



Compliance Report

April – September 2017

M/S Travencore Blue Metal industries (P) L
Thiruvananthapuram District
Kerala.



**TRAVANCORE
BLUE METAL
INDUSTRIES (P) LTD.**

Kadambanad, Cheriyaikonni.P.O.
Thiruvananthapuram-695 013
Phone: 0472 2888 080, 2888 050, 2888 030
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Dt. 12-01-2018*

The Additional Principal Chief Conservator of Forests (C)
Ministry of Environment, Forests & Climate Change,
4th Floor, E& F Wing, Kendriya Sadan,
Koramangala, Bangalore - 560034

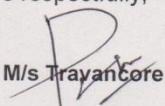
Ref :- File No. 152/SEIAA/KL/3072/2013

**Sub :- Environment Clearance – Quarry project at Village & Panchayat -
Aruvikara, Taluk - Nedumangad, District - Thiruvananthapuram, Kerala – Compliance
Report – First half - Reg.**

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for
12.0836 Ha. by order No. **152/SEIAA/KL/3072/2013** dated 31-03-2017 by State
Environmental Impact Assessment Authority, Kerala. The compliance report of **First half**
(April 2017 – September 2017) to the specific and general conditions of the
Environment Clearance order is enclosed.

Thanking you,
Yours respectfully,

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

**Copy to:-
The Member Secretary
State Environment Impact Assessment Authority (SEIAA),
Thiruvananthapuram, Kerala.**

Encl: - As Above



Customer care number - 8592 800 300 / 8592 900 300



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.

**Building No. VI/67-12, Kainoor Nagar, Kizhakkumpattukara, East fort, Thrissur,
Kerala-680005.**

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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 first half to the specific conditions and general conditions of the Environmental Clearance order for the period of April - September, 2017 is being submitted.

COMPLIANCE REPORT

(SPECIFIC CONDITIONS)

PART A

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

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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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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To collect rain water from the entire mining area, the proponent has developed two rain water harvesting pond in the project area. The storm water flow is leading to the pond through constructed and natural drainages. The stored rain water is using for gardening & agriculture, wetting of roads, and other domestic purposes. The photograph of the pond is attached as **Plate No.1**.

COMPLIANCE REPORT

(GENERAL CONDITIONS)

PART B

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:

To collect rain water from the entire mining area, the proponent has developed two rain water harvesting pond in the project area. The storm water flow is leading to the pond through constructed and natural drainages. The stored rain water is using for gardening & agriculture, wetting of roads, and other domestic purposes. The photograph of the pond is attached as **Plate No.1.**

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

The Environmental Monitoring Cell (EMC) will be formed with Mr. MP Thomas as head of the monitoring cell. The EMC meeting will convene regularly to evaluate and monitor quarrying work in connection with the specific and general conditions stipulated in the Environmental Clearance (EC) order.

Table 1 - Environmental Monitoring Cell (EMC)

Sl. No.	Post	Name
1.	Head of monitoring cell (proprietor)	Biju vargheses
2.	Member	Saifudheen P Y
3.	Member	Vijayakumar K
4.	Member	Environmental Engineers and consultants Pvt. Ltd.

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:

To reduce air and noise pollution, the project proponent has planted various avenue trees along either side of the road. There is 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. 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:

As part of energy conservation, the project will generate and utilize energy from solar by installing solar lights in the project site.

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

To prevent dust emissions from the road while transportation of materials, the project does splashes the haulage road and critical areas with the help of vehicles in regular intervals.

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

Eco restoration is 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 project is intending to 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 has executed many activities under Corporate Social Responsibility of the firm. The main activities were under the sectors of health, education, housing etc. The details of the CSR activity are provided at **Annexure No.2**. The details of activities under CSR is given below in the table.

Table No.2 – CSR Details

Sectors	Activities	Partners	Beneficiaries	Amount spent in Rs.
Health	Donation		Surendran vattiyoorkav	1,000
	Donation		Babu kadambanad	500
	Donation		Ratheesh kumar,vellanad	7,000

	Donation		Velappan Rajajinagar	500
	Donation		Shafarunisa,Kulathara	2,000
	Donation		Sasi Aryanadu	500
	Donation		Joy Moozinada	1,300
	Donation		Rajendran, Punalal	2,000
	Donation		Vincent Punalal	2,500
	Donation		Leela Aruvikkara	700
	Donation		Suresh Kumar	500
	Donation		Manoharan Pilla Mulayira	500
	Donation		Vasandi	2,000
	Donation		Sreedevi Aruvikkara	500
	Donation		Maryangel,Valiyathura	500
	Donation		Nancy,Cancer Patient	5,000
	Donation		Visambaran	1,000
	Donation		Ani Odanavattam	1,000
	Donation		Mohanan Mailam	1,000
	Donation		Balamma Cancer patient	500
	Donation		Chandran Chiryinkeezu	2,000
	Donation		Raju Kadambanad	900
	Donation		Suleha Aryanadu	500
	Donation		Sureshkumar Kuthirakalam	500
	Donation		Santha Cherukode	500
	Donation		Augustine Aruvikkara,Cancer Patient	1,000
	Donation		Rajan Cheriyakonni,Hand patient	1,300
	Donation		Sukumaran Nair, Kadambanadu	1,200
	Donation		Soman Kachani	1,650
	Donation		Sadanandan Pachamala, Eye Patient	1,200
	Donation		Jessi, Vellanadu	1,400

	Donation		Chandran Mulayara,Kidney patient	1,300
	Donation		Radakrishnan Cheriyakonni	2,600
	Donation		Barathan,Karakulam	1,100
	Donation		Robinson Mulayara,Leg Patient	1,000
	Donation		Thankappan,kalliyoor	950
	Donation		Babu, Peroorkada	1,000
	Donation		Rajan Mailom	700
	Donation	Kudumba Sahayanidi	Santhosh	1,000
Arts	Donation	Onam Kit	Community	84,441
Environmental	Donation	Paristhithi Bodavalkarana Charitable Samidi	Public	500
Social	Donation	Unnikrishnan smaraka Charitable Society, Vellanadu	Asryam Lalkrishnan	2,000
	Donation	Chaidaniya Charitable Society, Mailamoodu		3,000
	Donation	Nanma Charitable trust, Pathnapuram	Santhi Theeram	500
	Donation	Marraige	Priyakumar	3,000
			Total	1,45,892

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:

To prevent falling of animals/human being/dumping of garbage etc, the project installed fencing around the area where Environmental Clearance obtained. The complete installation of barbed metal wire fencing around the mining area with height of 5 ft will be completed.

