

COMPLIANCE REPORT

OCTOBER 2019 – MARCH 2020

QUARRY PROJECT

M/s Travancore Blue Metal Industries (P) Ltd

Thiruvananthapuram District

Kerala



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Dt.12-06-2020

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 – Second 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 Second half (October 2019 – March 2020) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,

For M/s Travancore Blue Metals Pvt. Ltd

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



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
THIRUVANANTHAPURAM 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 2019 – March 2020** 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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Compliance:

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. Danger board is attached as **Plate No. 5**. 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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Compliance:

At present the project proponent has been storing maximum possible rain water in to the constructed pond. As part of storm water management, the project proponent has constructed 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.

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

The proponent proponent has developed two rain water harvesting pond in the project site to collect rain water from the entire project land. The storm water flow is leading to the pond through constructed and natural drainages. The photograph is showing the rain water collection pond in the project area in **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 project proponent has developed two rain water harvesting pond in the project site. The storm water flow is leading to the pond through drainage. . The excess clear water will flow to the public draining after proper filtration. Rain water will be mainly used for gardening, wetting of roads, washing of sand and splashing for contain dust emission. The photograph of Rain water collection pond is provided 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 the Project Proponent formed an Environment Monitoring Cell (EMC) with Mr. Biju Varghese as chairman of the monitoring cell. The EMC meeting convenes regularly fir a sustainable environment. The details of the monitoring cell are given below in the Table No.1. The NABET accredited consultant helps the company to upkeep the environment friendly mining

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
4.	Name of accredited environmental consultant	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 enrich vegetation and prevent air pollution, the project proponent planted 40 ganga bondam coconut and various avenue trees along either side of the roads, parking area and other areas in the project land. There are natural vegetations including trees, shrubs, herbs and climbers also present in the project area. The photographs of avenue trees planted in the road side are given in **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.	Complied
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Compliance:

The project proponent has installed 2 solar street lights; and can feed 1 CFL and fan at security cabin to use maximum renewable energy to reduce electrical consumption from KSEB. As part of this, the project proponent could reduce the use of energy from conventional sources. The purchasing bill of solar is given in **Annexure No. 15**.

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

To prevent dust emission, sprinklers are installed in the project site. In order to reduce dust emissions from the road while transportation of materials, the project proponent is spraying water on roads during summer season at regular intervals.

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:

As part of eco restoration, the project proponent has started to plant various saplings within the project area. The project proponent planted 40 Ganga bondam coconut trees in the project site. The mine closure plan will be done at own cost of project proponent as agreed in the proposal.

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 proponent 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 proponent 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:

The project proponent has carried out many activities under Corporate Social Responsibility (CSR)/ Corporate Environmental Responsibility (CER). The main activities were in the sectors like education, health care, Environment sustainability etc. The detail of CSR provided in the period is mentioned in the **Table No.2**. The Copy of Receipts/ bills are attached as **Annexure No. 14**

Table No.2 – CSR/CER Details

Sectors	Activities	Beneficiaries	Amount spent in Rs.
Health	Medical Aid	Ambika Keezhoor	1500

	Medical Aid	Ambika Kattakada	400
	Medical Aid	Ani Nilamel	3000
	Medical Aid	Anil Thirumala	1000
	Medical Aid	Anilkumar Kadambanadu	1500
	Medical Aid	Anilkumar Mulliavamoodu	2000
	Medical Aid	Akhila Bharath Hindu Mahasabha	500
	Medical Aid	Ayoob Mundela	2500
	Medical Aid	Babu Kadamabanadu	100
	Medical Aid	Babu Nettayam	400
	Medical Aid	Babu, Peroorkkada	1000
	Medical Aid	Bharathan	1400
	Medical Aid	Bhasi Kadambanadu	1000
	Medical Aid	Binoj Babu	5000
	Medical Aid	Binu Poozhanadu	500
	Medical Aid	Bindhu G K	1000
	Medical Aid	Chandran Mulayara	200
	Medical Aid	Christhudharan	2000
	Medical Aid	Chithralekha Madhu	2000
	Medical Aid	David Vazhayala	1200
	Medical Aid	Dicson Cheriyaakkonni	200
	Medical Aid	Gopakumar Irinjayam	2000
	Medical Aid	Jayan Kadambanad	200
	Medical Aid	Jayan Vembanoor	200
	Medical Aid	Jahabudheen	4000
	Medical Aid	Joy Moozhinada	1200
	Medical Aid	Kalathukal Hospital Inauguration	5000
	Medical Aid	Krishna Prasad Kadambanadu	1800
	Medical Aid	Kunjumon Mailom	200
	Medical Aid	Lalithamma	250
	Medical Aid	Lambarth	1000
	Medical Aid	Lazar Neumangad	1000

	Medical Aid	Leela Mullalavinmoodu	300
	Medical Aid	Madhu Kadambanadu	1000
	Medical Aid	Madhu Mailom	6,000
	Medical Aid	Manikandan	2000
	Medical Aid	Mani Venjaramoodu	550
	Medical Aid	Mallika	3000
	Medical Aid	Mahith - Kallayam - Vattpara	2000
	Medical Aid	Mohanan Kadambanadu	2200
	Medical Aid	Mohanan	300
	Medical Aid	Mahin Y	1000
	Medical Aid	Manikuttan Iumba	1000
	Medical Aid	Maheswary	2500
	Medical Aid	Mohanan Ottasekharamangalam	1100
	Medical Aid	Manoharan	3000
	Medical Aid	Nazeer Kazhhakotam	200
	Medical Aid	Nikhil Kadambanadu	2,000
	Medical Aid	Parameswaran Nair Maiolm	1000
	Medical Aid	Ranjith , Santha (Kadambanadu)	3000
	Medical Aid	Radha	1000
	Medical Aid	Radha Kalathara	600
	Medical Aid	Radhakrishnan Mailom	300
	Medical Aid	Radhakrishnan Moozhinada	1200
	Medical Aid	Radhakrishnan, Cheriyaakoni	400
	Medical Aid	Radhakrishnan, Vembanoor	200
	Medical Aid	Raveendran Nair	1500
	Medical Aid	Rajeevan	4000
	Medical Aid	Reji	4000
	Medical Aid	Ratheesh Kadambanadu	3000
	Medical Aid	Robinson Mulayara	1000
	Medical Aid	Sadanathan Pachamala	1200
	Medical Aid	Salim Punalal	1500

	Medical Aid	Saleem Vellanadu	200
	Medical Aid	Shaukathali Kallara	200
	Medical Aid	Santha Mulayara	200
	Medical Aid	Sasi (Bamma)	250
	Medical Aid	Sasi Aruvikkara	200
	Medical Aid	Sasi Kachani	200
	Medical Aid	Sasidharan Nair Manamboor	400
	Medical Aid	Sisupalan	300
	Medical Aid	Sharafudheen Nedumangadu	250
	Medical Aid	Shaheeda Beevi Aanadu	2500
	Medical Aid	Sivadas Aryanad	2800
	Medical Aid	Sindhu Kidny	4000
	Medical Aid	Soman Kachani	1000
	Medical Aid	Shoukathali, Kallara	200
	Medical Aid	Sivakumar Kadambanadu	4000
	Medical Aid	Sreenandhana	3500
	Medical Aid	Sreedevi	1300
	Medical Aid	Sunilkumar	300
	Medical Aid	Sulekha	300
	Medical Aid	Sukumaran Kadambanadu	500
	Medical Aid	Sureshkumar Kuthirakulam	3000
	Medical Aid	Thankaraj Aryanad	900
	Medical Aid	Usha Neethipalan	2000
	Medical Aid	Vasanthi , Peroorkada	3000
	Medical Aid	Velayudhan Pillai	1450
	Medical Aid	Vincent Vellanadu	1200
	Medical Aid	Santhwana Seva Vilappil Zone Committee Paliative Care	6000
Education	Donation	D/o Chandran	500
	Donation	Sreelakshmi	5,000

