

Compliance Report

October 2017 – March 2018

M/s TRAVENCORE BLUE METAL INDUSTRIES (P) LTD

Thiruvananthapuram District

Kerala

COMPLIANCE REPORT

TO

THE CONDITIONS

OF

ENVIRONMENTAL CLEARANCE ORDER

NO: 152/SEIAA/KL/3072/2013

Dated: 31-03-2017

BY

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

FOR

BUILDING STONE QUARRY

(MINOR MINERAL MINING) PROJECT

AT

**SURVEY NOS. 229/1, 229/13, 229/9, AND OTHERS IN VILLAGE &
PANCHAYAT - ARUVIKARA, TALUK - NEDUMANGAD, DISTRICT -
THIRUVANANTHAPURAM, KERALA**

BY

M/s TRAVANCORE BLUE METAL INDUSTRIES (P) LTD

THIRUVANATHAPURAM DISTRICT

KERALA

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INTRODUCTION

The quarry project of **M/s Travancore Blue Metal Industries (P) Ltd.** is situated at survey No. 229/1, 229/13, 229/9, and others in Village & Panchayat - Aruvikara, Taluk - Nedumangad, District - Thiruvananthapuram, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 31-03-2017. As part of general condition No.37 of Environmental Clearance order, half yearly compliance report needs to be submitted by the project proponent. The compliance report of second half to the specific conditions and general conditions of the Environmental Clearance order for the period of **October 2017 – March 2018** is being submitted.

COMPLIANCE REPORT
(SPECIFIC CONDITIONS)

PART A

Compliance report

PART - A – SPECIFIC CONDITIONS

01	Steep cliff like feature may be demarcated and fenced as danger zones with sign boards.	complied
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Compliance:

The project proponent has demarcated by fencing on the top of steep cliff like feature in the mining area. This will be maintained in the project area. Sign board is also installed to know it is a danger zone.

02	Storm water drainage from the upper part must be channelized properly and let out through well defined channels. Catch water drain should be provided and water must be clarified to avoid silt to reach the river. Avoid letting out water be side of the approach road.	complied
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Compliance:

As part of storm water management, the project proponent has been constructing well defined drainages to channelize all surface runoff in to the rain water harvesting pond in the project site. The de-siltation chamber is being provided to remove sediments from the storm water. At present the project proponent has been storing maximum possible rain water in to the constructed pond.

03	The rain water structure should be provided.	Complied
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Compliance:

To collect rain water from the entire project land, the proponent has developed two rain water harvesting pond in the project site. The storm water flow is leading to the pond through constructed and natural drainages. The stored rain water is using for irrigation purposes, watering of plants, wetting of roads, and for dust suppression system (mainly sprinklers system). The photograph is showing the rain water collection pond in the project area in **Plate No. 1**.

COMPLIANCE REPORT

(GENERAL CONDITIONS)

PART B

Compliance report

PART – B – GENERAL CONDITIONS

01	Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.	Complied
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Compliance:

Even though it is not specified in KMBR/KPBR to collect rain water in mining area, the proponent has developed two rain water harvesting pond in the project site to collect rain water falling in the entire mining area. The RWH pond is situated at the lower parts of the quarry area. The collected rain water is used for irrigation purposes, watering of plants, wetting of roads, supply to public and for dust suppression system (mainly sprinklers system). The photograph showing the rain water collection pond in the project area is attached in **Plate No.1**.

02	Environment Monitoring Cell (EMC) as agreed under the affidavit filed by the proponent should be formed and made functional.	Complied
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Compliance:

To monitor and evaluate the works done under the conditions stipulated in the EC order, the project proponent has formed an Environmental Monitoring Cell (EMC) with Mr. Biju varghese as head of the monitoring cell. The EMC meeting will arrange regularly for a sustainable environment. The details of the EMC members is given in **Table No. 1**

Table 1 - Environmental Monitoring Cell (EMC)

Sl. No.	Post	Name
1.	Head of monitoring cell (proprietor)	Biju varghese
2.	Member	Saifudheen P Y
3.	Member	Vijayakumar K

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4.	Member	Environmental Engineers and consultants Pvt. Ltd.
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03	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.	complied
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Compliance:

Green belt is an important component in the mining sector. To reduce air and noise pollution, the project proponent has planted avenue trees along either side of the road. There is also natural vegetation including trees, shrubs and climbers are presents in the sides of road and parking area. The project could plant more suitable avenue trees along either side of the tarred road and open parking areas, where there is less vegetation. This will help to reduce air and sound pollution. The photograph of the avenue tress is attached as **Plate No.2**. The bill purchased against plants is provided as **Annexure No.1**.

04	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Will be complied
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Compliance:

The project is intending to use maximum renewable energy to reduce electrical consumption from KSEB. As part of this, the project proponent will install a solar panels/solar street light in the project site.

05	Sprinklers shall be installed and used in the project site to contain dust emissions.	Complied
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Compliance:

To prevent dust emissions from the road while transportation of materials, the project splash the haulage road and critical areas with the help of vehicles in regular intervals. The sprinklers are also installed in the critical area to reduce the dust emission.

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06	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	Noted
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Compliance:

Eco restoration is in an integral part of mining activity. The eco restoration and the mine closure plan will be done at the own cost of the project proponent as per the approved mining plan.

07	At least 10 percent out of the total excavated pit area should be retained as water storage areas 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.	Will be complied
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Compliance:

The proponent has initiated steps to plant indigenous species as part of concurrent eco restoration. The project will retain 10 percent of total excavated pit as rain water storage area after closure of the mine. The remaining area will be reclaimed with stacked dumping of overburden and top soil. As part of its eco – restoration plan, the project will plant indigenous plant species that are eco – friendly on the reclaimed area.

08	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.	Complied
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Compliance:

As part of inclusive growth of the community, the project proponent executes various activities under Corporate Social Responsibility of the firm with the consultation of Panchayath. The main activities were under the sectors of education, housing, health etc. The details of CSR provided in the period of second half is mentioned in the **Table No.2**

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Table No.2 – CSR Details

Sectors	Activities	Partners	Beneficiaries	Amount spent in Rs.
Health	Donation		RAJAN CHERIYAKKONNI	200
	Donation		ABUBACKER NEDUMANGADU	200
	Donation		AJITH VEMBANOR	5,000.00
	Donation		AMBIKA PALIYODE	400
	Donation		AMEER	5,000.00
	Donation		ANI NILAMEL	550
	Donation		ANILKUMAR S	6,000.00
	Donation		ARUVIKKARA HOSPITAL	200
	Donation		BABU	1300
	Donation		BALAMMA	500
	Donation		BHARATHAN,MUKKOLA	1500
	Donation		BINU KATTAKKADA	250
	Donation		CHANDRAN MULAYIRA	700
	Donation		GABRIYAL CHERIYAKKONNI	200
	Donation		GOPAN KAITHAKKUZHY	500
	Donation		JAYAN KADAMBANADU	250
	Donation		JOY MOOZHINADA	1200
	Donation		K SURESH KUMAR	200
	Donation		KUNJUMON	200
	Donation		KUTTAN NAIR	500
	Donation		LAMBRATH	400
	Donation		LEELA MAILAMMOODU	300

