2000
13.	Sulphate as SO ₄	APHA , 4500 E, Turbidimetric Method	56.35	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F D, SPADNS Method	0.40	mg/l	1.0	1.5
15.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	23.56	mg/l	45	No Relaxation
16.	Iron as Fe	IS 3025 (P-65):2014(RA:2019)	0.17	mg/l	1.0	No relaxation
17.	Aluminum as Al	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.03	0.2
18.	Boron	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.01 mg/l)	mg/l	0.5	2.4
19.	Total Chromium as Cr	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.05	No Relaxation



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Test Report

Sample No.: VEL/ASD/W/03			Report No:VEL/W/2208/17/003			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Conductivity (at 25 °C)	APHA, 2510 B, Conductivity Meter Method	1199	µS/cm	—	—
21.	Phenolic Compounds	APHA, 5530 Chloroform Extraction Method	*BDL(**DL 0.0004 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.05mg/l)	mg/l	1.0	No Relaxation
23.	Anionic Detergents as MBAS	Annex K, IS 13428/IS 3025 (P-68)	*BDL(**DL 0.05 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	IS 3025 (P-65):2014(RA:2019)	1.15	mg/l	5	15
25.	Copper as Cu	IS 3025 (P-65):2014(RA:2019)	0.13	mg/l	0.05	1.5
26.	Manganese as Mn	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.01 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.001 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	IS 3025 (P-65):2014(RA:2019)	*BDL (**DL 0.0005 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 15185:2002(RA- 2016)	Absent	/100ml	Shall not be detectable in any 100 ml sample	
33.	E. Coli	IS 15185:2002 (RA- 2016)	Absent	/100ml	Shall not be detectable in any 100 ml sample	

Note: - *BDL-Below Detection Limit, **DL- Detection Limit



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Test Report

Sample Number:	VEL/AR/W/04	Report No.:	VEL/W/2208/17/004
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & Address of Project	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description:	Ground Water Sample	Reporting Date:	20/08/2022
Sampling Location:	Village- Kheribora	Period of Analysis:	17/08/2022 to 20/08/2022
Sample Collected by	VardanEnviro Lab representative	Receipt Date:	17/08/2022
Sampling & Analysis Protocol:	IS 3025&APHA, 23 rd Edition 2017	Sampling Date:	16/08/2022
		Sampling Quantity:	2.0Ltr.+250 ml
		Sampling Type:	Grab
		Preservation:	Ice Box
		Parameter Required:	As Per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	7.72	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 1.0 Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 1.0 NTU)	NTU	1	5
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Threshold Test Method	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	APHA , 2340 C, EDTA Titrimetric Method	396.56	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	93.65	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA , 2320 B, Titrimetric Method	427.65	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	102.36	mg/l	250	1000
10.	Cyanide as CN	APHA , 4500 CN ⁻ D	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	39.59	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	690.00	mg/l	500	2000
13.	Sulphate as SO ₄	APHA , 4500 E, Turbidimetric Method	57.82	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F ⁻ D, SPADNS Method	0.44	mg/l	1.0	1.5
15.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	25.21	mg/l	45	No Relaxation
16.	Iron as Fe	IS 3025 (P-65):2014(RA:2019)	0.21	mg/l	1.0	No relaxation
17.	Aluminum as Al	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.03	0.2
18.	Boron	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.01 mg/l)	mg/l	0.5	2.4
19.	Total Chromium as Cr	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.05	No Relaxation

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Test Report

Sample No.: VEL/ASD/W/04			Report No:VEL/W/2208/17/004			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Conductivity (at 25 °C)	APHA, 2510 B, Conductivity Meter Method	1062.00	µS/cm	—	—
21.	Phenolic Compounds	APHA, 5530 Chloroform Extraction Method	*BDL(**DL 0.0004 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.05mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	Annex K, IS 13428/IS 3025 (P-68)	*BDL(**DL 0.05 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	IS 3025 (P-65):2014(RA:2019)	1.19	mg/l	5	15
25.	Copper as Cu	IS 3025 (P-65):2014(RA:2019)	0.16	mg/l	0.05	1.5
26.	Manganese as Mn	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.01 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.001 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	IS 3025 (P-65):2014(RA:2019)	*BDL (**DL 0.0005 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 15185:2002(RA- 2016)	Absent	/100ml	Shall not be detectable in any 100 ml sample	
33.	E. Coli	IS 15185:2002 (RA- 2016)	Absent	/100ml	Shall not be detectable in any 100 ml sample	

Note: - *BDL-Below Detection Limit, **DL- Detection Limit



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Test Report

Sample Number:	VEL/ASD/W/03	Report No.:	VEL/W/2205/17/003
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & Address of Project	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description:	Ground Water Sample	Reporting Date:	21/05/2022
Sampling Location:	Near Mine Site	Period of Analysis:	17/05/2022 to 21/05/2022
Sample Collected by	VardanEnviro Lab representative	Receipt Date:	17/05/2022
Sampling & Analysis Protocol:	IS 3025 & APHA, 23 Edt. 2017	Sampling Date:	16/05/2022
		Sampling Quantity:	2.0Ltr.+250 ml
		Sampling Type:	Grab
		Preservation:	Ice Box
		Parameter Required:	As Per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	7.52	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 1.0Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 1.0 NTU)	NTU	1	5
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Threshold Test Method	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	APHA , 2340 C, EDTA Titrimetric Method	479.00	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	142.35	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA , 2320 B, Titrimetric Method	501.25	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	98.52	mg/l	250	1000
10.	Cyanide as CN	APHA , 4500 CN ⁻ D	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	29.99	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	761.00	mg/l	500	2000
13.	Sulphate as SO ₄	APHA , 4500 E, Turbidimetric Method	57.25	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F ⁻ D, SPADNS Method	0.51	mg/l	1.0	1.5
15.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	23.97	mg/l	45	No Relaxation
16.	Iron as Fe	IS 3025 (P-65):2014(RA:2019)	0.30	mg/l	1.0	No relaxation
17.	Aluminum as Al	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.03	0.2
18.	Boron	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.01 mg/l)	mg/l	0.5	2.4
19.	Total Chromium as Cr	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.05	No Relaxation

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Test Report

Sample No.: VEL/ASD/W/03			Report No:VEL/W/2205/17/003			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Conductivity (at 25 ⁰ C)	APHA, 2510 B, Conductivity Meter Method	1172	µS/cm	----	----
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.0004 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.05mg/l)	mg/l	1.0	No Relaxation
23.	Anionic Detergents as MBAS	Annex K of IS 13428, IS 3025(P-68)	*BDL(**DL 0.05 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	IS 3025 (P-65):2014(RA:2019)	1.36	mg/l	5	15
25.	Copper as Cu	IS 3025 (P-65):2014(RA:2019)	0.13	mg/l	0.05	1.5
26.	Manganese as Mn	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.01 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.001 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	IS 3025 (P-65):2014(RA:2019)	*BDL (**DL 0.0005 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 15185:2002(RA- 2016)	Absent	/100ml	Shall not be detectable in any 100 ml sample	
33.	E. Coli	IS 15185:2002 (RA- 2016)	Absent	/100ml	Shall not be detectable in any 100 ml sample	

Note: - *BDL-Below Detection Limit, **DL- Detection Limit



NOTE: a) The results listed refer only to the tested samples & applicable parameters
 b) Total liabilities of our lab will be restricted to the invoice amount only
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 d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Test Report

Sample Number:	VEL/AR/W/04	Report No.:	VEL/W/2205/17/004
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & Address of Project	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description:	Ground Water Sample	Reporting Date:	21/05/2022
Sampling Location:	Village- Kheribora	Period of Analysis:	17/05/2022 to 21/05/2022
Sample Collected by	Vardan Enviro Lab representative	Receipt Date:	17/05/2022
Sampling & Analysis Protocol:	IS 3025 & APHA, 23 Edt. 2017	Sampling Date:	16/05/2022
		Sampling Quantity:	2.0Ltr.+250 ml
		Sampling Type:	Grab
		Preservation:	Ice Box
		Parameter Required:	As Per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	7.55	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 1.0 Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 1.0 NTU)	NTU	1	5
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Threshold Test Method	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	APHA , 2340 C, EDTA Titrimetric Method	419.56	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	130.23	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA , 2320 B, Titrimetric Method	462.00	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	93.65	mg/l	250	1000
10.	#Cyanide as CN	APHA , 4500 CN ⁻ D	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	23.00	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	710.00	mg/l	500	2000
13.	Sulphate as SO ₄	APHA , 4500 E, Turbidimetric Method	51.23	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F ⁻ D, SPADNS Method	0.38	mg/l	1.0	1.5
15.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	23.56	mg/l	45	No Relaxation
16.	Iron as Fe	IS 3025 (P-65):2014(RA:2019)	0.27	mg/l	1.0	No relaxation
17.	Aluminum as Al	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.03	0.2
18.	Boron	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.01 mg/l)	mg/l	0.5	2.4
19.	Total Chromium as Cr	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.05	No Relaxation

NOTE: a) The results listed refer only to the tested samples & applicable parameters
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Test Report

Sample No.: VEL/ASD/W/04			Report No:VEL/W/2205/17/004			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Conductivity (at 25 ⁰ C)	APHA, 2510 B, Conductivity Meter Method	1094	μS/cm	----	----
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.0004 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.05mg/l)	mg/l	1.0	No Relaxation
23.	Anionic Detergents as MBAS	Annex K of IS 13428, IS 3025(P-68)	*BDL(**DL 0.05 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	IS 3025 (P-65):2014(RA:2019)	1.22	mg/l	5	15
25.	Copper as Cu	IS 3025 (P-65):2014(RA:2019)	0.12	mg/l	0.05	1.5
26.	Manganese as Mn	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.01 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.001 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	IS 3025 (P-65):2014(RA:2019)	*BDL (**DL 0.0005 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 15185:2002(RA- 2016)	Absent	/100ml	Shall not be detectable in any 100 ml sample	
33.	E. Coli	IS 15185:2002 (RA- 2016)	Absent	/100ml	Shall not be detectable in any 100 ml sample	

