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# ASD - RKC J.V.

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

Ref.

Date :  
Date: 07.03.2020

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 42.0 Ha tehsil- Dadri District: Bhiwani, Haryana for Submission period of June 2020.**

**Ref. No. SEIAA/HR/2016/875 dated: 04.10.2016**

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.- 9833080030

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

**SIX MONTHLY ENVIRONMENTAL COMPLIANCE MONITORING REPORT OF  
STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE  
(Period-October 2019 to March 2020)**

**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 (ii)” 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 1<sup>st</sup> June and 1<sup>st</sup> 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 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 Environmental 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 &amp; 273</td> <td>80 lakh MT</td> </tr> <tr> <td>Fifth</td> <td>264 &amp; 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 proposed Stone along with Associated Minor Minerals at Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana by vide letter no. SEIAA/HR/2016/875 dated 04.10.2016. Copy of EC is enclosed as <b>Annexure-1</b>.</p>
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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 <b>313100416BHICTOHWM3466014</b> dated-<b>29.11.2016</b> and valid up to-30.09.2021. Copy of the same is enclosed as <b>Annexure- 2</b>.</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 Mining Plan. Vide letter no. <b>DMG/HY/MP/Kheribattar-2/2015/478-481</b> dated - <b>12.01.2016</b>. Copy of the same is enclosed as <b>Annexure- 3</b>.</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. <b>DMG/HY/MP/Kheribattar-2/2015/478-481</b> dated -<b>12.01.2016</b> and mining operation will not interseed ground water and mining will be restricted at least 3m above GWT. Copy of the same is enclosed as <b>Annexure- 3</b>.</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. All the top soil is being used in the plantation. The top soil occur in the form of patches with thickness of 0.5m is being be removed by dozer and is being transported to a separate top soil stack yard at the statutory barrier of 6m of the lease area. As per the year wise development plan. Mining Plan is attached as <b>Annexure-3</b>.</p>																		
6.	<p>The project proponent shall ensure that no natural water course/water body shall be obstructed due to any mining operations.</p>	<p>Agreed. As per approved mine plan no natural water course/water body shall be obstructed due to any mining operations. Mining Plan is attached as <b>Annexure-3</b>.</p>																		
7.	<p>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</p>	<p>Agreed. Mining Activity is being done as per approved mining plan Vide letter no. <b>DMG/HY/MP/Kheribattar-2/2015/478-481</b> dated -<b>12.01.2016</b>.</p>																		

**M/s ASD RKC J.V. Project: Environmental Clearance for Proposed 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**

	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.	Agreed and complied. OB dump at designated at site as per approved mining plan. Mining Plan is attached as <b>Annexure-3</b> .
9.	The benches height and slope shall be maintained as per approved mining plan.	Agreed. The bench height is being maintained as per approved mining plan. Mining Plan is attached as <b>Annexure-3</b> .
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 <b>Annexure-3</b> .
11.	Garland drains shall be constructed to prevent the flow of the water in the dumps.	Agreed. Garland drains has been constructed to prevent water flow as per approved mining plan. Mining Plan is attached as <b>Annexure-3</b> .
12.	Check dams shall be constructed in the seasonal rivulets to prevent the flow of fines to low lying areas during rains.	Not Applicable.
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 <b>Annexure-4</b> ). We are regularly submitting Compliance status report 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.	Agreed and complied. Drilling is being carried out as per approved mining plan. Mining Plan is attached as <b>Annexure-3</b> .
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.	Agreed. The higher benches of mining pit are terraced and plantation is being done to stabilize the slope. Mining Plan is attached as <b>Annexure-3</b> .
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 desilted, 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 maintained regularly Mining Activity is being done as per approved mining plan. Mining Plan is attached as <b>Annexure-3</b> .
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	Agreed. Garland drains; setting tanks and check dams have been constructed of appropriate size and gradient around the mine pit & dump. Mining Plan is attached as <b>Annexure-3</b> .

**M/s ASD RKC J.V. Project: Environmental Clearance for Proposed Stone along with Associated Minor Minerals at Kheribattar Plot-2, Tehsil- Dadri, District-Bhiwani, Haryana.  
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	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.	Noted & Agreed.
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 and with the consultation of 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.	Agreed. Regularly water sprinkling is being done on main haulage roads and loading and unloading areas with water tankers fitted sprinklers. Lab reports are attached as <b>Annexure-4</b> .
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 land & quantity is being checked regularly. Lab reports are attached as <b>Annexure-4</b> .
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 <b>Annexure- 4</b> . Ground water Level monitoring data in and around the mine area for <b>Post monsoon (November) and Winter (January)</b> are given in <b>Table 3.11 of the chapter-3</b> .
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/NABL/CPCB/Government approved lab.	Agreed. The lease holder has engaged an NABL accredited Laboratory to conduct Monitoring and the reports being submitted to Haryana Pollution Control Board once in six months. Lab reports are attached as <b>Annexure-4</b> .
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 all 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.
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	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

**M/s ASD RKC J.V. Project: Environmental Clearance for Proposed Stone along with Associated Minor Minerals at Kheribattar Plot-2, Tehsil- Dadri, District-Bhiwani, Haryana.  
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	boulders shall be implemented.	are as follows: <ul style="list-style-type: none"> <li>➤ Silencer in the machineries is being provided to reduce generation of noise.</li> <li>➤ Drilling with sharp edges bits will minimize generation of noise.</li> <li>➤ Control blasting is being done with proper charge of explosive to minimize noise during blasting.</li> <li>➤ Regular Noise monitoring is being/will be conducting regularly at the project site. (Lab report attached as <b>Annexure-4</b>).</li> </ul>
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 on in day time and 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"> <li>➤ 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.</li> <li>➤ No drilling has commenced in an area, where shot have been fired, until the blaster has made thorough examination at all places.</li> <li>➤ Shots shall not be fired except during hours of day-light.</li> <li>➤ Siren has blown over the entire area falling within the radius of 500m from the place of firing.</li> <li>➤ Two persons have posted, one in either direction at the two extreme points of the road lying within the danger zone.</li> <li>➤ 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.</li> <li>➤ 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.</li> </ul>
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.	Agreed. NOC of Forest has been taken from Forest Department and Letter number is <b>1938</b> date- <b>03.11.2015</b> . Copy of the same is enclosed as <b>Annexure- 5</b> .
28.	As envisaged, the Project Proponent shall invest at least an amount of Rs. 54 lakh as cost for implementing various environmental protection	The total cost of project is 4.23Crores. The project proponent will invest amount of Rs. 54 lakh as cost for implementing various environmental protection measures including

**M/s ASD RKC J.V. Project: Environmental Clearance for Proposed 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**

	measures including recurring expense per year.	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.	<p>Agreed.</p> <p>Budget allocation for CSR Activities is 24.5 Lakh for five years and activity wise CSR Budget is given as below-</p> <table border="1"> <thead> <tr> <th rowspan="2">S. No.</th> <th rowspan="2">Description</th> <th colspan="5">Year</th> </tr> <tr> <th>1<sup>st</sup></th> <th>2<sup>nd</sup></th> <th>3<sup>rd</sup></th> <th>4<sup>th</sup></th> <th>5<sup>th</sup></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Health checkup camps in Kheri Battar village, one day duration, once in 3 month. @</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td>2</td> <td>Sanitations and drinking water facilities in Rajkiya</td> <td>1.5</td> <td>0.5</td> <td>0.5</td> <td>0.5</td> <td>0.5</td> </tr> <tr> <td>3</td> <td>Sanitations and drinking water facilities in Kheri Battar Village, including</td> <td>1.5</td> <td>0.5</td> <td>0.5</td> <td>0.5</td> <td>0.5</td> </tr> <tr> <td>4</td> <td>Scholarship to needy and</td> <td>0.5</td> <td>0.5</td> <td>0.5</td> <td>0.5</td> <td>0.5</td> </tr> <tr> <td>5</td> <td>Vocational training to persons for</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td>6</td> <td>Campaigns for Bet Bachao, Beti Pado</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>6.5</b></td> <td><b>4.5</b></td> <td><b>4.5</b></td> <td><b>4.5</b></td> <td><b>4.5</b></td> </tr> </tbody> </table> <p><b>Overall CSR cost is Rs. 24.5 Lakh for five years</b></p>	S. No.	Description	Year					1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	1	Health checkup camps in Kheri Battar village, one day duration, once in 3 month. @	1.0	1.0	1.0	1.0	1.0	2	Sanitations and drinking water facilities in Rajkiya	1.5	0.5	0.5	0.5	0.5	3	Sanitations and drinking water facilities in Kheri Battar Village, including	1.5	0.5	0.5	0.5	0.5	4	Scholarship to needy and	0.5	0.5	0.5	0.5	0.5	5	Vocational training to persons for	1.0	1.0	1.0	1.0	1.0	6	Campaigns for Bet Bachao, Beti Pado	1.0	1.0	1.0	1.0	1.0	<b>Total</b>		<b>6.5</b>	<b>4.5</b>	<b>4.5</b>	<b>4.5</b>	<b>4.5</b>
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6	Campaigns for Bet Bachao, Beti Pado	1.0	1.0	1.0	1.0	1.0																																																									
<b>Total</b>		<b>6.5</b>	<b>4.5</b>	<b>4.5</b>	<b>4.5</b>	<b>4.5</b>																																																									
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 are being developed at the mine site. All the temporary structure will be removed after the completion of the project.</p>																																																													
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.	<p>Agreed.</p> <p>Post closure water reservoir will be provided with suitable benches and fencing to provide the access to the water body.</p>																																																													
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.	<p>Agreed.</p> <p>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 and displayed at the project site.</p>																																																													



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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 vehicular.
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 & Complied.
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"> <li>➤ Sanitary facilities will be provided.</li> <li>➤ All necessary &amp; statutory first aid and medical facilities will be provided to the workers.</li> <li>➤ Preventive measures have been taken for occupational health &amp; safety of workers.</li> <li>➤ 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.</li> <li>➤ Vocational training will be provided to the workers.</li> </ul>
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.