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	Donation		MADHAVAN	3,000.00
	Donation		MADHU KADAMBANADU	10,000.00
	Donation		MALLIKA	3,000.00
	Donation		MANIKANTAN ARUVIKKARA	800
	Donation		MOHANAN CHERIYAKKONNI	500
	Donation		NELSON MAILOM	300
	Donation		PRADEEP G	13,500.00
	Donation		RADHAKRISHNAN PATIANT	3,650.00
	Donation		RAJAN CHERIYAKONNI	200
	Donation		RAJENDRAN	500
	Donation		ROBINSON	250
	Donation		ROBINSON MULAYARA	300
	Donation		SADANANTHAN PACHAMALA	1200
	Donation		SAKUNTHALA	1,000.00
	Donation		SALIM URIYAKKODE	2,000.00
	Donation		SANTHA CHERUKKODE	1000
	Donation		SASI ARYANADU	500
	Donation		SHIMLA G	6,500.00
	Donation		SISUPALAN CHIRAYINKKEEZHU	200
	Donation		SOMAN KACHANI (PATIENT)	1000
	Donation		SOUMYA	2,000.00
	Donation		SUBAITHA	250
	Donation		SUKUMARAN NAIR	400
	Donation		SUNILKUMAR	3,000.00
	Donation		SURENDRAN NAIR	1,750.00
	Donation		SURESHKUMAR	600

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	Donation			
	Donation		SYAMALA PALLICHAL	1,500.00
	Donation		THANAL MATHA CHARITABLE SOCIETY	200
	Donation			
	Donation		THANKAPPAN,KALLIYYOR	400
	Donation		VELAYUDHANPILLA KADAMBANADU	200
	Donation		VINCENT,VELLANAD	2500
	Donation		VISHNU CHERIYAKKONNI	1,000.00
	Donation		VISWAMBHARAN	7,000.00
Education			ATHIRA VELLANAD (B COM STUDENT)	500.00
Infra structure development			AJEESH	5,000.00
Social	Donation		HEARING IMPAIRMENT SOCIAL WELFARE ORGANISATION	500.00
			PURCHASE OF WASTE BIN	2,450.00
		Death	RAJAN	5,000.00
			THANKAPPAN	300.00
	Donation	Trust	NANMA CHARITABLE TRUST SANTHI THEERAM	500.00
	Donation		KARUNALAYAM CHARITABLE	250.00

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			TRUST	
	Donation		SWAPNAKODU CHARITABLE TRUST	500.00
	Donation		THANAL MATHA CHARITABLE SOCIETY	200.00
	Donation		AKHILA KERALA BHAKTHI SAMRAKSHANA SAMMITHI	1,000.00
	Donation		BHOTHI CHARITABLE TRUST PULIYARAKONAM	1,000.00
	Donation	Marraige	SATHYAN	3,000.00
	Donation		SHANTHA	1,000.00
	Donation		MARIYAKUTTY	5,000.00
	Donation		SUJEENDRAN	5,000.00
	Donation		BHASKARAN NAIR	1,000.00
	Donation		PRAMOD	3,000.00
	Donation		ANILKUMAR S	5,000.00
			Total	1,35,950.00

09	The lease area shall be fenced off with barbed wires to a maximum 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.	Being Complied
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Compliance:

As part of clear demarcation and to prevent falling of animals/human being/dumping of garbage etc, the project installed fencing around the area where Environmental Clearance obtained. All the boundary indicators (boards, stores, markings etc) will be protected at all times and will be conspicuous.

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10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.	Complied
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Compliance:

To give warning to the labours and community people prior to the blasting in quarry, the project installed warning alarms as per the stipulation of Explosive department in the quarry site.

11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Being complied
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Compliance:

To reduce noise and vibration, the following measures are adopted in the project site.

- Proper maintenance of machinery and equipments
- The machineries like breaker and excavator has well sound proof cabin so that the machine operators can work without stress due to the sound.
- Personal protective devices i.e., ear plugs are provided to workers working in high noise areas.
- The mining activity held in day time only.
- Noise level at quarry site checked periodically.

Blast vibrations and control measures

- ❖ Controlled blasting technique is adopted in this project in order to reduce blast vibrations.
- ❖ Ordinary detonators are using for the blasting
- ❖ The maximum charge per delay is not more than 10kg to limit the PPV values to 10mm/sec.
- ❖ Optimum delay sequence and stem to column ratio is maintaining to minimize the ground vibration intensity.

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12	Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.	complied
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Compliance:

To reduce the adverse effect of Quarrying activities in the community, the mining activity will limit to day time as per KSPCB guidelines. The working time of the quarry is from 8.00am to 5.00 pm.

13	Blasting should be done in a controlled manner as specified by the regulations of explosives department or any other concerned agency.	Complied
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Compliance:

The blasting is carrying out in controlled manner by using ordinary delayed detonators. . All blasting activities are supervising by a qualified person with the specified regulations of explosive department.

14	A licensed person should supervise/control the blasting operations.	Complied
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Compliance:

The project proponent has appointed mining mates in the site to supervise/control exploitation of minor minerals including blasting at the project site. **Annexure No. 2** is showing the certificate of qualified person.

15	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	Complied
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Compliance:

To contain dust emissions and for the trouble free transportation of materials, the project has tarred the access road of 550 meter to the quarry site. The project splashes

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water on the road to arrest the dust production during summer season. The photograph of the road is shown in **Plate No. 3**.

16	Overburden materials should be managed within the site and used for reclamation of mine pits as per mine closure plan/ specific conditions.	Complied
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Compliance:

The overburden and topsoil need to extract during the time of mining, these natural resources being staked in the project site. This will be used for plantation, haulage roads and land filling in the mining area. No overburden will let out from the project site. The overburden materials are stacking in the designated place in the project site.

17	Height of the benches should not exceed 5m, and width should not be less than 5m, if there is no mention is the mining plan/specific conditions.	Being complied
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Compliance:

To enhance safety and conserve environment, the quarrying is carrying out as per mining plan. The project extracts the minerals by creating benches. The benches will not exceed 5 meters of height and the width of the bench will have minimum of 5 meters.

18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Noted
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Compliance:

The project proponent use ordinary/electric delayed detonator. The blasting is under the supervision of qualified person. The new technology of delayed blasting can reduce the incident of fly rock. Blasting during unfavourable weather conditions will be avoided. During blasting it will maintain optimum delay sequence and stem to column

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ratio to minimize the fly rock distance. The project assures that the PPV is below 10 during blasting.

19	Maximum depth of mining from general ground level at site shall not exceed 10m.	Will be complied
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Compliance:

The depth of mining won't exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less. The exploration will be done as per the plan submitted before State Environment Impact Assessment Authority (SEIAA), Kerala.

20	No mining operations should be carried out at places having a slope greater than 45 ⁰ .	Noted
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Compliance:

In the project site, there is no mining operation is carried out with a slope greater than 45⁰.

21	Acoustic enclosures should be 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.	complied
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Compliance:

To maintain the noise level as per CPCB standards, the ear plugs are provided to the labours to reduce the impact of sound. Vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards.

