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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ Karnataka State Pollution Control Board

"ಪರಿಸರಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ.49, ಚರ್ಚ್‌ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
"Parisara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

//BY REGD. POST WITH ACK. DUE//

(This document contains.....08.....pages including annexure)

28 MAY 2015

Combined Consent order No. 34/PCB/MIN/CFO/2015-16/ 157 Dated:

Consent for discharge of effluents under the Water (Prevention & Control of Pollution) Act 1974, and Emissions under the Air (Prevention & Control of Pollution) Act 1981.

- Ref:
1. CFE issued by the Board vide No.1682, Dt: 7.02.2015.
 2. Your Consent for Operation (CFO) application received at Regional Office, KSPCB, Belgaum, HD No 86646 dated 11.02.2015.
 3. Inspection of the mining area by Regional Officer, KSPCB, Belgaum, on 19.03.2015.
 4. Approved IBM plan NO 279/1030/2009/BNG/635 Dated 07.5.2014.
 5. Environmental Clearance issued by SEIAA No SEIAA 107 MIN 2014 dated 24.12.2014
 6. Proceedings of the Consent Committee Meeting held on 10.04.2015.

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Consent is hereby granted under Section 25 of Water (Prevention & Control of Pollution) Act 1974, and under Section 21 of Air (Prevention & Control of Pollution) Act 1981, (herein after referred as the Water Act and the Air Act respectively) and the Rules and Orders made there under and subject to the terms and conditions as detailed in the schedule annexed to this order.

Consent is granted to **M/s.Panchagvi Laterite Mines of M/s J.K.Cement Limited**, authorizing him to operate their **Laterite Mining** and to make discharge of effluents and emissions from the premises as detailed below:

M/s.Panchagvi Laterite Mines of M/s J.K.Cement Limited. ML 2680, Sy No 86/1,87/1 and 87/2(P) of Panchagavi Village, Ramdurga Taluk, Belgaum District.

Discharge of effluents under the Water Act:

Sl. No.	Description	Permitted Quantity of discharge	Limits specified refer schedule	Place of discharge
1	Trade effluent	Nil	-	-
2	Domestic effluent	1.0 KLD	-	Septic Tank & Soak Pit

Discharge of air emissions under the Air Act from the following stacks/process etc.

Sl. No.	Description of chimney/outlet attached to	Limits specified refer schedule
	No point air pollution sources	

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This Consent is granted for Laterite Production of capacity as per the Environmental Clearance issued by SEIAA No SEIAA 107 MIN 2014 dated 24.12.2014 in an area of 4.58 Hectares and as per IBM approved Mining Plan NO MP/OTF.MECH-70(KNT)/GOA/2013-14. Dated 07.5.2014.

This Consent is valid for the period up to 29.03.2020 Co-terminus with IBM plan.

For and on behalf of the KSPCB
Sd/-


SENIOR ENVIRONMENTAL OFFICER

TO:

Sri A.K.Jain (Unit Head)
M/s. J.K.Cement Limited.,
Village: Muddapur, Tehsil-Mudhol,
Bagalkot District- 587 122

Copy to:

1. The Regional Officer, KSPCB, Belgaum, for information and necessary action.
2. Master Register (Dispatch).
- ~~3.~~ Master Register (SEO-Mines).
4. Case file.


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SCHEDULE
TERMS AND CONDITIONS

(To accompany Consent No. 34 /PCB/MIN/CFO/2015-16/

DATED: _____)

I. GENERAL:

1. The extraction of ore shall be carried out by **mechanized open cast method only**.
2. The mining area **shall not exceed 4.58 Hectares** and in case of increase in mining area, separate CFE shall have to be obtained from Board.
3. The applicant shall maintain good road around the mining area as social obligation and also to mitigate dust pollution. The applicant shall earmark 2% of profit every year for the maintenance of roads used for the transportation.
4. The project proponent shall not undertake expansion/diversification/modernization, change of location of mining site etc., without the prior clearance from this Board.
5. The Board reserves the right to review/impose additional conditions or change or alter the terms & conditions of this consent for establishment.
6. The mining company should carryout soil and water conservation measures as suggested by the Ministry of Environment & Forests, Government of India, New Delhi, the Karnataka State Pollution Control Board and the Department of Mines and Geology from time to time.
7. Any damage to the Environment & Ecology because of uncontrolled mining, the company shall be liable for restoration of the damage and also to compensate the public/private property if it gets affected and also to bear the cost of restoration of environment damage.
8. The mining authorities shall furnish point wise compliance within 30 days from the date of receipt of this consent for operation order.
9. The applicant shall apply for renewal of consent atleast 120 days prior to the expiry of this consent.
10. There shall not be any complaints against the mine from the surrounding public.
11. The trucks carrying the ore shall be provided with tarpaulin covers in order to avoid any dust during transportation.
12. The applicant shall comply with all the conditions stipulated in the **Environmental Clearance issued by SEIAA No SEIAA 107 MIN 2014 dated 24.12.2014.**
12. The mining activity shall be carried out strictly in accordance with the **IBM approved Mining Plan NO MP/OTF.MECH-70(KNT)/GOA/2013-14. Dated 07.5.2014.**
13. 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 $1200 \mu\text{g}/\text{m}^3$.