	Donation	Dhanya S	500
	Donation	Kalathukal Number-81 3G Anganavadi	10000
Skill Development	Donation for library	Souparnika Kala Samskarika Samithy	30,000
Road Construction	Road Work	Road work	6,89,590
Infrastructure Development	Bank Japthi	Sulfikkar	2000
	Material Donation	40mm Metal Bill No-Bb/10277	18,560
	Donation for house work	Santhosh Kadambanad	2000
	Material Donation	40mm Bill No-Bb/10343	17,980
	Donation	Kadambanadu Sree Bhagavathy Kshethram Nirmana Fund	100,000
	Donation for house warming	Ajith	5000
	Material Donation	House Work Bill No-18951	5,410
	Material Donation	House Work Bill No-Bu20212	9,750
	Material Donation	House Work Bill No-19590	5,140
	Material Donation	40mm Metal BI No-Bb/11335	17,980
Social	For Marriage	Sukumaran Marriage	3000
	For Marriage	Soumya	3,000
	For Marriage	D/O Satheeshkumar	3,000
	For Marriage	D/O Sajukumar Moonammoodu	3,000

	For Marriage	Fathima Azheekkode	2000
	For Marriage	D/O Gopakumar	2,000
	For Marriage	S/O Rajan Vembanoor	15,000
	For Marriage	D/O Sivadas's Sister	1,000
	For Marriage	Grand D/O Mohanan	5000
	For Marriage	D/O Anilkumar	5000
	For Marriage	D/O Vasu	25,000
	For Funeral	Cash Paid To Omana	5,000
	For Funeral	Cash Paid To Santhosh	5000
	For Funeral	Cash Paid To Shaiju	5,000.00
	Donation	Nanma Charitable Trust Santhitheeram	300
	Donation	18th Akhila Kerala Bhadira Mooka Federation 19th Varshikam	1,000.00
	Donation	Arppitha Asraya Kendram Anchal	300
	Donation	Indigenous Christians Federation Kerala State	500
	Donation	Thanal Matha Charitable Society	500
	Donation	South India Assemblies Of God Ag Church Aruvikkara For Christmas	1500
	Donation	Mathrika Charitable Trust Trivandrum	500
	Donation	Mahatma Charitable Samithy Cheriyakonni	2000
	Donation	Christmas Dress Vitharanam	2000
	Donation	Jeevakarunya Charitable Society Karakkonam	250
	Donation	Karunya Charitable Foundation Tvm	200
	Donation	Jeevakarunya Charitable Society Karakkonam	250
	Donation	Mahathma Charitable Trust Malayinkkeezhu	500

	Donation	Sopanam Charitable Society Balaramappuram	500
	Donation	Yuvajanathadal (S) Padana Camp	5,000.00
	Donation	Bhgavd Gheeda Punnya karma Padhadi	500
	Donation	Sanmanassu Charitable Society Nemam	300
	Donation	Sneha Sadhanam, Powdikkonam	300
	Donation	Karunalayam Charitable Trust Amaravila	500
	Donation	Indijinus Christhians Federation For Vishudha Kuriyakose Achan Janmavarshikam	300
	Donation	Thanal Matha Charitable Society Pathanappuram	300
	Donation	Misbhul Huda Arabic Village And Orphanage, Edathara	500
Total			11,56,860

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.	Complied
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Compliance:

As part of demarcation of lease area and to prevent falling of animals/human being/dumping of garbage etc, the project proponent has erected barbed metal wire fencing around the mining area with height of 4 ft before the starting of mining. All the boundary indicators will be protected at all times and shall be conspicuous. The photograph of barbed metal wire fencing is provided in **Plate No.4**. Signboard is attached as **Plate No. 10**.

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 proponent has installed warning alarms in the quarry site. This warning alarm is properly working prior to the blasting time.

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

To reduce noise level in the project site, the project proponent has implemented mitigate masseurs. The major noise generating sources from the mining activity is working machineries, drilling, blasting and plying of vehicles. The following control measures are undertaken to bringing down the noise levels:-

- 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., earmuffs, ear plugs etc. are provided to workers working in high noise areas.
- The mining activity held in day time only.

Blast vibrations and control measures

- ❖ Controlled blasting technique is adopted in this project in order to reduce blast vibrations.
- ❖ 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.
- ❖ The project proponent has appointed qualified persons to monitor the mining operations

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 quarry working time is 8.00am to 5.00 pm. This will help to limit the sound pollution.

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 done in controlled manner by using NONEL Technology. All blasting activities are carrying out with the specified regulations of explosive department. All blasting are under careful supervision of qualified persons.

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

The project proponent has appointed mining mates and mines manager 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 persons.

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 proponent has concreted the access road of 600 meter from the entrance of project site to quarry is maintaining in good manner. The project splashes water on the road to arrest the dust production during summer season. The photograph of concreted road is provided 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 are stored at designated place within the project site. There is no old quarry in the site for restoration. This will be used to restore the exploited area in future. To prevent soil erosion from the dumping, grasses were planted on the overburden.

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 activity in the project site is progressing by creating benches of 5m width and 5m height. The formation of benches is under the direction and supervision of competent person. **Plate No. 6** shows the mining area.

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 NONEL Technology for blasting therefore there is no incident of fly rock is happened in the community. The project proponent is also assuring the maximum PPV is under 10 during the time of blasting. The project proponent is using blasting mats in the mining field during blasting time. The photograph of the blasting mate is attached as **Plate No.7**.

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

The project proponent is following the approved mining plan for the exploration of building stone. Therefore mining depth does 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 .	Noted
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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.	complied
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Compliance:

To reduce the impact of sound to the labours in the mine, the project has provided ear plugs. All machines are new. Vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards. There is no crusher unit in the project site.

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 proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear plugs, safety belts, glows, etc. The project proponent has also done Medical camp to the workers in the site.

23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	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 has constructed drains with clarifiers in the lower slopes of the project area for storm water management. The clarifiers prevent the quarry wastes entering in to the public stream. The photograph of drain is provided in **Plate No.8**. The project proponent is intending to increase the efficiency of garland drain in the site. Photograph of de-siltation trap is provided in **Plate No.9**

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

The project proponent assure that the 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 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 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:

A portion of spent oil is using in as lubricant in the project site. The excess used oil will be sold only to the approved recyclers

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 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:

To reduce the adverse impact on community life, the norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project. The distance of the nearest house is above 115 meter form the quarry.

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 proponent 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 & 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/NDD-243/2017 Dt. 16/11/2017
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	A3-1704/06/2018-19 dt. 28-03-2019
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:

In case of any change(s) in the scope of the project, the proponent will apply for fresh appraisal to get the Environmental Clearance.

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:

To enhance environmental sustainability and conserve natural resources, the project proponent 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 newspapers 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:

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 Panchayath is provided in **Annexure No.9**. 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 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.	complied
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Compliance:

The compliance report is being submitted along with the results of monitored data to the State Environmental Impact assessment Authority and the Regional Office of MoEF&CC, Bangalore as Email. The monitored data of Air, Water and Noise is attached as **Annexure No. 11, 12 & 13**.

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.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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Compliance:

At present, the project proponent is not intending to expand the area of mine, technology and scope of working. The project proponent will appear SEIAA for Environment Clearance if the project proponent 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:

There is no such natural water course or thodu is flowing along the project site. The project proponent will ensure the natural runoff of storm water. No stream is originating from the lease 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 unloading points & transfer point to reduce fugitive emissions.	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 proponent 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 stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The Over Burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m 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 and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	complied
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Compliance:

The natural resources like top soil and overburden is stacking 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.	Complied
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Compliance:

The project proponent has constructed 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.

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 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 are stacked in 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.

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 PM ₁₀ 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 and sprinklers. 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.

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.	Complied
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Compliance:

The project proponent splashes water in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The sprinklers and vehicle for water spraying are 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 noise level 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 proponent 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.	Being complied
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Compliance:

The project proponent executes many 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
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Compliance:

The project proponent will extend all possible cooperation to the officers from 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 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
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Compliance:

The project proponent has been implementing conditions stipulated in this Environment Clearance order. The project proponent 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 proponent 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:

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. 16.**

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:

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

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

The project proponent conducted an occupational health surveillance programme in association with taluk hospital for the labours working in mining area.