**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. Work is being conducted as per the proposed mine scheme approved by DGM Haryana Vide letter no. <b>DMG/HY/MP/Kheribattar-2/2015/478-481 dated -12.01.2016.</b> Copy of the same is enclosed as <b>Annexure- 3.</b>
iii.	Periodic monitoring of ambient air quality shall be carried out for PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> 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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> monitoring. Lab reports are enclosed as <b>Annexure-4.</b>
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"> <li>➤ All scientific blasting is proposed to reduce the vibrations and check noise pollution. An</li> </ul>

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		<p>earplug is being provided to the workers.</p> <ul style="list-style-type: none"> <li>➤ All the machineries including transport vehicles are properly maintained to minimize generation of noise.</li> <li>➤ Drilling with sharp edges bits is provided to reduce generation of noise.</li> <li>➤ Noise source will be isolated.</li> <li>➤ Dense plantation in mining area is also reducing propagation of noise outside the core zone.(Noise report are attached as <b>Annexure- 4.</b></li> </ul>
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 <sup>th</sup> May 1993 and 31 <sup>st</sup> 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.	<p>Following mitigation measures has been initiated for the workers who worked at critically dusty area.</p> <ul style="list-style-type: none"> <li>➤ Sprinkled with water at regular intervals</li> <li>➤ Operators and other persons near loading area are using the dust mask.</li> <li>➤ Scientific Mining has been proposed to minimize the effect of air pollution.</li> <li>➤ Wet drilling is being practiced.</li> <li>➤ Also allocated 08 lakh per annum for organizing health camps training purposes.</li> </ul>
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.	<p>Agreed.</p> <ul style="list-style-type: none"> <li>➤ Dust mask is being provided to the workers working in the dust prone areas as additional personal protective equipments.</li> <li>➤ Workers are informed and kept aware about occupational health hazards due to such activities and preventive measures.</li> <li>➤ Workers health related problem is being properly addressed.</li> </ul>
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.	<p>Agreed &amp; Complied.</p> <p>Project Proponent is being reported Year wise expenditure of Environment protection Measures to the HSPCB and the Regional office of MoEF located at Chandigarh.</p>
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 with monitoring reports to the northern regional office of MoEF & CC, HSPCB and SEIAA Haryana. Submission receipt of last compliance report is attached as <b>Annexure-6.</b>
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.

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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.	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 on website. The public advertisement is enclosed as <b>Annexure-7</b> .
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 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.	Agreed.

# 3

## DETAILS OF ENVIRONMENTAL MONITORING

### 3.1 Monitoring Portfolio:

This report is prepared for the period October 2019 to March 2020 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 (SO<sub>2</sub>)
- Nitrogen Dioxide (NO<sub>2</sub>)

The duration of sampling of PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>2</sub> 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<sub>2.5</sub> i.e. <2.5 microns), and Respirable Dust Sampler was used for sampling Respirable fraction (<10 microns), gaseous pollutants like SO<sub>2</sub>, and NO<sub>x</sub>.

**Table 3.2 Techniques used for Ambient Air Quality Monitoring**

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

#SOP-As per Laboratory Standard Operating Procedure.

### 3.2.3 Ambient Air Quality Monitoring Results

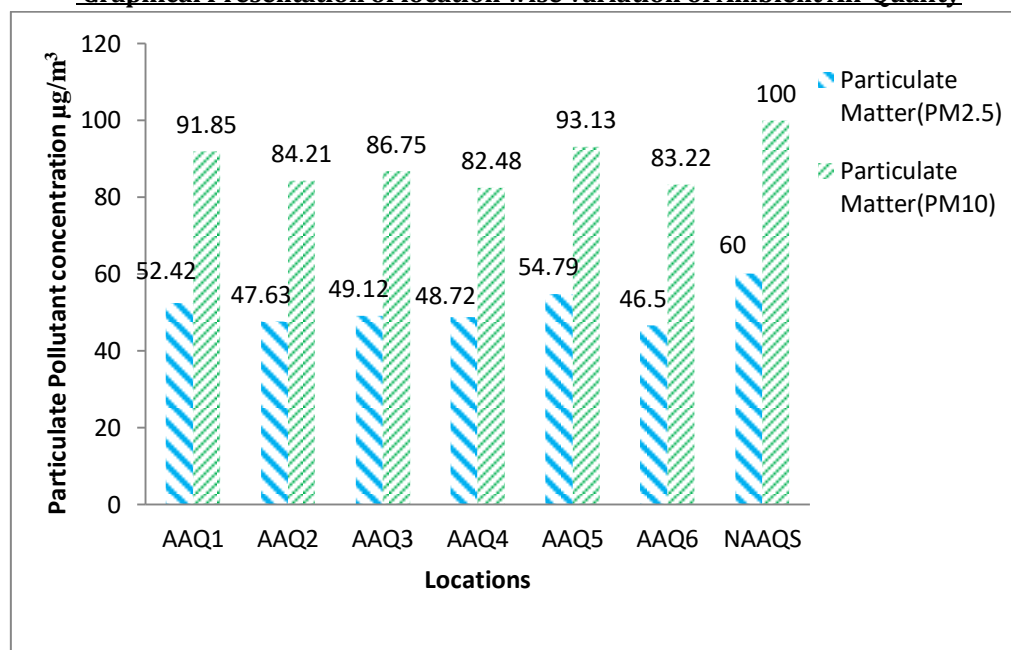
The detailed on-site monitoring results of PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub> are presented as **Table 3.3**

**Table 3.3 Ambient Air Quality Monitoring Results**  
(All results are expressed in µg/m<sup>3</sup>)

S. No.	Parameter	Test Result						NAAQS*
		AAQ1	AAQ2	AAQ3	AAQ4	AAQ5	AAQ6	
1.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	52.42	47.63	49.12	48.72	54.79	46.50	60
2.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	91.85	84.21	86.75	82.48	93.13	83.22	100
3.	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	25.60	23.84	26.40	25.76	26.65	24.15	80
4.	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	11.81	8.98	7.98	8.67	9.76	9.73	80

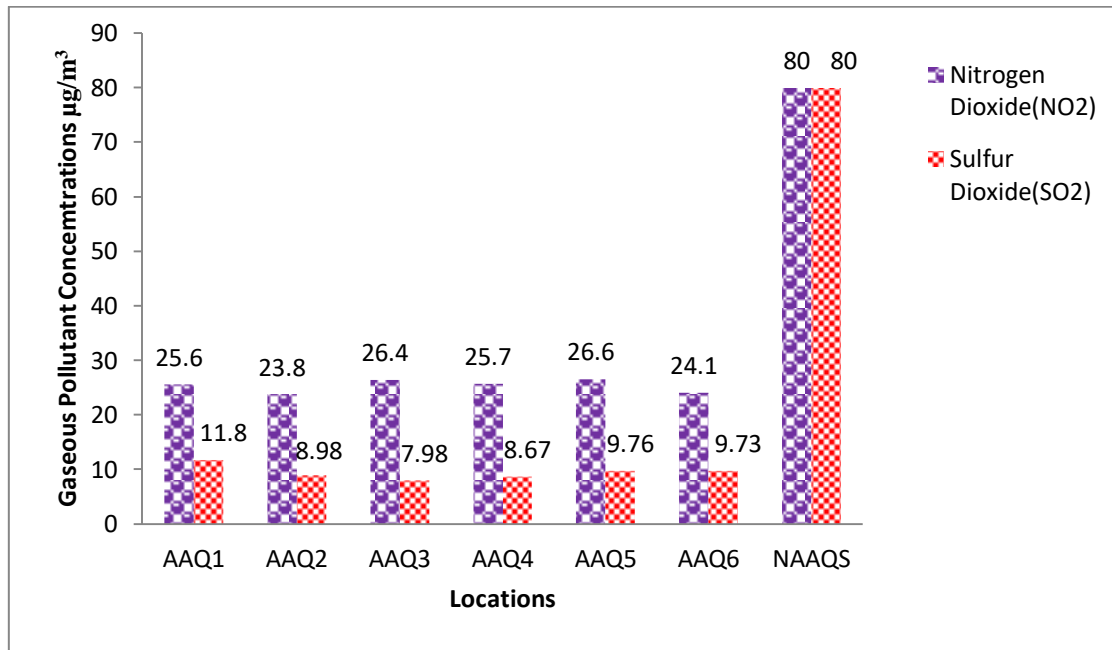
\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009

**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<sub>2.5</sub> and PM<sub>10</sub> at all locations was found to be in range of 46.50 to 54.79 µg/m<sup>3</sup> and 82.48 to 93.13µg/m<sup>3</sup> respectively. The level of NO<sub>2</sub> and SO<sub>2</sub> at all locations was found to be in range of 23.8.1 to 26.6 µg/m<sup>3</sup> and 7.98 to 11.8 µg/m<sup>3</sup> 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
<b>Lmax</b>	74.1	68.1	75.5	69.4	76.4	71.8	53.6	44.2	76.9	71.6	54.3	43.9
<b>Lmin</b>	61.2	47.9	64.2	58.6	64.2	59.5	41.4	35.4	62.4	57.2	41.3	34.7
<b>Leq</b>	<b>69.7</b>	<b>58.6</b>	<b>69.1</b>	<b>63.4</b>	<b>72.5</b>	<b>68.2</b>	<b>48.1</b>	<b>39.6</b>	<b>72.5</b>	<b>67.7</b>	<b>48.7</b>	<b>39.8</b>
<b>CPCB Limits in dB(A) Leq</b>	75.0	70.0	75.0	70.0	75.0	70.0	55.0	45.0	75.0	70.0	55.0	45.0