Note: - *BDL-Below Detection Limit, **DL- Detection Limit



NOTE: a) The results listed refer only to the tested samples & applicable parameters
 b) Total liabilities of our lab will be restricted to the invoice amount only
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Test Report

Sample Number:	VEL/ASD/S/01	Report No.:	VEL/S/2209/20/003
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan- 313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description:	Soil Sample	Reporting Date:	24/09/2022
Sampling Location:	Near Mine Site	Period of Analysis:	20/09/2022 to 24/09/2022
Sampling & Analysis Protocol:	IS 2720, USEPA 3050B &SOP	Receipt Date:	20/09/2022
		Sampling Date:	18/09/2022
		Type of Sampling:	Composite
		Sampling Quantity:	2.0 Kg
		Packing Status:	Temp Sealed

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26) by pH Meter	7.59	--
2.	Conductivity	IS:14767, 2000, RA	0.254	mS/cm
3.	Soil Texture	SOP , SP-87,Issue No.-01	Sandy loam	--
4.	Color	SOP , SP-78,Issue No.-01	Yellowish Brown	--
5.	Water holding capacity	SOP , SP-81,Issue No.-01	31.86	%
6.	Bulk density	SOP , SP-80,Issue No.-01	1.52	gm/cc
7.	Chloride (as Cl)	SOP , SP-85,Issue No.-01	16.82	mg/100g
8.	Calcium (as Ca)	SOP , SP-82,Issue No.-01	18.10	mg/100g
9.	Sodium (as Na)	SOP , SP-84,Issue No.-01	42.77	mg/kg
10.	Potassium (as K)	SOP , SP-84,Issue No.-01	123.82	kg/hect.
11.	Organic Matter	IS:2720 (P-22) Titrimetric Method, RA	0.32	%
12.	Magnesium (as Mg)	SOP , SP-83,Issue No.-01	8.92	mg/100g
13.	Available Nitrogen (as N)	IS:14684 Distillation Method, RA	130.82	kg./hect.
14.	Available Phosphorus (as P)	SOP , SP-86,Issue No.-01	14.76	kg./hect.
15.	Zinc (as Zn)	USEPA 3050B	0.92	mg/kg
16.	Manganese (as Mn)	USEPA 3050B	2.36	mg/kg
17.	Lead (as Pb)	USEPA 3050B	0.62	mg/kg
18.	Cadmium (as Cd)	USEPA 3050B	*BDL(DL- 0.5)	mg/kg
19.	Chromium (as Cr)	USEPA 3050B	0.52	mg/kg
20.	Copper (as Cu)	USEPA 3050B	0.89	mg/kg

SOP-Laboratory standard operating procedure



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Test Report

Sample Number:	VEL/ASD/S/02	Report No.:	VEL/S/2209/20/004
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, HiranMagri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District-Bhiwani, Haryana.	Party Reference No.:	NIL
Sample Description:	Soil Sample	Reporting Date:	24/09/2022
Sampling Location:	Village - Kheribora	Period of Analysis:	20/09/2022to 24/09/2022
Sampling & Analysis Protocol:	IS 2720, USEPA 3050B & SOP	Receipt Date:	20/09/2022
		Sampling Date:	18/09/2022
		Type of Sampling:	Composite
		Sampling Quantity:	2.0 Kg
		Packing Status:	Temp Sealed

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26) by pH Meter	7.63	--
2.	Conductivity	IS:14767, 2000, RA	0.314	mS/cm
3.	Soil Texture	SOP , SP-87,Issue No.-01	Silty loam	--
4.	Color	SOP , SP-78,Issue No.-01	Brownish Black	--
5.	Water holding capacity	SOP , SP-81,Issue No.-01	35.86	%
6.	Bulk density	SOP , SP-80,Issue No.-01	1.45	gm/cc
7.	Chloride as Cl	SOP , SP-85,Issue No.-01	20.86	mg/100g
8.	Calcium as Ca	SOP , SP-82,Issue No.-01	22.47	mg/100g
9.	Sodium as Na	SOP , SP-84,Issue No.-01	42.82	mg/kg
10.	Potassium as K	SOP , SP-84,Issue No.-01	131.22	kg/hect.
11.	Organic Matter	IS:2720 (P-22) Titrimetric Method, RA	0.36	%
12.	Magnesium as Mg	SOP , SP-83,Issue No.-01	10.22	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method, RA	144.32	kg./hect.
14.	Available Phosphorus	SOP , SP-86,Issue No.-01	19.82	kg./hect.
15.	Zinc (as Zn)	USEPA 3050B	0.95	mg/kg
16.	Manganese (as Mn)	USEPA 3050B	3.92	mg/kg
17.	Lead (as Pb)	USEPA 3050B	0.54	mg/kg
18.	Cadmium (as Cd)	USEPA 3050B	*BDL(DL – 0.5)	mg/kg
19.	Chromium (as Cr)	USEPA 3050B	0.52	mg/kg
20.	Copper (as Cu)	USEPA 3050B	0.86	mg/kg

SOP-Laboratory standard operating procedure

*BDL- Below Detection Limit & DL- Detection Limit

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ASD - RKC J.V.

VILLAGE - KHERI BATTAR, TEHSIL - CHARKHI DADRI, DISTT. - CHARKHI DADRI (HR.)

Phone +91-294-2483631
+91-294-2486274
Fax +91-294-2483830
Mob No. +91 70566 67111
+91 70566 67122

Ref.

Date :

Date: 06 April,2022

To

The Director, Ministry of Environment, Forests & Climate Change,
Northern Regional Office,
Sector-31, Dakshin Marg,
Chandigarh-160030

Sub: Submission of Six Monthly Compliance Report of Stipulated Conditions of Environment Clearance for proposed stone along with associates Minor Minerals at Kheribattar plot -2 over an area 42.01 Ha tehsil- Dadri District- Bhiwani, Haryana for Submission period of JUNE-2022.

Ref. No. 1. SEIAA/HR/2016/875 dated: 04.10.2016
2. 13-27/2016(ENV)/413 dated: 02.12.2019

Sir,

In accordance to the EC letter as above stated received from State Environment Impact Assessment Authority (SEIAA) vide letter **SEIAA/HR/2016/875 dated: 04.10.2016**. We are submitting herewith six monthly compliance report of stipulated conditions of Environment Clearance (Soft only) along with laboratory analysis results the specific and general conditions and relevant annexure.

We fully assure you that we will comply with all conditions as specified in the Environment clearance granted us.

For M/s ASD RKC JV.

Authorised Signatory,

Name - Sanjeev Kumar Singh
Designation- Business Head
E-mail - singh_sanjiv@rediffmail.com
Contact No.- +91 98330 80030



Haryana State Pollution Control Board
C-11, Sector-6, Panchkula

Copy to:

1. State Environment Impact Assessment Authority (SEIAA), Bay No. 55-58, Paryatan Bhavan, Sector-2, Panchkula, Haryana.
2. The Chairmen, Haryana State Pollution Control Board (HSPCB), Sector-6, Panchkula



ASD - RKC J.V.

VILLAGE - KHERI BATTAR, TEHSIL - CHARKHI DADRI, DISTT. - CHARKHI DADRI (HR.)

Phone +91-294-2483631
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We fully assure you that we will comply with all conditions as specified in the Environment clearance granted us.

For M/s ASD RKC JV.

Authorised Signatory,

Name - Sanjeev Kumar Singh
Designation- Business Head
E-mail - singh_sanjiv@rediffmail.com
Contact No.- +91 98330 80030



Copy to:

1. State Environment Impact Assessment Authority (SEIAA), Bay No. 55-58, Paryatan Bhavan, Sector-2, Panchkula, Haryana.
2. The Chairmen, Haryana State Pollution Control Board (HSPCB), Sector-6, Panchkula

ASD RKC JUNE 2022

The screenshot displays a Gmail email titled "Submission of Half Yearly Compliance Report (June-2022)". The email is from "Vardan Compliance" to "eccompliance@v". The subject line is "Submission of Half Yearly Compliance Report (June-2022)". The email body contains the following text:

Respected Sir

Please find the enclosed Half yearly Compliance Report for the submission period of June 2022
M/s ASD RKC LV "Mining of Stone along with Associated Minor Minerals" at Kheribatlar Plot-2, over an area of 42.0 Ha. in Tehsil-Dadri, District-Bhiwani, Haryana"

Thanks & Regards

ASD RKC SINGLE PDF.pdf

Environmental Compliance Department
Vardan EnviroLab
Vardan EnviroNet
www.vardan.co.in

0124-4343750 Extn 786/789
compliance@vardan.co.in
Plot No. 82A, Sec-5, IMT Manesar, Gurugram - 122051 (Hr), India

Logos for various organizations are displayed at the bottom, including IAF, ISO 9001, ISO 14001, ISO 45001, GMP, FSSAI, and MINISTRY OF AYUSH. The URL <https://vardan.co.in> is also present.

ASD-RKC J V

Kheri Battar Stone Mines-2

Charkhi Dadri, Haryana

Drilling Machine Photo









ASD-RKC J V
KHERI BATTAR STONE MINES-2
CHARKHI DADRI, HARYANA

WATER SPRINKING PHOTO







Form 59
[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By
Government of Haryana

Date : 27/01/2022
Time : 16:22:39 PM
Validity upto : 26/01/2023



Certificate SL. No. : HR06300480000999
Registration No. : HR55AJ1415
Date of Registration : 01/Feb/2021
Month & Year of Manufacturing : December 2020
Valid Mobile Number : *****6300
Emission Norms : BHARAT STAGE VI
Fuel : DIESEL
PUC Code : HR0630048
GSTIN :
Fees :
MIL observation : (GST as applicable)
No.