22	The workers on the site should be provided with the required protective equipments such as ear muffs, helmet, etc.	complied
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Compliance:

To ensure the safety of workers in working site, the project has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear plugs, safety belts, glows, etc.

23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Being complied
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Compliance:

As part of storm water management, storm water drains are provided within the project site to channelize the surface runoff to the rain water collection ponds. The project is intending to develop a well defined garland drains in the lower slopes of the core area. At present storm water from the mining area is collecting in two rain water harvesting pond so that no quarry waste is letting out with storm water. At present no surface run off letting out from the project site.

24	The transportation of minerals should be done in covered trucks to contain dust emissions.	complied
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Compliance:

To avoid dust emission while transportation of materials, the project assured the trucks were covered before it leaving the project site.

25	The proponent should plant trees at least 5 times of the loss that has occurred while clearing the land for the project.	Being complied
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Compliance:

The project proponent has started to plant various saplings in the project area as a compensation of loss of trees while the project is clearing the land for mining. The project

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intending to plant more tree saplings in to the project site. The bill against the purchase of plants is provided at **Annexure No.1**.

26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Noted
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Compliance:

The project proponent is using the used oil as lubricant for machineries and other equipments. Disposal of spent oil from diesel engines will be sold only to the approved recyclers as specified under relevant Rules/Regulations.

27	Explosives should be stored in magazines in isolated place specified and approved by the explosives department.	complied
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Compliance:

As part of safety, Explosives are stored in the magazine. The magazine is situated in an isolated place specified and approved by the explosives department. The area surrounded to the magazine is fenced with barbed metal wire.

28	A minimum buffer distance of 100m meter from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.	complied
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Compliance:

To keep a safe zone to the residents, community resource and public infrastructure, the norms of Kerala State Pollution Control Board regarding the distance criteria of houses, roads, rivers and worship places is adhered by the project. There is 115 meter distance to the nearest house from the boundary of mining area.

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29	100 m buffer distance should be maintained from forest boundaries.	Noted
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Compliance:

There is no forest near to the project site.

30	Consent from Kerala Pollution Control Board under Water and Air Act(s) should have been obtained before initiating activity.	Complied
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Compliance:

The project has obtained consent from KSPCB under Water and Air Act(s). The copy of certificate of “*Consent to Operate*” (Renewal) from Kerala State Pollution Control Board is provided in **Annexure No.3**.

31	All other statutory clearances should have been obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	Complied
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Compliance:

The certificates obtained from concerned statutory authorities are enclosed in **Annexure No.3, 4, 5, & 6**

TABLE NO.3 – DETAILS OF APPROVALS OBTAINED

Name of the Statutory approval	Name of the Statutory authority	Approval Number & Date
Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala	152/SEIAA/KL/3072/2013 Dt. 31-03-2017
“ <i>Consent to Operate</i> ” (Renewal)	Kerala State Pollution Control Board	PCB/TVM-DO/ICO/AE2-231/2011

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Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	E/SC/KL/22/1215(E58077) Dt. 16-03-2016
License for quarry operations	Gram Panchayath	A4.08?2017-18 dt. 05-04-2017
Permit order	Directorate of Mining and Geology	

32	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, based on which only the EC is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority.	Will be complied
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Compliance:

At present there is no change in the scope of the project. The project will seek for a new Environmental clearance in the case of any change(s) in the scope of the project.

33	The Authority reserves the right to add additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted
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Compliance:

The project is willing to add all possible additional safe guard measures subsequently if the authority found necessary.

34	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, The Environment (Protection) Act, 1986 the public liability (Insurance) Act, 1991 and EIA notification, 2006.	Noted
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Compliance:

The stipulated orders and directions under different act and notification including EIA notification will be scrupulously followed. A brief list of various Acts and notifications which are followed by the proponent is given below

- Kerala Minor Mineral Concession Rules, 2015.
- Mines Act, 1952
- Explosive Rules, 2008
- Kerala Panchayat Raj Act, 1994
- Central Ground Water Authority
- Water Pollution (Prevention & Control) Act, 1974
- Air Pollution (Prevention & Control) Act, 1981
- Environment Protection Act, 1986
- EIA Notification, 2006 / 2009
- The Kerala Promotion of Tree Growth in Non-Forest Areas (Amendment) Act, 2007.

35	The project proponent should advertise in at least two local news papers widely circulated in the region, one which (both advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of	Complied
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	clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala 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 the copy of the same signed in all pages should be forwarded to the office of this authority as confirmation.	
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Compliance:

An advertisement in two local daily newspapers (English and Malayalam) regarding Environmental Clearance accorded to the quarry project was given within the stipulated period and the copy of the same was submitted at SEIAA Kerala. The copy of the advertisement given in two local newspapers is provided at **Annexure No.7**.

36	A copy of the clearance letter shall be sent by the proponent to concerned Grama/District Panchayath / 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.	Complied
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Compliance:

As per the condition stipulated in the Environmental Clearance order, a copy of the environmental clearance letter was submitted to Grama Panchayat office. There were no suggestions/representations received while processing the proposal. The acknowledgement from the Panchayat is provided in **Annexure No.8**. The Company does not have a web site and it will be launched shortly and upload the environmental Clearance order.

37	The proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of	complied
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	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 the State Environment Impact Assessment Authority (SEIAA) office.	
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Compliance:

The compliance of the stipulated specific and general conditions of Environmental Clearance is being submitted to the State Environment Impact Assessment Authority Govt. of Kerala, and also to the Regional Office of MoEF&CC, Govt. of India both in hard copy as well as mail.

38	The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3ft 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.	complied
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Compliance:

The detail of the Environmental Clearance has display on metallic board in the project site. The metallic board installed as specified in the conditions of Environmental Clearance order.

39	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.	Complied
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Compliance:

An assurance in the form of affidavit was already submitted to SEIAA Kerala. The copy of the same is attached as **Annexure No.9**.

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40	No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modification in the mine shall be carried out without prior approval of the SEIAA, as applicable.	Will be complied
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Compliance:

At present, the project proponent is not intending to expand the area of mine, technology and scope of working. The project will appear SEIAA for Environment Clearance if the project wants to expand its scope. The mining is progressing as per submitted plan.

41	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 shall be taken.	Noted
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Compliance:

The project proponent will take all necessary safeguards to prevent contamination of stream as well as ground water. The project proponent will install additional clarifiers in the project site to prevent sediments and wastes from quarry site to enter in to the main stream. There is no stream originating from the mining area.

42	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 un loading points & transfer point to reduce fugitive emissions.	Will be complied
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Compliance:

The project proponent has monitored the ambient air quality as per National Ambient Air quality Standard (NAAQS). The project is intending to increase the splashing

Compliance report

of water and installed sprinklers at loading, unloading and transfer points. This activity can reduce the fugitive emission.

43	The top soil, if any, shall be 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 staked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45 ⁰ . The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the bump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	Being complied
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Compliance:

To prevent the soil erosion, the top soil and overburden will be stacked in a designated place within the project site. Only topsoil will be used for plantation. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place as per the direction of State Environment Impact Assessment Authority (SEIAA). The Environment Monitoring Cell will monitor the execution of eco restoration.