PLATES

Plate No.1



Rain water Harvesting Pond in the project site

Plate No.2



Avenue Trees

Plate No.3



Approach road

Plate No.4



Fencing

Plate No.5



Danger board

Plate No.6



Mining Area

Plate No.7



Blasting mat

Plate No.8



Drainage

Plate No.9



De Siltation Trap

Plate No.10



Sign Board

ANNEXURE

Annexure No.1

FLO RAZA
AGRO GARDEN PVT LTD.
Tel:8848938178,
Office : First Floor Veetees Complex, Room No.5/676
T.B.Road Perambra, Kozhikode,Kerala,India, 673525
Nursery : Muliyangal, Perambra

No. **3627** **BILL** Date 25/10/19
Name & Address M/s. Travancore BLUE METALS

Sl No	Particulars	Qty	Rate	Amount
1	Ganga Bandam	20	300	6000/-
Total				6000/-

Amount in Words.....
.....Customer Sign

FLO RAZA
AGRO GARDEN PVT LTD.
Tel:8848938178,
Office : First Floor Veetees Complex, Room No.5/676
T.B.Road Perambra, Kozhikode,Kerala,India, 673525
Nursery : Muliyangal, Perambra

No. **3628** **BILL** Date 25/10/19
Name & Address Travancore Blue Metals

Sl No	Particulars	Qty	Rate	Amount
1	Ganga Bandam	20	300	6000/-
Total				6000/-

Amount in Words.....
.....Customer Sign

Bill of plants purchased

Annexure No.2

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

सं०खान० 1229 R
C.L.M. 1229 R

खान अधिनियम, १९५२
THE MINE'S ACT, 1952

खान 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.....
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 घात्वीय खान विनियम, 1961 के अधीन उन घात्वीय खानों के लिए जिनमें केवल खुल कार्यस्थलों तक कार्य सीमित होता है खान मेट समर्थता प्रमाण-पत्र दिया जाता है।

SARATHI THANAPATI
CHARDA
of Village....., Thana BINKA..... (Name)
District.....SONEPUR....., State ORISSA.....
born on....., 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
खान परीक्षा बोर्ड
Secretary,
Board of Mining Examinations.
तारीख.....१६
Date.....०८/११/१९९९

अध्यक्ष
खान परीक्षा बोर्ड
Chairman,
Board of Mining Examinations.

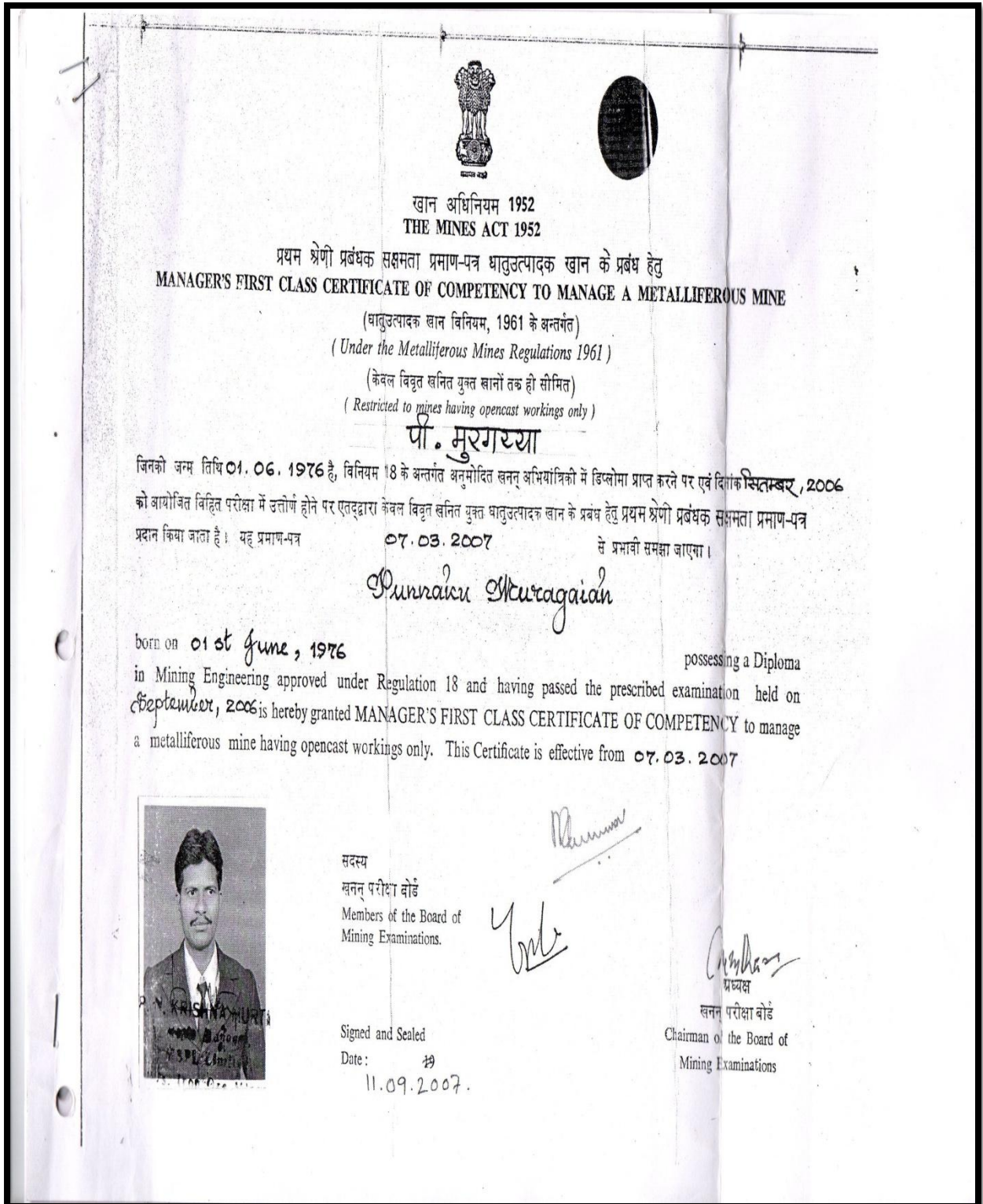
19....., is hereby granted a MINING MATE'S CERTIFICATE under the Metalliferous Mines Regulations, 1961, restricted to metalliferous mines having open-cast workings only.

प्रमाणित किया जाता है कि श्री.....की परीक्षा की गई और उसे ब.....
परीक्षा शारारक या मानसिक अशक्तता 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.....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.....ता०को
Bhubaneswar Region

प्रकाशपत्र/पुस्तक/MGITBP Bbar-16/1 MSD/90-91-10,000 Sheets.

Certificate of Mining mate



Certificate of Mines manager

GOVERNMENT OF INDIA
MINISTRY OF LABOUR & EMPLOYMENT
DIRECTORATE-GENERAL OF MINES SAFETY

DHANBAD, DATED 27/6/2008

NO. EXAM/FR/EXEMPT/ 2742/35

M E M O R A N D U M

Ref: His application dated 22.6.07 by virtue of Government Notification No. 712(E), dated 13/12/1974.

Shri : SHASWAT KUMAR LENKA S/o. SHWETA KUMAR LENKA

Of Village: Chandapat Thana: Tritol

District: Jagatshingapur State: Orissa


Born on: 18th April , 1984 (Nineteen Eighty Four)

possessing a Diploma in Mining & Mine Surveying approved under Regulation 18 of Metalliferous Mines Regulations, 1961 and on completion of prescribed experience has become eligible to work in a capacity requiring possession of Foreman's Certificate Restricted to Mines having opencast workings only under Metalliferous Mines Regulations, 1961 with effect from 07.10.2007 till the above Notification remains in force.

Secretary
Board of Mining Examination &
Director of Mines Safety(Exam)
Directorate-General of Mines Safety office
Dhanbad

07-19.03.2013
udat smi 21.10.13
खान सुरक्षा निदेशक
बाईबासा क्षेत्र, चाईबासा (झारखण्ड)
अन एंव रोजगार विभाग
भारत

on 21.02.2018
26/28/18
DIRECTOR OF MINES SAFETY
CHHATTISGARH REGION



Certificate of Foreman

GOVERNMENT OF INDIA
MINISTRY OF LABOUR & EMPLOYMENT
DIRECTORATE-GENERAL OF MINES SAFETY

NO. EXAM/FR/EXEMPT/ 2745/ 42 DHANBAD, DATED 30/06/18

M E M O R A N D U M

Ref: His application dated 22.6.07 by virtue of Government Notification No. 712(E), dated 13/12/1974.