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
Smoke Density	Lambda	-	1 ± 0.03	
	Light absorption coefficient	1/metre	1.62	0.74

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
60mm x 20 mm
P.R. Pollution Check Center,
Near Highway Filling station,
Indian Oil Petrol Pump Gurgaon Road,
Village-Dulina (Jhajjar) Haryana



सत्यमेव जयते

बपीठ पोस्ट द्वारा

Telephone 0120 2711597
(office) 0120 2789483
Fax 0120 2711597
website: www.dgmsindia.in
email: dir.gzr@dgms.gov.in

भारत सरकार / Government of India

श्रम एवं रोजगार मंत्रालय / Ministry of Labour & Employment
खान सुरक्षा महानिदेशालय / Directorate General of Mines Safety
गाजियाबाद क्षेत्र गाजियाबाद / Ghaziabad Region, Ghaziabad

कमरा संख्या 101-102, प्रथम तल ब्लॉक - बी
बी., जी.ओ. कॉम्प्लेक्स II, हापुड रोड गाजियाबाद-201002

संख्या: S29024/GR/HR/BHIWANI/0171 /Per 2803 दिनांक 15/11/2016

प्रेषक

खान सुरक्षा निदेशक,
गाजियाबाद क्षेत्र, गाजियाबाद।

सेवा में,

मैसर्स एसडी-आरकेसी जेवी

मालिक- खेरीबतर प्लॉट नं० 2 स्टोन खान,
40, लक्ष्मी नगर, हिरण मागरी, सेक्टर-8
उदयपुर-313002(राजस्थान)

विषय: धातुीक खान विनियम, 1961 के विनियम 106(2)(बी) के अंतर्गत मैसर्स एसडी-आरकेसी जेवी की खेरीबतर प्लॉट नं० 2 स्टोन खान में डीप होल ड्रिलिंग और ब्लास्टिंग के साथ भारी यंत्रों के प्रयोग की अनुमति।

महोदय

कृपया उपरोक्त विषय पर अपने दिनांक 22.10.2016 के पत्रांक शून्य का संदर्भ लें और उसके साथ संलग्न दिनांक 22.10.2016 का प्लान सं. KBSM/ASD-RKC/SWP/01 का संदर्भ लें। आपके आवेदन में दिए गए तथ्यों के आलोक में मामले पर विचार किया गया।

मुख्य खान निरीक्षक (खान सुरक्षा महानिदेशक की तरह भी पदनामित) को धातुीक खान विनियम, 1961 के विनियम 106(2)(बी) के अंतर्गत दिए गए अधिकारों और मुख्य खान निरीक्षक (खान सुरक्षा महानिदेशक की तरह भी पदनामित) द्वारा खान अधिनियम, 1952 की धारा 6(1) के अंतर्गत मुझे दिए गए प्राधिकरण के तहत मैसर्स एसडी-आरकेसी जेवी की हरियाणा राज्य में भिवानी जिले के दादरी तहसील में खेरीबतर गाँव के पास में अवस्थित खेरीबतर प्लॉट नं० 2 स्टोन खान में डीप होल ड्रिलिंग और ब्लास्टिंग के साथ भारी यंत्रों के प्रयोग की अनुमति देता हूँ।

1.0 सामान्य:

इस शर्त अनुमति में जहाँ भी अन्य रूप में प्रदान किया गया है उसके अतिरिक्त धातुीक खान विनियम, 1961 के सभी विनियमों का कठोरता से पालन किया जाएगा।

1.1 Following additional precautions shall be taken for working old pits that may be standing vertical and dangerously:

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- 1.1.1 Such pits shall be worked top downwards only by forming benches in accordance with the stipulations of this permission.
 - 1.1.2 Proper access shall be provided for transport of material and persons to reach top of the working benches and other working places of the mine.
 - 1.1.3 No person shall be engaged at the bottom of high walls.
 - 1.1.4 All approaches to the bottom of high sides shall be kept securely and effectively fenced so as to prevent entry of persons.
 - 1.1.5 Provision of MMR 164 shall strictly be adhered to and no workings shall be extended beyond any point which is 300mts from any permanent building or structure of permanent nature, not belonging to the owner without the prior permission in writing of the Chief Inspector or Regional Inspector and subject to such conditions as he may specify therein.
 - 1.1.6 No working shall be made or extended to any point within 45 meters of any public road, without the prior permission in writing of the Chief Inspector and subject to such conditions as he may specify therein.

2.0 **Height and Width of Benches**

- 2.0.1 The height of benches in overburden, ore body or other rock formation shall not be more than 9.0m or maximum digging height of the machine used for digging, excavation or removal, whichever is less.
- 2.0.2 Width of any bench shall not be less than -
 - (a) width of the widest machine plying on the bench plus 2 m, or
 - (b) if dumpers ply on the bench, 3 times the width of the dumper, or
 - (c) the height of the bench, whichever is more.
- 2.0.3 When persons are employed within 5 m of the working face, adequate precautions shall be taken to ensure their safety by dressing the sides of the bench.

2.1 **Roads for Trucks and Dumpers etc:**

- 2.1.1 All roads for trucks, dumpers or other mobile machinery shall be maintained in good condition.
- 2.1.2 Wherever practicable, all roads from the opencast workings shall be arranged to provide one-way traffic.
- 2.1.3 No road shall be of width less than three time plus 5m width of the largest vehicle plying on road.

- 2.1.4 All corner and bends shall be made in such a way that operator of vehicle have clear view of distance of not less than 3 times the braking distance of largest HEMM working at 40Km/hour.
- 2.1.5 Where it is not possible to ensure a visibility for a distance as mention in clause (2.2.4), there shall be provided with two roads of width not less than 2 times plus 3m of largest vehicle plying on the road with a strong road divider at centre with adequate lighting and reflector along the divider.
- 2.1.6 Where any road existing above level of surrounding area it shall be provided with strong parapet wall/embankment of following dimensions:
(a) Width at top-not less than 1 m.
(a) Width at bottom-not less than 2.5 m.
(b) The height not less than the diameter of tyre of largest vehicle plying on road. It may be noted that just dumping of mud of OB shall not be treated as strong parapet wall.
- 2.1.7 No road shall have gradient more than 1 in 16.

3.0 Supervision :

- 3.1 A person possessing First Class Mine Manager's Certificate of competency under Regulation MMR, 1961 shall be appointed as the manager of the mine to look after HEMM operation. This permission shall stand revoked as soon as the qualified manager ceases to work at the mine. Use of HEMM shall be suspended in the absence of manager with aforesaid qualification.
- 3.1 During every production shift, the opencast workings shall be placed under the charge of an Assistant Manager and during maintenance shift, the working shall be placed under the charge of a Foreman, who shall be responsible to see that all the regulations and orders made there under are strictly complied with. He shall also supervise transport and loading being done by the contractor.
- 3.2 The deep hole drilling and blasting shall be carried out under the personal supervision of the Assistant Manager. Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in register kept for the purpose for each blast.
- 3.3 Manager shall in particular –

- (a) make frequent inspections for evidence of slides or of material that may slide or roll from the high wall (including the face and sides) or spoil-bank;
- (b) not allow any person to work under overhanging ledges or where there is evidence of slides, until such danger has been removed;
- (c) ensure that every person engaged in dressing operations on high walls/sides is provided with, and uses, a safety belt of a type approved by the Chief Inspector;
- (d) ensure that all loose material is removed from high wall/side before persons are engaged there; and
- (e) ensure that parapet walls along truck roads are properly maintained.

4.0 Maintenance of Machines:

- 4.1 If the engineer, mechanical foreman or other competent person making an inspection notices any defect in any machinery, the said machinery shall not be used until the defect has been remedied.
- 4.2 Any defect in machinery reported by its operator shall be promptly attended to.
- 4.3 Any machine found to be in an unsafe operating condition shall be tagged at the operator's position 'OUT OF SERVICE DO NOT USE' and its use shall be prohibited until the unsafe condition has corrected.
- 4.4 All repairs to a machine shall be done at a location which will provide a safe place for the persons engaged on repairs.
- 4.5 Except for testing, trial or adjustment which must necessarily be done while the machine is in motion, every machine shall be shut down and positive means taken to prevent its operation while any repair or manual lubrication is being done.
- 4.6 Power shall be disconnected when repairs are made to any electric machine.
- 4.7 Any machinery, equipment or part thereof which is suspended or held apart by use of slings, hoists or jacks shall be substantially blocked or cribbed before men are permitted to work underneath or between such machinery, equipment or part thereof.

4.8 All repairs of a machinery or vehicle shall be done at properly laid repair sheds and workshops so as to ensure due protection to work persons deployed at those places from the movement of heavy earth moving machinery.

4.9 Every place of drilling and earth moving machinery or equipment and every truck, dumper etc. shall be maintained in good and safe working condition.

4.10 *Design aspects of equipments:*

4.10.1 Every machinery or vehicle shall be provided with efficient warning devices and rear lights and efficient brakes.

4.10.2 Every shovel or dragline shall be so designed as to afford the operator clear and uninterrupted vision all around and shall be provided with portable lamp for emergency, suitable portable fire extinguishers and retracting ladder.

4.10.3 The operator's cabin of heavy earth moving machinery shall be well designed and substantially built so as to ensure adequate protection to the operator against heat, dust, noise etc. and at the same time provided adequate safety to the operator in the event of overturning of heavy earth moving machinery. A seat belt for the safety of the operator shall be provided.