44	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 de silted particularly after monsoon and maintained properly.	Will be complied
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Compliance report

Compliance:

The project proponent has been constructing effective garland drains to catch all the storm water during the time of monsoon season. These channels will be directed to the rain water collection pond. All sediments and silts will be settled at the bottom of the pond and only cleared water let out. The water from the pond can be used for splashing of water on roads to arrest the dust.

45	Effective safeguard measures such as regular water sprinkling shall be carries out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5}, such as haul road, loading an un loading points and transfer points – it shall be ensured that the Ambient Air Quality Parameters confirm to the norm prescribed by the Central Pollution Control Board in this regard.	Being complied
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Compliance:

The project proponent is regularly spraying water in critical areas prone to air pollution with the help of vehicle. The project proponent will increase the number of sprinklers in critical area to reduce the dust emission such as loading and un loading points, haul roads and transfer points. The ambient air quality will be monitored with the help of an approved laboratory.

46	Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer point should be provided and properly maintained.	Being complied
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Compliance:

To prevent dust emissions, the project proponent will install sprinklers in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer

Compliance report

points. The water spraying has been carried out regularly to arrest the dust emission. The sprinklers and vehicle for water spraying will be properly maintained.

47	Measures should be taken for control of noise levels below 85 dBA in the work environment.	Being complied
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Compliance:

The level noise from all these activities will not go beyond 85dBA. The main sound generating activities are the playing of jack hammer, breaker, vehicles and blasting operations. The project proponent will take appropriate action to reduce the sound by employing possible measures. These are mentioned under the condition number 11.

48	A separate Environmental Management Cell with suitable qualified personal should be set up under the control of a senior executive, who will report directly to the Head of the Organization.	Complied
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Compliance:

To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project has constituted an Environment Monitoring Cell with Mr. Biju Varghese as the head of the Cell.

49	The funds earmarked for environmental protection 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.	Will be complied
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Compliance:

The project proponent could execute many activities under Corporate Social Responsibility (CSR) for community development. To implement these activities in a good

Compliance report

manner, the project proponent will open an account for keeping the funds earmarked for environmental protection and CSR.

50	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.	Noted
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Compliance:

The project proponent will extent all possible cooperation to the officers form regional office of MoEF & CC and can produce all data/information/reports when they are asking for.

51	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.	Noted
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52	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.	Noted
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53	The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any	Will be complied
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Compliance report

	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.	
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Compliance:

The project proponent is willing to implement the conditions stipulated in the Environment Clearance order. The project can execute all possible measures in the project site for the conservation of environment.

54	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 for the same project.	Will be complied
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Compliance:

The project will give priority to the conditions stipulated in the Environment clearance Order for its execution.

55	This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Govt. of Kerala, whichever is earlier.	Noted
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56	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.	Noted
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57	The mining operation shall be restricted to above ground water table and is should not intersect ground water table.	Will be complied
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Compliance report

Compliance:

The project proponent will restrict its mining operations above the ground water table.

58	All vehicle used for transportation and within the mine shall have "PUC" certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.	Complied
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Compliance:

As part of reduce air pollution, the project proponent has monitoring the pollution level of all vehicles playing in the project site. This monitoring will conducted only in authorized pollution checking center. Copy PUC certificate is attached as **Annexure No. 10.**

59	Project proponent should obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.	Noted
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Compliance:

At present, the need of prior approval is not necessary to draw ground water and surface water for the project.

60	Regular monitoring of flow rates and water quality upstream and down streams of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly report to SEIAA.	Noted
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Compliance report

Compliance:

There is no stream or springs flowing in and around to the mine lease area. The project will install de siltation trap and other mechanism to prevent sediments and wastes from the mining area to the public drainage system.

61	Occupational health surveillance programe of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Will be complied
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Compliance:

The project proponent will start an occupational health surveillance programme for the labours working in mining area and crusher.

PLATES

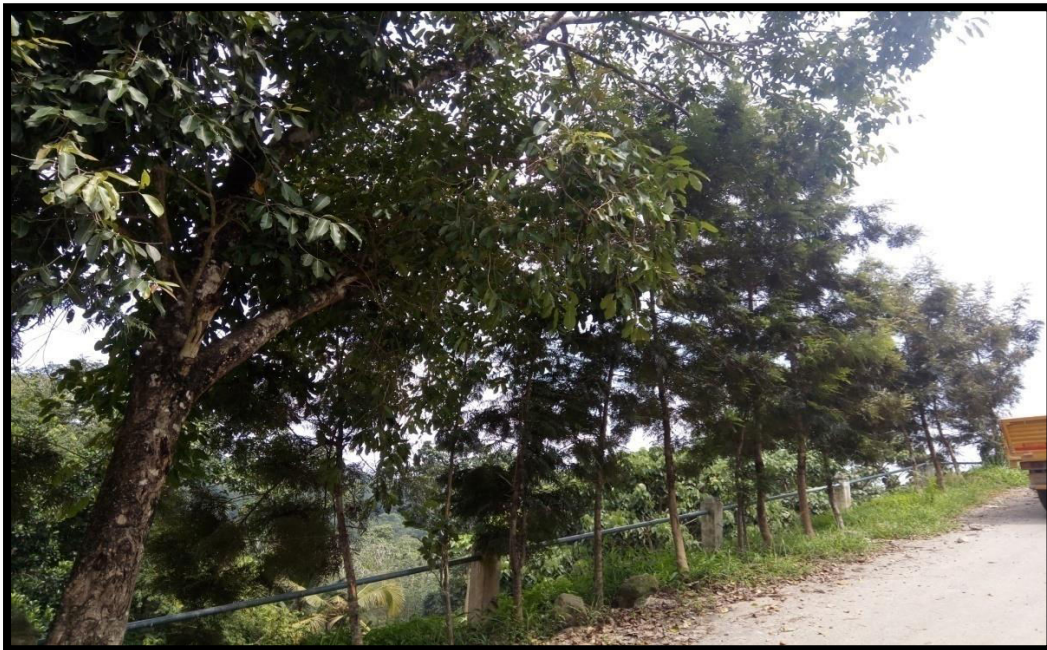
Compliance report

Plate No.1



Rain water Harvesting Pond in the project site

Plate No.2



Avenue Trees

Compliance report

Plate No.3



Approach road

ANNEXURE

Compliance report

Annexure No.2

(धात्विय) खनन परीक्षा बोर्ड
Board of (Metalliferous) Mining Examinations
दस्तावेज सं०
No. of Document 11565

सं०/आं० 1228 R
G.L.M. 1229 R

खान अधिनियम, १९५२
THE MINE'S ACT, 1952

खनन मेट समर्थता प्रमाण-पत्र
MINING MATE'S CERTIFICATE OF COMPETENCY

(धात्विय खान विनियम, १९६१ के अधीन)
(Under Metalliferous Mines Regulations, 1961)
(केवल खुल कार्यस्थलों वाली धात्विय खानों तक सीमित)
(Restricted to metalliferous mines having open-cast workings only)

श्री..... पुत्र.....
(निवासी) गांव..... थाना.....
जिला..... राज्य.....

