QUARRY PROJECT OF

Ws Cochin Blue Metal Industries Pyt. Ltd.

PURAPUZHA VILLAGE PURAPUZHA PANCHAYATH THODUPUZHA TALUK **IDUKKI DISTRICT** KERALA STATE

and compliance report

(Ref. No. 1069/EC4/2016/SEIAA dt. 17.03.2018 of SEIAA KERALA) ENVIRONMENTAL CLEARANCE No. 35/2018

FOR THE PERIOD FROM

October 2018 to March 2019

QUARRY PROJECT OF

M/s Cochin Blue Metal Industries Pyt. Ltd.

PURAPUZHA VILLAGE

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THODUPUZHA TALUK

IDUKKI DISTRICT

KERALA STATE

2ND COMPLIANCE REPORT ((Ref: No. 1069/EC4/2016/SEIAA DT. 17.03.2018 OF SEIAA KERALA)

ENVIRONMENTAL CLEARANCE No. 35/2018

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MONITORING REPORT - PROFORMA - PART I

E.C. No. 35/2018 vide Proceedings No. 1069/EC4/2016/SEIAA dated 17.03.2018 issued by SEIAA Kerala / MoEF & CC

1.	Name of the project	Quarry project of M/s Cochin Blue Metal Industries Pvt. Ltd.
2.	Clearance letter no. & date	Environmental Clearance No. 35/2018 vide Proceedings No. 1069/EC4/2016/SEIAA dated 17.03.2018 issued by SEIAA Kerala
3.	Location: District & State/UT	Idukki District, Kerala State
4,	Address for correspondence:	Mr. C.A. Mohammed Iqbal Director M/s Cochin Blue Metal Industries Pvt. Ltd. Choozhikkara, Mathiri P.O Ramapuram, Kottayam -686576.
5.	Contact No. of office with name of responsible official	8086966966 Asheeb A.A (Manager)
6.	Mobile No. of concerned officials associated with monitoring	8086966966
7.	Date of commencement (Actual and/or planned)	17.03.2018
8.	Validity of CFO (Consent for Operation obtained from Kerala State PCB)	16.03.2023
9.	Present status of the project	Not Starting
10.	Email id of the contact person to whom communications to be sent	cochinbluemetals@gmail.com
11.	FAX Number	

Date: 29 04-2019

ROMETHIRI COmpany Seal)

Signature of authorized signatory

Name: Asheeb. A.n Designation: Manager

ABOUT THE PROPONENT

M/s Cochin Blue Metal Industries Private Limited possesses a quarry project in Purapuzha Village and Panchayath, Thodupuzha Taluk, Idukki District, Kerala state.

State Environment Impact Assessment Authority Kerala (SEIAA Kerala) accorded Environmental Clearance No. 35/2018 vide proceedings No. 1069/EC4/2016/SEIAA dt. 17.03.2018 to M/s Cochin Blue Metal Industries Private Limited for an area of 1.3898 hectares in Purapuzha Village and Panchayath, Thodupuzha Taluk, Idukki District, Kerala.

M/s Cochin Blue Metal Industries Private Limited is controlled and managed by Mr. C.A. Mohammed Iqbal, Director, Choozhikkara, Mathiri P.O., Ramapuram, Kottayam, Kerala - 686576. Email: cochinbluemetals@gmail.com.

Among the conditions specified in the said Environmental Clearance (EC), it is mandatory to file six-monthly compliance report(s). This report is in compliance of it and the second report in its series.

I. <u>ABOUT THE PROJECT</u>

a. Project category:

The project comes under the Category B, Activity 1(a), (i) of Schedule of EIA Notification 2006 and subsequent amendments.

b. Project location:

Sy. Nos. 172/1 Pt., 177/1 Pt., 177/2 Pt., 178/1 Pt., 178/2 Pt. and 179/1 Pt. of Purapuzha Village and Panchayath, Thodupuzha Taluk, Idukki District, Kerala. The proposed project site falls within 9°50′36.35″N to 9°50′45.05″N and 76°38′03.99″E to 76°38′12.72″E.

c. Project extent and activity:

The project is for quarrying of 60,000 MTA of building stone from an area of 1.3898 hectares of land located as specified above.

d. Project description:

The land for the quarry project is private own land and the land is possessed in the name of M/s Cochin Blue Metal Industries Private Limited. The mining operation will be carried out by open cast semi-mechanized method as per the approved Mining Plan. The expected life of mine is 5 years. *Mining and allied activities have not yet started in the lease area where EC has been obtained. Land preparation activities are going on in the project site at present.*

III. REPORT OF COMPLIANCE

A. SPECIFIC CONDITIONS

Item No.	Stipulations in EC	Status of Compliance	Remarks
S1	If any rare, endemic and threatened plant species are noticed, they shall be properly protected in situ or transplanted to a suitable site inside the lease area.	Effective steps shall be taken either for in situ conservation or for transplantation of any rare, endemic and threatened plant species, if any, noticed within the lease area.	