4.11 *Schedule of maintenance:*

4.11.1 The code of instructions furnished by the manufacturers in the matter of maintenance of various machinery and vehicles and preventive maintenance schedules for each type of machinery and vehicle shall be strictly followed.

4.11.2 Every machine and vehicle shall be allocated at least one day in every week for maintenance. Before the machine or vehicle is sent out for work after maintenance, it shall be thoroughly inspected by the Engineer or mechanical foreman or other competent person, appointed by the manager in writing, who shall satisfy himself that the machine or vehicle is mechanically sound and in efficient working order.

4.11.3 A report of every inspection made under clause (4.11.2) shall be recorded in a bound paged book kept for the purpose, and shall be signed and dated by the person making the inspection.

4.11.4 Every machine in use shall be thoroughly inspected once at least in every 24 hours by a competent person. Any damaged or worn out parts shall be replaced immediately.

4.11.5 A report of every inspection made under clause (4.11.4) shall be recorded in a bound paged book kept for the purpose and shall be signed and dated by person making the inspection.

4.12 *Shift examination of machinery and vehicle:*

4.12.1 At the commencement of every shift, the engineer or mechanic or foreman or other authorized competent persons shall personally inspect and test every machine and vehicle paying special attention to the following details:

- (a) that the brakes and the horn or other warning devices are in working order;
- (b) if the vehicle or machine is required to work after day light hours that the lights are in working order.

4.12.2 He shall not permit the vehicle or machine to be taken out for work nor shall he drive the vehicle unless he is satisfied that it is mechanically sound and in efficient working order.

4.12.3 He shall also maintain a record of every inspection in a bound paged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

5.0 Safety features of dumper, Excavator, dozer and drill (Cir 9/2008)

5.1.1 Dumper:

5.1.1.1 The following safety feature shall be provided in dumper:

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- (a) Mechanical steering locking to prevent untoward movement of steering wheel and tyre while work persons working below the cabin while engine is running.
 - (b) Blind spot mirror apart from rear view mirror to enable operator to have clear visibility of blind spot in and around dumpers.
 - (c) Mechanical type Anti collision device to avoid head to tail collision on haul road such as tail gate, bumper extension or any other strong device.
 - (d) Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conducts where cable / wire are passed shall be fire resistant.
 - (e) Seat belt for operator.
 - (f) The maximum speed of vehicle shall be restricted to 30 km/hour by blocking higher gear or any other automatic means.
 - (g) Proper shaft guard.
 - (h) Proximity working device.

5.1.2 **Excavators:**

5.1.2.1 The following safety feature shall be provided in excavator:

- (a) All functions cut off switch.
- (b) Swing Motor Brake.
- (c) Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of Fire. All the sleeves and conducts where cable/wire is passed shall be fire resistant.
- (d) Turbo charger Guard.
- (e) Seat belt.
- (f) Vent valve on top of hydraulic tank should be able to be removed without any tool.
- (g) A baffle plate between cold zone and hot zone.
- (h) Provision for limiting of hydraulic cylinders- Stoppers

5.1.3 **Drills:**

5.1.3.1 The following safety feature shall be provided in drills:

- (a) Approved type of dust prevention or suppression system.
- (b) Each moving parts of the machinery shall be guarded/fenced and also ensure its effectiveness all the time.
- (c) Emergency push button in
 - (i) Operator's cabin.
 - (ii) Main frame.

- (iii) Propeller pendent.
- (iv) Rear end.
- (d) Tripping device to trip the field switch.
- (e) Thermostat motor protection relay in winding temperature and other related parts.
- (f) Explosive vent in transformer.
- (g) Propel interlock (an electric interlock between drilling and propeller operation).
- (h) High air discharge temperature switch.
- (i) Low lube oil pressure switch.
- (j) Oil stop valve (electric solenoid valve in compressor lubrication line).
- (k) No bump circuit.
- (l) Tower lock and lock check valve.
- (m) Propel joystick-spring loaded type to return to neutral (dead man safety).
- (n) Disc-brake and brake valve and its testing parameters.
- (o) Lock check valve for preventing creeping in drill.
- (p) Seat belt.
- (q) Fire resistant hydraulic hoses and wiring near hot zone.
- (r) Turbo charger guard.
- (s) Cabin for the operator

5.1.4 Dozers:

5.1.4.1 The following safety feature shall be provided in dozers:

- (a) Roll over protection.
- (b) Turbo charger guard.
- (c) Fire resistant hydraulic hoses and wiring near hot zone.
- (d) Seat belt.

5.1.5 General:

5.1.5.1 The approved type of audio visual alarm shall be provided in all equipments.

5.1.5.2 The approved type of fire suppression system shall be provided in all equipments.

5.1.5.3 The stability test of HEMM shall be carried out at least once in year and after every major over haul by an independent agency.

- 5.1.5.4 The crane and overhead crane shall be subject to proof load test and NDT test once in a year from a competent authority.
- 5.1.5.5 The pressure vessel receiver are subjected to hydraulic and NDT test and shall be carried out by a competent authority.
- 5.1.5.6 In case of any defect in equipment such as brake, steering and safety device the equipment shall be immediately taken out of use and a record shall be kept.
- 5.1.5.7 The code of practice for installation operation and maintenance of all equipment shall be prepared and implemented before putting the equipment to use in mine.
- 5.1.5.8 The safety feature recommended in equipment shall be a part of notice inviting tender for new procurement and the design and drawing shall be obtained from OEM for fitting the same in old equipment.
- 5.1.5.9 The layout of the workshop shall be required as per DG's Circular No. 8 of 2003.

6.0 Precautions while Drilling:

- 6.1 The position of every deep hole to be drilled shall be distinctly marked by the mine foremen so as to be readily seen by the drillers.
- 6.2 No person shall be permitted to remain within a radius of 20 m or within 60 m on the same bench where charging of holes with explosives is being carried out.

7.0 Transport of Explosives:

- 7.1.1 Where explosives are transported in bulk for deep hole blasting, the following precautions shall be taken:
 - 7.1.1.1 Transport of explosives from the magazine to the priming station or the site of blasting shall not be done except in original wooden or cardboard packing cases. The quantity of explosive transported at one time to the

site of blasting shall not exceed the actual quantity required for use in one round of shots. Explosives shall be transported to the site of blasting not more than 90 minutes before the commencement of charging of the holes.

7.1.1.2 No mechanically propelled vehicle shall be used for the transport of explosives unless it is of a type approved in writing by the Chief Inspector. Provided that a Jeep or Land Rover may be used for the transport of detonators from magazines to 'priming stations' subject to the following conditions:

- (a) not more than 200 detonators are transported in a vehicle at a time;
- (b) the detonators are packed suitably in a wooden box;
- (c) the wooden box containing detonators is placed inside an outer metal case of construction approved by the Chief Inspector;
- (d) the outer metal case shall be suitably bolted to the floor of the vehicle or otherwise fixed in a wooden frame so that the container does not move about while the vehicle is in motion; and
- (e) no person shall ride on the rear portion of the vehicle.

7.1.1.3 Every vehicle used for transportation of explosive shall be marked or placarded on both sides and ends with the word 'Explosives' in white letters not less than 15 cm high on a red background.

7.1.2 Every mechanically propelled vehicle transporting explosives shall be provided with not less than two fire extinguishers (one of carbon tetrachloride type for petroleum fire and the other of carbon dioxide under pressure type for electrical fire) suitably placed for convenient use.

7.1.2.1 The vehicle used for transport of explosives shall not be overloaded and in no case shall the explosive cases be piled higher than the sides of its body.

7.1.2.2 Explosives and detonators shall not be transported in the same vehicle, at the same time.

7.1.2.3 No persons other than the driver and his helper shall ride on a mechanically propelled vehicle used for transport of explosives.

7.1.2.4 A vehicle loaded with explosive shall not be left unattended.

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- 7.1.2.5 Engine of a vehicle transporting explosives shall be stopped and the brakes set securely before it is unloaded or left standing.
 - 7.1.2.6 A vehicle transporting explosives shall not be driven at a speed exceeding 25 kilometers per hour.
 - 7.1.2.7 A vehicle loaded with explosives shall not be taken into garage or repair shop and shall not be parked in a congested place.
 - 7.1.2.8 A vehicle transporting explosives shall not be refueled except in emergencies and only when its engine is stopped and other precautions taken to prevent accidents.
 - 7.1.2.9 No trailer shall be attached to a vehicle transporting explosives.
 - 7.1.3 Every vehicle used for the transport of explosives shall be carefully inspected once in every 24 hours by a competent person to ensure that:
 - (a) fire extinguishers are filled and in place;
 - (b) the electric wiring is well-insulated and firmly secured;
 - (c) the chassis, engine and body are clean and free from surplus oil and grease;
 - (d) the fuel tank and feed lines are not leaking; and
 - (e) lights, brakes and steering mechanism are in good working order.
 - 7.1.4 Report of every inspection made under clause (7.3) shall be signed and dated by competent person making the inspection.
 - 7.1.5 All operations connected with transport of explosives shall be conducted under the personal supervision of a foreman solely placed in charge of blasting operations at the mine.
 - 7.1.6 The blaster shall personally search every person engaged in the transport and use of explosives and shall satisfy himself that no person so engaged has in his possession any cigarette, 'biri' or other smoking apparatus, or any match or any other apparatus of any kind capable of producing a light, flame or spark.

8.0 Precaution during Firing:

8.1.1 Shots shall not be fired except during hours of day-light or until adequate artificial light is provided. All holes charged on any one day shall be fired on the same day.

8.1.2 As far as practicable, shot firing shall be carried out either between shifts or during the rest interval, or at the end of work for the day.