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:

As per the stipulation of Explosive department, the project has installed warning alarm in the quarry site. This alarm can intimate the general public that the blasting is going to happen. .

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.

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

Quarrying activities are limited to day time only 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.	Being complied
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Compliance:

The blasting will be done in controlled manner by using ordinary delayed detonators. All blasting activities will carried out under the supervision of qualified persons with the specified regulations of explosive department.

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

The project has appointed mining mates, who supervise/control the blasting operations for the exploitation of minor minerals from the project site. **Annexure No. 3** 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, the project has tarred the access road of 550 meters to the quarry site. The project sprays 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.	Being complied
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Compliance:

The overburden and topsoil need to extract during the time of mining, these natural resources will be 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.

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:

The quarrying will be carried out as per mining plan. To enhance the safety and conserve environment, the project is started to explore the minerals by creating benches. The benches will not exceed 5 meters of height. 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 is using ordinary/electric delayed detonator. The blasting will be under the supervision of qualified person. The new system of blasting can reduce the incident of fly rock. There is no such incident reported in this mine, therefore mats are yet to use.

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

Mining depth will not exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less.

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

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.	Will be complied
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Compliance:

To reduce the impact of sound to the labours in the unit, the project has provided ear plugs. 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, gloves, 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:

The project proponent ensured that all storm water from the mining area is flowing in to the pond created at mining area. The project proponent is intending to create garland drains where it is necessary in the lower slopes of the project area for storm water management. At present the pond is working as a clarifier.

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

The project assure that the loaded trucks are covered to avoid dust emission from the vehicle while transportation of materials.

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 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.	Being complied
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Compliance:

The spend oil will be sold only to the approved recyclers, some time it will be used as lubricant in the project site.

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

Explosives are stored in magazine. The magazine situated in an isolated place specified and approved by the explosives department. The area surrounded to the magazine was 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:

The norms of Kerala State Pollution Control Board regarding the distance criteria of residences, 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.

29	100 m buffer distance should be maintained from forest boundaries.	Not applicable
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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.4**.

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 other concerned statutory authorities are enclosed in **Annexure No.4, 5, 6 & 7**

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
“Consent to Operate” (Renewal)	Kerala State Pollution Control Board	PCB/TVM-DO/ICO/AE2-231/2011
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

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:

There is no change in the scope of the project. At present the project is running as per plan submitted in Environmental Impact Assessment Authority, Govt. of India. 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 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.	Complied
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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.8.**

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:

A copy of the Environment Clearance letter was submitted to the Panchayat Office. The project proponent did not receive any suggestions / representation from anywhere while the processing the proposal therefore did not give the copy of clearance latter to anyone. At present the project does not have a website this will be created soon. The acknowledgment received from the Gram Panchayat is attached as **Annexure No. 9.**

37	The proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions including results of monitored data on their website and shall	Being complied
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	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 report is being submitted to the State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC, Bangalore 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 details of the Environmental Clearance are displayed in the project site. The project proponent has placed the metallic board as specified in the conditions of Environmental Clearance order. The extent of lease area boundary will depict soon.

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.10**.

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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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.

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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The Rain water harvesting pond in the site is working as clarifiers to prevent the quarry waste within the site. 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. The project will constitute a Cell to monitor such commitments to the community.

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 unloading points & transfer point to reduce fugitive emissions.	Will be complied
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The project proponent has monitored the ambient air quality as per National Ambient Air quality Standard (NAQSS). The project is intending to increase the splashing 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°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion	Being complied
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	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.	
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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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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.	Will be complied
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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 unloading 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
-----------	---	-----------------------

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

The main sound generating activities are the playing of jack hammer, breaker, vehicles and blasting operations. The level noise from all these activities will not go beyond 85dBA. 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.	Will be complied
-----------	--	-------------------------

To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project will constitute 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
----	---	-------------------------

The project proponent is intending to execute more activities under Corporate Social Responsibility (CSR) for community development. To implement these activities in a good 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
----	---	--------------

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
----	---	--------------

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 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.	Will be complied
----	---	-------------------------

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
----	--	-------------------------

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	Noted
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	court of law.	
--	----------------------	--

57	The mining operation shall be restricted to above ground water table and is should not intersect ground water table.	Will be complied
-----------	---	-------------------------

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.	Will be complied
-----------	--	-------------------------

As part of reduce air pollution, the project proponent will monitor the pollution level of all vehicles playing in the project site. This monitoring will be conducted only in authorized pollution checking center. Copy PUC certificate is attached as **Annexure No. 11**.

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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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
-----------	--	--------------

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
-----------	---	-------------------------

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

PLATES

Plate No.1



Rain water Harvesting Pond in the project site

Plate No.2



Avenue Trees

Plate No.3



Approach road

ANNEXURE

Annexure No.1

Cash / Credit Bill

Date 13/7/16 Res: 0471-2201900
Cell : 9447045976
EXTN : 04651-245976

ATHMA NILAYAM NURSERY GARDENS

Cheruvarakonam, Parassala-695 502
TVM Dist., South Kerala.
Email : athmanilayamnursery@gmail.com
Website: www.athmanilayam.co

23

Growers and Suppliers of Varieties of Roses, Other flowering plants, Ornamental foliage plants, Indoor Plants, Medicinal Plants, Orchids, Anthuriums, etc.