B. GENERAL CONDITIONS

Item No.	Stipulations in EC	Status of Compliance	Remarks
G1	Rain water harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Provision shall be made, for rain water storage on initiation of mining	

1			
G2	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Environment Monitoring Cell shall be formed and made functional once the project activities are started.	
G3	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.	Avenue trees shall be planted as directed herein once the project activities are started.	
G4	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	The possibility of solar energy generation and utilization	
G5	Sprinklers shall be installed and used in the project site to contain dust emissions.	Sprinklers shall be installed on initiation of mining and allied activities.	
G6	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	It shall be ensured that the directions contained are scrupulously followed.	
G7	At least 10 percent of the total excavated pit area should be retained as water storage areas	It shall be ensured that the directions contained are scrupulously followed at the time of mine closure.	

	and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the EC.		
G8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Activities towards Corporate Social Responsibility shall be done based on the need-based assessment study conducted and the amount for the same shall be spent in future from the project's annual profit of the total turnover on initiation of mining and allied activities.	
G9	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.	Land preparation activities are going on at present in the project site and fencing shall be done around the project area in due course.	
G10		Mining and allied activities have not yet started in the lease area where EC has been obtained. Warning alarms	

	specific timings) has to be	shall be arranged as per stipulations of Explosive	
	arranged as per stipulations of	Department as soon as the project starts functioning.	
	Explosive Department.		
G11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	The directions contained shall be scrupulously followed on implementation of the project activities.	
G12	Quarrying activities should be limited to day time as per KSPCB guidelines/ specific conditions.	It is proposed to conduct quarrying and allied activities only during day time on initiation of activities in the project site.	
G13	Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.	The direction shall be scrupulously followed on initiation of mining activities.	
G14	A licensed person should supervise/ control the blasting operations.	Licensed person shall be engaged for controlling the blasting operations on initiation of project activities.	
G15	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	I Access roads to the project site are not tarred at present	
G16	Overburden materials should be managed within the site and used for reclamation of mine pit as per	Since land preparation activities are going on at present, overburden is stacked in pre-determined places within the project site.	

	mine closure plan/ specific conditions.		
G17	Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is no mention in the mining plan/specific condition.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Special care shall be taken during mining activities to ensure that the height and width of benches are maintained at 5 m x 5 m.	
G18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	The directions contained shall be scrupulously followed on implementation of the project activities.	
G19	Maximum depth of mining from general ground level at site shall not exceed 10m.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Special care shall be taken during mining activities to ensure that the mining depth does not exceed the depth specified herein.	
G20	No mining operations should be carried out at places having a slope greater than 45°.	Mining and allied activities have not yet started in the lease area where EC has been obtained. It will be ensured that no mining is carried out at places having a slope greater than 45°, if any.	
G21	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.	The condition shall be scrupulously followed to reduce the noise level within prescribed limits when the crusher starts functioning.	

G22	The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.	The directions contained shall be scrupulously followed once the project is started and the workers are engaged for the project activities.	
G23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	The directions contained shall be scrupulously followed before initiating mining activities.	
G24	The transportation of minerals should be done in covered trucks to contain dust emissions.	Mining and allied activities have not yet started in the lease area where EC has been obtained. The directions contained shall be scrupulously followed on initiation of mining and allied activities.	
G25	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	The direction contained shall be scrupulously followed while clearing the land for the project.	Plate. G.25 – Uncleared land (Page 33)
G26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Direction contained shall be scrupulously followed on initiation of mining activities.	
G27	Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.	lease area where EC has been obtained. Direction	

G28	A minimum buffer distance of 100 m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Statutory safe distance shall be maintained without fail on initiation of mining activities.	
G29	100 m buffer distance should be maintained from forest boundaries.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Statutory safe distance shall be maintained without fail on initiation of mining activities in the project site.	
G30	Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.	Consent to Operate/Authorisation/Registration issued under Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981 and Environment (Protection) Act, 1986 (Consent No. R18IDU-CTO-664374 dt. 29.05.18 valid up to 16.03.2023), is obtained from Kerala State Pollution Control Board for the quarry. [Annexure G.30]	Annexure G.30 – Copy of Consent to Operate / Authorisation / Registration issued by Kerala State Pollution Control Board for the quarry (Pages A1-A7)
G31	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Hence at present clearance is obtained only from Petroleum and Explosives Safety Organization (former Explosives Department) [Annexure G.31(1)] for use of explosives from magazine and D & O license from Purappuzha Grama Panchayath for the functioning of quarry [Annexure G.31(2].	Annexure G.31(1) – Copy of license (No. E/ SC/ KL/ 22/ 1020 (E50659) dt. 12.03.2019 valid up to 31.03.2022) issued by the Petroleum and Explosives Safety Organization for