8.1.3 During the approach and progress of an electric storm, the following precautions shall be taken:

- (a) no explosive, particularly detonators, shall be handled;
- (b) if charging operations have been commenced, the work shall be discontinued until the storm has passed;
- (c) if the blast is to be fired electrically, all exposed wires shall be coiled up and if possible placed in the mouth of the holes, or kept covered by something other than a metal plate;
- (d) all wires shall be removed from contact with the steel rails or a haulage track so as to prevent the charge being exploded prematurely by a local strike of the lightning.

8.1.4 The danger zone shall be distinctly demarcated (by means of red flags properly arranged and supported) before firing of holes is to commence.

8.1.5 Before firing, a siren installed for the purpose shall be blown three times for one minute each at intervals of one minute; and no shots shall be fired unless the blasting foreman with assistance of sufficient number of persons appointed in writing by the manager for the purpose has ensured that all persons have left the danger zone or have taken adequate shelter.

8.1.6 No shot shall be fired when there is traffic on any road or railway track within the danger zone.

9.0 Operation of machines:

9.1 a) Every heavy earth moving machinery (and Hydraulic Excavators) shall be under the charge of a competent person (herein called the 'operator') authorised in writing by the Manager.

b) Operator/driver of each HEMM shall be selected from amongst persons possessing requisite qualifications. The selection process shall comprise a test to check driving/operating skill, aptitude, health and oral examination

of the candidate by a competent selection committee. The selected person shall be trained and their competency shall be evaluated by a board constituted by the mining company.

c) All operators of HEMM shall undergo regular checks to test their driving/operating skill, knowledge and health once in every five years.

- 9.2 To prevent unauthorized driving, a system shall be evolved whereby the ignition key and /or cabin key always remain with the driver/operator or with specifically designated competent person.
- 9.3 No person other than the operator or his helper if any or the manager or any person so authorized in writing by the manager shall ride on a shovel or dragline.
- 9.4 No person shall be permitted to ride in the bucket of a shovel.
- 9.5 No shovel or dragline shall be operated in a position where any part of the machine, suspended loads or lines are brought closer than 3 meters to exposed high voltage lines, unless current has been cut off and the line de-energized. A notice of this requirement shall be posted at the operator's position.
- 9.6 Electrical cables, if any, shall be laid in such a manner that they are not endangered either by falling rocks or by a mobile equipment.
- 9.7 Shovel bucket shall be pulled out of the bank as soon as it is full.
- 9.8 When not in operation, the bucket shall be pulled out of the bank as soon as it is full.
- 9.9 When being operated in soft or unstable ground, every shovel (and dragline) shall be supported by heavy planks or poles so as to distribute the load of the machine over larger area and to prevent any danger of the shovel (or dragline) over-turning.
- 9.10 When not in use, the shovel or dragline shall be moved to and stood on stable ground.

9.11 If more than one stripping machine is in use in any area, either on the same bench or on different benches, the machines shall be so spaced that there is no danger or accident from flying or falling objects etc. from one machine to the other.

10.0 **Duties of Mechanics, Fitters and Engineers:**

10.1 At the commencement of every shift, he shall personally inspect and test every machine and vehicle paying special attention to the following details:

- (a) that the brakes and the warning devices are in working order;
- (b) if the vehicle or machine is required to work after day-light hours, that the lights are in working order.

10.2 He shall not permit the vehicle or machine to be taken out for work nor shall he drive the vehicle unless he is satisfied that it is mechanically sound and in efficient working order.

10.3 The mechanic shall maintain a record of every inspection in a bound paged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

11.0 **ADDITIONAL DUTIES OF ENGINEERS PLACED IN CHARGE OF MACHINES AND EQUIPMENTS IN OPENCAST WORKINGS:**

11.1 During each shift the machines and equipments at work shall be placed under the charge of qualified and experienced engineer to effect inspection, examination, safe operations and maintenance of the machines, equipments and accessories. During his shift the engineer/engineers shall;

- (a) inspect, examine machines, equipments and accessories and satisfy himself that they are in sound and safe working order;
- (b) not allow any machine, equipment to be used, if it is found defective;
- (c) ensure that every machine, equipment, accessory used is in a safe and efficient order;
- (d) ensure that each operation, activity is carried on in safe and efficient manner.

12.0 **Operation of Truck, Dumpers and other Vehicles:**

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- 12.1 No person shall be permitted to ride on the running board of a truck or dumper.
- 12.2 As far as possible, loaded trucks or dumpers shall not be reversed on gradient.
- 12.3 Sufficient stop blocks shall be provided at every tipping point and these shall be used on every occasion the material is dumped from the truck, dumper, or other such vehicle.
- 12.4 Standard Traffic Rules shall be adopted and followed during movement of all trucks and dumpers. They shall be prominently displayed at the relevant places in the opencast working and truck/dumper roads.
- 12.5 No person shall be permitted to work on the chassis of truck or dumper with the body in a raised position until the truck or dumper body has been securely blocked in position. The mechanical hoist mechanism alone shall not be depended upon to hold the body of the truck or dumper in raised position.
- 12.6 No unauthorized person shall be permitted to enter or remain in any dumping yard or turning point.
- 12.7 When not in use every truck or dumper shall be moved to and stood on proper parking places.
- 12.8 Every dumper/tipper/truck shall be provided with suitable fire extinguishers preferably automatic and suitably placed for operation/convenient use.
- 12.9 Every dumper/tipper/truck shall be provided with automatically operating audio-visual reversing alarm, which shall always be kept in working order.

13.0 Duties of Machine operators:

13.1 At the commencement of every shift, the operator shall also personally inspect and test the machine, paying special attention to the following details:

- (i) That brakes and every warning device are in working order; and
- (ii) If the machine is required to work after day-light hours, that lights are in working order.

(iii) He shall not take out the machine for work nor shall he operate the machine unless he is satisfied that it is mechanically sound and in efficient working order.

- 13.2 The operator shall not operate the machine when persons are in such proximity as to be endangered.
- 13.3 He shall not swing the bucket of shovel over passing haulage units. While the trucks/dumpers are being loaded, he shall swing over the body of the truck/dumper and not over the cab, unless the cab is protected by a substantially strong cover.
- 13.4 The operator shall not allow any unauthorized person to ride on the machine.
- 14.0 **Duties of Truck / Dumper Operators:**
- 14.1 No person shall be permitted to ride on the running board of a truck or dumper.
- 14.2 As far as possible loaded trucks or dumper shall not be reversed on gradient.
- 14.3 Sufficient stop blocks shall be provided at every tipping point and these shall be used on every occasion material is dumped from the truck, dumper or other such vehicle.
- 14.4 Suitable "Code of Traffic Rules" shall be framed by the Mines Manager and enforced strictly for movement of all trucks, tippers and dumpers in the mine. A copy of the traffic rules shall be submitted to this Directorate for record. They shall be prominently displayed at the relevant places in the opencast workings and truck/dumper roads.
- 14.5 He shall not drive too fast, shall avoid distractions, and shall drive defensively.
- 14.6 He shall not attempt to overtake another vehicle unless he can see clearly far enough ahead to be sure that he can pass it safely. He shall also sound the audible warning signal before overtaking.
- 14.7 When approaching a stripping equipment, the driver of the truck, dumper shall sound the audible warning signal and shall not attempt to pass the stripping equipment until he has received proper audible signal in reply.
- 14.8 Before crossing a road or railway line, he shall reduce his speed, look in both directions along the road or line and shall proceed across the road or line only if it is safe to do so.
- 14.9 The driver shall sound the audible warning signal while approaching 'blind' corner or any other point from where persons may walk in front unexpectedly.
- 14.10 The driver shall not operate the truck or dumper in reverse unless he has a clear view of the area behind the vehicle or he has the assistance of a 'spotter' duly authorized in writing for the purpose by the manager. He shall give an audible warning signal before reversing a truck or dumper.

- 14.11 The driver shall be sure of clearance before driving through tunnels, archways, plant structures etc.
- 14.12 The driver shall see that the vehicle is not overloaded and that the material is not loaded in a truck or dumper so as to project horizontally beyond the sides of its body and that any material projecting beyond the front or rear is indicated by a red flag during the day and by red light after day light hours.
- 14.13 The driver shall not allow any unauthorized persons to ride on the vehicle. He shall also not allow more than the authorized number of persons to ride on the vehicle.
- 15.0 **Miscellaneous:**
- 15.1 Trucks, tippers and other heavy vehicles, not belonging to management shall not be allowed in the mine premises without a valid pass issued by the competent authority of the mine. Before the pass is issued the mine engineer/competent person shall check the roadworthiness of such vehicle. In order to check the entry of such vehicle in the mine premises, properly manned check gate shall be provided at the mine entrance where the record of entry & exit of each vehicle shall be maintained. At the check gate the license of the drivers shall also be checked for eliminating the possibility of unlicensed persons driving the vehicle.
- 15.1.1 Persons engaged in surface operation and in particular, the contractor's workers shall be provided closer and competent supervision.
- 15.1.2 All persons engaged at any work within the mine premises through the contractors shall be provided relevant training and other job related briefings and that the drivers of the vehicle belonging to contractors entering the mine premises have additionally been explained the salient provisions of "Traffic Rules".
- 15.1.3 Each and every operation, including the operation carried out through contractor's worker or by outside agency, shall be placed under the charge of a competent supervisor, duly appointed and authorized by the manager.
- 15.2 Manager shall frame code of practices for each operation and copy of it shall be handed over to all concerned. It shall be the duty of all statutory persons to enforce the code of practices so framed.
- 15.3 No manual workers shall be employed on any bench where HEMM is deployed or on the next lower bench. Manual workers shall be employed

only after withdrawal of HEMM and only at the places where benches conform to the requirement of Regulation 106(1), 106(4) and 106(5) of the Metalliferous Mines Regulations, 1961.