Sri/Smt. Travancore Blue Metals

S.No	Particulars	Rate	Qty	Total	
				Rs.	Ps.
	Vegetables	16	25	250	0
	Pork	20	5	100	0
	Apples	50	3	150	0
	Guavas	50	3	150	0
	Malihalm	100	2	200	0
	Lemon	40	3	120	0
	Seapods	100	5	500	0
	Mango juve	350	2	700	0
	Lemon	40	1	40	0
	Jack Orange	150	1	150	0
	"	75	5	375	00
	Mango juve	75	3	225	0
	D. Soie	20	10	200	0
	Coconut	250	10	2500	0
	Ashobam	30	25	750	0
				6410	00
	Less			410	00
				6000	00
	<i>(Signature)</i>				
	TOTAL			6000	00

Goods once sold will not be taken back or exchanged.

Bill of plants purchased

Annexure No.2



ഇന്ത്യൻ ബാങ്ക്
Indian Bank

Branch: ARUVIKKARA SHOPPING CENTRE ARUVIKKARA, THIRUVANANTHAPURAM, KERALA - 695564
IFSC CODE: IDIB000A070

VALID FOR THREE MONTHS ONLY
16 05 2017
D D M M Y Y Y Y

PAY **CHAITHANYA CHARITABLE SOCIETY** या धारक की OR BEARER

RUPEES रुपये **Three Thousand Only**

अदा करे ₹ **3000 / 2**

खा.सं.
A/c No. **CA 6115067532**

FOR TRAVANCORE BLUE METAL INDUSTRIES (P) LTD

CBS Code: 998 *
"Payable At Par At All Our Branches"

SM
AUTHORISED SIGNATORY
Please sign above

992000001

⑈848578⑈ 695019081⑆ 067532⑈ 29

ചൈതന്യ ചാരിറ്റബിൾ സൊസൈറ്റി

രജി.നമ്പർ റി.സി. / 1262/2015
വാഴവിലു.മുനിവാതുക്കൽ, മൈലമുട്

നമ്പർ **152** തീയതി **13.5.2017**

പ്രവർത്തന ഫണ്ട്

ശ്രീ/ശ്രീമതി **Travancore Blue Metals**
Aruvikkara

പക്കൽ നിന്നും **Three Thousand Only**

തുടക്കം നമ്പർ 1000 കൈപ്പറ്റിയിരിക്കുന്നു.

SM
സെക്രട്ടറി (ട്രഷറർ)

വെറുപ്പം	രൂപ.
പ്രവർത്തന ഫണ്ട്	3000
അംഗത്വഫീസ്	/
മറ്റിനം	/
ആകെ	3000 -

GSTIN: 32AXMPM884701

PAN: AXMPM88470

AMINA STORES

AMINA TOWER, AMBALAMUKKU, TRIVANDRUM

Phone : 0471-2439859,94461 73886,2434169

GST Rules 2017

TAX INVOICE [B2B] CATEGORY - CASH

TO: TRAVANCORE BLUE METTALS INDUSTRIES

Quatruplicate

KADAMBANAADU, CHERIYAKONNI P O,

NO : 1957

Phone: 8086830830

DATE: 24/08/2017

Sl No	HSN Code	Commodity/Item	GST %	Price	Qty	Weight	Disc Amt	Net Amt	GST Amt	Total	
1		RICE MATTA		38.00	500.000	500.00	0.00	19000.00		19000.00	
2	0904	EASTERN CHILLY POWDER250	5.00	144.76	25.000	6.25	0.00	3619.05	180.95	3800.00	
3	0909	EASTERN CORIANDER 250GM	5.00	144.76	25.000	6.25	0.00	3619.05	180.95	3800.00	
4	0713	ANJALI TOORDAL 500GM	5.00	72.38	50.000	25.00	0.00	3619.05	180.95	3800.00	
5	0713	L PAYAR		80.00	50.000	50.00	0.00	4000.00		4000.00	
6		ONION SMALL		100.00	50.000	50.00	0.00	5000.00		5000.00	
7		L SAMBAR PARIPPU		46.00	50.000	50.00	0.00	2300.00		2300.00	
8	1512	JAGGERY(L)		66.00	50.000	50.00	0.00	3300.00		3300.00	
9		FENUGREEK 100 GM		10.00	100.000	10.00	0.00	1000.00		1000.00	
10	09099912	CUNINSEED100GM	5.00	26.66	100.000	10.00	0.00	2666.70	133.33	2800.03	
11	1207	MUSTARD LOOSE	5.00	95.23	10.000	10.00	0.00	952.38	47.62	1000.00	
12	07032000	GARLIC LOOSE		100.00	10.000	10.00	0.00	1000.00		1000.00	
13	0910	EASTERN TURMERIC 1.KG	5.00	152.38	10.000	10.00	0.00	1523.81	76.19	1600.00	
14	9013	L.G KAYAM 50.G	5.00	58.09	100.000	5.00	0.00	5809.50	290.47	6099.97	
15	0902	AVT PREMIUM 100 G	5.00	238.09	10.000	1.00	0.00	2380.95	119.04	2499.99	
16	04059020	MILKY MIST 100ML	12.00	55.35	100.000	10.00	0.00	5535.70	664.28	6199.98	
17	1902000	KV ADA 250 GMS	5.00	17.14	100.000	25.00	0.00	1714.30	85.71	1800.01	
18		PAYASAM MIX		15.00	300.000	105.00	0.00	4500.00		4500.00	
19	15131100	KERA DROPS 500ML	5.00	76.19	100.000	50.00	0.00	7619.00	380.95	7999.95	
20		LP PARPPADAM		10.00	100.000	100.00	0.00	1000.00		1000.00	
21	25010010	SPRINKLE SALT POWDER		10.00	100.000	0.00	0.00	1000.00		1000.00	
			Round Off		Total	1940.000	1083.50	0.00	81159.49	2340.47	83499.96
			0.03								

Sales 0%	Taxable Sales	2.5%	6%	9%	14%	Grand Total:	83,500.00
CGST	0.00	0.00	0.00	0.00	0.00		
SGST	0.00	0.00	0.00	0.00	0.00		

In Words: Rupees eighty three thousand five hundred Only

Authorised Signatory

CSR activities

Annexure No.3.