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			possession for use of
			explosives from magazine
			(Pages A8 to A12)
			Annexure G.31(2) – Copy
			of D & O license (No. G5-
			10/19-20 dt. 22.03.2019
			valid up to 16.03.2023)
			issued by Purappuzha
			Grama Panchayath for the
			quarry (Pages A13 to A14)
	In the case of any change(s) in the		
	scope of the project, extent		
	quantity, process of mining		
	technology involved or in any way		
	affecting the environmental		
	parameters/impacts as assessed,		
G32	based on which only the E.C. is		
	issued, the project would require	th such a context, it arises.	
	. 5		
	a fresh appraisal by this Authority,		
	for which the proponent shall		
	apply and get the approval of this		
	Authority.		
G33	The Authority reserves the right	The company shall abide by the directions of SEIAA Kerala	
G 33	to add additional safeguard	in such a context, if arises.	

			1
	measures subsequently, if found		
	necessary, and to take action		
	including revoking of the		
	environment clearance under the		
	provisions of the Environment		
	(Protection) Act, 1986, to ensure		
	effective implementation of the		
	suggested safeguard measures in		
	a time bound and satisfactory		
	manner.		
	The stipulations by Statutory		
	Authorities under different Acts		
	and Notifications should be		
	complied with, including the		
	provisions of Water (Prevention		
624	and Control of Pollution) Act,	Ctrist commission of the conditions is adhered to	
G34	1974, the Air (Prevention and	Strict compliance of the conditions is adhered to.	
	control of Pollution) act 1981, the		
	Environment (Protection) Act,		
	1986, the Public Liability		
	(Insurance) Act, 1991 and EIA		
	Notification, 2006.		
	The project proponent should	Advertisements regarding the obtaining of	
G35	advertise in at least two local	5 5	

	newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.	 Mangalam (Malayalam daily) dt. 01.04.2018 and The Hindu (English daily) dt. 11.04.2018 The copies of newspaper advertisements were 	
G36	A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat /	Complied.	

	District Panchayat / Municipality / Corporation / Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental clearance shall also be put on the website of the company by the proponent. The proponent shall submit half		
G37	yearly 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) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to	• Conditions are being complied with. This second report is in compliance with the submission of six-monthly compliance reports and is for the period from October 2018 to March 2019.	

	the State Environment Impact Assessment Authority (SEIAA)		
G38	office. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.	Metallic board displaying conditions of Environmental Clearance shall be erected on initiation of activities in the project site.	
G39	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	Affidavit was submitted to SEIAA.	
G40	No change in mining technology and scope of working should be made without prior approval of the SEIAA, no further expansion	No change in mining technology and scope of working is proposed at present.	

	or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.	• Prior approval of SEIAA shall be sought if any change in mining technology and scope of working is proposed in future	
G41	The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease area shall be taken.	The condition shall be followed scrupulously on initiation of mining and allied activities.	
G42	Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points and transfer points to reduce fugitive emissions.	 and allied activities. On initiation of mining and allied activities, water sprinkling shall be considerably increased at loading, 	

The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m | Mining and allied activities have not started in the project area where EC has been obtained. Since land preparation and overall slope of the dumps G43 shall be maintained to 45°. The OB activities are going on at present the overburden and top dumps should be scientifically soil are stacked in pre-determined places within the vegetated with suitable native project site. species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas until should continue the vegetation selfbecomes sustaining.

G44	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Direction contained shall be scrupulously followed on initiation of mining activities.	
G45	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM ₁₀ and PM _{2.5} such as haul road, loading and unloading points and transfer points. It shall be ensured that the Ambient air quality parameters conform to the norms	 Mining and allied activities have not yet started in the lease area where EC has been obtained. Direction contained shall be scrupulously followed on initiation of mining activities. It shall be ensured that the Ambient Air Quality parameters are well within the prescribed standard limits. 	

	prescribed by the Central Pollution Control Board in this regard.		
G46	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Direction contained shall be scrupulously followed on initiation of mining activities.	
G47	Measures should be taken for control of noise levels below 85 dBA in the work environment.	 Mining and allied activities have not yet started in the lease area where EC has been obtained. Direction contained shall be scrupulously followed on initiation of mining activities. Effective measures shall be taken to maintain the ambient sound level well within the prescribed limits. 	
G48	A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Environment Monitoring Cell (EMC) shall be formed once the project activities are started.	

