



Consent For Operation (CFO-Air,Water)

Consent No. AW-323791
Valid upto: 30/06/2025

Industry Colour: RED Industry Scale: MEDIUM

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

(This document contains 5 pages including annexure & excluding additional conditions)

Combined Consent Order No. AW-323791 PCB ID: 10077 Date: 17/02/2021

Combined consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act, 1974 and emission under the Air (Prevention and Control of Pollution) Act, 1981

- Ref: 1. Application filed by the applicant/organization on 20/01/2021
2. Inspection of the Industry/organization/by RO, on 12/01/2021
3. Proceedings of the CCM dated 24/06/2019, held on 24/06/2019

Consent is hereby granted to the Occupier under Section 25(4) of the Water (Prevention & Control of Pollution) Act, 1974 (herein referred to as the Water Act) & Section 21 of Air (Prevention & Control of Pollution) Act, 1981, (herein referred to as the Air Act) and the Rules and Orders made there under and authorized the Occupier to operate /carryout industry/activity & to make discharge of the effluents & emissions conforming to the stipulated standards from the premises mentioned below and subject to the terms and conditions as detailed in the Schedule Annexed to this order.

Location:

Name of the Industry: Halki Limestone Mine of M/s. J. K. Cements Ltd.
Address: M. L. No. 2344-A, Sy. No. 2-5, 7, 8, 10-12, 107, 108, 110-113, 117, 78-81, 87-89, Halki Ningapur Village, Mudhol Taluk, Bagalkot District
Industrial Area: Not In I.A., Halki Village,
Taluk: Mudhol, District: Bagalkot

CONDITIONS:

a) Discharge of effluents under the Water Act:

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Agriculture	5.000	0.000	
2	Domestic Purpose	0.500	0.450	
3	Spray in Mines	180.000	0.000	

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
	The details of Sources, control equipments and its specification, type of fuel, constituents to be controlled in emissions etc. are detailed in Annexure-II.	

The consent for operation is granted considering the following activities/Products;

Sr	Product Name	Applied Qty/Month	Unit
1	Limestone Mine (1.5mmtpa)	0.000	MMT

This consent is valid for the period from 01/04/2021 to 30/06/2025

To,
Halki Limestone Mine of M/s. J. K. Cements Ltd.
Halki Ningapur Village, Tq:
Mudhol, Dt:-Bagalkot

COPY TO:

The Environmental Officer, KSPCB, Regional Office Bagalkote for information and necessary action.

- Master Register.
- Case file.

Consent Fee paid : Rs. 200000



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SCHEDULE

TERMS AND CONDITIONS

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

1. The discharge from the premises of the occupier shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.
- 2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.
- 2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.
- 3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall conform to the standards stipulated by the Board in Annexure-I
- 3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.
4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.
5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.
6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:
8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

C.MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as Indicated in Annexure I & II.
2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

D. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.
2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.



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E. NOISE POLLUTION CONTROL:

1. The applicant shall ensure that the ambient noise levels within its premises shall not exceed the limits i.e 75 dB(A) Leq during day time and 70 dB(A) Leq during night time as specified in under the Air (Prevention and Control of Pollution) Act, 1981.

F. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

G. GENERAL CONDITIONS:

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
3. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
4. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
5. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
6. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.
7. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
8. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
9. The applicant his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent.
10. The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent.
11. The applicant shall develop and maintain adequate green belt all around the periphery.
12. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
13. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court
14. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
15. The applicant shall display flow diagram of the pollution control system near the pollution control system/s.



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NOTE:

The Conditions A[3(a), 3(b)] mentioned in the schedule are not applicable.

Additional Conditions:

1) This Consent for Operation is issued for the mining of Limestone of capacity 1.5 MMTPA under the Water Act & the Air Act for the period 01.04.2021 to 30.06.2025. 2) The applicant shall comply with conditions as mentioned in Annexures -I, II & III attached herewith. 3) The applicant shall pay the balance consent fees as applicable as per the GoK Notification No. CI 60 SPI 2020(E) dated: 04.11.2020 (Published on 12.11.2020) at the Regional Office Ballari within 15 days.

Chim.N o.	Chimney attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed, in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	Fugitive Emission	Production- 2.0 MTPA	0	PM(mg/NM3), SO2 (PPM), NOx(PPM)	SPM			Before commissioning.

Note:

Note:

- The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.
- The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection) Rules.
- There shall be no smell or odour nuisance from the industry.



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LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to atleast eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame for rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

- The diameter of the sampling port should not be less than 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
- An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
- The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

For and on behalf of the
Karnataka State Pollution Control Board

Signature valid

Digitally signed by
Date: 2021.02.17 13:21:49
+05:30

ANNEXURE-I

Fugitive Emission Standards	
Particulate Matter	600 $\mu\text{g}/\text{m}^3$
Note: Fugitive emission shall be monitored in the predominant downwind direction at a distance 25.0 ± 2.0 meters from the source of fugitive emission as per following:	
Area	Monitoring location
Mine face/Benches	Drilling, excavation and loading applicable for operating benches above water table.
Haul Roads/Service Roads	Haul roads to ore processing plant, waste dumps and loading areas and service road.
Crushing plant	Run-off mine unloading at hopper, crushing areas, screens and transfer points.
Screening Plant	Screens, conveying and transportation of ore discharge points.
Ore Storage & Loading	Intermediate stock bin/pile areas, ore stock bin/pile areas, wagon/truck loading areas.
Waste Dump	Active waste/reject dumps.