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

मू०खानां० 1228 R
C.L.M. 1228 R

खान अधिनियम, १९५२
THE MINE'S ACT, 1952

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

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

श्री..... पुत्र.....
(निवासी) गांव..... थाना.....
खिला..... राज्य.....
जन्म तारीख..... ने अपनी आयु, स्वस्थता, सदाचार, साक्षरता और अनुभव का संतोषजनक प्रमाण दे दिया है और ता..... को पर दृढ़ मौखिक परीक्षा पास कर ली है इसे घात्वीय खान विनियम, 1961 के अधीन उन घात्वीय 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 CHAFDA Thana BINKA
District SONEPUR State ORISSA
born on 15/12/1957 (SIXTY SEVEN) Son of RACHUMANI 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 28/9/19 99


सध्यक्ष
खनन परीक्षा बोर्ड
Chairman,
Board of Mining Examinations.

श्री..... की परीक्षा की गई और उसे ब.....
श्री..... को परीक्षा की गई और उसे ब.....
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 28-02-2006 ता०को
2. On 12-03-2012 ता०को
3. On ता०को
4. On ता०को
5. On खान सुरक्षा निदेशक ता०को
6. On Director of Mines Safety Bhubaneswar ता०को

Certificate of Mining mate

Annexure No.4



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, Cheriyaconni 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

Annexure No.5



Validity expires on 30/03/2022

सत्यमेव जयते

**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 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

Annexure No. 6

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 रूपर (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, CheriyaKonni Post, Thiruvannathapuram District-695013, Kerala., Town/Village CheriyaKonni. District-THIRUVANANTHAPURAM, State-Kerala, Pincode - 695013

को अनुज्ञप्ति अनुदत्त 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]
(b) Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] : **20 times as above.**

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

7. अनुज्ञप्ति 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. अनुज्ञप्ति 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 शर्तों और अतिरिक्त शर्तों।
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 अधिग्रहण करने या यदि अनुज्ञप्ति परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां 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

नवीनीकरण 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


Annexure No. 7




ലൈസൻസ് നമ്പർ A4-08/2017-18 തീയതി 05.04.2017
അരുവിക്കര ഗ്രാമ പഞ്ചായത്തിൽ നിന്നും
 1994 ലെ കേരളം 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, ചാലറുടൻ, ത്രേമ്പൂർ ബ്ലോക്ക് ഇൻഡസ്ട്രീൽ (അലി) ട്രിപ്പിൾ കോണി. P.O	
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	ത്രേമ്പൂർ ബ്ലോക്ക് ഇൻഡസ്ട്രീൽ (അലി) ട്രിപ്പിൾ കോണി.	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	ചാറച്ചാരി 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	
ഇടാക്കിയ ലൈസൻസ് ഫീസ്	4000/- രൂപ	രസീത് നമ്പർ 117040100089 05-04-2017
	Kerala State Pollution Control Board Integrated Consent to Operate - Renewal 1. PCB/TVM- DO/ICOCR) QRY /133/2017 dH 3.4.17 2. PCB/TVM- DO/ICOCR) QRY /134/2017 dH 3.4.17 3. PCB/TVM- DO/ICOCR) QRY /135/2017 dH 3.4.17 Valid up to 31.03.2019.	



അരുവിക്കര ഗ്രാമ പഞ്ചായത്ത്



എസ്. സുനിമോൻ
 സെക്രട്ടറി
 അരുവിക്കര ഗ്രാമ പഞ്ചായത്ത്
 വി.കെ.പി.ഒ, തിരുവനന്തപുരം ജില്ല, കേരള, ഇന്ത്യ
 ഫോൺ - 695 364; ഫോൺ - 695 2182; ഫാക്സ് - 695 691

Copy of license from Gram Panchayat

Annexure No.8

man & managing director of Ananthapuri Hospitals, A. Sivakumar, O. Divakaran and O. Rajagopal and chairman mittee K. Sreekumar attended. had come to visit the er's ancestral home at Balaramapuram here.

Annexure-2

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PUBLIC NOTICES

NOTICE

This is to inform to the General Public that, a quarry project at Survey 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 of M/s Travancore Blue Metal Industries Private Limited at Aruvikkara Village, Aruvikkara Panchayat, Nedumangad Taluk, Thiruvananthapuram District, Kerala is accorded with ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority, Kerala vide Order No. 152/SEIAA/KL/3072/2013 dt. 31/03/2017 and the copy of the Environmental Clearance is available with the office of State Environment Impact Assessment Authority and may also be seen on the website of the Authority at www.seiaakerala.org

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ADMISSIONS STARTED

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Prelims Cum Mains Batch - 2018 (Weekend) - (COMMENCES ON 22nd APRIL)
Mains Batch (Paper I, II, III, IV) - 2017 (Regular) - (COMMENCES ON 24th JUNE)
History Optional (Regular) - (COMMENCES ON 31st JUNE)

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PUBLIC NOTICES

NOTICE

THUSHARA MARIA, PuraVady Grace Bhavan, Vazhappally West P.O., Changanacherry, Kottayam has applied for a Housing Loan at LIC Housing Finance Ltd. Kottayam for purchase the property 03.24 Ares from 04.10 Ares in Re Sy.No. 91 of Changanacherry village owned by Smitha Sebin, Thengumpallyil, Puzhavathu, Changanacherry. Title holder states that original Prior Deed No. 314/05 of Changanacherry SRO regarding the property had been lost irrecoverably. If anybody has objection in this regard, inform within 15 days from of this day.