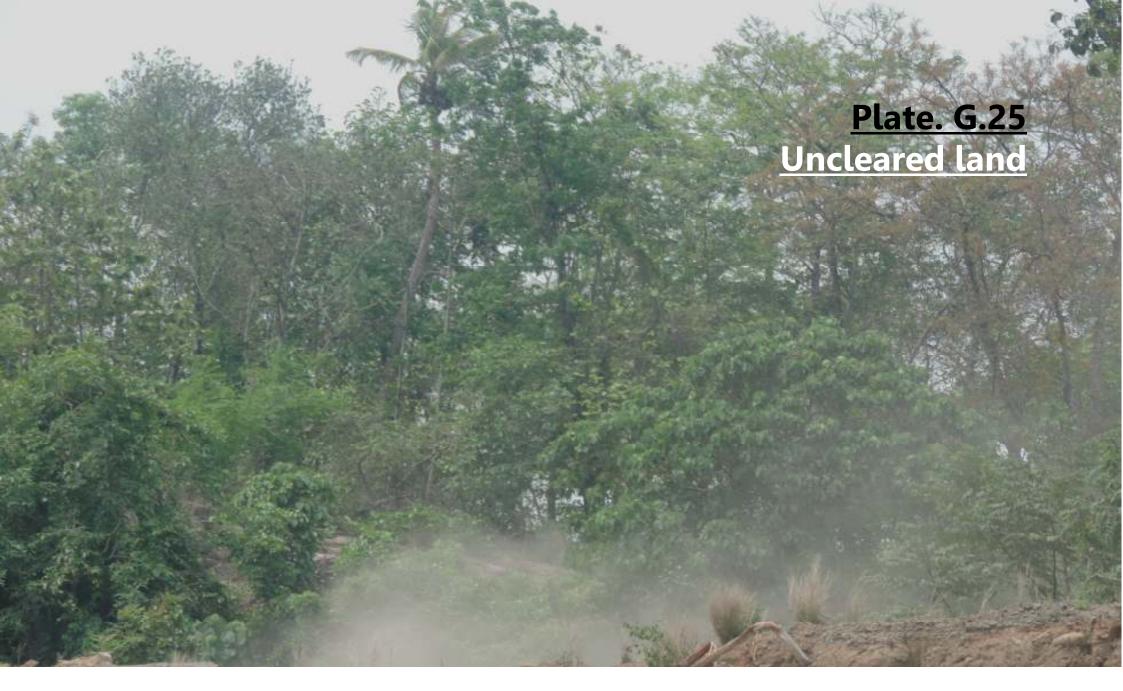
G49	The funds earmarked for environmental protection measures and CSR activities should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Direction contained shall be scrupulously followed on initiation of mining activities.	
G50	The Regional Office of MoEF&CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional office by furnishing the requisite data/ information/ monitoring reports.	Full co-operation shall be extended to the officer(s) of the Regional office by furnishing the requisite data/information/ monitoring reports, as and when it is sought.	
G51	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 the National Green Tribunal Act, 2010.	No appeal sought for the present project.	

G52	Concealing the factual data or submission of false/fabricated data and 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.	Shall abide by the stipulations of SEIAA in such a context, if arises.	
G53	The SEIAA may revoke or suspend the order, for non-implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Shall abide by the stipulations of SEIAA in such a context, if arises.	
G54	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority of the same project.	It is assured that we shall oblige with the directions issued by SEIAA from time to time.	

G55	This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.	Shall abide by the condition and renewal application shall be submitted well before the expiry of validity period	
G56	The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.	No litigation is pending in any Court of Law at present with respect to this project.	
G57	The mining operation shall be restricted to above ground water table and it should not intersect ground water table.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Direction contained shall be scrupulously followed on initiation of mining activities.	
G58	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area.	Mining and allied activities have not yet started in the lease area where EC has been obtained. Direction contained shall be scrupulously followed on initiation of mining activities.	
G59	Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface	The condition shall be followed scrupulously on initiation of mining and allied activities.	

	water and ground water for the		
	project.		
	Regular monitoring of flow rates		
	and water quality upstream and	The condition shall be followed scrupulously on initiation of mining and allied activities.	
	downstream of the springs and		
G60	perennial nallahs flowing in and		
	around the mine lease area shall		
	be carried out and reported in the		
	six-monthly reports to SEIAA.		
	Occupational health surveillance		
	program of the workers should be	Mining and allied activities have not yet started in the lease area where EC has been obtained. Direction contained shall be scrupulously followed on initiation of mining activities.	
G61	undertaken periodically to		
Gol	observe any contractions due to		
	exposure to dust and take	manang detivities.	
	corrective measures, if needed.		

IV. PLATES



V. ANNEXURE