जन्म तारीख..... ने अपनी आयु, स्वस्थता, सदाचार, साक्षरता और अनुभव का संतोषजनक प्रमाण दे दिया है और ता..... को पर हुई मौखिक परीक्षा पास कर ली है इसे धात्विय खान विनियम, 1961 के अधीन उन धात्विय खानों के लिए जिनमें केवल खुल कार्यस्थलों तक कार्य सीमित होता है खनन मेट समर्थता प्रमाण-पत्र दिया जाता है।

SARATHI THANAPATI (Name)
of Village CHARDA Thana BINKA
District SONEPUR State ORISSA
born on 15/11/1975 (SEVEN) Son of RAGHUMANI THANAPATI

having given satisfactory evidence of his age, medical fitness, good conduct, literacy and experience and having passed an oral examination held at BHUBANESWAR on 16/12/98

19..... is hereby granted a MINING MATE'S CERTIFICATE under the Metalliferous Mines Regulations, 1961, restricted to metalliferous mines having open-cast workings only.

सचिव
खनन परीक्षा बोर्ड
Secretary,
Board of Mining Examinations.
तारीख..... १६
Date..... 02/7/99..... 19 99

अध्यक्ष
खनन परीक्षा बोर्ड
Chairman,
Board of Mining Examinations.


कि श्री..... की परीक्षा की गई और उसे ब.....
स्था शांतिरूप या मानसिक अक्षमता से रहित पाया गया, जिसका उसके दक्षतापूर्वक कार्य निष्पादन पर प्रभाव पड़ने की संभावना हो।
Certified that he was examined and found free from deafness, defective vision or any other infirmity, mental or physical, likely to interfere with the efficient discharge of his duties.

1. On 12-03-2012 ता० की
2. On ता० की
3. On ता० की
4. On ता० की
5. On खान सुरक्षा निदेशक ता० की
6. On Director of Mines Safety Bhubaneswar ता० की

Certificate of Mining mate

Compliance report

Annexure No.3



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/TVM-DO/ICO/AE2-231/2011
Date of issue :03/04/2017

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/TVM-DO/ICO(R)/QRY/ 133 /2017 Valid upto: 31/03/2019

Ref : 1. Your Application dated 20/03/2017
2. Your Previous consent No PCB/TVM-DO/ICO(R)/QRY/197/2016 dated 04/03/2016 valid upto 31/03/2017
3. Your variation order dated 07/03/2015

The 'Integrated Consent to Operate' issued as per reference above to M/s Travancore Blue Metal Industries is hereby renewed up to 31/03/2019 and issued to M/s Travancore Blue Metal Industries, Kadambanad, CheriyaKonni P.O, Nedumangad, Thiruvananthapuram The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	Capital Investment	44 Lakhs

II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm ³ /Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

III. CONDITIONS

5.1 Quarrying area is restricted to the land in Nedumangad Taluk, Aruvikara Village having valid lease from 4/10/2010 to 17/5/2020 on survey nos. 245/9,11, 293/7,294/1,3,18 issued by Department of Mining and Geology Thiruvananthapuram.

5.2 This consent will become invalid if any adverse order is passed by the Hon'ble Supreme Court, High Court, and National Green Tribunal against present quarrying and related activities.


5.3 Any adverse Government Order passed in the matter of quarrying by the Central Government, State Government & Pollution Control Board, etc this consent will become invalid immediately.

5.4 This Consent to Operate (Renewal) is issued only in accordance with norms and parameters of the Board

Copy of Consent form PCB

Compliance report

Annexure No.4


सत्यमेव जयते

Validity expires on 30/03/2022

**Proceedings of the State Environment Impact Assessment Authority
Kerala**

*Present: Prof. (Dr.) K.P. Joy, Chairman; Dr. J. Subhashini Member; Sri. V.S. Senthil, I.A.S Member
Secretary.*

Sub: - SEIAA- Environmental clearance for the quarry project in Sy. No. 229/1, 229/13, 229/9, 229/9-1, 234/10, 234/11, 234/3, 234/4, 234/5, 234/6, 234/8-2, 234/9-1, 238/12, 238/13-2, 238/16-2, 238/17-2, 240/7, 240/7-1, 240/7-2, 240/8, 240/9, 240/10, 240/11, 241/1-1, 241/1-2, 241/2, 241/4, 241/5, 241/6, 241/7, 241/8, 241/8-1, 241/9-1, 241/10, 241/12-16, 241/12-17, 241/12-2, 241/13-1, 241/18, 242/1, 242/2, 242/4-2, 242/4-3, 242/5, 242/6, 242/7, 242/8, 245/4, 245/5, 245/6, 245/6-1, 245/6-2, 245/6-3, 245/6-4, 231/1, 241/3, 245/7, 245/9, 245/11, 293/7, 294/1, 294/3, 294/18 (Total Area-12.0836 Ha) at Aruvikkara Village and Panchayath, Nedumangad Taluk, Thiruvananthapuram District by Sri.P.V.Suresh Kumar, M/s.Travancore Blue Metal Industries (P) Ltd - EC Granted - Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 152/SEIAA/KL/3072/2013 Dated, Thiruvananthapuram 31/03/2017

Read:-

1. Application dated on 08/11/2013 submitted by Sri.P.V.Suresh Kumar, for the proposed mining project of M/s.Travancore Blue Metal Industries (P) Ltd.
2. Minutes of the meeting of 22nd SEAC held on 7-12-2013
3. Minutes of the meeting of 26th SEAC held on 20/21-03/2014
4. Minutes of the meeting of 30th SEAC held on 6/7-6/2014.
5. Minutes of the meeting of 33rd SEIAA held on 24/9/2014
6. Minutes of the meeting of 35th SEAC held on 17/18-10/2014
7. Minutes of the meeting of 46th SEAC held on 29/30-08/2015
8. Minutes of the meeting of 49th SEAC held on 7/8-12/2015
9. Minutes of the meeting of 52nd SEAC held on 8/9-02/2016
10. Minutes of the meeting of 51st SEIAA held on 29/3/2016
11. Minutes of the meeting of 56th SEAC held on 6/7-06/2016
12. Minutes of the meeting of 60th SEAC held on 28/29-07/2016
13. Minutes of the meeting of 62nd SEAC held on 06/07-9/2016
14. Minutes of the meeting of 63rd SEAC held on 4/10/2016
15. Minutes of the meeting of 64th SEAC held on 16/17-11/2016
16. Minutes of the meeting of 62nd SEIAA held on 23/12/2016

Environmental Clearance No 29/2017

Sri. P. V. Suresh Kumar, Director of M/s Travancore Blue Metal Industries (P) Ltd., vide his application received on 08-11-2013, has sought Environmental Clearance under EIA Notification, 2006 for the proposed mining project in Sy. Nos. 229/1, 229/13, 229/9, 229/9-1, 234/10, 234/11, 234/3, 234/4, 234/5, 234/6, 234/8-2, 234/9-1, 238/12, 238/13-2, 238/16-2,

1

Copy of Environmental Clearance

M/s Travancore Blue Metal Industries (P) Ltd.