MARRIAGE ARRANGEMENTS

WEDDING CARDS & Printing Valavi & Company Broadway, Ekm. Ph.2353765.

TENDERS

Avinashilingam
Institute for Home Science and Higher Education for Women
University
(Established by UGC Act 1956)
Cochin - 681 043, Tamil Nadu, India.
(Deemed University under Category 'A' by MHRD)
Re-accredited with 'A' Grade by NAAC

TENDER NOTIFICATION

Tenders are invited under sealed cover from manufacturer/authorized firms for the procurement and installation of FE SEM. The tender document can be obtained from the office on all working days from 12.5.17 to 31.5.17 on payment of Rs.15600/- (including taxes) by demand draft drawn in favour of The Registrar, Avinashilingam Institute for Home Science and Higher Education for Women, Cochin-681043, payable at

AUTOMOTIVE

WANTED USED Cars. Spot payment, any make any model. 9846017372

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TENDERS

भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

E-TENDER NOTICE

Asst. General Manager (E-E), Airports Authority of India, Trichy Airport, invites item rate E-tender on behalf of Chairman, AAI for the work of "SITC of Split type Air-conditioning units for various locations at Trichy Airport" (E-bid ref.no. AAI/TR/CW-02/17-18) an estimated cost of Rs. 21.05 lakhs. Period of completion: Three

OFFICE EQUIPMENT

ID CARD, Lace, Laminators, Paper Shredders. Valavi. Ph.2353765

THANKSGIVING

Thank You Lord Jesus for blessings showered. Sridharan & family.

TENDERS

भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

e-Tender Notice

Airports Authority of India invites item rate e-Tender for the work of "Providing flooring in front of Glide Path Antenna for Runway 07 at Chennai Airport." at an estimated cost of Rs.30,57,860/- with a completion period of 03 (Three) Months. Tender Fee shall be paid upto 17.30 hrs on 23.05.2017. Last date of submission of e-bid through e-portal is upto 17.30 hours on 23.05.2017. For detailed information log on to website

KERALA KHADI AND VILLAGE INDUSTRIES BOARD
THIRUVANANTHAPURAM - 35.
 P.O. KB. 5316/16/ENGG Tel: 0471 - 2472896

NOTICE INVITING TENDERS

The Secretary, Kerala Khadi and Village Industries Board, Thiruvananthapuram sites sealed tenders for the construction of Public Works Department or the Government Departments with current valid registrations for the following work.

Time of work : The work of construction of retaining wall of departmental production unit at Perayam, Trivandrum District.

Estimate : 324384.00

MD : 8200.00

Time of completion : 90 days

Rate of tender schedule : 650 + VAT 5%

The earnest money deposit in the form of Fixed Deposit pledged in favour of the Secretary, Kerala Khadi and Village Industries Board and payable to Thiruvananthapuram, attested copy of license and preliminary agreement should be attached along with the filled up sealed tenders.

The last date of receipt of tenders at the District Khadi and Village Industries Office, Thiruvananthapuram is on 22.05.2017 at 3.00 p.m. The tenders received will be opened at 3 p.m on 23.05.2017 at the Board's Head Office, Thiruvananthapuram in presence of the contractors present. The sale of tenders schedule closes at 12.00 Noon on 22.05.2017.

The Secretary, Kerala Khadi and Village Industries Board reserves the full right to reject any or all the tenders without assigning any reason. The relevant rules existing in Kerala Public Works Department is applicable to the work.

Sd/ SECRETARY

TRAVANCORE BLUE METAL INDUSTRIES (P) LTD.
 Kadambanad, Charlyakomni P.O., Thiruvananthapuram - 695013.
 Phone : 0472 - 2888080, 2888050, 2888030.
 E-mail: travancorebluemetal@gmail.com

നോട്ടീസ്

പൊതുജനശ്രദ്ധയ്ക്കായി, കേരള സംസ്ഥാനം, തിരുവനന്തപുരം ജില്ലാ ഭരണകൂടങ്ങൾ താഴെപ്പറയുന്ന പദ്ധതികൾക്ക് അനുബന്ധിച്ചും അനുബന്ധിച്ചും വിവിധ പദ്ധതികൾക്ക് സർവ്വതന്ത്രമായി 231/1, 241/3, 245/7, 245/9, 245/11, 293/7, 294/1, 294/3, 234/5, 234/6, 234/8-2, 234/9-1, 238/12, 238/13-2, 238/16-2, 238/17-2, 240/1, 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, 241/13-17, 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-ൽ പാഠനം ലഭിക്കുന്നതിനുള്ള പരിസ്ഥിതി അനുമതി പ്രഖ്യാപിക്കപ്പെട്ടിട്ടുള്ള കേരള ഇൻഡസ്ട്രീസ് കോർപ്പറേഷൻ ലിമിറ്റഡ് (സ്ഥാപനത്തിന്റെ പേരിൽ) എന്ന സ്ഥാപനത്തിന് കേരള സംസ്ഥാന പരിസ്ഥിതി ഇംപാക്ട് അഡ്വൈസിബറി കമ്മിറ്റിയിൽ നിന്ന് അർജ്ജുന നമ്പർ 152/SEIAA/KL/3072/2013 തീയതി: 31.03.2017 അർജ്ജുന പ്രകാരം ലഭിച്ചിരിക്കുന്നു. ഈ അർജ്ജുനന്റെ പകർപ്പ് കേരള സംസ്ഥാന പരിസ്ഥിതി ഇംപാക്ട് അഡ്വൈസിബറി അതോറിറ്റിയിൽ ലഭ്യമാണ് www.seiaakerala.org എന്ന വെബ്സൈറ്റിൽ കൂടുതൽ പകർപ്പ് അന്വേഷിക്കുക.