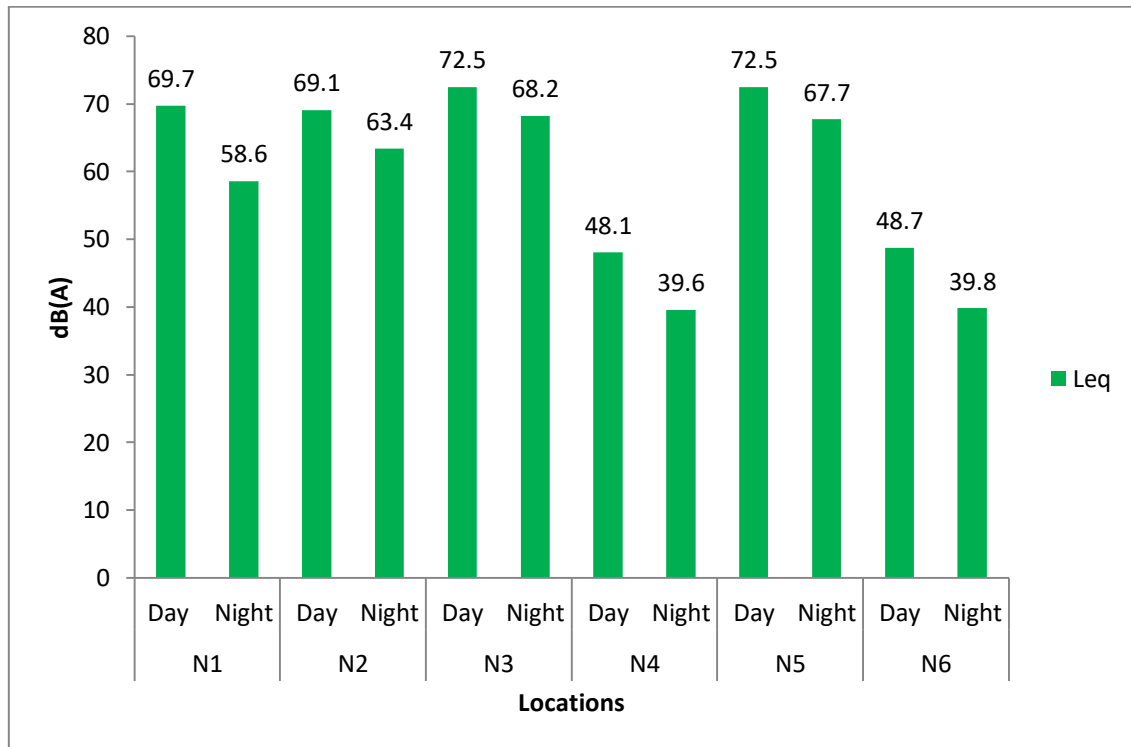


Figure 3.3 Graphical Presentation of Ambient Noise Level

### 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 48.1 to 72.5 dB (A) and 39.6 to 67.7 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 (in Nov 2019 and Jan 2020)
2.	GW2	Village- Kheribora(in Nov 2019 and Jan 2020)

#### 3.4.2 Methodology of Ground Water Quality Monitoring

Sampling of ground water was carried out on November 2019 and January 2020. 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 HNO<sub>3</sub>. 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 (Nov 2019 Post 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)	--	7.28	6.5 to 8.5	No Relaxation
2.	Colour	Hazen	*BDL (**DL 5Hazen)	5	15
3.	Turbidity	NTU	*BDL (**DL 0. 1 NTU)	1	5
4.	Odour	--	Agreeable	Agreeable	Agreeable
5.	Taste	--	Agreeable	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	312.56	200	600
7.	Calcium as Ca	mg/l	61.42	75	200
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	286.43	200	600
9.	Chloride as Cl	mg/l	153.20	250	1000
10.	Cyanide as CN	mg/l	*BDL(**DL 0.02 mg/l)	0.05	No Relaxation
11.	Magnesium as Mg	mg/l	38.71	30	100
12.	Total Dissolved Solids	mg/l	648.00	500	2000
13.	Sulphate as SO <sub>4</sub>	mg/l	61.20	200	400
14.	Fluoride as F	mg/l	0.76	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	mg/l	26.52	45	No Relaxation
16.	Iron as Fe	mg/l	0.34	0.3	No relaxation
17.	Aluminium as Al	mg/l	*BDL(**DL 0.03 mg/l)	0.03	0.2
18.	Boron	mg/l	0.30	0.5	1
19.	Chromium as Cr	mg/l	*BDL(**DL 0.03 mg/l)	0.05	No Relaxation
20.	Phenolic Compounds	mg/l	*BDL(**DL 0.001 mg/l)	0.001	0.002
21.	Mineral Oil	mg/l	*BDL(**DL 0.01mg/l)	0.5	No Relaxation
22.	Anionic Detergents as MBAS	mg/l	*BDL(**DL 0.02 mg/l)	0.2	1.0
23.	Zinc as Zn	mg/l	0.32	5	15
24.	Copper as Cu	mg/l	0.17	0.05	1.5
25.	Manganese as Mn	mg/l	*BDL(**DL 0.06 mg/l)	0.1	0.3
26.	Cadmium as Cd	mg/l	*BDL(**DL 0.003mg/l)	0.003	No Relaxation
27.	Lead as Pb	mg/l	*BDL(**DL 0.01 mg/l)	0.01	No Relaxation
28.	Selenium as Se	mg/l	*BDL(**DL 0.01 mg/l)	0.01	No Relaxation
29.	Arsenic as As	mg/l	*BDL(**DL 0.01 mg/l)	0.01	0.05
30.	Mercury as Hg	mg/l	*BDL (**DL 0.001 mg/l)	0.001	No Relaxation
31.	Total Coliform	MPN/100ml	<2	Shall not be Detectable in 100ml Sample	
32.	E. Coli	MPN/100ml	Absent	Shall not be Detectable in 100ml Sample	

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

**Table 3.8 Ground Water Quality Monitoring Results (Nov 2019 Post 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)	--	7.67	6.5 to 8.5	No Relaxation
2.	Colour	Hazen	*BDL (**DL 5Hazen)	5	15
3.	Turbidity	NTU	*BDL (**DL 0. 1 NTU)	1	5
4.	Odour	--	Agreeable	Agreeable	Agreeable
5.	Taste	--	Agreeable	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	321.68	200	600
7.	Calcium as Ca	mg/l	65.12	75	200
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	345.40	200	600
9.	Chloride as Cl	mg/l	151.25	250	1000
10.	Cyanide as CN	mg/l	*BDL (**DL 0.02 mg/l)	0.05	No Relaxation
11.	Magnesium as Mg	mg/l	38.68	30	100
12.	Total Dissolved Solids	mg/l	710.00	500	2000
13.	Sulphate as SO <sub>4</sub>	mg/l	31.42	200	400
14.	Fluoride as F	mg/l	0.67	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	mg/l	24.86	45	No Relaxation
16.	Iron as Fe	mg/l	0.54	0.3	No relaxation
17.	Aluminium as Al	mg/l	*BDL (**DL 0.03 mg/l)	0.03	0.2
18.	Boron	mg/l	0.41	0.5	1
19.	Chromium as Cr	mg/l	*BDL (**DL 0.03 mg/l)	0.05	No Relaxation
20.	Phenolic Compounds	mg/l	*BDL (**DL 0.001 mg/l)	0.001	0.002
21.	Mineral Oil	mg/l	*BDL (**DL 0.01mg/l)	0.5	No Relaxation
22.	Anionic Detergents as MBAS	mg/l	*BDL (**DL 0.02 mg/l)	0.2	1.0
23.	Zinc as Zn	mg/l	0.24	5	15
24.	Copper as Cu	mg/l	0.15	0.05	1.5
25.	Manganese as Mn	mg/l	*BDL (**DL 0.06 mg/l)	0.1	0.3
26.	Cadmium as Cd	mg/l	*BDL (**DL 0.003mg/l)	0.003	No Relaxation
27.	Lead as Pb	mg/l	*BDL (**DL 0.01 mg/l)	0.01	No Relaxation
28.	Selenium as Se	mg/l	*BDL (**DL 0.01 mg/l)	0.01	No Relaxation
29.	Arsenic as As	mg/l	*BDL (**DL 0.01 mg/l)	0.01	0.05
30.	Mercury as Hg	mg/l	*BDL (**DL 0.001 mg/l)	0.001	No Relaxation
31.	Total Coliform	MPN/100ml	<2	Shall not be Detectable in 100ml Sample	
32.	E. Coli	MPN/100ml	Absent	Shall not be Detectable in 100ml Sample	

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



**Table 3.9 Ground Water Quality Monitoring Results January (winter) 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)	--	7.41	6.5 to 8.5	No Relaxation
2.	Colour	Hazen	*BDL (**DL 5Hazen)	5	15
3.	Turbidity	NTU	*BDL (**DL 0. 1 NTU)	1	5
4.	Odour	--	Agreeable	Agreeable	Agreeable
5.	Taste	--	Agreeable	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	310.43	200	600
7.	Calcium as Ca	mg/l	61.84	75	200
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	321.54	200	600
9.	Chloride as Cl	mg/l	163.93	250	1000
10.	Cyanide as CN	mg/l	*BDL(**DL 0.02 mg/l)	0.05	No Relaxation
11.	Magnesium as Mg	mg/l	37.94	30	100
12.	Total Dissolved Solids	mg/l	718.00	500	2000
13.	Sulphate as SO <sub>4</sub>	mg/l	67.10	200	400
14.	Fluoride as F	mg/l	0.87	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	mg/l	31.65	45	No Relaxation
16.	Iron as Fe	mg/l	0.43	0.3	No relaxation
17.	Aluminium as Al	mg/l	*BDL(**DL 0.03 mg/l)	0.03	0.2
18.	Boron	mg/l	0.34	0.5	1
19.	Chromium as Cr	mg/l	*BDL(**DL 0.03 mg/l)	0.05	No Relaxation
20.	Phenolic Compounds	mg/l	*BDL(**DL 0.001 mg/l)	0.001	0.002
21.	Mineral Oil	mg/l	*BDL(**DL 0.01mg/l)	0.5	No Relaxation
22.	Anionic Detergents as MBAS	mg/l	*BDL(**DL 0.02 mg/l)	0.2	1.0
23.	Zinc as Zn	mg/l	0.42	5	15
24.	Copper as Cu	mg/l	0.18	0.05	1.5
25.	Manganese as Mn	mg/l	*BDL(**DL 0.06 mg/l)	0.1	0.3
26.	Cadmium as Cd	mg/l	*BDL(**DL 0.003 mg/l)	0.003	No Relaxation
27.	Lead as Pb	mg/l	*BDL(**DL 0.01 mg/l)	0.01	No Relaxation
28.	Selenium as Se	mg/l	*BDL(**DL 0.01 mg/l)	0.01	No Relaxation
29.	Arsenic as As	mg/l	*BDL(**DL 0.01 mg/l)	0.01	0.05
30.	Mercury as Hg	mg/l	*BDL (**DL 0.001 mg/l)	0.001	No Relaxation
31.	Total Coliform	MPN/100ml	<2	Shall not be Detectable in 100ml Sample	
32.	E. Coli	MPN/100ml	Absent	Shall not be Detectable in 100ml Sample	