- 15.4 No blasting shall be conducted within 300 m of building/infrastructure not belonging to the owner. The distance shall be kept marked in the field as well as on the plan mentioned under Regulation 61(1)(a) of the MMR, 1961.
- 15.5 Adequate general lighting arrangements shall be provided during working hours in the opencast working and Regulation 146 of MMR 1061 shall be complied with.
- 15.6 All the precautions and directives given in DGMS circulars issued from time to time shall be complied with.
- 15.7 The Owner, Agent and Manager shall ensure that the aforesaid conditions are made known to all concerned. They shall also ensure that every such person has fully understood the same and complies with them.
- 15.8 Please note that this permission is subject to the following additional conditions:
- 15.8.1 In the event of any change in the circumstances connected with this permission which is likely to endanger the life of workmen employed in the mining operation for which this permission has been granted shall be stopped forthwith and intimation thereof sent to this Directorate. The said mining operation shall not be resumed without an express and fresh permission in writing.
- 15.8.2 This permission may be amended or withdrawn at any time should it be considered necessary in the interest of safety.
- 15.8.3 This permission is being issued specifically under the regulations mentioned above and without prejudice to any other provision of law, which may be or may become applicable at any time.

भवदीय



स्वातंत्र्य सुरक्षा निदेशक,
माजियाबाद क्षेत्र, माजियाबाद.

FOREST DEPARTMENT GOVT. OF HARYANA
O/o Divisional Forest Officer, Bhiwani

Meham Road, Vidya Nagar, Bhiwani, Tel. No. 01664-242430, E-mail:-dfo.bhiwani@yahoo.com

क्रमांक / 1938.....

दिनांक / 03-11-15.....

सेवा मे:- ✓ M/s. ASD-RKC J.V.,
40, Laxmi Nagar, Near Sub City Centre.
Hira magari, Sector-8 Udaipur. 313002 (Raj)

विषय: **Issue of Certificate Regarding Non-involvement of Forest land and Wildlife Sanctuary in mine lease area of 42.01 ha. at Village Kheri Battar -2" Tehsil Charkhi Dadri Distt. Bhiwani.**

संदर्भ: आपका प्रार्थना पत्र Memoदिनांक 29.10.2015 के संदर्भ में।

--000--

उपरोक्त विषय के सम्बन्ध में सूचित किया जाता है कि गांव खेड़ी बत्तर-2 तहसील दादरी जिला भिवानी स्थित खसरा नं० 139, 140 व 141 का कुल क्षेत्र 42.01 हैक्टेयर अरावली पौधारोपण क्षेत्र में नहीं आता व किसी प्रकार की वन भूमि (Category of Forest Land) का पार्ट भी नहीं हैं। अतः रिकार्ड अनुसार वन विभाग गांव खेड़ी बत्तर-2 तहसील दादरी जिला भिवानी स्थित खसरा नं० 139, 140 व 141 के कुल क्षेत्रफल 42.01 हैक्टेयर ऐरिया में खनन से सम्बन्धित गतिविधियां चलाने की अनुमति निम्न शर्तों के आधार पर दी जाती है:-

1. मौका पर भारतीय वन संरक्षण अधिनियम 1980 की पालना सुनिश्चित करनी होगी तथा साथ लगते अरावली पौधारोपण क्षेत्र/वन भूमि को गैर वन वानिकी उद्देश्य हेतु प्रयोग करने से पूर्व नियमानुसार वन विभाग से अनुमति लेनी होगी।
2. खनन ऐरिया सैक्शन-4 (सामान्य) के तहत आता है। इसलिये मौका पर पंजाब भू-संरक्षण अधिनियम 1900 तथा भारतीय वन संरक्षण अधिनियम 1927 की पालना सुनिश्चित करनी होगी।
3. मौका पर खनन क्षेत्र के साथ लगते हुये अरावली पौधारोपण को कोई हानि नहीं पहुंचाई जाएगी।
4. यूजर एजेंसी द्वारा मौका पर खनन क्षेत्र में लगवाये गये पिल्लरों पर जी०पी०एस० कोर्डिनेट अंकित करवाये जायेंगे।
5. भारतीय वन्य प्राणी अधिनियम 1972 की सभी शर्तों की पालना की जाएगी। इसके अतिरिक्त मौका पर उपरोक्त शर्तों के अलावा पर्यावरण को क्षति पहुंचाने की कोई भी गतिविधि/उल्लंघना पाई गई तो वन विभाग द्वारा यह अनापत्ति प्रमाण पत्र रद्द किया जा सकता है।

वन मण्डल अधिकारी,
भिवानी।

पृ०क्रमांक :

दिनांक:

इसकी एक प्रति वन राजिक अधिकारी दादरी को मौका पर वन अधिनियमों की पालना सुनिश्चित करने हेतू प्रेषित है।

वन मण्डल अधिकारी
भिवानी।

M/s ASD RKC JV Kheribattar Stone Mine-2

CER - Expenses for Pollution Control		
Particulars	2022-23 (up to 31.10.22)	
Water Sprinkling	2256754	Other expenses also incurred like - Air Pollutin Maping and control , Plantation , Smog
Air Ambient Machine for Air Pollution Control and air pollution expenses	217628	
Smog-Gun Machine and expenses	77958	
Plantation	321600	
Total	2873940	

CSR - Expenses		
Particulars	2022-23 (up to 31.10.22)	
Drinking Water	1376361	Other Expenses also incurred like Road repair and near by villages facilty improvement
Kheribattar School Paint , Water facility and village consultation and other Infrastructure in the village Kheribattar , Dada Dhola Village Temple and Gaushala and Zone Road	3634522	
Total	5010883	

Employee Safety and Welfare Fund		
Particulars	2022-23 (up to 31.10.22)	
Health Check-up, Employee safety and welfare, food with accomodation	3243706	Health Check-up, Employee safety and welfare, food with accomodation

ASD-RKC J V

Kheri Battar Stone Mines-2

Charkhi Dadri, Haryana

Labourer House Photo





Labourer House

ASD-RKC J V

Kheri Battar Stone Mines-2

Charkhi Dadri, Haryana

Approach Road Photo



REDMI NOTE 5 PRO
MI DUAL CAMERA



REDMI NOTE 5 PRO
MI DUAL CAMERA



REDMI NOTE 5 PRO
MI DUAL CAMERA





REDMI NOTE 5 PRO
MI DUAL CAMERA

(FORM - 0)

(See rule 29F (2) and 22L)

Report of medical examination under rule 29B (To be issued in triplicate)**

Certificate No. 501 (A) / 160 / 21 dt 22/4/21

Certified that Shri/Shrimati* Satender Singh S/o:- Shri Narayan Singh employed as Driver In ASD-RKC-TV mine, Form A No. _____ has been examined for an

initial/periodical medical examination. He/she* appears to be 31 years of age. The findings of the the examining authority are given in the attached sheet. It is considered that Shri/Shrimati* Satender Singh.

- (a)* is medically fit for any employment in mines.
- (b)* is suffering from..... And is medically unfit for
- (d) any employment in mine; or
- (e) any employment below ground; or
- (f) any employment or work.....

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

Space for affixing
Passport Size
Photograph of the Candidate.

Signature of the examining authority

Name and designation in Block letters Date

MBBS HCV-1
Reg No. 7616

Place: Kher Bulki

Date: 22/4/21

* Delete whatever is not applicable.

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

Report of the examination authority

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

Annexure to Certificate No. SCG/CPD/160/21 dt 22/4/12 as result of medical examination

on
Identification Mark Scar mark on the (left) wrist joint

1. General development-

2. Height 5.5 cms.

3. weight 75 kg.

4. Eyes:

i. visual acuity- Distant vision (with or without glasses). Right eye..... Left eye..... 6/6 6/6

ii. night blindness

iii. Colour blindness

iv. Any organic disease of eyes

v. Squint (* to be tasted in special cases)

5. Ears :

a. Hearing: right ear Normal Left ear Normal

b. Any organic diseases.

6. Respiratory system. measurement:

(a) after full inspiration 37 cms.

(b) After full expiration 31 cms.

7. Circulatory system:- (a) Blood pressure 122/82 (b) pulse 76

8. Abdomen:- (a) Tenderness. NAD (b) Liver: NAD
(c) Spleen. NAD (d) tumor NAD

9. Nervous system:- (a) History of fits or epilepsy
(b) paralysis
(c) mental health 140

10. Locomotory system.

11. skin.

12. Hydrocele. NO

13. Hernia

14. Any other abnormality.

15. Urine:- (a) reaction : (b) Albumin: Nil (c) sugar: nil

16. Sklagram of chest.

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

18. Any opinion of specialist considered necessary.

signature of the examining authority

Dr. S.C. Gupta

MBBS HEMS

Reg No. 7616

(FORM - 0)

(See rule 29F (2) and 22L)

Report of medical examination under rule 29B (To be issued in triplicate)**

Certificate No. SCG/CKD/159/21 dt 22/4/21

Certified that Shri/Shrimati* Sunil Tiwari s/o: Rajeshwar Tiwari employed as Supervisor in ASD-RKC-TV mine, Form A No. _____ has been examined for an

initial/periodical medical examination. He/she* appears to be 51 years of age. The findings of the the examining authority are given in the attached sheet. It is considered that Shri/Shrimati* Sunil Tiwari.

- (a)* is medically fit for any employment in mines.
- (b)* is suffering from..... And is medically unfit for
- (d) any employment in mine; or
- (e) any employment below ground; or
- (f) any employment or work.....

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

Space for affixing
Passport Size
Photograph of the Candidate.