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 ഓഫീസ്: 0471-2305230, ഓഫീസ്: 2305193, ഓഫീസ്: 2301740
www.kerala.gov.in

നിർമ്മാണ NR-17 തുറന്നെടുപ്പ് ഫലം 12-05-2017
 ശ്രീമതി സാ രാമദാസ, പഴയങ്ങാടി, തിരുവനന്തപുരം

1 കോടി NB 828541 (പത്തനംതിട്ട)

NA 828541	NC 828541	ND 828541	NE 828541
NA 828396	NC 437981	ND 610062	NE 464324
NA 472195	NC 537043	ND 554673	NE 727417
NA 374856	NC 740115		

भारत सरकार / GOVERNMENT OF INDIA, अतिरिक्त विभागीय विकास सारभास अतिरिक्त वेध / VIKRAM SARABHAJI इमारत निर्माण एवं अनुसंधान प्रयाग, सीवीएच/ CONSTRUCTION AND RESEARCH PRYAG / THIRUVANANTHAPURAM (फोन नं. / Ph. No. 0471 - 2565112)

ई-निविदा आमंत्रित करते हुए संक्षिप्त सूचना/BRIEF NOTICE

भारत के राष्ट्रपति की ओर से निम्नलिखित कार्यों के लिए ई-टेंडरिंग द्वारा ऑनलाइन तौर पर निविदा आमंत्रित की जा रही है।

On behalf of the President of India, online item-rate tenders are invited through e-tendering for the following work.

कार्य का नाम / Name of the Work

विशेष कार्य / CIVIL WORKS

एनआरबी नं. सीवीएच/सीएमडी/4555/0623/2017

NIT No: VSSC/CMO-CPH/CS/4555/0623/2017

एनआरबी/सीएमडी/सीएमडी/4555/0623/2017

Advertisement in News papers
Annexure No.9

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 :

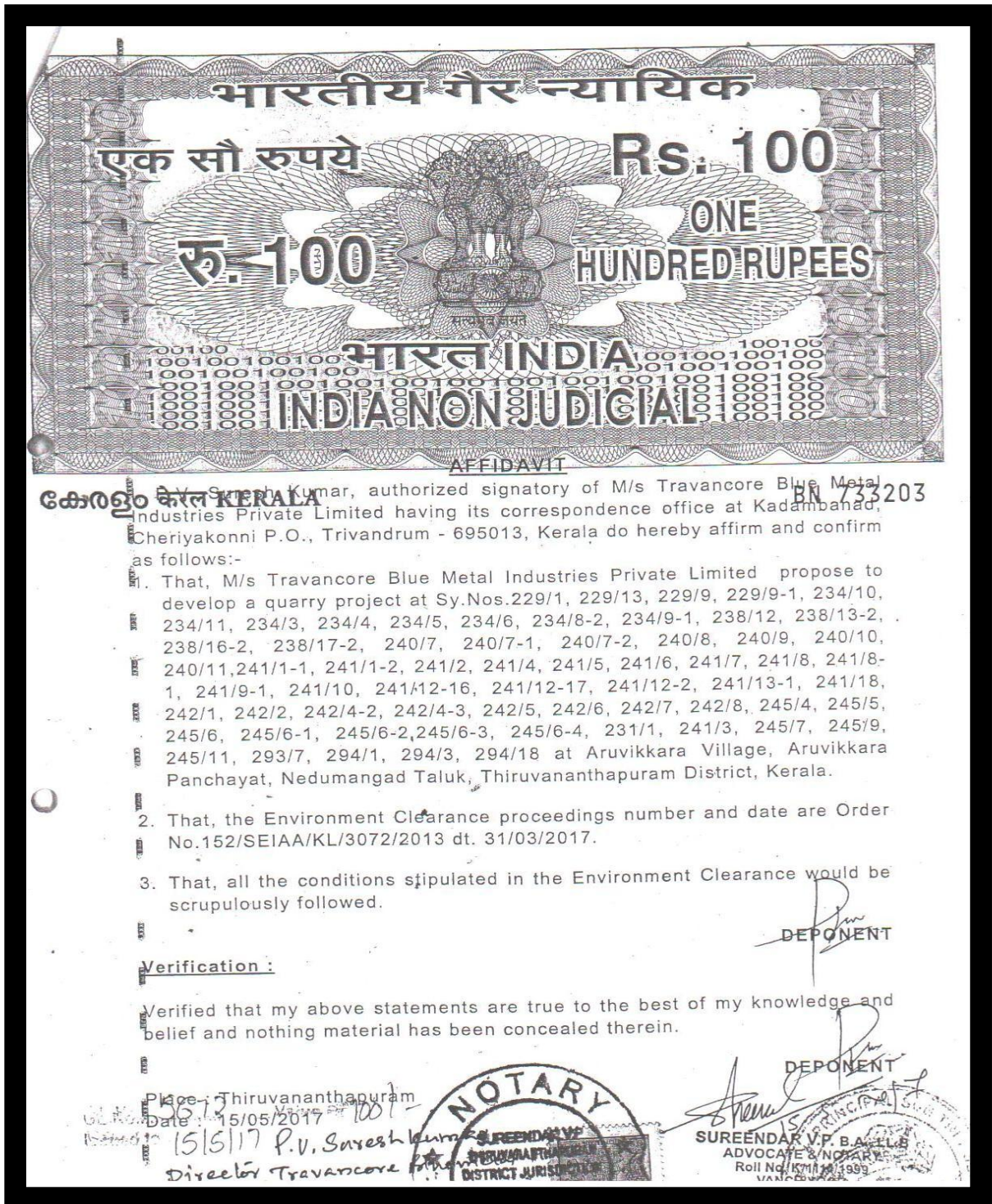
Counter No. & Staff : **16/05/2017 12:46:27PM** Secretary