Shri : PREMANANDA MUDULI S/o. MADHAB MUDULI

Of Village : Bamanal Thana: Nimapara

District: Puri State: Orissa

Born on: 02nd June , 1984 (Nineteen Eighty Four)

possessing a Diploma in Mining & Mine Surveying approved under Regulation 18 of Metalliferous Mines Regulations, 1961 and on completion of prescribed experience has become eligible to work in a capacity requiring possession of Foreman's Certificate Restricted to Mines having opencast workings only under Metalliferous Mines' Regulations, 1961 with effect from 04.10.2007 till the above Notification remains in force.

Secretary
Board of Mining Examination &
Director of Mines Safety(Exam)
Directorate-General of Mines Safety office
Dhanbad

24.6.08

From 18/07/17 upto 17/07/2022

निदेशक खान सुरक्षा
DIRECTOR OF MINES SAFETY
गोवा क्षेत्र - GOVT. OF INDIA
गोवा क्षेत्र - GOA REGION
पडगाव / MARGAO - 403 601
गोवा : GOA

खान सुरक्षा निदेशक
DIRECTOR OF MINES SAFETY
गोवा क्षेत्र - GOA REGION - MARGAO

Certificate of Foreman

Annexure No.3

FILE NO : PCB/TVM-DO/ICO/NDD-243/2017
Date of issue : 16/11/2017



KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO

OPERATE/AUTHORISATION/REGISTRATION

ISSUED UNDER

The Water (Prevention & Control of Pollution) Act, 1974
The Air (Prevention & Control of Pollution) Act, 1981

and

The Environment (Protection) Act, 1986

As per Application No. :6089868
Dated:08-11-2017

TO

M/s TRAVANCORE BLUE METAL INDUSTRIES PRIVATE LTD
Cheriyakonni
Cheriyakonni P.O
Aruvikkara, Nedumangad
Thiruvananthapuram

Consent No. :PCB/TVM-DO/ICO/QRV-596/2017
Valid Upto :30/09/2020

1. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit.

1	VALIDITY	30/09/2020
2	Name and Address of the establishment	TRAVANCORE BLUE METAL INDUSTRIES PRIVATE LTD CHERIYAKONNI, CHERIYAKONNI P.O. ARUVIKKARA, NEDUMANGAD, THIRUVANANTHAPURAM 695013
3	Communication	Telephone :00-8086411122 Fax :-8086850850 E-mail:travancorebluemetal@gmail.com
4	Occupier Details	Suresh Kumar P.V Cheriyakonni, Cheriyakonni P.O, Aruvikkara, Nedumangad, Thiruvananthapuram
5	Local Body	Aruvikkara Panchayat
6	Survey Number	229/1,9,9-1,13 234/4,3,5,6,8-2,9-1,10,11 238/12,13-2,16-2,17-2 240-7,7-1,7-2,8,9,10,11 241/1-1,1-2,2,4,5,6,7,8,8-1,9-1,10,12-16,12-17 242/2,4-2,4-3,5,6 241/12-2,13-1,18 242/1,7,8 245/4,5,6,6-1,6-2,6-3,6-4
7	Village	Aruvikkara
8	Taluk	NEDUMANGAD
9	District	THIRUVANANTHAPURAM
10	Capital Investment(Rs in Lakhs)	228
11	Scale	Small
12	Category	RED
13	Annual fee(Rs)	Rs 20000/-
	Total Fee remitted(Rs)	Rs 70000/-
14	RAW MATERIAL	PRODUCTS
	Natural Rock @1000 Metric Tonnes	Rocks Quarrying @1000 Metric Tonnes
15	Total Power Required (HP)	NIL

2. CONDITIONS AS PER

The Water(Prevention and Control of Pollution)Act, 1974

- 2.1 In case of generation of trade effluent from the industry, effluent treatment system consisting of treatment units having adequate capacity established as per the Integrated Consent to Establish issued shall be operational at all times during which the industry is functional. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1) (g) of the Water Act shall also be made along with.
- 2.2 Water consumption: 1000 I/D
- 2.3 Effluent generation:
- 2.4 The characteristics of effluent after treatment shall confirm to the following tolerance limits:

Sl.NO.	Characteristics	Unit	Tolerance Limit	
			Sewage	Trade Effluent

2.5 Mode of disposal of treated effluent:

**3. CONDITIONS AS PER
The Air(Prevention and Control of Pollution)Act, 1981**

3.1 Adequate air pollution control measures shall be operational at all times during the functioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

Stack No.	Sources of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level	Roof Level	

3.2 Emission characteristics shall not exceed the following:

Sl.No.	Parameter	Limiting Standards (mg/Nm3)
--------	-----------	-----------------------------

**4. CONDITIONS AS PER
The Environment (Protection) Act, 1986.**

4.1 The operation of the industry shall be strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.

4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001

4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

4.3.1 Activities for which Authorisation is granted

Collection		transport	
Reception		Storage	
Treatment		Reprocessing/Disposal	

4.3.2 Type, quantity and mode of storage/collection/disposal of hazardous wastes shall be as follows:

Sl.No.	Hazardous Waste	Schedule Category	Quantity Tonne/year
Mode of			
Storage		Disposal	

4.4 E-waste shall be disposed off safely as per the E-Waste (Management)Rules, 2016.

5. SPECIFIC CONDITIONS

5.1 The location of the quarry shall be as per the approved drawing form village office attached along with this consent. Quarrying area is restricted to the land having valid lease and EC in resurvey nos. 229/1,9,9-1,13,234/4,3,5,6,8-2,9-1,10,11,238/12,13-2,16-2,17-2,240-7,7-1,7-2,8,9,10,11,241/1-1,1-2,2,4,5,6,7,8,8-1,9-1,10,12-16,12-17,242/2,4-2,4-3,5,6,241/12-2,13-1,18,242/1,7,8,245/4,5,6,6-1,6-2,6-3,6-4 for 9.2152 hectares in Aruvikkara Village Nedumangad Taluk, Thiruvananthapuram. The consent is granted based on Environmental Clearance (No 29/2017, Letter No 152/SEIAA/KL/3072/2013 Dated 31/03/2017 valid till 30/03/2022) and Letter from Mining and Geology No 8300/M3/2017 Dated 04/10/2017.

5.2 This consent unless withdrawn earlier shall be valid up to 30/09/2020. If the operation of the quarry is to be continued after 30/09/2020 fresh application has to be submitted through online site krocmmms.nic.in along with valid lease/permit from Department of Mining & Geology, 3 months in advance to the date of expiry of validity.

5.3. After excavation at the site is completed, the land may be reclaimed or used for rain water harvesting with protective barriers/any other suitable purpose like aquaculture approved by the authority.

5.4 The consent issued is subject to the conditions specified in the clearances issued by the Mining and Geology Department and Explosive Department as per the provisions of the relevant statutes.

5.5 It is the responsibility of occupier to ensure that quarrying activities are restricted to only area shown in the attached drawing and at a distance more than 100 m from the nearby residences and public roads having vehicular traffic.

5.6 All the necessary control measures provided should be maintained properly to ensure that the system is adequate to control the air and water pollution caused by the functioning of the unit within the limit.

5.7 It is the responsibility of occupier to maintain minimum distance of 100m shall be maintained from the boundary of quarry operation area to existing residential buildings, places of worship, public buildings, public road having vehicular traffic, river or lake, railway line and bridges.

5.8 Boundary of quarrying area shall be fenced and demarcated.

5.9 Fugitive emission from the quarry premises and road leading to quarry shall be suppressed using water sprinkling.

5.10 The suspended particulate matter (SPM) at boundary of the premises of the quarry shall not exceed the following limit applicable to that area as per the National Ambient Air Quality Standards.

a) The PM10 in ambient air at the boundary shall not exceed 100 µg/m³

b) The PM2.5 in ambient air at the 1m outside the boundary shall not exceed 60 µg/m³.