Signature of the examining authority
[Signature]
Name and designation in Block letters Date

Place: Kheri Ballia
Date:

MBBS No. 451
Reg No. 7016

* Delete whatever is not applicable.
** One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority.

Report of the examination authority

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

Annexure to Certificate No. 566/CK17/1.59/21 dt-22/4/21 as result of medical examination

on.....

Identification Mark..... Scar mark on the nose

1. General development-

2. Height..... 51.....cms.

3. weight..... 70.....kg.

4. Eyes:

i. visual acuity- Distant vision (with or without glasses). Right eye 6/6.....Left eye 6/6

ii. night blindness

iii. Colour blindness

iv. Any organic disease of eyes

v. Squint (* to be tasted in special cases)

5. Ears :

a. Hearing: right ear Normal Left ear Normal

b. Any organic diseases.

6. Respiratory system. measurement:

(a) after full inspiration..... 28.....cms.

(b) After full expiration..... 33.....cms.

7. Circulatory system:- (a) Blood pressure 150/90

8. Abdomen:-

(a) Tenderness. N/A

(c) Spleen. N/A

9. Nervous system:-

(a) History of fits or epilepsy

(b) paralysis NO

(c) mental health NO

10. Locomotory system.

11. skin.

12. Hydrocele. NO

13. Hernia

14. Any other abnormality.

15. Urine:- (a) reaction :

16. Skilogram of chest.

(b) Albumin : NIL

(c) sugar : NTI

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

18. Any opinion of specialist considered necessary.

Dr. S.C. Gupta

signature of the examining authority

SMO

MBBS HCMRI

Reg No. 7616

(FORM - O)

(See rule 29F (2) and 22L)

Report of medical examination under rule 29B (To be issued in triplicate)**

Certificate No. 546/1111/161/21 dt 22/4/21


Certified that Shri/Shrimati* Rahul Singh employed as W.B. Manager in ASD-RKC-J.V mine, Form A No. has been examined for an initial/periodical medical examination. He/she* appears to be 27 years of age. The findings of the the examining authority are given in the attached sheet. It is considered that Shri/Shrimati* Rahul Singh.

s/o:- Shri Akhileshwar Singh

- (a)* is medically fit for any employment in mines.
- (b)* is suffering from..... And is medically unfit for
- (d) any employment in mine; or
- (e) any employment below ground; or
- (f) any employment or work.....

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

Space for affixing
Passport Size
Photograph of the Candidate.


Signature of the examining authority
Name and designation in Block letters Date
Reg No. 7616

Place: Kheri Bakki
Date:

* Delete whatever is not applicable.
** One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority.

Report of the examination authority

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

Annexure to Certificate No. 544/KN/16/21 as result of medical examination dt 22/4/21

Identification Mark Left thumb on the R hand

Left thumb impression of
The candidate
Good / Fair / Poor

- 1. General development-
- 2. Height 5'9 cms.
- 3. weight 65 kg kg.
- 4. Eyes:
 - i. visual acuity- Distant vision (with or without glasses). Right eye 6/6 Left eye 6/6
 - ii. night blindness
 - iii. Colour blindness
 - iv. Any organic disease of eyes
 - v. Squint (* to be tasted in special cases)
- 5. Ears:
 - a. Hearing: right ear Normal Left ear Normal
 - b. Any organic diseases.
- 6. Respiratory system. measurement:
 - (a) after full inspiration 38 cms.
 - (b) After full expiration 33 cms.
- 7. Circulatory system:- (a) Blood pressure 126/84 (b) pulse 72/m
- 8. Abdomen: - (a) Tenderness. nan (b) Liver. nan
- (c) Spleen. nan (d) tumor nan
- 9. Nervous system:- (a) History of fits or epilepsy
- (b) paralysis no
- (c) mental health no
- 10. Locomotory system.
- 11. skin.
- 12. Hydrocele. no
- 13. Hernia no
- 14. Any other abnormality.
- 15. Urine:- (a) reaction :
- (b) Albumin: nil (c) sugar: nil
- 16. Skiagram of chest.
- 17. Any other test considered necessary by the examining authority.
- 18. Any opinion of specialist considered necessary.

Dr. S.C. Gupta
signature of the examining authority
MBBS
Reg No. 7616

(FORM - 0)

(See rule 29F (2) and 22L)

Report of medical examination under rule 29B (To be issued in triplicate)**

Certificate No. 566/1501/158/21 dt 22/4/21

Certified that Shri/Shrimati* Derender s/o:- Hawa Singh employed as Supervisor in ACD-RKC-T.V mine, Form A No. has been examined for an initial/periodical medical examination. He/she* appears to be 28 years of age. The findings of the the examining authority are given in the attached sheet. It is considered that Shri/Shrimati* Derender

- (a)* is medically fit for any employment in mines.
- (b)* is suffering from..... And is medically unfit for
- (d) any employment in mine; or
- (e) any employment below ground; or
- (f) any employment or work.....

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

Space for affixing
Passport Size
Photograph of the Candidate.

Signature of the examining authority
Dr. S.C. Gupta
Name and designation in Block letters Date
MBBS HCMSI
Reg No. 7616

Place: Akhri Balhi
Date: 22/4/21

* Delete whatever is not applicable.
** One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority.

Report of the examination authority

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

Annexure to Certificate No. SC/1100/158121 dt 22/4/21 as result of medical examination

on
Identification Mark Scar mark below the left elbow.

1. General development-

2. Height 5-7 cms.

3. weight 58 kg.

4. Eyes:

i. visual acuity- Distant vision (with or without glasses). Right eye 6/6 Left eye 6/6
ii. night blindness
iii. Colour blindness

iv. Any organic disease of eyes

v. Squint (* to be tasted in special cases)

5. Ears :

a. Hearing: right ear normal Left ear normal

b. Any organic diseases.

Left thumb impression of
The candidate
Good /Fair/ Poor
Deviendra

2 out glare

6. Respiratory system. measurement:

(a) after full inspiration 38 cms.

(b) After full expiration 34 cms.

7. Circulatory system:-

(a) Blood pressure 120/80

(b) pulse 72/min

8. Abdomen:-

(a) Tenderness none

(c) Spleen none

(b) Liver normal

(d) tumor none

9. Nervous system:-

(a) History of fits or epilepsy no

(b) paralysis no

(c) mental health no

10. Locomotory system.

11. skin.

12. Hydrocele.

13. Hernia no

14. Any other abnormality.

15. Urine:- (a) reaction:

(b) Albumin: nil

(c) sugar nil

16. Skilagram of chest.

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

18. Any opinion of specialist considered necessary.

signature of the examining authority

Dr. S.C. Gupta

MBBS HCMSI

Reg No. 7616

(FORM - 0)

(See rule 29F (2) and 22L)

Report of medical examination under rule 29B (To be issued in triplicate)**

Certificate No.....

SCA/CKD/158/21

d/t 22/4/21

Certified that Shri/Shrimati*

Alakhdev Singh

S/O:- Kapil Singh

employed as I.L.B. Clerk In

ASD-RKC-J.V

mine, Form A No.

has been examined for an

initial/periodical medical examination. He/she* appears to be 46 years of age. The

findings of the the examining authority are given in the attached sheet. It is considered that

Shri/Shrimati* Alakhdev Singh.

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

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

(d) any employment in mine; or

(e) any employment below ground; or

(f) any employment or work.....

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

Space for affixing

Passport Size

Photograph of the Candidate.

Place:

Kheri Ballia

Date:

22-4-21

* Delete whatever is not applicable.

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

Signature of the examining authority

Name and designation in Block letters Date

Reg No. 7616

Report of the examination authority

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

Annexure to Certificate No. 561 CKD / 154/21 as result of medical examination

on 22/4/21 Identification Mark Scan made with (P) face and thumb

1. General development-

2. Height 5-5 cms.

3. weight 77.5 kg.

4. Eyes:

i. visual acuity- Distant vision (with or without glasses). Right eye 6/6 Left eye 6/6

ii. night blindness

iii. Colour blindness

iv. Any organic disease of eyes

v. Squint (* to be tasted in special cases)

5. Ears :

a. Hearing: right ear Normal Left ear Normal

b. Any organic diseases.

6. Respiratory system. measurement:

(a) after full inspiration 40 cms.

(b) After full expiration 35 cms.

7. Circulatory system:- (a) Blood pressure 122/84

8. Abdomen:- (b) pulse 76

(a) Tenderness.

(c) Spleen. was

(b) Liver.

(d) tumor was

9. Nervous system:- (a) History of fits or epilepsy

(b) paralysis

(c) mental health was

10. Locomotory system.

11. skin.

12. Hydrocele. was

13. Hernia

14. Any other abnormality.

15. Urine:- (a) reaction :

(b) Albumin : nil

(c) sugar : nil

16. Skilogram of chest.

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

18. Any opinion of specialist considered necessary.

signature of the examining authority

D.S.C. GUPTA

MBBS
Reg No. 7616

(FORM - 0)

(See rule 29F (2) and 22L)

Report of medical examination under rule 29B (To be issued in triplicate)**

Certificate No. SEG/CAD/154/21 dt 22/4/21

Certified that Shri/Shrimati* Vikas Nehera S/o:- Jai Singh
ACD-RKC-J.V mine, Form A No. _____ employed as W.B. Asst. Manager
has been examined for an initial/periodical medical examination. He/she* appears to be 30 years of age. The findings of the the examining authority are given in the attached sheet. It is considered that Shri/Shrimati* Vikas Nehera.

- (a)* is medically fit for any employment in mines.
- (b)* is suffering from..... And is medically unfit for
- (d) any employment in mine; or
- (e) any employment below ground; or
- (f) any employment or work.....