KREWS (GLM, KANJIKODE) 2014

Cheques are subject to realisation

Acknowledgment from Gram Panchayat

Annexure No.10



Copy of Affidavit

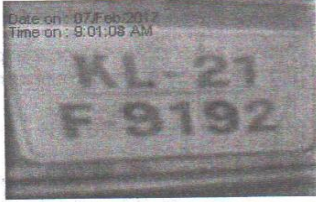
Annexure No.11

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.	Fluct into Cycle		RPM Max.		Temp.	
	Ava. RPM	Min. RPM	647	1704	91	91
1	627	1764	1.69	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		

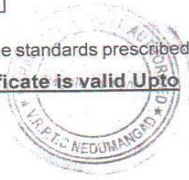
Certified that this Vehicle's HSU Emission Level Conforms to the standards prescribed under Rule 115(2) of CMV Rules 1989. **This Certificate is valid Upto**



06/Aug/2017


(Signature)
(Name of Authorised signatory)

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



Copy of PUC Certificate

Annexure No.12

**POLUCHEM LABORATORIES (P) LTD.**

ANALYTICAL CHEMISTS, ETP CONSULTANTS & CHEMICAL ENGINEERS
PALLATH BUILDING, N. KALAMASSERY P.O., ERNAKULAM - 683 104
PHONE: 0484 - 3261174, 2544030, E-mail: poluchem@gmail.com

Kerala Dealer
EION EXCHANGE
THE POWER
BEHIND WATER
(INDIA) LTD

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

TEST REPORT

Client Name & Address	Certificate No:	03/10/2012
M/s Environmental Engineers & Consultants (P) Ltd. A 1 - 198, Janaki Puri, New Delhi - 110058	Date of issue:	05/10/2012
	Date of monitoring	01/10/2012 11 am to 02/10/2012 11 am
	Monitoring Location	M/s. Travancore Blue Metal Industries Pvt. Ltd. Survey No. 240/7, 240/7-1, 240/7-2, 240/10, 240/11, 245/6-2, 242/4-2, 243/5-1, 243/5-2, 243/5-2, 240/8/1, 240/9, 245/6, 245/6-3, 245/6-4, 245/4, 245/5, 229/13, 229/9, 229/9-1, 245/6-1, 242-2, 242/4-3, 242/5, 242/6, 242/7, 242/8, 243/5/2-1, Village Aruvikkara, Nedumangad Taluk, Trivandrum District, Kerala
	Sample Description	Ambient Sound Level (Leq)

Monitoring Location	Time	Results
Location - 1	11.00 Hrs	51.9 dB (A)
	12.00 Hrs	51.4 dB (A)
	01.00 Hrs	50.6 dB (A)
	02.00 Hrs	49.7 dB (A)
	03.00 Hrs	51.2 dB (A)
	04.00 Hrs	52.4 dB (A)
	05.00 Hrs	48.5 dB (A)
	06.00 Hrs	46.9 dB (A)
	07.00 Hrs	44.3 dB (A)
	08.00 Hrs	41.9 dB (A)
	09.00 Hrs	40.6 dB (A)
	10.00 Hrs	40.1 dB (A)
	11.00 Hrs	39.5 dB (A)
	00.00 Hrs	38.0 dB (A)
	01.00 Hrs	37.3 dB (A)
	02.00 Hrs	37.6 dB (A)
	03.00 Hrs	38.1 dB (A)
	04.00 Hrs	38.4 dB (A)
	05.00 Hrs	39.5 dB (A)
	06.00 Hrs	40.1 dB (A)
	07.00 Hrs	41.6 dB (A)
08.00 Hrs	42.5 dB (A)	
09.00 Hrs	44.7 dB (A)	
10.00 Hrs	46.8 dB (A)	
Leq(Day time)		47.8 dB (A)
Leq(Night time)		39.4 dB (A)






For PoluChem Laboratories (P) Ltd.

Authorized Signatory

Analysis of Ambient air, Stack emission, Noise, Light, Water, Waste water / Effluent, Soil
Tea, Spices, Oil, Fertilisers, Basic Chemicals etc; Pesticide-Residue, Heavy Metals, Microbiology

Result of Noise

Annexure No.13

 POLUCHEM LABORATORIES (P) LTD. ANALYTICAL CHEMISTS, ETP CONSULTANTS & CHEMICAL ENGINEERS PALLATH BUILDING, N. KALAMASSERY P.O., ERNAKULAM - 683 104 PHONE: 0484 - 3261174, 2544030, E-mail: poluchem@gmail.com		Kerala Dealer ION EXCHANGE <small>THE POWER BEHIND WATER</small> (INDIA) LTD		
'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD AND ACCREDITED BY NABL				
TEST REPORT				
Client Name & Address		Certificate No:	01/10/2012	
M/s Environmental Engineers & Consultants (P) Ltd. A 1 – 198, Janaki Puri, New Delhi - 110058		Date of issue:	05/10/2012	
		Date of monitoring	01/10/2012 11 am to 02/10/2012 11am	
		Date of sample received:	02/10/2012	
		Date of analysis	02/10/2012	
		Monitoring Location	M/s. Travancore Blue Metal Industries Pvt. Ltd. Survey No. 240/7, 240/7-1, 240/7-2, 240/10, 240/11, 245/6-2, 242/4-2, 243/5-1, 243/5-2, 243/5-2, 240/8/, 240/9, 245/6, 245/6-3, 245/6-4, 245/4, 245/5, 229/13, 229/9, 229/9-1, 245/6-1, 242-2, 242/4-3, 242/5, 242/6, 242/7, 242/8, 243/5/2-1. Village Aruvikkara, Nedumangad Taluk, Trivandrum District, Kerala.	
		Sample description	Ambient air – Location 1	
		Sample code given by client	Nil	
		Sample identification No:	G/J/01/12	
SL NO	PARAMETERS	TEST METHOD	RESULTS	LIMITS
01	Particulate Matter (PM ₁₀)	I S 5182 Part 4 1999	39.4 µg/M ³	100 µg/M ³
02	Particulate Matter (PM _{2.5})	CPCB	17.9 µg/M ³	60 µg/M ³
03	Sulphur dioxide	I S 5182 Part 2 2001	2.9 µg/M ³	80 µg/M ³
04	Nitrogen dioxide	IS 5182 Part 06 1975	1.3 µg/M ³	80 µg/M ³
The results are related only to the sample collected for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory		For and on behalf of POLUCHEM LABORATORIES (P) LTD.  AUTHORIZED SIGNATORY		
				