Compliance report

Annexure No. 5

अनुज्ञप्ति प्ररूप एल. ई.-3 | LICENCE FORM LE-3
(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक :
Licence to possess : (c) for use, explosives of class 1, 2, 3, 4, 5, 6 or 7 in a magazine

अनुज्ञप्ति सं. (Licence No.) : E/SC/KL/22/1215(E58077)
वार्षिक फीस रूप (Annual Fee Rs): 2400/-

1. Licence is hereby granted to
Shri.M/S Suresh Kumar.P.V. (अधिभोगी / Occupier : Shri Suresh Kumar.P.V.), Director, Travancore Blue Metal Industries Pvt Ltd Thekkemala-Mylom, Cheriyaconni Post, Thiruvannathapuram District-695013, Kerala., Town/Village Cheriyaconni, District-THIRUVANANTHAPURAM, State-Kerala, Pincode - 695013

को अनुज्ञप्ति अन्दत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रास्थिति | Status of licensee : **Individual**

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।
Licence is valid only for the following purpose. : possess for use of **Nitrate Mixture, Electric and/or Ordinary Detonators, Safety Fuse,** - के उपयोग के लिए

4. अनुज्ञप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।
Licence is valid for the following kinds and quantity of explosives: -- (क) (a)

क्र. सं. (Sr. No.)	नाम और विवरण (Name and Description)	वर्ग और प्रभाग (Class & Division)	उप-प्रभाग (Sub-division)	मात्रा किसी एक समय में (Quantity at any one time)
1.	Nitrate Mixture	2,0	0	150 Kg.
2.	Electric and/or Ordinary Detonators	6,3	0	5000 Nos.
3.	Safety Fuse	6,1	0	2000 Mtrs

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए] : 20 times as above.
(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)] :

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्त परिसर की पुष्टि होती है।
The licensed premises shall conform to the following drawing(s) : रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1215(E58077)
दिनांक (Dated) 29/04/2011

6. अनुज्ञप्त परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:
Survey No. 245/6-2, Block 41, ग्राम (Town/Village) : **Aruvikkara village, Nedumangad Taluk, Thiruvannanthapuram District, Kerala**
जिला (District) : **THIRUVANANTHAPURAM** राज्य (State) : **Kerala** पुलिस थाना (Police Station) : **Nedumangad**
दूरभाष (Phone) : **09447178279** ई.मेल (E-Mail) : **Kerala** पिनकोड (Pincode) : **695013**
फैक्स (Fax) :

7. अनुज्ञप्त परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।
The licensed premises consist of following facilities. : **D(110) and E(172) and E(854) type portable magazine (Mfd by Thekkans Engg and Fabrication Works, Ernakulam) total three portable magazine after this amendment**

8. अनुज्ञप्त समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

- उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)।
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
- अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तें और अतिरिक्त शर्तें।
Conditions and Additional Conditions of this licence signed by the licensing authority.
- दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख 31 मार्च 2016 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2016.
यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहाँ वह लागू हो।
This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 29/04/2011

Sd-
संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :
• Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 13/01/2012
• Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 12/06/2013
• Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 02/01/2014

नवीनीकरण के पृष्ठानक के लिए स्थान
Space for Endorsement of Renewal


नवीकरण की तारीख (Date of Renewal)	समाप्ति की तारीख (Date of Expiry)	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प (Signature of licensing authority and stamp)
16/03/2016	31/03/2021	Dy. Chief Controller of Explosives, Ernakulam कुल. उप. मुख्य विस्फोटक नियंत्रक For Deputy Chief Controller of Explosives

Copy of Explosive

M/s Travancore Blue Metal Industries (P) Ltd.

Compliance report


Annexure No. 6



ലൈസൻസ് നമ്പർ A4-08/2017-18 തീയതി 05.04.2017
ശാരദവികാശ ഗ്രാമ പഞ്ചായത്തിൽ നിന്നും
 1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ
 വകുപ്പുകളും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു നൽകുന്ന

ഡി & ഒ ലൈസൻസ്

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	പി.വി. സുരേഷ്കുമാർ, ഡബ്ബൽടർ, ട്രേൻജർ ബ്ലോക്ക് ഇൻഡസ്ട്രീസ് (ഐ.ഡി.) ചെറിയ കൊള്ളി. P.O	
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	ട്രേൻജർ ബ്ലോക്ക് ഇൻഡസ്ട്രീസ് (ഐ.ഡി.) ചെറിയ കൊള്ളി.	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	ചാരച്ചാരി നടത്തുന്നതിന്.	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡു നമ്പരും	സർവ്വേ നം. 245/9, 245/11, 293/7, 294/1, 294/3, 294/18, 245/7, 241/3.	
ലൈസൻസ് കാലയളവ്	05.04.2017 മുതൽ 31.03.2018 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	4000/- രൂപ	രസീത് നമ്പർ <u>117040100089</u> 05-04-2017
ലൈസൻസ് അനുവദിക്കു നതിനായി ഹാജരാക്കിയ നിരീക്ഷണ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽ കിയ അധികാരസ്ഥാനം)	Kerala State Pollution Control Board Integrated Consent to Operate - Renewal 1. PCB/TVM- DO/ICO(CR) QRY /133/2017 dH 3.4.17 2. PCB/TVM- DO/ICO(CR) QRY /134/2017 dH 3.4.17 3. PCB/TVM- DO/ICO(CR) QRY /135/2017 dH 3.4.17 Valid up to 31.03.2019.	



ശാരദവികാശ ഗ്രാമ പഞ്ചായത്ത്

എസ്. സുനിമോഹൻ
 സെക്രട്ടറി
 അറ്റൻഷൻ ഗ്രാമ പഞ്ചായത്ത്
 ശാരദവികാശ പി.ഒ., തിരുവനന്തപുരം ജില്ല, കേരള, ഇന്ത്യ
 ഫോൺ: 6995364; ഫാക്സ്: 6992215; 6992216; 6992217; 6992218; 6992219; 6992220; 6992221; 6992222; 6992223; 6992224; 6992225; 6992226; 6992227; 6992228; 6992229; 6992230; 6992231; 6992232; 6992233; 6992234; 6992235; 6992236; 6992237; 6992238; 6992239; 6992240; 6992241; 6992242; 6992243; 6992244; 6992245; 6992246; 6992247; 6992248; 6992249; 6992250; 6992251; 6992252; 6992253; 6992254; 6992255; 6992256; 6992257; 6992258; 6992259; 6992260; 6992261; 6992262; 6992263; 6992264; 6992265; 6992266; 6992267; 6992268; 6992269; 6992270; 6992271; 6992272; 6992273; 6992274; 6992275; 6992276; 6992277; 6992278; 6992279; 6992280; 6992281; 6992282; 6992283; 6992284; 6992285; 6992286; 6992287; 6992288; 6992289; 6992290; 6992291; 6992292; 6992293; 6992294; 6992295; 6992296; 6992297; 6992298; 6992299; 6992300; 6992301; 6992302; 6992303; 6992304; 6992305; 6992306; 6992307; 6992308; 6992309; 6992310; 6992311; 6992312; 6992313; 6992314; 6992315; 6992316; 6992317; 6992318; 6992319; 6992320; 6992321; 6992322; 6992323; 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Compliance report