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 January (Winter) 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)	--	7.51	6.5 to 8.5	No Relaxation
2.	Colour	Hazen	*BDL (**DL 5Hazen)	5	15
3.	Turbidity	NTU	*BDL (**DL 0.1 NTU)	1	5
4.	Odour	--	Agreeable	Agreeable	Agreeable
5.	Taste	--	Agreeable	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	289.32	200	600
7.	Calcium as Ca	mg/l	51.24	75	200
8.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	304.34	200	600
9.	Chloride as Cl	mg/l	141.87	250	1000
10.	Cyanide as CN	mg/l	*BDL(**DL 0.02 mg/l)	0.05	No Relaxation
11.	Magnesium as Mg	mg/l	39.23	30	100
12.	Total Dissolved Solids	mg/l	698.00	500	2000
13.	Sulphate as SO <sub>4</sub>	mg/l	39.87	200	400
14.	Fluoride as F	mg/l	0.76	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	mg/l	29.85	45	No Relaxation
16.	Iron as Fe	mg/l	0.59	0.3	No relaxation
17.	Aluminium as Al	mg/l	*BDL(**DL 0.03 mg/l)	0.03	0.2
18.	Boron	mg/l	0.48	0.5	1
19.	Chromium as Cr	mg/l	*BDL(**DL 0.03 mg/l)	0.05	No Relaxation
20.	Phenolic Compounds	mg/l	*BDL(**DL 0.001 mg/l)	0.001	0.002
21.	Mineral Oil	mg/l	*BDL(**DL 0.01mg/l)	0.5	No Relaxation
22.	Anionic Detergents as MBAS	mg/l	*BDL(**DL 0.02 mg/l)	0.2	1.0
23.	Zinc as Zn	mg/l	0.41	5	15
24.	Copper as Cu	mg/l	0.21	0.05	1.5
25.	Manganese as Mn	mg/l	*BDL(**DL 0.06 mg/l)	0.1	0.3
26.	Cadmium as Cd	mg/l	*BDL(**DL 0.003 mg/l)	0.003	No Relaxation
27.	Lead as Pb	mg/l	*BDL(**DL 0.01 mg/l)	0.01	No Relaxation
28.	Selenium as Se	mg/l	*BDL(**DL 0.01 mg/l)	0.01	No Relaxation
29.	Arsenic as As	mg/l	*BDL(**DL 0.01 mg/l)	0.01	0.05
30.	Mercury as Hg	mg/l	*BDL (**DL 0.001 mg/l)	0.001	No Relaxation
31.	Total Coliform	MPN/100ml	<2	Shall not be Detectable in 100ml Sample	
32.	E. Coli	MPN/100ml	Absent	Shall not be Detectable in 100ml 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 286.43 and 345.40 mg/L respectively in water samples against the prescribed limit of 200 mg/L (600 Permissible limit). Total Hardness in the water is 289.32 mg/L and 321.68 mg/L at project site 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 post monsoon (month of November) and during winter (month of January). The data is given below in table 3.11. This shows significant recharging in post monsoon season and no impact of mining activities undertaken in the area on ground water.

**Table 3.11 Ground Water level in and around the mine site**

Sample Number	Village Name	Location	Water Level (in mbgl) (Nov, 2019)	Water Level (in mbgl) (Jan, 2020)
W1	Mine Site	28°33'43.25"N 76°10'32.89"E	38.10	39.15
W2	Kaliyana	28°33'7.55"N 76°12'1.14"E	33.50	34.70
W3	Asawari	28°32'31.65"N 76° 8'36.32"E	28.90	29.42
W4	Kalali	28°31'21.66"N 76°11'1.54"E	27.90	28.55
W5	Kheri Bura	28°35'22.68"N 76°11'56.23"E	18.20	19.05

### 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 Project 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 2020.

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.	<b>pH (at 25 °C)</b>	IS : 2720 (P-26) by pH Meter	--	<b>7.67</b>
2.	<b>Conductivity</b>	IS:14767 by Conductivity meter	mS/cm	<b>0.378</b>
3.	<b>Soil Texture</b>	IS : 2720 (P-22, RA2003)	--	<b>Sandy</b>
4.	<b>Color</b>	SOP , SP-78,Issue No.-01& Issue Date-14/02/2013	--	<b>Brownish</b>
5.	<b>Water holding capacity</b>	SOP , SP-81,Issue No.-01& Issue Date-14/02/2013	%	<b>31.23</b>
6.	<b>Bulk density</b>	SOP , SP-80,Issue No.-01& Issue Date-14/02/2013	gm/cc	<b>1.78</b>
7.	<b>Chloride as Cl</b>	SOP , SP-85,Issue No.-01& Issue Date-14/02/2013	mg/100g	<b>43.40</b>
8.	<b>Calcium as Ca</b>	SOP , SP-82,Issue No.-01& Issue Date-14/02/2013	mg/100g	<b>41.76</b>
9.	<b>Sodium as Na</b>	SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	mg/kg	<b>38.34</b>
10.	<b>Potassium as K</b>	SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	kg/hect.	<b>133.21</b>
11.	<b>Organic Matter</b>	IS:2720 (P-22) Titrimetric Method	%	<b>0.75</b>
12.	<b>Magnesium as Mg</b>	SOP , SP-83,Issue No.-01& Issue Date-14/02/2013	mg/100g	<b>21.67</b>
13.	<b>Available Nitrogen as N</b>	IS:14684 Distillation Method	kg./hect.	<b>141.89</b>
14.	<b>Available Phosphorus</b>	SOP , SP-86,Issue No.-01& Issue Date-14/02/2013	kg./hect.	<b>25.60</b>
15.	<b>Zinc (as Zn)</b>	USEPA 3050B	mg/kg	<b>6.56</b>
16.	<b>Manganese (as Mn )</b>	USEPA 3050B	mg/kg	<b>4.34</b>
17.	<b>Lead (as Pb)</b>	USEPA 3050B	mg/kg	<b>1.56</b>
18.	<b>Cadmium (as Cd )</b>	USEPA 3050B	mg/kg	<b>1.67</b>
19.	<b>Chromium (as Cr)</b>	USEPA 3050B	mg/kg	<b>1.30</b>
20.	<b>Copper (as Cu )</b>	USEPA 3050B	mg/kg	<b>3.26</b>

\*SOP -Laboratory standard operating procedure. #Chromium- this parameter is not covered our NABL scope.

**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	--	<b>7.61</b>
2.	Conductivity	IS:14767 by Conductivity meter	mS/cm	<b>0.378</b>
3.	Soil Texture	IS : 2720 (P-22, RA2003)	--	<b>Sandy</b>
4.	Color	SOP , SP-78,Issue No.-01& Issue Date-14/02/2013	--	<b>Brownish</b>
5.	Water holding capacity	SOP , SP-81,Issue No.-01& Issue Date-14/02/2013	%	<b>36.23</b>
6.	Bulk density	SOP , SP-80,Issue No.-01& Issue Date-14/02/2013	gm/cc	<b>1.54</b>
7.	Chloride as Cl	SOP , SP-85,Issue No.-01& Issue Date-14/02/2013	mg/100g	<b>56.76</b>
8.	Calcium as Ca	SOP , SP-82,Issue No.-01& Issue Date-14/02/2013	mg/100g	<b>34.62</b>
9.	Sodium as Na	SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	mg/kg	<b>37.36</b>
10.	Potassium as K	SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	kg/hect.	<b>152.54</b>
11.	Organic Matter	IS:2720 (P-22) Titrimetric Method	%	<b>0.47</b>
12.	Magnesium as Mg	SOP , SP-83,Issue No.-01& Issue Date-14/02/2013	mg/100g	<b>18.71</b>
13.	Available Nitrogen as N	IS:14684 Distillation Method	kg./hect.	<b>142.54</b>
14.	Available Phosphorus	SOP , SP-86,Issue No.-01& Issue Date-14/02/2013	kg./hect.	<b>26.62</b>
15.	Zinc (as Zn)	USEPA 3050B	mg/kg	<b>6.36</b>
16.	Manganese (as Mn )	USEPA 3050B	mg/kg	<b>3.28</b>
17.	Lead (as Pb)	USEPA 3050B	mg/kg	<b>1.19</b>
18.	Cadmium (as Cd )	USEPA 3050B	mg/kg	<b>1.46</b>
19.	Chromium (as Cr)	USEPA 3050B	mg/kg	<b>0.58</b>
20.	Copper (as Cu )	USEPA 3050B	mg/kg	<b>5.25</b>

\*SOP -Laboratory standard operating procedure. #Chromium- this parameter is not covered our NABL scope.

### 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



Ambient Noise Monitoring



Ambient Air Monitoring





Noise Monitoring



Ambient Air Monitoring





**Loading Unloading Photos**



**Water Sprinkling**





**Green belt**

150

3(1)

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

No. SEIAA/HR/2016/ 375

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-I, 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
4. Production capacity	81,66,000 MT/Year (27220 Ton/day)
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)	<b>Year</b>	<b>Bench mrl</b>	<b>Production</b>
		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	<b>Year of Plantation</b>	<b>Proposed Plantation</b>	
		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 95<sup>th</sup> 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.

9(5)

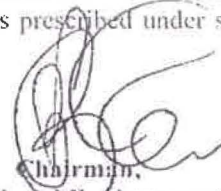
[37] The project proponent shall ensure supply of drinking water through RO.

**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 PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> 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 19<sup>th</sup> May 93 and 31<sup>st</sup> 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  
C-11, SECTOR-6, PANCHKULA**

*Website – www.hspcb.gov.in E-Mail - hspcb.pkl@sifymail.com*

*Tele Fax No. – 0172-2577870-73*

**No. HSPCB/Consent/ : 313100416BHICTOHWM3466014**

**Dated:29/11/2016**

To.

M/s :**ASD-RKC J.V**

**kHASARA NO. 139,140,141MIN VILLAGE KHARIBATTAR, TEHSIL DADRI  
BHIWANI**

**Subject: Grant of consent for emission of Air under section 21/22 of the Air  
(Prevention & Control of Pollution) Act, 1981, from 25/11/2016 to  
30/09/2021**

Please refer to your consent application received on dated **2016-11-10** in Regional Officer ,  
Jind on the subject cited above.

With reference to your above application for consent for the emission/ continuation of  
emission of S.P.M. air pollutions into atmosphere under Air (Prevention & Control of Pollution) Act,  
1981 hereinafter referred as the Act.

M/s **ASD-RKC J.V** are authorized by the Haryana State Pollution Control Board to discharge their  
air pollution being emitted out of their factory premises in accordance with the condition as  
mentioned below:-

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. Two or more ducts with different nature of exhaust gases should neither be intermixed nor to be through a common chimney.
3. Adequate facilities should be provided for sampling viz sampling holes at specified locations and dimension. The platform of specified size and strengthful arrangements electric connection also be provided.
4. 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.
5. The disturbed condition in any of plant/plants of the factory which is likely to result in increased emission or result in violation of emission standards shall be forthwith reported to this Board under intimation to the Member Secretary, Haryana State Pollution Control Board.
6. The toxic chemicals materials should be handled with due safety. The storage of toxic chemicals should be such that in case of emergency the chemicals could be transferred to other empty tank automatically and which should be followed by an approved air pollution control equipment designed for worst conditions.
7. A green belt (having sufficient tall and dense tree) around the factory should be provided.