5.11 Regular wetting of the roads in the premises of the quarry and approach roads near the quarry shall be done for avoiding excessive dust emission within and outside the boundary of the unit.

5.12 Any change in the particulars furnished in the references and/or in the identity of the occupier / authorized agent shall be intimated to the Board within a week.

5.13 The sound level measured at 1.0m outside the boundary shall not exceed the limit as per the Ambient Air Quality Standards in respect of Noise.

5.14 The validity of this consent may change subjected to the order of the Honorable Supreme Court/High Court / NGT in related cases. Or the new orders issued by the government or other competent authority.

5.15 The consent issued from the Board will be valid only during the period when statutory or necessary clearances from other concerned authorities are valid. The consent issued from the Board is only with respect to the powers vested under the Water Act, 1974, Air Act, 1981 and Rules there under. The operation of the unit shall be commenced only after obtaining clearances from all concerned authorities.

- 5.16 Quarrying operations shall be started only after obtaining the D & O license under the Kerala Panchayath Raj Act from the concerned Local Self Government Institution and submitting a copy of the same to the District Office of the Board.
- 5.17 The quarry should not be operated between 6.00 p.m. and 6.00 a.m. and Products shall be transported with proper cover and after wetting to prevent spreading of dust.
- 5.18 Quarrying area shall be restricted in the area shown in the drawing attached.
- 5.19 Arrangement for rain water harvesting in the unit shall be done within one month for meeting the entire water requirement of quarry and crusher (in case of adjoining unit) and the same shall be reported in writing.
- 5.20 Suitable species of trees shall be planted and maintained within and along the periphery of the premises, forming a green belt to improve the environment.
- 5.21 This consent may be granted on the basis of affidavit and other documents furnished by the applicant. Any of the statement or information found to be false, the consent issued will withdraw /cancelled.

DATE :16/11/2017

Biju .B
SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER,
THIRUVANANTHAPURAM

Digitally signed by Biju .B
Date: 2017.11.16 18:01:55 +05'30'




To

Travancore Blue Metal Industries Private Ltd
Cheriyakonni Cheriyakonni P.O
Aruvikkara, Nedumangad Thiruvananthapuram

- 1. This digitally signed document is legally valid as per the Information Technology Act 2000**
2. For verifying this document please go to krocmmms.nic.in and search using name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management & Monitoring System

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

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 रूपए (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, Cheryyakonni Post, Thiruvannathapuram District-695013, Kerala., Town/Village Cheryyakonni. District-THIRUVANANTHAPURAM, State-Kerala, Pincode - 695013

को अनुज्ञप्ति अन्दत की जाती है।

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

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमाम्य 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 विधिमाम्य है।
Licence is valid for the following kinds and quantity of explosives: -- (क) (a)

क्र. 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 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 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, Thiruvannanthapuram District, Kerala**
जिला (District) **THIRUVANANTHAPURAM** राज्य (State) **Kerala** पोस्टाधिकारि थाना (Police Station) : **Nedumangad**
दूरभाष (Phone) **09447178279** ई.मेल (E-Mail) **फैक्स (Fax) 695013**

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. अनुज्ञप्ति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाधर्तों के अधीन रहते हुए अन्दत 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 विधिमाम्य 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 अनुज्ञप्त 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 VII, 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 पृष्ठांकन 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

NO. 3898/1/2010 5

भारतीय गैर न्यायिक
एक सौ रुपये
INDIA
INDIANON JUDICIAL

I have satisfied myself that on verification of original of this cleat request stamp duty of Rs. 97.46 has been adjudicated and realised.

23rd November 2010

H 639847

Form - 'H'
(See Rule 32)
Quarrying Lease

This indenture made this the 04th October 2010 day

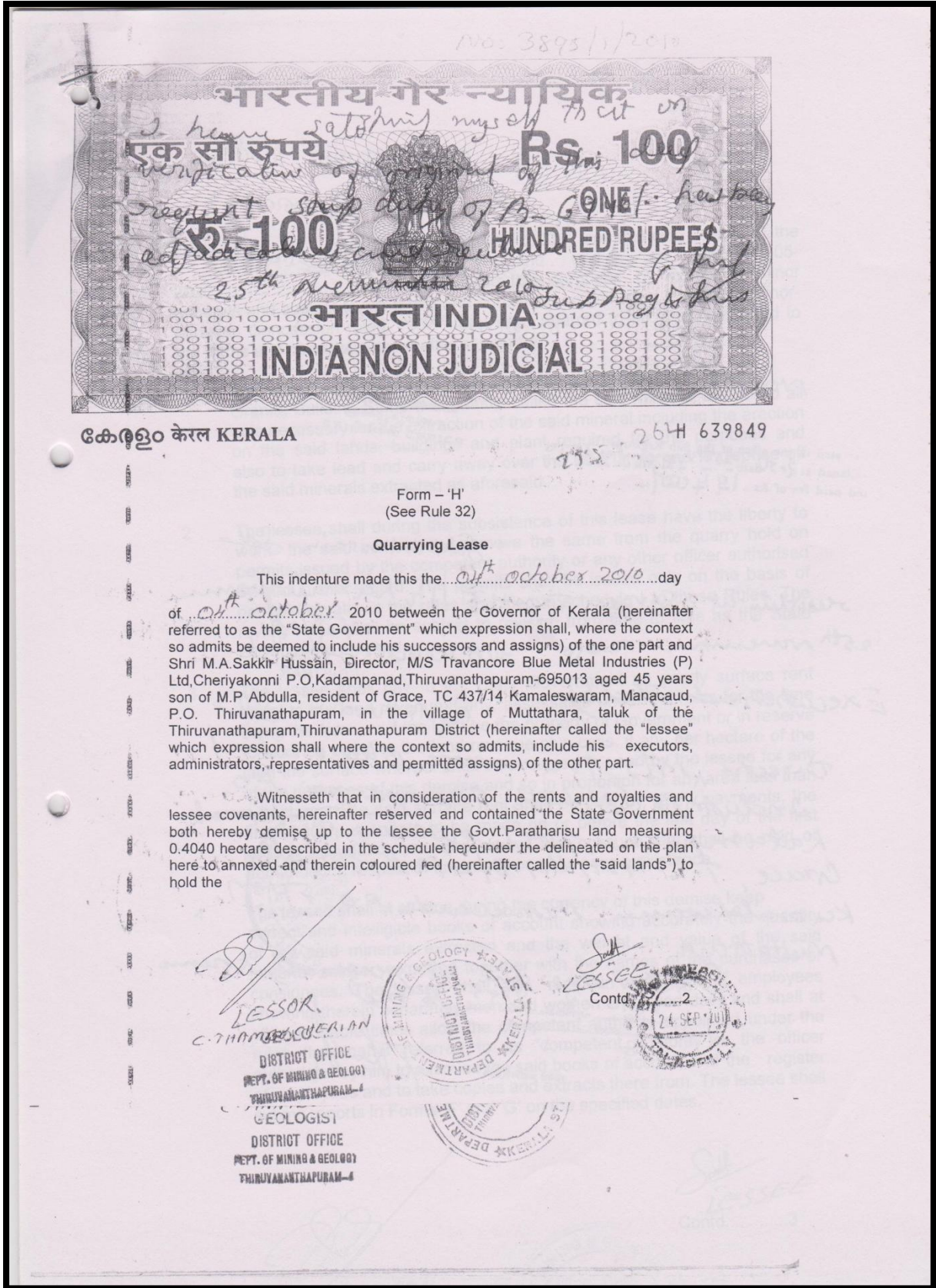
of 04th October 2010 between the Governor of Kerala (hereinafter referred to as the "State Government" which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and Shri M.A.Sakkir Hussain, Director, M/S Travancore Blue Metal Industries (P) Ltd,Cheriyakonni P.O,Kadapanad,Thiruvananthapuram-695013 aged 45 years son of M.P Abdulla, resident of Grace, TC 437/14 Kamaleswaram, Manacaud, P.O. Thiruvananthapuram, in the village of Muttathara, taluk of the Thiruvananthapuram,Thiruvananthapuram District (hereinafter called the "lessee", which expression shall where the context so admits, include his executors, administrators, representatives and permitted assigns) of the other part.