Annexure No.8

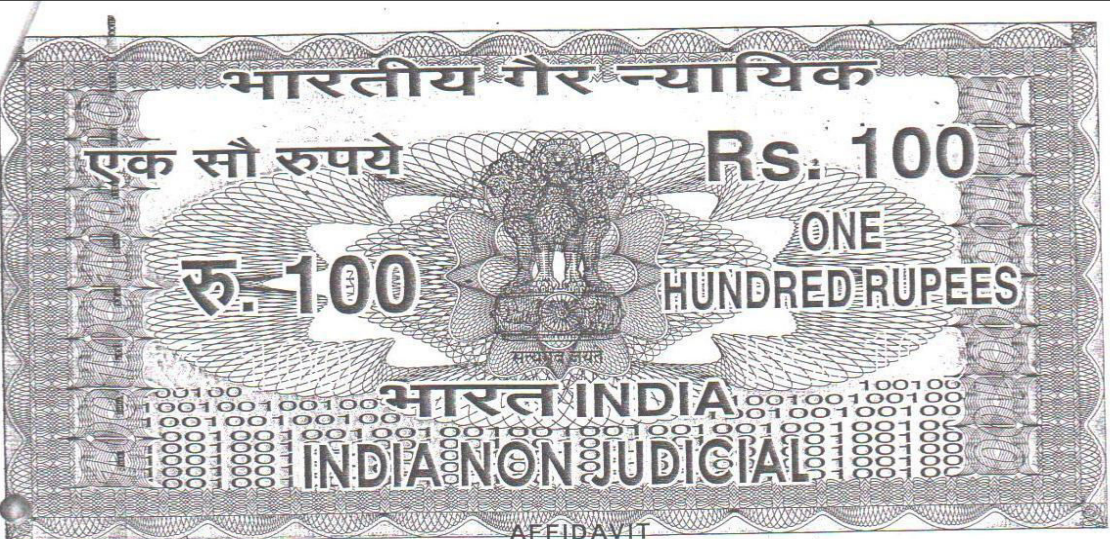
Aruvikkara Grama Panchayat A9363559	
Aruvikkara, Phone:04722888225	
ACKNOWLEDGEMENT (Not for Cash Transactions)	
ward No	3607
Year	2017
Date of Receipt	16/05/2017
Name of Applicant	suresh kumar p.v. arv
Subject	travancore blue metal
Date of Delivery	
Section	A4
Remarks :	
Counter No. & Staff :	16/05/2017 12:46:27PM
	Secretary

KREWS (GLM, KANJIKODE) 2014
Cheques are subject to realisation

Acknowledgment from Gram Panchayat

Compliance report

Annexure No.9



കേരളം KERALA Kumar, authorized signatory of M/s Travancore Blue Metal Industries Private Limited having its correspondence office at Kadambahad, Cheriyakonni P.O., Trivandrum - 695013, Kerala do hereby affirm and confirm as follows:-

1. That, M/s Travancore Blue Metal Industries Private Limited propose to develop a quarry project at Sy.Nos.229/1, 229/13, 229/9, 229/9-1, 234/10, 234/11, 234/3, 234/4, 234/5, 234/6, 234/8-2, 234/9-1, 238/12, 238/13-2, 238/16-2, 238/17-2, 240/7, 240/7-1, 240/7-2, 240/8, 240/9, 240/10, 240/11, 241/1-1, 241/1-2, 241/2, 241/4, 241/5, 241/6, 241/7, 241/8, 241/8-1, 241/9-1, 241/10, 241/12-16, 241/12-17, 241/12-2, 241/13-1, 241/18, 242/1, 242/2, 242/4-2, 242/4-3, 242/5, 242/6, 242/7, 242/8, 245/4, 245/5, 245/6, 245/6-1, 245/6-2, 245/6-3, 245/6-4, 231/1, 241/3, 245/7, 245/9, 245/11, 293/7, 294/1, 294/3, 294/18 at Aruvikkara Village, Aruvikkara Panchayat, Nedumangad Taluk, Thiruvananthapuram District, Kerala.

2. That, the Environment Clearance proceedings number and date are Order No.152/SEIAA/KL/3072/2013 dt. 31/03/2017.

3. That, all the conditions stipulated in the Environment Clearance would be scrupulously followed.

DEPONENT

Verification :
Verified that my above statements are true to the best of my knowledge and belief and nothing material has been concealed therein.

Place: Thiruvananthapuram
Date: 15/05/2017
15/5/17 P.V. Suresh Kumar
Director Travancore

NOTARY
SUREENDAR V.P. B.A. LL.B.
ADVOCATE & NOTARY
Roll No. 15711 of 1999
VANDIYAPATTI

M/s Travancore Blue Metal Industries (P) Ltd.

Compliance report

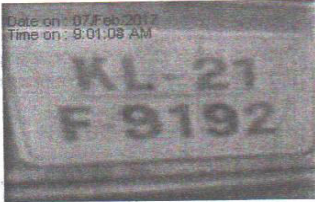
Copy of Affidavit

Annexure No.10

POLLUTION UNDER CONTROL CERTIFICATE
Under Rule 115(7) of CMV Rules 1989

Registration No	KL21 F 9192	Serial No.	D201721973
Date of Testing	07/Feb/2017	Time	9:01 AM
Engine No	HGV	Year of Manufacture	2012
Make	TATA	Speedometer Reading	-
Class of Vehicle	6W	Fuel	DIESEL

S.No	First in Cycle		Temp.		HSU %	Temp.
	Avg. RPM	RPM Max.	1704	91		
1	627	1764	1.68	51.5	91	
2	646	1754	1.26	42.0	91	
3	632	1812	0.84	30.4	91	
4	640	1704	1.47	47.0	91	
5	640	1898	1.41	45.5	91	
6	643	1910	1.35	44.1	91	
7	643	1796	1.25	41.7	91	
8	652	1812	1.32	43.4	91	
Mean		Pass	1.33	43.7		



Date on: 07/Feb/2017
Time on: 9:01:08 AM

Certified that this Vehicle's HSU Emission Level Conforms to the standards prescribed under Rule 115(2) of CMV Rules 1989. **This Certificate is valid Upto**

V.R. POLLUTION TESTING CENTRE
11th Stone, Near LIC Office, Nedumangad,
TVM., Kerala, Ph : 0472 - 2803540
Licence No : D1 / 1/ 2000

06/Aug/2017

(Signature)
(Name of Authorised signatory)

Copy of PUC Certificate

Compliance report

Annexure No.11



TEST REPORT

Test Report No: SEAAL/1807/EN/R234	Date: 04.08.2018	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	M/s Travancore Bluemetal Industries Pvt Ltd Kadambad, CheriyaKonni Thiruvananthapuram District
	Survey No	231/1,241/3,245/7,245/9,245/11,293/7,294/1 294/3,294/18
	Village	Aruvikkara
	Taluk	Nedumgad
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	Test Request Form Dated 30.07.2018	

SAMPLE DETAILS	
Source of sample	Ambient Sound Level
Sample Code	SEAAL/1807/EN/S234
Location of Monitoring	Near East side Boundary
Date of Monitoring	30.07.2018