8. All the processes using toxic chemical/harmful gases should be equipped with an emergency siren system in working conditions for alarming the general public in case of untoward incident.
9. The applicant shall furnish to all visiting officer and/or the State Board, any information regarding the construction/installation or operation of the establishment or emission control system and such other particulars as may be pertinent to prevention and control of air pollution. The industry shall also maintain and make available inspection book to the officers of the Board during their visits.
10. The air pollution control equipment of such specification which shall keep the emissions within the emission standard as approved by the State Board from time to time shall be installed and operated in the premises where the industry is carrying on/proposed to carry on its business.
11. The existing air pollution control equipment if required shall be alerted or replaced in accordance with the direction of the Board.
12. All solid wastes arising in the factory premises shall be properly graded and disposed of by:-
  - (i) In case of Land fill material, care should be taken to ensure that the material does not give rise to leachate which may percolate in ground water or carried away with storm run off.
  - (ii) Composting in case of bio degradable materials.
  - (iii) If the method of incineration is used for the disposal of solid waste the consent application should be processed separately and it should be taken up which consent is granted.
13. The industry shall submit an undertaking to the effect that the above conditions shall be complied with by them.
14. The applicant shall ensure that the emission of the air pollutants shall remain within emission standards as approved by the State Board from time to time.
15. The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent.
16. Necessary fee as prescribed for obtaining renewal consent shall be paid by the applicant alongwith the consent application.
17. The applicant shall either:-
  - a) Not later than 30 days from the date of consent order, certify in writing to the Member Secretary that the applicant had installed or provided for alternate electric power source sufficient to operate all the facilities installed by the applicant to maintain compliance with the terms and conditions of the consent.
  - b). Not later than 30 days from the date of this consent certify in writing to the Member Secretary that upon the reduction loss or failure of one or more of the primary source of electric power to any facilities installed by the application to maintain compliances with the term and conditions of this consent, the application shall proportionally reduce or otherwise control production and/or all emissions in order to maintain compliance with terms and conditions of this consent.
18. There should not be any fugitive emission from the premises.
19. The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to the standards stipulated in the consent granted under Water (Prevention & Control of Pollution) Act, 1974 by this Board.
20. 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.
21. If the industry fails to adhere to any of the condition of this consent order the consent so granted shall automatically lapse.
22. The unit shall obtain consent under Water (Prevention & Control of Pollution) Act, 1974 and authorization under HWTM Rules,2008.

23. (a) The industry shall discharge all the gases through a stack of minimum height.  
(b) The height of stack shall conform to the following criteria:
  - (i)  $H = 14.Q^{0.3}$  Where sulphur-dioxide is emitted.  
Q = Sulphur dioxide emission as Kg/hr.
  - (ii)  $H = 74 Q^{0.27}$  where particulate matter is emitted.  
Q = particulate matter emission as tonne/hr. If by using the formula given above the stack height arrived is more than 9 m then this higher stack should be used.
  - (iii) The minimum stack height should be 30 Mts.
24. Nothing in this consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibility, liabilities or penalties to which the applicant is or may be subject.
25. The industry shall maintain the following record to the satisfaction of the Board.
  1. The industries shall install separate energy meter and maintain log books for running of all air pollution control devices or pumps/motors used for running of the same.
  2. Register showing the results of various tests conducted by industry for monitoring of stack emission and ambient air.
26. 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.
27. The consent being issued by the Board as above doesn't imply that unit performance conforms to law as required. The consent is being issued provisionally only with a view to accommodate the unit to provide it an opportunity to modify its operation immediately so as bring them in conformity with the law of the land.
28. The industry shall provide non-leachate storage facilities for proper disposal of Hazardous wastes.
29. The industry shall provide acoustic chambers on DG sets to control Noise Pollution and ensure noise level within the permissible limit.
30. The industry shall submit on site/off site emergency plan, if required.
31. The industry shall submit A/R within 3 months in case of 17 categories and once in 6 months, other categories L & M and keep all the parameters within limit.
32. The industry shall comply the Public Liability Insurance Rule, 1991 as amended to date.
33. The industry shall submit Environmental Audit report once in a year.
34. The industry shall comply Noise Pollution (Regulation and control) Rules, 2000.
35. The industry shall install ambient air station in case of 17 & other categories large & medium.
36. The industry shall obtain environmental clearance, if applicable as per MOEF notification.
37. The industry shall inform to HO/RO office immediately by FAX in case of failure of APCM.
38. In case of by passing the emissions, the consent shall be deemed revoked.
39. The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSPCB from time to time.

**Specific Conditions :**

**Other Conditions :**



1. That the unit will comply with all the conditions of the environmental clearance issued by the MOEF, SEIAA directions.
2. The unit will implement the environmental management plan and will submit the compliance in this regard to the board regularly.
3. Unit will do the mining as per the mining plan submitted and follow all the directions of all APEX Courts.
4. Unit will obtain the necessary permissions as desired from the concerned departments. The unit will comply with the provisions of all environmental laws as per policy of the Board
5. That the unit will submit the Analysis Report from the Board Lab within one month from the date of issue of first Consent to Operate.
6. That the unit will run and maintain the APCM & green belt.
7. That the unit will apply for renewal of consent to operate before 90 days from the expiry of this CTO.

*Environment Engineer, HQ  
For and be'half of chairman  
Haryana State Pollution Control Board,  
Panchkula.*

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

**IN VILLAGE: Kheribattar-2  
(Area-42.01 Hectares)  
DISTRICT: BHIWANI,  
STATE: HARYANA.**

खनन विभाग, गण्डियाद  
Haryana, Chandigarh  
Geology,  
**APPROVED**  
With Conditions  
शर्तों के साथ अनुमोदित  
File letter No. DMS/HY/ME/Kheribattar-2/2015/478  
दिनांक / Dated. 12-01-2016  
481  
राज्य खनन अभियन्ता  
State Mining Engineer



**APPLICANT**

**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)**

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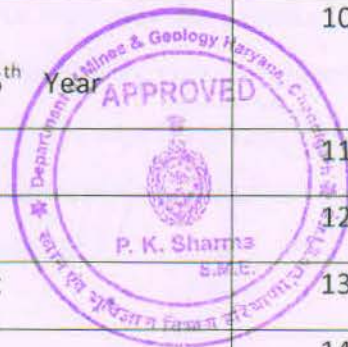


LIST OF ANNEXURE

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**Certificate.**

The Mining plan and Progressive Mine Closure Plan complies all Statutory Regulations, orders made by the Central or State Government, statutory organizations, court etc. have been taken into consideration and wherever any specific permission is required the lessee will approach the concerned authorities. It is also undertaken that all the measures proposed in the Progressive Mine Closure Plan will be implemented in a time bound manner as proposed.

S.N. Sharma



S.N. SHARMA  
RQP/DDN/0135/2001A  
REGIONAL SUPERVISOR (RQP)  
INDIAN BUREAU OF MINES (IBM)  
RQP No. RQP/DDN/135/2001/A  
VALID UPTO : 29TH MARCH 2021







# ASD- RKC J.V.

40, Laxmi Nagar , Near Sub City Centre, Hiran Magri, Sector- 8,  
Udaipur- 313002 ( Rajasthan)

Email ID: rkckalyana@hotmail.com , info@rkcarriers.com

Annexure -2

## CONSENT LETTER FROM APPLICANT

The Mining Plan & Progressive Mine Closure Plan in respect minor mineral mine of "Stone along with associated minor minerals" of Kheribattar-2 in village Kheribattar having tentative area of 42.01 Hectares in Tehsil : Dadri, District- Bhiwani, State -Haryana is being prepared by Recognized Qualified Person, S.N. Sharma having registration no. RQP/DDN/0135/2001-A.

I request The Director General, Mines and Geology, Haryana to make further correspondence regarding modification of the Mining Plan & Progressive Mine Closure Plan with the said RQP on the following address:-

S.N. Sharma

282, First Floor, Sector-11D, Faridabad (Haryana)

09560848579

(RQP/DDN/0135/2001-A.)

I also authorize S.N. Sharma to make correspondence with your office.

I hereby undertake that the Mining Plan & Progressive Mine Closure Plan in respect of the said area prepared by RQP be deemed to have been made with my knowledge and consent and shall be acceptable to me and binding on me in all respects.

Place: *Charkhi Dadri*

Date: *25/11/2015*

*Kalyan*

Signature of the applicant



Renewed/नवीनीकृत up to 29/3/2021



खनन योजना तैयार करने हेतु  
योग्य व्यक्ति के रूप में  
मान्यता का प्रमाणपत्र

*P. K. Sharma*  
28/3/11  
क्षेत्रीय खान नियंत्रक  
Regional Controller of Mines  
भारतीय खान ब्यूरो  
Indian Bureau of Mines

(खनिज रियायत नियमावली 1960 के नियम 22(सी) के अंतर्गत)

श्री एस. एन. शर्मावसुद श्री के सी शर्मापिवासी हाउस नं 2181, सेक्टर-16, फरीदाबाद, हरियाणा

द्वारा अपनी योग्यताओं और अनुभव का संतोषप्रद प्रमाण प्रस्तुत करने के फलस्वरूप  
खनिज रियायत नियमावली, 1960 के नियम 22(सी) के अंतर्गत उन्हें एतद्वारा खनन  
योजना तैयार करने हेतु योग्य व्यक्ति के रूप में मान्यता प्रदान की जाती है।

उनका पंजीयन क्रमांक

RAP/DDN/135/2001/A

है।

यह मान्यता दिनांक 29.03.2011 को समाप्तहोने वाली ~~दस्तावेजों~~ की अवधि के लिए वैध है।स्थान : देहरादूनदिनांक : 30.03.2001

*P. K. Sharma*  
क्षेत्रीय खान नियंत्रक  
भारतीय खान ब्यूरो  
Regional Controller of Mines  
भारतीय खान ब्यूरो  
Indian Bureau of Mines







# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001|ISO 14001|ISO 45001

## Test Report

Sample Number: VEL/AR/A/01  
Issued To: M/s ASD RKC J.V.  
40, Laxmi Nagar, Near Sub City Centre,  
Hiran Magri, Sector-8, Udaipur,  
Rajasthan-313002.  
Name & address of Project : Stone Mine (Associated Minor Mineral),  
Kheribattar Plot-2, Tehsil-Dadri, District-  
Bhiwani, Haryana.  
Sample Description : Ambient Air Quality Monitoring

Report No.: VEL/A/2003/04/001  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 11/03/2020  
Period of Analysis: 04/03/2020 to 11/03/2020  
Receipt Date: 04/03/2020

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Near Mine Site  
Instrument Used : RDS & FPS with all accessories  
Instrument Code : --  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 03/03/2020 to 04/03/2020  
Time of Monitoring : 09:05 AM to 09:05 AM  
Ambient Temperature (°C) : Min 20.0, Max 28.5  
Surrounding Activity : Human, Vehicular & Mining Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS: 5182  
Parameter Required : PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub> & SO<sub>2</sub>

### TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	*SOP No. VEL/SOP/01, Section No. SP 63	52.42	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23) Gravimetric Method	91.85	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6) Jacob & Hochheiser	25.60	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2) Modified West and Gaeke	11.81	µg/m <sup>3</sup>	80

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

AMITABH DUBEY  
SR ANALYST  
(Tested By)

SUBODH KUMAR SHARMA  
DY. (Checked By)



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  
c) The sample will be destroyed after retention time unless otherwise specified  
d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

www.vardan.co.in

Tel: 0124-4343750, 4343752, 4343753, 4343766 | E-mail: lab@vardanenviro.net, bd@vardanenviro.net



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001|ISO 14001|ISO 45001

## Test Report

Sample Number: VEL/ AR /A/02  
Issued To: M/s ASD RKC J.V.  
40, Laxmi Nagar, Near Sub City Centre,  
Hiran Magri, Sector-8, Udaipur, Rajasthan-  
313002.  
Name & Address of Project: Stone Mine (Associated Minor Mineral),  
Kheribattar Plot-2, Tehsil-Dadri, District-  
Bhiwani, Haryana.  
Sample Description: Ambient Air Quality Monitoring

Report No.: VEL/A/2003/04/002  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 11/03/2020  
Period of Analysis: 04/03/2020 to 11/03/2020  
Receipt Date: 04/03/2020

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : 100 mtr from mine site  
Instrument Used : RDS & FPS with all accessories  
Instrument Code : --  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 03/03/2020 to 04/03/2020  
Time of Monitoring : 09:15 AM to 09:15 AM  
Ambient Temperature (°C) : Min 20.0, Max 28.5  
Surrounding Activity : Human, Vehicular & Mining Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS:5182  
Parameter Required : PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub> & SO<sub>2</sub>

### TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	47.63	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23) Gravimetric Method	84.21	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6) Jacob & Hochheiser	23.84	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2) Modified West and Gaeke	8.98	µg/m <sup>3</sup>	80

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

AMITABH DUBEY  
(Tested By)  
SR ANALYST

SUBODH SHEKHAWAT  
DY. TECHNICAL MANAGER  
(Checked By)



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  
c) The sample will be destroyed after retention time unless otherwise specified  
d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

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Tel: 0124-4343750, 4343752, 4343753, 4343766 | E-mail: lab@vardanenviromet.com, bd@vardanenviromet.com



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/AR/A/03  
Issued To: M/s ASD RKC J.V.  
40, Laxmi Nagar, Near Sub City Centre,  
Hiran Magri, Sector-8, Udaipur,  
Rajasthan-313002.  
Name & Address of Project: Stone Mine (Associated Minor Mineral),  
Kheribattar Plot-2, Tehsil-Dadri,  
District-Bhiwani, Haryana.  
Sample Description: Ambient Air Quality Monitoring

Report No.: VEL/A/2003/04/003  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 11/03/2020  
Period of Analysis: 04/03/2020 to 11/03/2020  
Receipt Date: 04/03/2020

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Haul Road  
Instrument Used : RDS & FPS with all accessories  
Instrument Code : --  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 03/03/2020 to 04/03/2020  
Time of Monitoring : 09:35 AM to 09:35 AM  
Ambient Temperature (°C) : Min 20.0, Max 28.5  
Surrounding Activity : Human, Vehicular & Other Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS:5182  
Parameter Required : PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub> & SO<sub>2</sub>

### TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	49.12	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23) Gravimetric Method	86.75	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6) Jacob & Hochheiser	26.40	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2) Modified West and Gaeke	7.98	µg/m <sup>3</sup>	80

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

# SOP - Standard Operating Procedure.

AMITABH DUBEY  
(Tested By)  
SR ANALYST

SUBODH SHEKHAWAT  
DY. TECHNICAL MANAGER  
(Checked By)



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

Sample Number:	VEL/AR/A/04	Report No.:	VEL/A/2003/04/004
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, Hiran Magri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-01
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:	11/03/2020
		Period of Analysis	04/03/2020 to 11/03/2020
		Receipt Date:	04/03/2020

### General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Village-Kheribattar
Instrument Used	: RDS & FPS with all accessories
Instrument Code	: --
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 03/03/2020 to 04/03/2020
Time of Monitoring	: 10:15 AM to 10:15 AM
Ambient Temperature (°C)	: Min 20.0, Max 28.5
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS:5182
Parameter Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>2</sub> & SO <sub>2</sub>

### TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	48.72	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23) Gravimetric Method	82.48	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6) Jacob & Hochheiser	25.76	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2) Modified West and Gaeke	8.67	µg/m <sup>3</sup>	80

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

AMITASH DUBEY  
 (Tested By)  
 ANALYST

SUBODH SHEKHAWAT  
 DY. TECHNICAL MANAGER  
 (Checked By)

(Approved By)

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## Test Report

Sample Number:	VEL/AR/A/05	Report No.:	VEL/A/2003/04/005
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, Hiran Magri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-01
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:	11/03/2020
		Period of Analysis	04/03/2020 to 11/03/2020
		Receipt Date:	04/03/2020

### General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Loading Area
Instrument Used	: RDS & FPS with all accessories
Instrument Code	: --
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 03/03/2020 to 04/03/2020
Time of Monitoring	: 10:25 AM to 10:25 AM
Ambient Temperature (°C)	: Min 20.0, Max 28.5
Surrounding Activity	: Human , Vehicular & Other Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS:5182
Parameter Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>2</sub> & SO <sub>2</sub>

### TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	*SOP No. VEL/SOP/01, Section No. SP 63	54.79	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23) Gravimetric Method	93.13	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6) Jacob & Hochheiser	26.65	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2) Modified West and Gaeke	9.76	µg/m <sup>3</sup>	80

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

AMITABH DUBEY  
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SR ANALYST

SUBODH SHEKHAWAT  
DY. TECHNICAL MANAGER  
(Checked By)



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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/ AR /A/06  
Issued To: M/s ASD RKC J.V.  
40, Laxmi Nagar, Near Sub City Centre,  
Hiran Magri, Sector-8, Udaipur,  
Rajasthan-313002.  
Name & Address of Project: Stone Mine (Associated Minor Mineral),  
Kheribattar Plot-2, Tehsil-Dadri, District-  
Bhiwani, Haryana.  
Sample Description : Ambient Air Quality Monitoring

Report No.: VEL/A/2003/04/006  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 11/03/2020  
Period of Analysis: 04/03/2020 to 11/03/2020  
Receipt Date: 04/03/2020

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Village-Kheribora  
Instrument Used : RDS & FPS with all accessories  
Instrument Code : --  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 03/03/2020 to 04/03/2020  
Time of Monitoring : 11:30 AM to 11:30 AM  
Ambient Temperature (°C) : Min 20.0, Max 28.5  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS:5182  
Parameter Required : PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub> & SO<sub>2</sub>

### TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	46.50	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23) Gravimetric Method	83.22	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6) Jacob & Hochheiser	24.15	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2) Modified West and Gaeke	9.73	µg/m <sup>3</sup>	80

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

AMITABH DUBEY  
(Tested By) SR ANALYST

SUBODH SHEKHAWAT  
(Checked By) DY. TECHNICAL MANAGER



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## Test Report

Sample Number:	VEL/AR/AN/01	Report No.:	VEL/AN/2003/04/001
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, Hiran Magri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-01
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:	11/03/2020
		Receipt Date:	04/03/2020

### 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	: 03/03/2020 to 04/03/2020
Time of Monitoring	: 06:00 AM to 06:00AM
Surrounding Activity	: Human, Vehicular & Mining Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-9989
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	74.1	68.1	dB(A)
2.	$L_{min}$	IS-9989	61.2	47.9	dB(A)
3.	$L_{eq}$	IS-9989	69.7	58.6	dB(A)
4.	As per <sup>#</sup> DGMS Limits in dB(*A) Leq	-	75.0	70.0	dB(A)

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

Amrita DUBEY  
(Tested By)  
SR ANALYST

SUBODH SHEKHAWAT  
(Checked By)  
DY. TECHNICAL MANAGER

(Approved By)  
[Signature]  
VARDAN ENVIRONET

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## Test Report

Sample Number:	VEL/AR/AN/02	Report No.:	VEL/AN/2003/04/002
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, Hiran Magri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-01
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:	11/03/2020
		Receipt Date:	04/03/2020

### 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	: 03/03/2020 to 04/03/2020
Time of Monitoring	: 06:00 AM to 06:00AM
Surrounding Activity	: Vehicular & Mining Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-9989
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	75.5	69.4	dB(A)
2.	$L_{min}$	IS-9989	64.2	58.6	dB(A)
3.	$L_{eq}$	IS-9989	69.1	63.4	dB(A)
4.	As per #DGMS Limits in dB(A) Leq	-	75.0	70.0	dB(A)

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

AMTABH DUBEY  
(Tested By) ANALYST

SUBODH SHERHAWAT  
(Checked By) DY. TECHNICAL MANAGER



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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/AR/AN/03  
Issued To: M/s ASD RKC J.V.  
40, Laxmi Nagar, Near Sub City Centre, Hiran  
Magri, Sector-8, Udaipur, Rajasthan-313002.  
Name & Address of Project: Stone Mine (Associated Minor Mineral),  
Kheribattar Plot-2, Tehsil-Dadri, District-  
Bhiwani, Haryana.  
Sample Description : AMBIENT NOISE LEVEL MONITORING

Report No.: VEL/AN/2003/04/003  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 11/03/2020  
Receipt Date: 04/03/2020

### 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 : 03/03/2020 to 04/03/2020  
Time of Monitoring : 06:00 AM to 06:00AM  
Surrounding Activity : Mining & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
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	76.4	71.8	dB(A)
2.	$L_{min}$	IS-9989	64.2	59.5	dB(A)
3.	$L_{eq}$	IS-9989	72.5	68.2	dB(A)
4.	As per #DGMS Limits in dB(A) Leq	-	75.0	70.0	dB(A)

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

Amritabh DUBEY  
(Tested By) ANALYST

SUBODH SHEKHAWAT  
DY. TECHNICAL MANAGER  
(Checked By)

(Approved By)

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Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/AR/AN/04  
Issued To: M/s ASD RKC J.V.  
40, Laxmi Nagar, Near Sub City Centre, Hiran Magri, Sector-8, Udaipur, Rajasthan-313002.  
Name & Address of Project: Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District-Bhiwani, Haryana.  
Sample Description : AMBIENT NOISE LEVEL MONITORING

Report No.: VEL/AN/2003/04/004  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 11/03/2020  
Receipt Date: 04/03/2020

### 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 : 03/03/2020 to 04/03/2020  
Time of Monitoring : 06:00 AM to 06:00AM  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
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	53.6	44.2	dB(A)
2.	$L_{min}$	IS-9989	41.4	35.4	dB(A)
3.	$L_{eq}$	IS-9989	48.1	39.6	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.