Witnesseth that in consideration of the rents and royalties and lessee covenants, hereinafter reserved and contained the State Government both hereby demise up to the lessee the Govt.Paratharisu land measuring 0.5983 hectare described in the schedule hereunder the delineated on the plan here to annexed and therein coloured red (hereinafter called the "said lands") to hold the

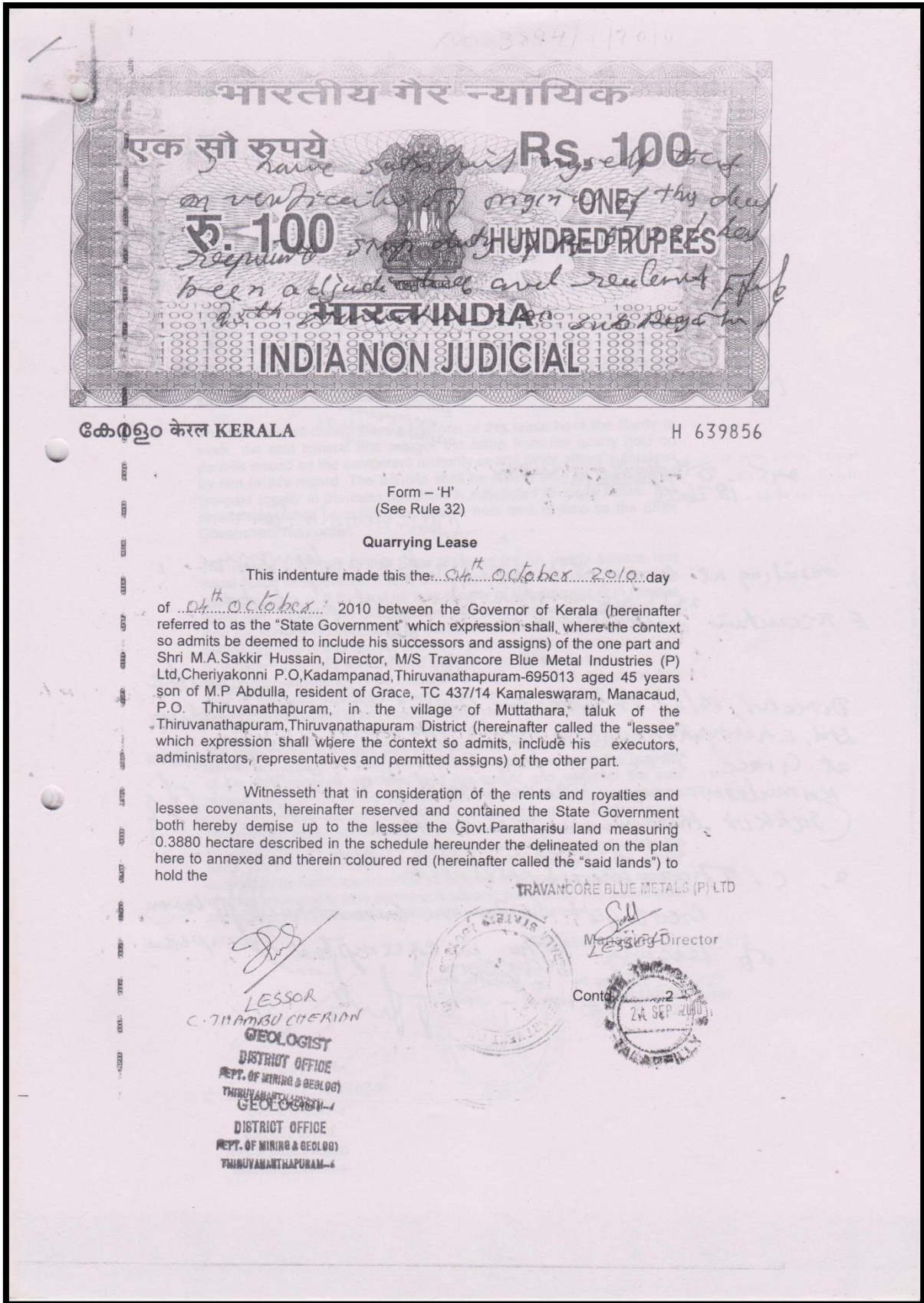
LESSOR
C. THAMASHERIAN
GEOLOGIST
DISTRICT OFFICE

LESSEE
Contd. 2
24 SEP 2010

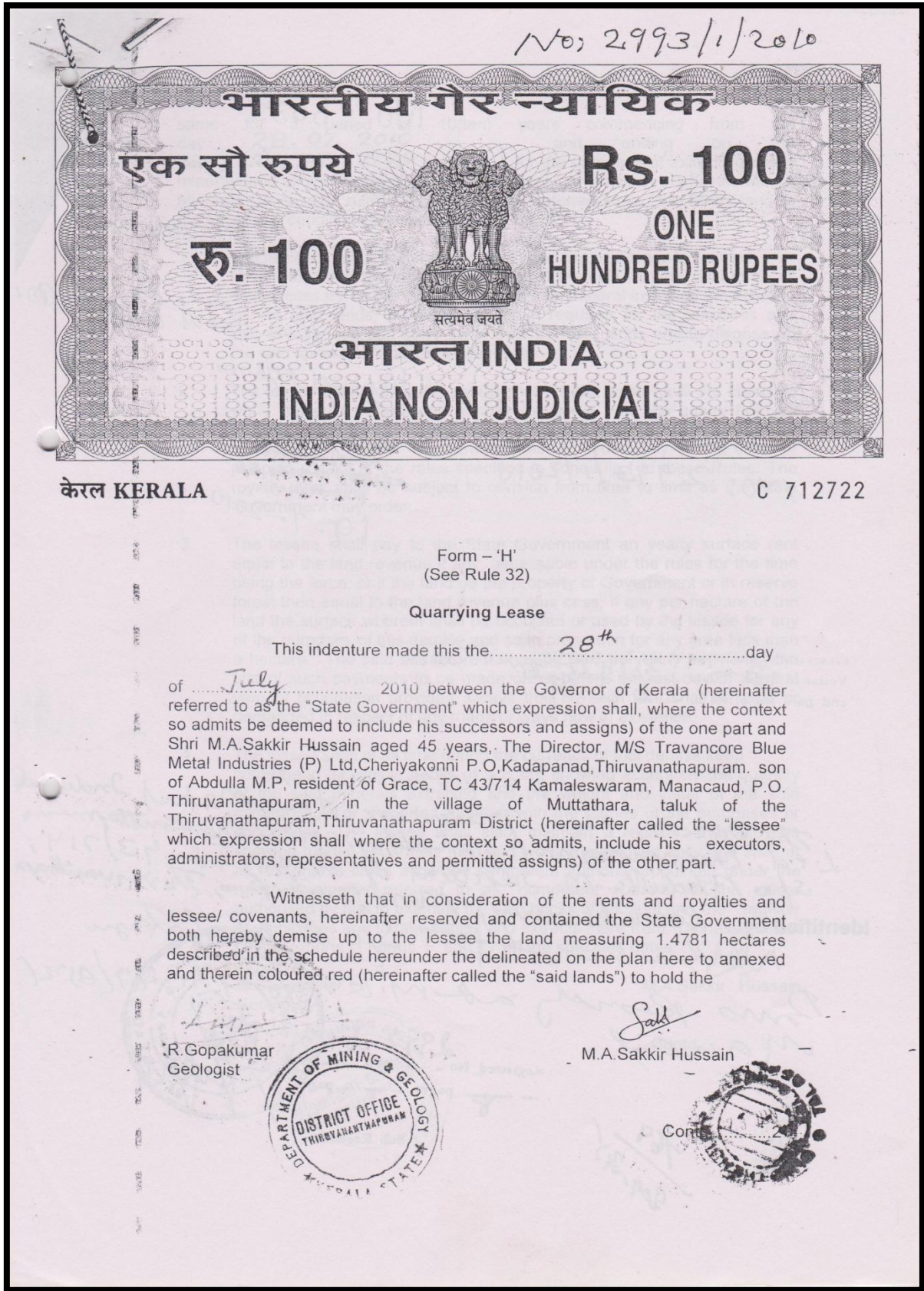
Copy of lease



Copy of lease



Copy of lease





Copy of lease

Adjudication Certificate Under Section 32 of Kerala Stamp Act 1959 488
2018 To the District Registrar 12-1200/18
(G.L.) Thiruvananthapuram, dtd. 3-3-18