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

Space for affixing
Passport Size
Photograph of the Candidate:

Place: Kheri Ballia
Date: 22/4/21

Signature of the examining authority
Dr. S.C. Gupta
Name and designation in Block letters Date
MBBS HCMST
Reg No. 7616

* Delete whatever is not applicable.
** One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority.

Report of the examination authority

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

Annexure to Certificate No. S.G./CKD/154/21 dt 22/4/21 as result of medical examination

on.....
Identification Mark Scar mark on the (Rt) ankle

1. General development

2. Height..... 158 cms.

3. weight..... 65 kg.

4. Eyes:

i. visual acuity- Distant vision (with or without glasses). Right eye..... 6/6..... Left eye..... 6/6

ii. night blindness

iii. Colour blindness

iv. Any organic disease of eyes no

v. Squint (* to be tasted in special cases)

5. Ears :

a. Hearing: right ear..... Normal Left ear..... Normal

b. Any organic diseases.

6. Respiratory system. measurement:

(a) after full inspiration..... 27 cms.

(b) After full expiration..... 24 cms.

7. Circulatory system:-

(a) Blood pressure 120/80

8. Abdomen:-

(a) Tenderness. None

(c) Spleen.

(b) pulse 72

(b) Liver.

(d) tumor None

9. Nervous system:-

(a) History of fits or epilepsy no

(b) paralysis

(c) mental health

10. Locomotory system.

11. skin.

12. Hydrocele.

13. Hernia None

14. Any other abnormality.

15. Urine:- (a) reaction :

(b) Albumin: Nil

(c) sugar: Nil

16. Skiagram of chest.

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

18. Any opinion of specialist considered necessary.

Dr. S.C. Gupta

signature of the examining authority

MBBS

Reg No. 7616

(FORM - O)

(See rule 29F (2) and 22L)

Report of medical examination under rule 29B (To be issued in triplicate)**

Certificate No. 566/CKD/149/21 dt 22/4/21

Certified that Shri/Shrimati* Chittaranjan Kumar S/o: Bhagwan Pandit
ASD-RKC-JV mine, Form A No. employed as W.B. Clerk In
initial/periodical medical examination. He/she* appears to be 25 years of age. The
findings of the the examining authority are given in the attached sheet. It is considered that
Shri/Shrimati* Chittaranjan

- (a)* is medically fit for any employment in mines.
- (b)* is suffering from..... And is medically unfit for
- (d) any employment in mine; or
- (e) any employment below ground; or
- (f) any employment or work.....

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

Space for affixing
Passport Size
Photograph of the Candidate.

Place: Khin Ballu

Date: 22/4/21

* Delete whatever is not applicable.

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

Signature of the examining authority

Name and designation in Block letters Date

Dr. S. M. Gupta
EX-SMO
MBBS HCMST
Reg No. 7616

Report of the examination authority

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

Annexure to Certificate No. 562 / CKD / 149 / 21 as result of medical examination

on 22/4/21

Identification Mark: Debauch male in the (R) Thigh Chiranjankumar

Left thumb impression of The candidate Good / Fair / Poor

- 1. General development-
- 2. Height 5'4" cms.
- 3. weight 52 kg.
- 4. Eyes:
 - i. visual acuity- Distant vision (with or without glasses). Right eye 6/6 Left eye 6/6
 - ii. night blindness
 - iii. Colour blindness
 - iv. Any organic disease of eyes
 - v. Squint (* to be tasted in special cases)
- 5. Ears:
 - a. Hearing: right ear Normal Left ear Normal
 - b. Any organic diseases.

- 6. Respiratory system. measurement:
 - (a) after full inspiration 35 cms.
 - (b) After full expiration 32 cms.
- 7. Circulatory system:-
 - (a) Blood pressure 140/90
 - (b) pulse 72/min
 - (c) Spleen
 - (d) Liver
 - (e) tumor

- 8. Abdomen: -
 - (a) Tenderness
 - (b) paralyis
 - (c) mental health
- 9. Nervous system:-
 - (a) History of fits or epilepsy
 - (b) paralyis
 - (c) mental health

- 10. Locomotory system.
- 11. skin.
- 12. Hydrocele.
- 13. Hernia

- 14. Any other abnormality.
- 15. Urine:-
 - (a) reaction
 - (b) Albumin: Nil
 - (c) sugar: Nil

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

Dr. S.C. Gupta
signature of the examining authority
S.M.O
MBBS HCMISI
Reg No. 7616

(FORM - O)

(See rule 29F (2) and 22L)

Report of medical examination under rule 29B (To be issued in triplicate)**

Certificate No.....

5/2/21/21

24/3/21

Certified that Shri/Shrimati* Subesh Ch. Mahapatra employed as S. Supervisor in ASD - P.K.L.-J.V. mine, Form A No. _____ has been examined for an initial/periodical medical examination. He/she* appears to be 54 years of age. The findings of the the examining authority are given in the attached sheet. It is considered that Shri/Shrimati*.....

- 2 (a)* is medically fit for any employment in mines.
- 2 (b)* is suffering from..... And is medically unfit for
- ✓ (d) any employment in mine; or
- 2 (e) any employment below ground; or
- 2 (f) any employment or work.....

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

Space for affixing
Passport Size
Photograph of the Candidate.

Dr. S.C. Gupta
Signature of the examining authority
MBBS/HCMSI
Reg No 7616
Name and designation in Block letters Date

Place: Kheri Batta
Date: 24/03/2021

* Delete whatever is not applicable.
** One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post; and the third copy shall be retained by the examining authority.

Report of the examination authority

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

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

Identification Mark... *Scar mark on forehead*

Sudesh Chandra Mohapatra
Left thumb impression of
The candidate
Good /Fair/ Poor

- 1. General development-
- 2. Height... *166*cms.
- 3. weight... *70*kg.
- 4. Eyes:
 - i. visual acuity- Distant vision (with or without glasses). Right eye... *6/6* Left eye... *6/6*
 - ii. night blindness
 - iii. Colour blindness
 - iv. Any organic disease of eyes
 - v. Squint (* to be tasted in special cases)

Tour
glau

- 5. Ears :
 - a. Hearing: right ear... *N/A* Left ear... *N/A*
 - b. Any organic diseases. *NIL*

6. Respiratory system. measurement:

- (a) after full inspiration... *96*cms.
- (b) After full expiration... *92*cms.

7. Circulatory system:-

- 8. Abdomen: -
 - (a) Tenderness. *N/A*
 - (b) Liver. *N/A*
 - (c) Spleen. *N/A*
 - (d) tumor *N/A*

124/80 pulse

74/m

- 9. Nervous system:-
 - (a) History of fits or epilepsy *N/A*
 - (b) paralysis *N/A*
 - (c) mental health *N/A*

10. Locomotory system.

11. skin.

12. Hydrocele. *NIL*

13. Hernia *NIL*

14. Any other abnormality.

15. Urine:- (a) reaction :

(b) Albumin: *NIL*

(c) sugar: *NIL*

16. Skiagram of chest.

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

18. Any opinion of specialist considered necessary.

Dr. S.C. Gupta
signature of the examining authority
MBBS HCA - I
24/3/14
Reg No. 7616

(FORM - O)

(See rule 29F (2) and 22L)

Report of medical examination under rule 29B (To be issued in triplicate)**

Certificate No..... SK/CKD/145/21 dt 24/3/21

Certified that Shri/Shrimati* Rohit sha employed as w.b. operator in ASD-RKC-V mine, Form A No. _____ has been examined for an initial/periodical medical examination. He/she* appears to be 30 years of age. The findings of the the examining authority are given in the attached sheet. It is considered that Shri/Shrimati*.....

- (a)* is medically fit for any employment in mines.
- (b)* is suffering from..... And is medically unfit for
- (d) any employment in mine; or
- (e) any employment below ground; or
- (f) any employment or work.....

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

Space for affixing
Passport Size
Photograph of the Candidate.

Dr. S.C. Gupta
Ex SMO
Signature of the examining authority
SK/CKD/145/21
Name and designation in Block letters Date
Reg No. 7616

Place : Khesi Bhatta

Date: 24/03/2021

* Delete whatever is not applicable.

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

Report of the examination authority

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

SCH/CKD/145/21 dt 24/3/21

Annexure to Certificate No. as result of medical examination

on..... Identification Mark..... *Right thumb on the left arm*

Font 2029
Left thumb impression of
The candidate
Good /Fair/ Poor

1. General development-

2. Height... *1.48*cms.

3. weight... *25*kg.

4. Eyes:

i. visual acuity- Distant vision (with or without glasses). Right eye... *6/6* Left eye... *6/6*

ii. night blindness

iii. Colour blindness

iv. Any organic disease of eyes

v. Squint (* to be tasted in special cases)

5. Ears:

a. Hearing: right ear... *Normal* Left ear... *Normal*

b. Any organic diseases.

6. Respiratory system. measurement:

(a) after full inspiration..... *120*cms.

(b) After full expiration..... *90*cms.

7. Circulatory system:- (a) Blood pressure *120/80* (b) pulse *72*

8. Abdomen: - (a) Tenderness. *None*

(c) Spleen. *None*

(b) Liver. *Normal*

(d) tumor *None*

9. Nervous system:- (a) History of fits or epilepsy

(b) paralysis

(c) mental health

10. Locomotory system.

11. skin.

12. Hydrocele.

13. Hernia

14. Any other abnormality.

15. Urine:- (a) reaction :

(b) Albumin : *None*

(c) sugar : *None*

16. Skiagram of chest.

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

18. Any opinion of specialist considered necessary.

[Signature]
Dr. S.C. Gupta
Ex. SMO
signature of the examining authority
MBBS & MD
Reg No. 7616

ASD-RKC J V
KHERI BATTAR STONE MINES-2
CHARKHI DADRI, HARYANA

FIRST AID PHOTO





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