AMITABHA DUBEY  
(Tested By)  
SR ANALYST

SUBODH SHEKHAWAT  
DY. (TECHNICAL) MANAGER



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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/AR/AN/05  
Issued To: M/s ASD RKC J.V.  
40, Laxmi Nagar, Near Sub City Centre, Hiran  
Magri, Sector-8, Udaipur, Rajasthan-313002.  
Name & Address of Project: Stone Mine (Associated Minor Mineral),  
Kheribattar Plot-2, Tehsil-Dadri, District-  
Bhiwani, Haryana.  
Sample Description : AMBIENT NOISE LEVEL MONITORING

Report No.: VEL/AN/2003/04/005  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 11/03/2020  
Receipt Date: 04/03/2020

### 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 : 03/03/2020 to 04/03/2020  
Time of Monitoring : 06:00 AM to 06:00AM  
Surrounding Activity : Mining & Loading Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS-9989  
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	76.9	71.6	dB(A)
2.	$L_{min}$	IS-9989	62.4	57.2	dB(A)
3.	$L_{eq}$	IS-9989	72.5	67.7	dB(A)
4.	As per #DGMS Limits in dB(*A) $L_{eq}$	-	75.0	70.0	dB(A)

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

AMITABH DUBEY  
(Tested By)  
SR ANALYST

SUBODH SHEKHAWAT  
JY. TECHNICAL MANAGER  
(Checked By)



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## Test Report

Sample Number:	VEL/AR/AN/06 M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, Hiran Magri, Sector-8, Udaipur, Rajasthan-313002.	Report No.:	VEL/AN/2003/04/006
Name & Address of Project:	Stone Mine (Associated Minor Mineral), Kheribattar Plot-2, Tehsil-Dadri, District- Bhiwani, Haryana.	Format No.:	7.8 F-01
Sample Description :	AMBIENT NOISE LEVEL MONITORING	Party Reference No.:	NIL
		Reporting Date:	11/03/2020
		Receipt Date:	04/03/2020

### 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	: 03/03/2020 to 04/03/2020
Time of Monitoring	: 06:00 AM to 06:00AM
Surrounding Activity	: Human, Vehicular & Mining Activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-9989
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	54.3	43.9	dB(A)
2.	$L_{min}$	IS-9989	41.3	34.7	dB(A)
3.	$L_{eq}$	IS-9989	48.7	39.8	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.

AMITABH DUBEY  
(Tested By)  
SR ANALYST

SUBODH SHEKHAWAT  
DY. TECHNICAL MANAGER  
(Checked By)



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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/AR/S/01  
**Issued To:** M/s ASD RKC J.V.  
40, Laxmi Nagar, Near Sub City Centre,  
Hiran Magri, Sector-8, Udaipur, Rajasthan-  
313002.

**Name & Address of Project:** Stone Mine (Associated Minor Mineral),  
Kheribattar Plot-2, Tehsil-Dadri, District-  
Bhiwani, Haryana.

**Sample Description:** SOIL  
**Sampling Location:** Near Project Site  
**Sampling & Analysis Protocol:** IS 2720, USEPA 3050B & USDA

**Report No.:** VEL/S/2003/04/001  
**Format No.:** 7.8 F-01  
**Party Reference No.:** NIL  
**Reporting Date:** 11/03/2020  
**Period of Analysis:** 04/03/2020 to 11/03/2020  
**Receipt Date:** 04/03/2020  
**Sampling Date:** 04/03/2020  
**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	7.67	--
2.	Conductivity	IS:14767 by Conductivity meter	0.378	mS/cm
3.	Soil Texture	IS : 2720 (P-22, RA2003)	Sandy	--
4.	Color	*SOP , SP-78, Issue No.-01 & Issue Date-14/02/2013	Brownish	--
5.	Water holding capacity	*SOP , SP-81, Issue No.-01 & Issue Date-14/02/2013	31.23	%
6.	Bulk density	*SOP , SP-80, Issue No.-01 & Issue Date-14/02/2013	1.78	gm/cc
7.	Chloride as Cl	*SOP , SP-85, Issue No.-01 & Issue Date-14/02/2013	43.40	mg/100g
8.	Calcium as Ca	*SOP , SP-82, Issue No.-01 & Issue Date-14/02/2013	41.76	mg/100g
9.	Sodium as Na	*SOP , SP-84, Issue No.-01 & Issue Date-14/02/2013	38.34	mg/kg
10.	Potassium as K	*SOP , SP-84, Issue No.-01 & Issue Date-14/02/2013	133.21	kg/hect.
11.	Organic Matter	IS:2720 (P-22) Titrimetric Method	0.75	%
12.	Magnesium as Mg	*SOP , SP-83, Issue No.-01 & Issue Date-14/02/2013	21.67	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method	141.89	kg./hect.
14.	Available Phosphorus	*SOP , SP-86, Issue No.-01 & Issue Date-14/02/2013	25.60	kg./hect.
15.	Zinc (as Zn)	USEPA 3050B	6.56	mg/kg
16.	Manganese (as Mn )	USEPA 3050B	4.34	mg/kg
17.	Lead (as Pb)	USEPA 3050B	1.56	mg/kg
18.	Cadmium (as Cd )	USEPA 3050B	1.67	mg/kg
19.	#Chromium (as Cr)	USEPA 3050B	1.30	mg/kg
20.	Copper (as Cu )	USEPA 3050B	3.26	mg/kg

\*SOP- Standard operating procedure. \*This parameter is not covered in our NABL scope.

ANIL DUBEY  
SR ANALYST

SUBODH SHEKHAWAT  
DY. TECHNICAL MANAGER



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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/AR/S/02  
**Issued To:** M/s ASD RKC J.V.  
40, Laxmi Nagar, Near Sub City  
Centre,  
Hiran Magri, Sector-8, Udaipur,  
Rajasthan-313002.

**Report No.:** VEL/S/2003/04/002  
**Format No.:** 7.8 F-01  
**Party Reference No.:** NIL  
**Reporting Date:** 11/03/2020  
**Period of Analysis:** 04/03/2020 to 11/03/2020

**Name & Address of Project:** Stone Mine (Associated Minor  
Mineral), Kheribattar Plot-2,  
Tehsil-Dadri, District-Bhiwani,  
Haryana.

**Receipt Date:** 04/03/2020  
**Sampling Date:** 04/03/2020  
**Type of Sampling:** Composite  
**Sampling Quantity:** 2.0 Kg  
**Packing Status:** Temp Sealed

**Sample Description:** SOIL  
**Sampling Location:** Village - Kheribora  
**Sampling & Analysis Protocol:** IS 2720, USEPA 3050B & USDA

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26) by pH Meter	7.61	--
2.	Conductivity	IS:14767 by Conductivity meter	0.378	mS/cm
3.	Soil Texture	IS : 2720 (P-22, RA2003)	Sandy	--
4.	Color	*SOP , SP-78, Issue No.-01 & Issue Date-14/02/2013	Brownish	--
5.	Water holding capacity	*SOP , SP-81, Issue No.-01 & Issue Date-14/02/2013	36.23	%
6.	Bulk density	*SOP , SP-80, Issue No.-01 & Issue Date-14/02/2013	1.54	gm/cc
7.	Chloride as Cl	*SOP , SP-85, Issue No.-01 & Issue Date-14/02/2013	56.76	mg/100g
8.	Calcium as Ca	*SOP , SP-82, Issue No.-01 & Issue Date-14/02/2013	34.62	mg/100g
9.	Sodium as Na	*SOP , SP-84, Issue No.-01 & Issue Date-14/02/2013	37.36	mg/kg
10.	Potassium as K	*SOP , SP-84, Issue No.-01 & Issue Date-14/02/2013	152.54	kg/hect.
11.	Organic Matter	IS:2720 (P-22) Titrimetric Method	0.47	%
12.	Magnesium as Mg	*SOP , SP-83, Issue No.-01 & Issue Date-14/02/2013	18.71	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method	142.54	kg./hect.
14.	Available Phosphorus	*SOP , SP-86, Issue No.-01 & Issue Date-14/02/2013	26.62	kg./hect.
15.	Zinc (as Zn)	USEPA 3050B	6.36	mg/kg
16.	Manganese (as Mn)	USEPA 3050B	3.28	mg/kg
17.	Lead (as Pb)	USEPA 3050B	1.19	mg/kg
18.	Cadmium (as Cd)	USEPA 3050B	1.46	mg/kg
19.	#Chromium (as Cr)	USEPA 3050B	0.58	mg/kg
20.	Copper (as Cu)	USEPA 3050B	5.25	mg/kg

\*SOP- Standard operating procedure. #This parameter is not covered in our NABL scope.