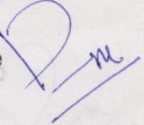
भारतीय गैर न्यायिक भारत INDIA
The original document registered along with
The duplicate it bears the stamp duty 500 with
a value of 500 much less FIVE HUNDRED
RUPEES
पाँच सौ रुपये Rs. 500
सत्यमेव जयते
INDIA NON JUDICIAL

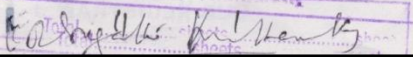
കേരളം കേരल KERALA F 937501

Form H
(see Rule 43)
QUARRYING LEASE

This DEED OF LEASE made on this the 28 day of Feb 2018 between

Lessor  Lessee 

Q. No. 15877 Value Re 500
Issued to 28/2/18 M/s Travancore Blue Metal
Industries PVE Ltd
K.P. Chulika Vaidya
X.P.C. 

DISTRICT OFFICE
THIRUVANANTHAPURAM
DISTRICT REGISTRAR
GLY COLLECTOR
27 FEB 2018

THE GOVERNOR OF KERALA (hereinafter referred to as **'the State Government'** which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and

M/s TRAVANCORE BLUE METAL INDUSTRIES PVT. LTD., having its office at Kadambanad, Cheriyaakonni P.O, Thiruvananthapuram District - 695 013 (Represented herein by its Director, **SURESH KUMAR** (holder of Aadhar card No. 9365 5194 5619), S/o Sreedharan Nair, aged 46 years, residing at Palakkavil House, Annakara P.O, Mullassery Village, Chavakkad Taluk, Thrissur-680 508) (hereinafter called **'the Lessee/Lessees'** which expression shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part

WITNESSETH that in consideration of the rents and royalties and Lessee's/Lessees covenants, hereinafter reserved and contained, the State Government hereby give on lease to the Lessee/Lessees the land measuring **9.2152 hectares** described in the Schedule hereunder and delineated on the plan hereto annexed and therein colored red (hereinafter called the "said lands") to hold the same for a period of **NINE YEARS (9 years)** commencing from the 28/2/2018 and ending on the 27/2/2027 for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing.

Lessor



Lessee

DISTRICT REGISTRAR (GL) COLLECTOR

Total 11 sheets 2 sheets

Copy of lease

Annexure No.9

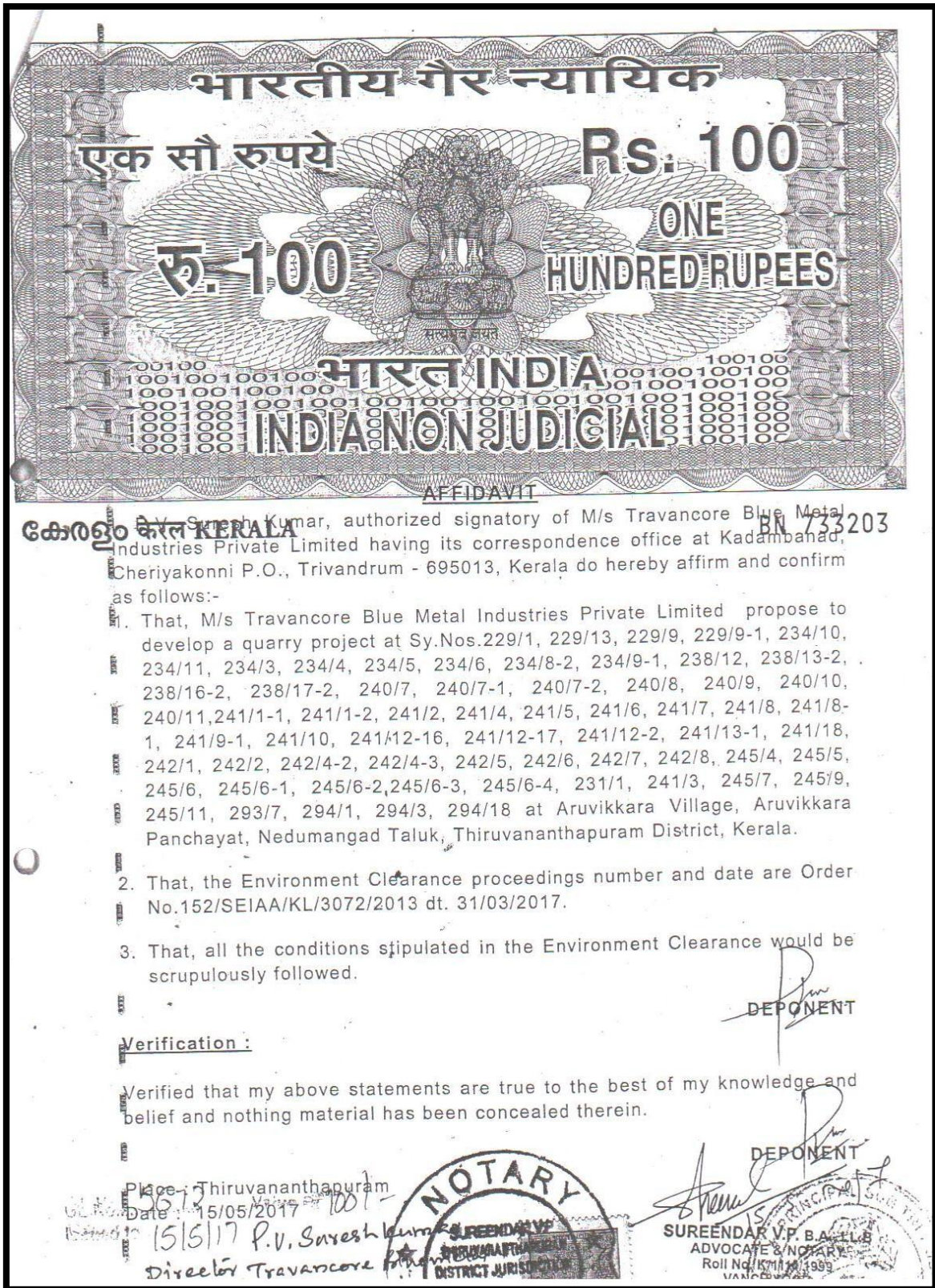
Aruvikkara Grama Panchayat A9363559	
Aruvikkara, Phone:04722888225	
ACKNOWLEDGEMENT (Not for Cash Transactions)	
Ward No	3607
Year	2017
Date of Receipt	16/05/2017
Name of Applicant	suresh kumar p.v, arv
Subject	travancore blue metal
Date of Delivery	
Section	A4
Remarks :	
Counter No. & Staff :	16/05/2017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

Cherquins are subject to realisation

KREWS (GLM, KANJIKODE) 2014

Acknowledgment from Gram Panchayat

Annexure No.10



Copy of Affidavit

Annexure No.11

**TEST REPORT**

Test Report No: 20191118/R078	Date: 22.11.2019	Page 1 of 1
-------------------------------	------------------	-------------

CUSTOMER DETAILS

Customer Details	Name & Address	M/s Travancore Bluemetal Industries Pvt Ltd Aruvikkara, Nedumangad, Thiruvananthapuram District
Location of Site	Survey 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
	Village	Aruvikkara
	Taluk	Nedumangad
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	---	

SAMPLE DETAILS

Source of Sample	Ambient Air	Sample Code	20191118/S078
Location of Monitoring	Near East Side Boundary	Sampled by	By Laboratory
Date of Monitoring	18.11.2019	Test Started on	19.11.2019
Sample Received on	19.11.2019	Test Completed on	22.11.2019
Humidity	68 %	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 2017	µg/m ³	50.2	100 (Max)
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	23.4	60.0 (Max)
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	< 2.00	80.0 (Max)
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	< 2.00	80.0 (Max)

End of Report

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

Rija
Authorized Signatory
Rija Joseph
Technical Manager

Standard^s Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "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: sealab@gmail.com