Effluent Standards	
pH	5.5-9.0
Suspended solids (non-rainy day)	50 mg/l
Suspended Solids (rainy day)	100 mg/l
Oil & grease	10 mg/l

Note:

(i) All efforts shall be made to reuse and re-circulate the treated effluent.

(ii) The aforesaid effluent standards shall be complied with for sewage, service water, beneficiation of ore wash water and surface run-off put together.

1. The applicant shall comply with the conditions imposed in Ministry of Environment & Forests, GoI vide No. J-11015/384/2006-IA.II(M) dated: 21.01.2008.
2. The applicant shall comply with IBM Plan approval obtained from MoM, GoI vide No. RMP/MECH-04(KNT)/GOA/2020-21 dated: 18.11.2020.

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ANNEXURE-II

NATIONAL AMBIENT AIR QUALITY STANDARDS

Pollutant	Time Weighted Average	Concentration in Ambient Air		Method of Measurement
		Industrial, Residential, Rural & other Areas	Ecologically sensitive area (Notified by Central Government)	
Sulphur Dioxide (SO ₂)	Annual* 24 Hours**	50 µg/m ³ 80 µg/m ³	20 µg/m ³ 80 µg/m ³	- Improved West and Gacke method. - Ultraviolet fluorescence.
Nitrogen Dioxide (NO ₂)	Annual* 24 Hours**	40 µg/m ³ 80 µg/m ³	30 µg/m ³ 80 µg/m ³	- Modified Jacob & Hochheiser (Na-Arsenite) Method. - Chemiluminescence.
Particulate Matter (Size less than 10 µm) or PM ₁₀	Annual* 24 Hours**	60 µg/m ³ 100 µg/m ³	60 µg/m ³ 100 µg/m ³	- Gravimetric. - TOEM. - Beta attenuation.
Particulate Matter (Size less than 2.5 µm) or PM _{2.5}	Annual* 24 Hours**	40 µg/m ³ 60 µg/m ³	40 µg/m ³ 60 µg/m ³	- Gravimetric. - TOEM. - Beta attenuation.

* Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform interval.

** 24 hourly/8 hourly/1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note:

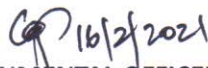
Whenever & wherever monitoring results on two consecutive days of monitoring exceeds the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

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ANNEXURE – III

ADDITIONAL CONDITIONS

1. There shall not be any point air pollution sources in the project.
2. The applicant shall monitor the Fugitive Emissions at places as described in **Annexure-I** and submit reports to the Board once in three months. The Particulate Matter monitored in the predominant downwind direction at a distance 25.0 ± 2.0 meters from the source of Fugitive Emissions shall not exceed $600 \mu\text{g}/\text{m}^3$.
3. The applicant shall conduct Ambient Air Quality Monitoring in the area and the Ambient Air Quality shall conform to the National Ambient Air Quality Standards (NAAQS) prescribed in Environment (Protection) Seventh Amendment Rules 2009, as per **Annexure-II** enclosed.
4. Wet drilling method shall be adopted to avoid dust emissions. Eco-friendly blasting material shall be used to minimize ground vibrations and flying rocks.
5. The mode of disposal of solid waste and the area selected for the same shall be got approved by the Board duly furnishing the relevant information within 30 days from the receipt of this consent for establishment.
6. The excavated pits shall be filled with overburden material and sufficient plantation shall be carried out as per the reclamation programme.
7. The dumping of overburden shall be done systematically as per the EMP in IBM approved mining plan.
8. Bunds of sufficient height and length to be constructed to stop the storm water flowing through the dumps of the mining area. This will prevent the rush of storm water carrying the loose soil down below either to the reservoir or to the fields.
9. Construction of sufficient check dams, gully plugs, retaining wall, and contour trenches to control soil erosion from the top of the dumps shall be undertaken as per approved Mining Plan of IBM.
10. The applicant shall construct trenches to prevent the speedy rush of water as well as the disturbance on the settled earth.
11. The applicant shall adopt continuous water sprinkling system to suppress the dust particles in the mining area and also while transporting the Ore.
12. The applicant shall carryout reclamation of the mines area and shall take intensive afforestation measures.
13. The applicant shall dump the over burden in designated area as per IBM approved plan. The dump shall be periodically stabilized to take up plantation. Adequate numbers of retaining wall shall be provided to arrest run off. Continuous water sprinkling system shall be adopted to suppress dust nuisance.
14. The applicant shall strictly comply to the conditions in Environmental Clearance issued by Ministry of Environment & Forests, GoI vide No. J-11015/384/2006-IA.II(M) dated: 21.01.2008.
15. The mining area **shall not exceed 124.24 Hectares** and in case of increase in mining area, separate Consent for Establishment shall have to be obtained from Board.
16. The mining and dumping activity shall be carried out systematically adhering to the Environmental Management Plan and Mining Plan as approved by **IBM Mining Scheme No. IBM approval No. RMP/MECH-04(KNT)/GOA/2020-21 dated: 18.11.2020**, and the applicant shall carry out all the works as proposed in the EMP.


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