(Tested By)  
**AMITABHA DUBEY**  
SR ANALYST

**SUBODH SHEKHAWAT**  
DY. TECHNICAL MANAGER

(Approved By)

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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/AR/W/01	Report No.:	VEL/W/1911/04/003
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, Hiran Magri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-01
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:	09/11/2019
Sampling Location:	Near Mine Site	Period of Analysis:	04/11/2019 to 09/11/2019
Sample Collected by	Vardan Enviro Lab representative	Receipt Date:	04/11/2019
Sampling & Analysis Protocol:	IS :10500-2012&APHA	Sampling Date:	04/11/2019
		Sampling Quantity:	2.0 Ltr
		Sampling Type:	Grab
		Preservation:	Refrigerated
		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 <sup>+</sup> B Electrometric Method	7.28	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 0.1 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 <sub>3</sub>	APHA, 2340 C, EDTA Titrimetric Method	312.56	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	61.42	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA, 2320 B, Titrimetric Method	286.43	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl <sup>-</sup> B, Argentometric Method	153.20	mg/l	250	1000
10.	#Cyanide as CN	APHA, 4500 CN <sup>-</sup> D	*BDL (**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	38.71	mg/l	30	100
12.	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	648.00	mg/l	500	2000
13.	Sulphate as SO <sub>4</sub>	APHA, 4500 E, Turbidimetric Method	61.20	mg/l	200	400
14.	Fluoride as F	APHA, 4500-F <sup>-</sup> D, SPADNS Method	0.76	mg/l	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34), Chromotropic Method	26.52	mg/l	45	No Relaxation
16.	Iron as Fe	APHA, 3500-Fe B 1,10 Phenanthroline Method	0.34	mg/l	0.3	No relaxation
17.	#Aluminium as Al	APHA, 3111 B	*BDL (**DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA, 4500B C, Carmine Method	0.30	mg/l	0.5	1
19.	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL (**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

AMITABH DUBEY  
(Tested By)  
SR ANALYST

SUBODH SHEKHAWAT  
(Approved By)  
DY. TECHNICAL MANAGER



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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001|ISO 14001|ISO 45001

## Test Report

Sample No.: VEL/AR/W/01			Report No: VEL/W/1911/04/003			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
21.	#Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.01mg/l)	mg/l	0.5	No Relaxation
22.	Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.32	mg/l	5	15
24.	Copper as Cu	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.17	mg/l	0.05	1.5
25.	Manganese as Mn	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.003mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
28.	#Selenium as Se	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	#Arsenic as As	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	#Mercury as Hg	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 1622,1981	<2	MPN/100ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 1622,1981	Absent	MPN/100ml	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.

**ANITA DUBEY**  
(Tested By)  
ANALYST

**SUBODH SHEKHAWAT**  
(Checked By)  
MANAGER



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## Test Report

Sample Number:	VEL/AR/W/02	Report No.:	VEL/W/1911/04/006
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, Hiran Magri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-01
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:	09/11/2019
Sampling Location:	Village- Kheribora	Period of Analysis:	04/11/2019 to 09/11/2019
Sample Collected by	Vardan Enviro Lab representative	Receipt Date:	04/11/2019
Sampling & Analysis Protocol:	IS :10500-2012&APHA	Sampling Date:	04/11/2019
		Sampling Quantity:	2.0 Ltr
		Sampling Type:	Grab
		Preservation:	Refrigerated
		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 <sup>+</sup> B Electrometric Method	7.67	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 0.1 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 <sub>3</sub>	APHA , 2340 C, EDTA Titrimetric Method	321.68	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	65.12	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA , 2320 B, Titrimetric Method	345.40	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl <sup>-</sup> B, Argentometric Method	151.25	mg/l	250	1000
10.	#Cyanide as CN	APHA , 4500 CN <sup>-</sup> D	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	38.68	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	710.00	mg/l	500	2000
13.	Sulphate as SO <sub>4</sub>	APHA , 4500 E, Turbidimetric Method	31.42	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F <sup>-</sup> D, SPADNS Method	0.67	mg/l	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) ,Chromotropic Method	24.86	mg/l	45	No Relaxation
16.	Iron as Fe	APHA , 3500-Fe B 1,10 Phenanthroline Method	0.54	mg/l	0.3	No relaxation
17.	#Aluminium as Al	APHA , 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA, 4500B C, Carmine Method	0.41	mg/l	0.5	1
19.	Total Chromium as Cr	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

(Tested By)  
**AMITABH DUBEY**  
 ANALYST

(Checked By)  
**SUBODH SUNEKIAWAT**  
 DY. TECHNICAL MANAGER

(Approved By)  


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## Test Report

Sample No.: VEL/AR/W/02

Report No: VEL/W/1911/04/006

S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
21.	#Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.01mg/l)	mg/l	0.5	No Relaxation
22.	Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.24	mg/l	5	15
24.	Copper as Cu	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.15	mg/l	0.05	1.5
25.	Manganese as Mn	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.003mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
28.	#Selenium as Se	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	#Arsenic as As	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	#Mercury as Hg	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 1622,1981	<2	MPN/100ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 1622,1981	Absent	MPN/100ml	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.

AMITABH DUBEY  
 (Tested By) ANALYST

SUBODH SHEKHAWAT  
 DY. TECHNICAL MANAGER



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## Test Report

Sample Number:	VEL/AR/W/01	Report No.:	VEL/W/2001/03/003
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, Hiran Magri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-01
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:	07/01/2020
Sampling Location:	Near Mine Site	Period of Analysis:	03/01/2020 to 07/01/2020
Sample Collected by	Vardan Enviro Lab representative	Receipt Date:	03/01/2020
Sampling & Analysis Protocol:	IS :10500-2012&APHA	Sampling Date:	03/01/2020
		Sampling Quantity:	2.0 Ltr
		Sampling Type:	Grab
		Preservation:	Refrigerated
		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 <sup>+</sup> B Electrometric Method	7.41	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 0. 1 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 <sub>3</sub>	APHA , 2340 C, EDTA Titrimetric Method	310.43	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	61.84	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA , 2320 B, Titrimetric Method	321.54	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl <sup>-</sup> B, Argentometric Method	163.93	mg/l	250	1000
10.	#Cyanide as CN	APHA , 4500 CN <sup>-</sup> D	*BDL (**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	37.94	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	718.00	mg/l	500	2000
13.	Sulphate as SO <sub>4</sub>	APHA , 4500 E, Turbidimetric Method	67.10	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F <sup>-</sup> D, SPADNS Method	0.87	mg/l	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) ,Chromotropic Method	31.65	mg/l	45	No Relaxation
16.	Iron as Fe	APHA , 3500-Fe B I,10 Phenanthroline Method	0.43	mg/l	0.3	No relaxation
17.	#Aluminium as Al	APHA , 3111 B	*BDL (**DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA, 4500B C, Carmine Method	0.34	mg/l	0.5	1
19.	Total Chromium as Cr	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL (**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

Am Jaha  
(Tested By) **DUBEY**  
SR ANALYST

**SUBODH SHEKHAWAT**  
DY. TECHNICAL MANAGER  
(Checked By)



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## Test Report

Sample No.: VEL/AR/W/01			Report No: VEL/W/2001/03/003			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
21.	#Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.01mg/l)	mg/l	0.5	No Relaxation
22.	Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.42	mg/l	5	15
24.	Copper as Cu	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.18	mg/l	0.05	1.5
25.	Manganese as Mn	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.003 mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
28.	#Selenium as Se	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	#Arsenic as As	APIIA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	#Mercury as Hg	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 1622,1981	<2	MPN/100ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 1622,1981	Absent	MPN/100ml	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.

*Anjali DUBEY*  
 (Tested By)  
 ANALYST

*SUBODH SHEKHAWAT*  
 DY. TECHNICAL MANAGER  
 (Checked By)



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## Test Report

Sample Number:	VEL/AR/W/02	Report No.:	VEL/W/2001/03/004
Issued To:	M/s ASD RKC J.V. 40, Laxmi Nagar, Near Sub City Centre, Hiran Magri, Sector-8, Udaipur, Rajasthan-313002.	Format No.:	7.8 F-01
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:	07/01/2020
Sampling Location:	Village- Kheribora	Period of Analysis:	03/01/2020 to 07/01/2020
Sample Collected by	Vardan Enviro Lab representative	Receipt Date:	03/01/2020
Sampling & Analysis Protocol:	IS :10500-2012&APHA	Sampling Date:	03/01/2020
		Sampling Quantity:	2.0 Ltr
		Sampling Type:	Grab
		Preservation:	Refrigerated
		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 <sup>+</sup> B Electrometric Method	7.51	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 0.1 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 <sub>3</sub>	APHA , 2340 C, EDTA Titrimetric Method	289.32	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	51.24	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA , 2320 B, Titrimetric Method	304.34	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl <sup>-</sup> B, Argentometric Method	141.87	mg/l	250	1000
10.	#Cyanide as CN	APHA , 4500 CN <sup>-</sup> D	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	39.23	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	698.00	mg/l	500	2000
13.	Sulphate as SO <sub>4</sub>	APHA , 4500 E, Turbidimetric Method	39.87	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F <sup>-</sup> D, SPADNS Method	0.76	mg/l	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) ,Chromotropic Method	29.85	mg/l	45	No Relaxation
16.	Iron as Fe	APHA , 3500-Fe B 1,10 Phenanthroline Method	0.59	mg/l	0.3	No relaxation
17.	#Aluminium as Al	APHA , 3111 B	*BDL(**DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA, 4500B C, Carmine Method	0.48	mg/l	0.5	1
19.	Total Chromium as Cr	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

(Tested By)  
 ANITA DUBEY  
 SR ANALYST

(Checked By)  
 SUBODH SHEKHAWAT  
 DY. TECHNICAL MANAGER

(Approved By)  


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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample No.: VEL/AR/W/02

Report No: VEL/W/2001/03/004

S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
21.	#Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.01mg/l)	mg/l	0.5	No Relaxation
22.	Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.41	mg/l	5	15
24.	Copper as Cu	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.21	mg/l	0.05	1.5
25.	Manganese as Mn	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.003 mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
28.	#Selenium as Se	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	#Arsenic as As	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	#Mercury as Hg	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 1622,1981	<2	MPN/100ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 1622,1981	Absent	MPN/100ml	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.

AMITABH DUBEY  
ANALYST  
(Tested By)

SUBODH SHEKHAWAT  
DY. TECHNICAL MANAGER  
(Checked By)



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www.vardan.co.in

Tel: 0124-4343750, 4343752, 4343753, 4343766 | E-mail: lab@vardanenviromet.com, bd@vardanenviromet.com



**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।

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उपरोक्त विषय के सम्बन्ध में सूचित किया जाता है कि गांव खेड़ी बत्तर-2 तहसील दादरी जिला भिवानी स्थित खसरा नं0 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 नं0 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 जी0पी0एस0 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।

पृ0क्रमांक :

दिनांक:

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

वन मण्डल अधिकारी  
भिवानी।