Analysis of Ambient air, Stack emission, Noise, Light, Water, Waste water / Effluent, Soil Tea, Spices, Oil, Fertilisers, Basic Chemicals etc; Pesticide Residue, Heavy Metals, Microbiology				

Result of Air

Annexure No.14



NABL ACCREDITED
Certificate No: T-1658

POLUCHEM LABORATORIES (P) LTD.

ANALYTICAL CHEMISTS, ETP CONSULTANTS & CHEMICAL ENGINEERS

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PHONE: 0484 - 3261174, 2544030, E-mail: poluchem@gmail.com

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'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD AND ACCREDITED BY NABL

TEST REPORT

Ref.No. PL/RT/PW/01/2012

Name & address of customer

Project Site

Sample drawn by

Sample description

Sample Code

Location of sampling

Date of sample collected

Date of analysis started

Date of completion of analysis

: Date of Issue: 05/10/2012

: M/S. Environmental Engineers & Consultants (P) Ltd,

A1-198, Janaki Puri, New Delhi-110058

: M/s Travancore Blue Metal Industries Pvt. Ltd.

Survey No. 240/7, 240/7-1, 240/7-2, 240/10, 240/11,

245/6-2, 242/4-2, 243/5-1, 243/5-2, 243/5-2, 240/8/, 240/9,

245/6, 245/6-3, 245/6-4, 245/4, 245/5, 229/13, 229/9, 229/9-1,

245/6-1, 242-2, 242/4-3, 242/5, 242/6, 242/7, 242/8, 243/5/2-

1, Village Aruvikkara, Nedumangad Taluk, Trivandrum District,
Kerala.

: Self

: Drinking water

: J/01/2012

: Open Well Water

: 01/10/2012

: 02/10/2012

: 04/10/2012

Parameters tested	Test method	Result	Desirable Limits as per IS-10500
Color	IS 3025 (P) 04 – 1983	11 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983	Unobjectionable	Unobjectionable
Turbidity	IS 3025 (P) 10 – 1984	35 NTU	5 NTU
pH	IS 3025 (P) 11 – 1983	6.42	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 15 – 1984	71 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983	39.2 mg/l	300 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986	51 mg/l	200 mg/l
Residual Free Chlorine	IS 3025 (P) 26 – 1986	BDL	0.2 mg/l
Chloride as Cl	IS 3025 (P) 32 – 1988	16.82 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991	7.85 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994	4.76 mg/l	30 mg/l
Iron as Fe	IS 3025 (P) 53 – 2003	2.7 mg/l	0.3 mg/l
Sulphate	IS 3025 (P) 31 – 1988	0.16 mg/l	200 mg/l
Fluoride	IS 3025 (P) 60 – 2008	0.05 mg/l	1.0 mg/l

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

Authorized signatory

LAIJU P.N.

Technical Manager

Poluchem Laboratories (P) Ltd.

Analysis of Ambient air, Stack emission, Noise, Light, Water, Waste water / Effluent, Soil
Tea, Spices, Oil, Fertilisers, Basic Chemicals etc; Pesticide Residue, Heavy Metals, Microbiology


POLUCHEM LABORATORIES (P) LTD.

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Page 02 of 02

Continuation of Test Certificate No: 01/2012

Parameters tested	Test method	Result	Desirable Limits as per IS-10500
Selenium	APHA 3111B	BDL	0.01 mg/l
Arsenic	APHA 3111B	BDL	0.05 mg/l
Copper	APHA 3111B	BDL	0.05 mg/l
Manganese	APHA 3111B	BDL	0.1 mg/l
Cadmium	APHA 3111B	BDL	0.01 mg/l
Chromium	APHA 3111B	BDL	0.05 mg/l
Zinc	APHA 3111B	BDL	5 mg/l
Mercury	APHA 3111B	BDL	0.001 mg/l
Cyanide	APHA 4500 E	BDL	0.05 mg/l
Lead	APHA 3111 B	BDL	0.05 mg/l
Aluminum	APHA3500 D	BDL	0.03 mg/l
Boron	APHA 4500 B	BDL	1 mg/l

Note : BDL – Below Detection Level

MICROBIOLOGICAL TESTS:

Parameters	Unit	Result	Desirable Limits
MPN Coliform Count	MPN/100ml	38	1.0
Coliform bacteria	/100ml	Present	Absent
E – Coli	/100ml	Present	Absent

LAIJU P. N.
 Technical Manager
 PoluChem Laboratories (P) Ltd

For PoluChem Laboratories (P) Ltd

Analysis of Ambient air, Stack emission, Noise, Light, Water, Waste water, Effluent, Soil, Tea, Spices, Oil, Fertilisers, Basic Chemicals etc; Pesticide Residue, Heavy Metals, Microbiology

Result of Water