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II. WATER CONSUMPTION:

1. The total water consumption by the mine shall not exceed 7 KLD, out of which, 1.5 KLD shall be used for domestic purpose, 5.5 KLD for gardening, and for dust suppression.

III. WATER POLLUTION CONTROL:

1. There shall not be any trade effluent generation from the unit.
2. The waste water generated from the vehicle service station containing oil & grease, suspended particulate matter shall be treated in the oil & grease trap and sedimentation tank and then reused for vehicle washing and gardening.
3. The industry shall treat the domestic wastewater of about 1.0 KLD in Septic Tank with Soak Pit. No overflow from the Soak Pit allowed. The Septic Tank and Soak Pit shall be designed as per IS 2470 Part - I and Part - II.

IV. WATER CESS:

1. The industry shall comply with the provisions of Water (Prevention and Control of Pollution) Cess Act, 1977, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said Water (Prevention and Control of Pollution) Cess Act, 1977, and 2003.

V. AIR POLLUTION CONTROL:

1. There shall not be any point sources of air pollution.
2. The industry shall ensure that the ambient air quality in its premises shall conform to the National Ambient Air Quality Standards as specified in Environment (Protection) Seventh Amendment Rules, 2009 as shown in **Annexure-II**.
3. The industry shall upgrade/modify/replace the control equipments if they are found inadequate to meet the standards stipulated. Prior permission of the Board shall be obtained for the same.
4. If there is going to be any new air pollution sources in future, the project authorities shall apply and obtain consent for establishment for the same from the Board.
5. Suitable safety measures shall be provided to protect workers from the ill effect of dust pollution.
6. Wet drilling method shall be adopted to avoid dust emissions. Eco-friendly blasting material shall be used to minimize ground vibrations and flying rocks.

VI. NOISE POLLUTION CONTROL:

1. The industry shall ensure that the ambient noise levels at the boundary of the mining lease area shall not exceed the limits i.e. 55 dB (A) Leq during day time and 45 dB (A) Leq during night time as specified in the Environment (Protection) Rules, 1986.


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

1. The industry shall collect, treat and dispose off all solid waste generated from the process other than wastes covered under the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008, in such manner so as not to cause environmental pollution.
2. The top soil obtained during site clearing activity shall be used for construction of bunds along the mine boundary as well as for reclamation of selected areas for developing of the green belts.
3. The applicant shall dispose the overburden as per approved IBM Mining Plan.

VIII. HAZARDOUS WASTES (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

1. There shall not be any hazardous waste generation from the mining activity. In case of any activity resulting in generation of hazardous wastes, the applicant shall obtain authorisation under the provisions of Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008.

IX. PROTECTION OF SOIL AND ITS CONSERVATION MEASURES:

1. 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.
2. 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.
3. The mining authorities shall construct trenches to prevent the speedy rush of water as well as the disturbance on the settled earth.
4. The mining authorities shall adopt continuous water sprinkling system to suppress the dust particles in the mining area and also while transporting the Ore.
5. The mining authorities shall carryout reclamation of the mines area and shall take intensive afforestation measures.

X. AFFORESTATION MEASURES:

1. The mining authorities shall take up afforestation/compensatory afforestation as suggested by the Forest Department all along the boundary of mine and also in an area earmarked in IBM Plan from the first day of mine lease agreement. Also, a logbook on number of saplings planted, survival, etc., shall be maintained.
2. The mining authorities shall take up tree plantation continuously year after year during rainy seasons either under compensatory afforestation scheme or on their own to preserve the environment and nature's status quo in the mining area, an amount of minimum 2% of the turnover every year shall be earmarked for this purpose.
3. The mining authorities should take up intensive afforestation measures after stabilization of the dumps to prevent soil erosion and in consultation with Forest Department.


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4. The mining authorities shall protect the environment and natural growth of vegetation in the area proposed for lease.

XI. STORM WATER MANAGEMENT & EROSION PREVENTION:

1. The mining company should carryout soil and water conservation measures as suggested by the Ministry of Environment & Forests, Government of India, New Delhi, the Karnataka State Pollution Control Board and the Department of Mines and Geology. Also, water harvesting and groundwater recharge facilities shall be provided in the mining area.
2. The mining authorities shall ensure that the top soil from the mining operation shall carefully be removed without causing soil erosion, and siltation in the area/valleys.
3. The mining authorities 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.
4. The mining authorities shall take up recharging of groundwater sources in the mining area as and when the suggestions are made by the Department of Mines & Geology.


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Encl.: Annexure-I & II.

ANNEXURE-I

Fugitive Emission Standards	
Particulate Matter	1200 $\mu\text{g}/\text{m}^3$
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.
C. 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.	


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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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