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	36.5 dB (A)	23.00 Hrs	33.4 dB (A)
07.00 Hrs	39.1 dB (A)	00.00 Hrs	35.8 dB (A)
08.00 Hrs	43.2 dB (A)	01.00 Hrs	36.5 dB (A)
09.00 Hrs	46.6 dB (A)	02.00 Hrs	36.1 dB (A)
10.00 Hrs	48.9 dB (A)	03.00 Hrs	36.8 dB (A)
11.00 Hrs	51.9 dB (A)	04.00 Hrs	35.8 dB (A)
12.00 Hrs	49.3 dB (A)	05.00 Hrs	37.5 dB (A)
13.00 Hrs	48.5 dB (A)	RESULTS	
14.00 Hrs	48.9 dB (A)		
15.00 Hrs	49.3 dB (A)	Noise Level (Leq) Daytime	47.4 dB (A)
16.00 Hrs	50.4 dB (A)		
17.00 Hrs	50.8 dB (A)		
18.00 Hrs	45.5 dB (A)		
19.00 Hrs	42.1 dB (A)	Noise Level (Leq) Nighttime	36.1 dB (A)
20.00 Hrs	38.4 dB (A)		
21.00 Hrs	37.9 dB (A)		
22.00 Hrs	35.3 dB (A)		

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Laju P. N.
Laboratory Head

(Signature)
Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except-in full, without the written approval of the laboratory.

Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2005 & "A" Grade laboratory of KSPCB
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com, info@sealabs.in

M/s Travancore Blue Metal Industries (P) Ltd.

Compliance report

Result of Noise

Annexure No.12



TEST REPORT

Test Report No: SEAAL/1807/EN/R231	Date: 04.08.2018	Page 1 of 1
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CUSTOMER DETAILS

Customer Details	Name & Address	M/s Travancore Bluemetal Industries Pvt Ltd Kadambad, Cheriyaconni Thiruvananthapuram District
	Survey No	231/1,241/3,245/7,245/9,245/11,293/7,294/1 294/3,294/18
	Village	Aruvikkara
	Taluk	Nedumgad
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	Test Request form dated 30.07.2018	

SAMPLE DETAILS

Source of Sample	Ambient Air	Sample Code	SEAAL/1807/EN/S231
Location of Monitoring	Near East Side Boundary	Sampled By	By Laboratory
Date of Monitoring	30.07.2018	Test Started On	01.08.2018
Sample Received On	31.07.2018	Test Completed On	02.08.2018
Humidity	70 %	Sampling Procedure	IS 5182 Part V & XIV

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2012	µg/m ³	49.6	100
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	21.2	60.0
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2012	µg/m ³	< 2.00	80.0
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2012	µg/m ³	< 2.00	80.0

End of Report

For and on behalf of
Standard^s Environmental & Analytical Laboratories

Authorized Signatory

Laju P. N.
Laboratory Head

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K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com, info@sealabs.in

M/s Travancore Blue Metal Industries (P) Ltd.

Compliance report

Result of Air

Annexure No.13



TEST REPORT



Test Report No: SEAL/1807/WA/R232	Date: 04.08.2018	Page 1 of 1
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CUSTOMER DETAILS

Customer Details	Name & Address	M/s Travancore Bluemetal Industries Pvt Ltd Kadambad, Cheriyaconni Thiruvananthapuram District
	Survey No	231/1,241/3,245/7,245/9,245/11,293/7,294/1 294/3,294/18
	Village	Aruvikkara
	Taluk	Nedumgad
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	Test Request Form dated 30.07.2018	

SAMPLE DETAILS

Sample Code	SEAL/1807/WA/S232	Sample Received On	3107.2018
Sample Name	Water	Sampling Procedure	---
Sample Description	Open Well	Sampling Location	North East Side
Identification By Customer	---	Sample Condition	Good
Sampled On	---	Test Started On	01.08.2018
Sampled By	Laboratory	Test Completed On	04.08.2018

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2012	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:1983 RA 2012	---	Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 10:1984 RA 2012	NTU	0.30	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2012	---	6.66	6.50 - 8.50
05	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2012	mg/L	49.0	500 (Max)
06	Total Hardness (as CaCO ₃)	IS 3025 Part 21:2009 RA 2014	mg/L	9.90	200 (Max)
07	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2014	mg/L	2.38	75.0 (Max)
08	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2014	mg/L	< 1.00	30.0 (Max)
09	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	14.9	250 (Max)
10	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23:1986 RA 2014	mg/L	12.1	200 (Max)
11	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.15	1.00 (Max)
12	Sulphate (SO ₄)	IS 3025 Part 24:1986 RA 2014	mg/L	11.0	200 (Max)
13	Total Coliform Bacteria	IS 1622:1981 RA 2014	----	Absent/100 ml	Absent/100 ml
14	E coli	IS 15185: 2016	----	Absent/100 ml	Absent/100 ml

End of Report

For and on behalf of
Standard Environmental & Analytical Laboratories

Vidhyalakshmi Das
Microbiologist

Authorized Signatory

(Signature)
Authorized Signatory

Laiju P. N.
Laboratory Head

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Web: www.sealabs.in, E-mail: sealab@gmail.com, info@sealabs.in

M/s Travancore Blue Metal Industries (P) Ltd.

Compliance report



TEST REPORT



Test Report No: SEAL/1807/WA/R233	Date: 04.08.2018	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Travancore Bluemetal Industries Pvt Ltd Kadambad, CheriyaKonni Thiruvananthapuram District	
	Survey No	231/1,241/3,245/7,245/9,245/11,293/7,294/1 294/3,294/18	
	Village	Aruvikkara	
	Taluk	Nedumgad	
	District	Thiruvananthapuram	
	State	Kerala	
Customer Reference	Test Request Form dated 30.07.2018		
SAMPLE DETAILS			
Sample Code	SEAL/1807/WA/S233	Sample Received On	31.07.2018
Sample Name	Water	Sampling Procedure	---
Sample Description	Quarry Water	Sampling Location	---
Identification By Customer	---	Sample Condition	Good
Sampled On	---	Test Started On	01.08.2018
Sampled By	Laboratory	Test Completed On	03.08.2018

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2012	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:1983 RA 2012	---	Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 10:1984 RA 2012	NTU	0.70	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2012	---	6.89	6.50 - 8.50
05	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2012	mg/L	110	500 (Max)
06	Total Hardness (as CaCO ₃)	IS 3025 Part 21:2009 RA 2014	mg/L	31.7	200 (Max)
07	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2014	mg/L	7.92	75.0 (Max)
08	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2014	mg/L	2.89	30.0 (Max)
09	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	21.9	250 (Max)
10	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23:1986 RA 2014	mg/L	24.2	200 (Max)
11	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.21	1.00 (Max)
12	Sulphate (SO ₄)	IS 3025 Part 24:1986 RA 2014	mg/L	32.0	200 (Max)
13	Total Coliform Bacteria	IS 1622:1981 RA 2014	----	Absent/100 ml	Absent/100 ml
14	E coli	IS 15185: 2016	----	Absent/100 ml	Absent/100 ml

End of Report

Vidhyalakshmi Das
Microbiologist

Authorized Signatory

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Authorized Signatory
Laiju P. N.
Laboratory Head

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Compliance report

Result of Water