Result of Air

Annexure No.12



TEST REPORT

Test Report No: 20191118/S079	Date: 22.11.2019	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	M/s Travancore Bluemetal Industries Pvt Ltd Aruvikkara, Nedumangad, Thiruvananthapuram District
Location of site	Survey 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
	Village	Aruvikkara
	Taluk	Nedumangad
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	---	

SAMPLE DETAILS	
Source of sample	Ambient Sound Level
Sample Code	20191118/S079
Location of Monitoring	Near East side Boundary
Date of Monitoring	18.11.2019

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	37.2 dB (A)	23.00 Hrs	34.1 dB (A)
07.00 Hrs	39.8 dB (A)	00.00 Hrs	36.6 dB (A)
08.00 Hrs	44.0 dB (A)	01.00 Hrs	37.3 dB (A)
09.00 Hrs	47.5 dB (A)	02.00 Hrs	37.0 dB (A)
10.00 Hrs	49.8 dB (A)	03.00 Hrs	37.7 dB (A)
11.00 Hrs	52.9 dB (A)	04.00 Hrs	36.6 dB (A)
12.00 Hrs	50.2 dB (A)	05.00 Hrs	38.4 dB (A)
13.00 Hrs	49.4 dB (A)	RESULTS	
14.00 Hrs	49.8 dB (A)		
15.00 Hrs	50.2 dB (A)	Noise Level (Leq) Daytime	48.3 dB (A)
16.00 Hrs	51.3 dB (A)		
17.00 Hrs	51.7 dB (A)		
18.00 Hrs	46.3 dB (A)		
19.00 Hrs	42.9 dB (A)	Noise Level (Leq) Nighttime	36.9 dB (A)
20.00 Hrs	39.1 dB (A)		
21.00 Hrs	38.6 dB (A)		
22.00 Hrs	36.0 dB (A)		

End of Report

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



Rija Joseph
Technical Manager
Authorized Signatory

Standard^s Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "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

Result of Noise

Annexure No.13



TEST REPORT

Test Report No: 20191118/R080	Date: 22.11.2019	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	M/s Travancore Bluemetal Industries Pvt Ltd Aruvikkara, Nedumangad, Thiruvananthapuram District
Location of site	Survey 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
	Village	Aruvikkara
	Taluk	Nedumangad
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	---	

SAMPLE DETAILS			
Sample Code	20191118/S080	Sample Received on	19.11.2020
Sample Name	Water	Sampling Procedure	---
Sample Description	Open Well	Sampling Location	---
Identification by Customer	---	Sample Condition	Good
Sampled on	---	Test Started on	19.11.2019
Sampled by	Customer	Test Completed on	22.11.2019

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:1983 RA 2017	---	Agreeable	Agreeable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.10	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	6.83	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2013	µS/cm	45.0	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	29.0	500 (Max)
07	Total Hardness (as CaCO ₃)	IS 3025 Part 21:2009 RA 2014	mg/L	12.0	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2014	mg/L	3.20	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2014	mg/L	< 1.00	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	7.88	250 (Max)
11	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23:1986 RA 2014	mg/L	7.92	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.12	1.00 (Max)
13	Sulphate (SO ₄)	IS 3025 Part 24:1986 RA 2014	mg/L	2.10	200 (Max)
14	Total Coliform Bacteria	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml
15	E coli	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml

End of Report

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



Rija Joseph
Technical Manager
Authorized Signatory

Standard^s Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "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 83
Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of Water

Annexure No.14

AXIS BANK LTD
NEDUMANGAD TVM KL, THIRUVANANTHAPURAM, 695541
IFS CODE - UTIB0002039

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE
DATE 24/02/2020
दिनांक D D M M Y Y Y Y

Pay **BINOJ BABO** OR ORDER / या उनके आदेश पर

रुपये Rupees **FIVE THOUSAND ONLY -** अदा करें ₹ 5000/-

A/C NO. 916020022757698
CACH1 000460

For TRAVANCORE BLUE METAL INDUSTRIES (P) LTD

Authorized Signatory(ies)
Please sign above

॥023296॥ 695211007॥ 000460॥ 29

इंडियन बैंक Indian Bank
Branch : ARUVIKKARA
SHOPPING CENTRE ARUVIKKARA, THIRUVANANTHAPURAM, KERALA - 695564
IFS CODE: IDIB00A070

VALID FOR THREE MONTHS ONLY
10/03/2020
D D M M Y Y Y Y

PAY **YASU** या धारक को OR BEARER

RUPEES रुपये **Twenty Five THOUSAND ONLY -** अदा करें ₹ 25000/-

खा.सं. A/c No. CA 6115067532
CBS Code: 998

FOR TRAVANCORE BLUE METAL INDUSTRIES (P) LTD

992000002 "Payable At Par At All Our Branches"

AUTHORISED SIGNATORY
Please sign above

॥685520॥ 695019081॥ 067532॥ 29

TRAVANCORE BLUE METAL INDUSTRIES PVT LTD
CHERIYAKONNI.P.O, TVM-13, KERALA, CODE:32

PAYMENT VOUCHER

Voucher No 47323 Date 21/03/2020

Account Head: CSR EXPENSES

Particulars: CASH PAID TO SIVAKUMAR NEIGHBOUR (PATIENT) THROUGH SAIFUKKA

Amount: 2000.00
Rupees Two Thousand Only

Prepared By Cashier Receiver's Signature

TRAVANCORE BLUE METAL INDUSTRIES PVT LTD
 CHERIYAKONNI.P.O., TVM-13, KERALA, CODE:32

PAYMENT VOUCHER

Voucher No 36390 Date 31/12/2019

Account Head: CSR EXPENSES

Being : CASH PAID TO MADHU MAILOM FOR HIS MOTHERS OPERATION REC BY BIJU SIR

Amount: 3000.00

Rupees Three Thousand Only

Paid By Prepared By Cashier Receiver's Signature

DIRECTORATE OF MEDICAL EDUCATION
 Medical College Hospital, Thiruvananthapuram

DISCHARGE CARD
 Medicine/Ortho/Surgery/ENT

IP No. 9601069	Unit Ms	DOA 21/12/19	DOD 1/01/2020
Name & Address		Age	Sex
Sreenandana, Sreetha (F) Shibu Nivasam Kalsilakom Mylonis, cheriyekunni - PO TVM		13	F

Complaints and Findings
Diagnosis LRTI .. @ 12 consultations

TRAVANCORE BLUE METAL INDUSTRIES PVT LTD
 CHERIYAKONNI.P.O., TVM-13, KERALA, CODE:32

PAYMENT VOUCHER

Voucher No 45221 Date 09/03/2020

Account Head: CSR EXPENSES

Being : CASH PAID TO SREENANDANA MAILOM REC BY SAIFUKKA

Amount: 3000.00

Rupees Three Thousand Only

Paid By Prepared By Cashier Receiver's Signature

Bill copies of CSR Activities

Annexure No.15

Invoice No. 3
Ref. No.

(ORIGINAL FOR RECIPIENT)

Dated 5-Jul-2018

Sungrid Technologies
C T M Complex
Ambady Lane
Kokkalai
Thrissur - 680021
GSTIN/UIN: 32ACLFS1729D1ZC
State Name : Kerala, Code : 32

Tax Invoice

Party : **TRAVANCORE BLUEMETAL INDUSTRIES PVT LTD**
KADAMBANAD, CHERIYAKONNI P O
TRIVANDRUM
GSTIN/UIN : 32AADCT3759M1Z0
State Name : Kerala, Code : 32

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	24 W STREET LIGHT		1 nos	1,517.86	nos	1,517.86
2	600va Solar Pcu Batch: 050718	8400	1 nos	11,619.00	nos	11,619.00
3	100 AH TUBULAR BATTERY Batch: 050718	8507	1 nos	9,453.00	nos	9,453.00
4	100wp Solarphotovoltaic Module Waaree Batch: 050718	8541	4 nos	5,238.00	nos	20,952.00
						43,541.86
	SGST@14%			14 %		1,323.42
	CGST@14%			14 %		1,323.42
	SGST@2.5%			2.50 %		814.28
	CGST@2.5%			2.50 %		814.28
	SGST@6%			6 %		91.07
	CGST@6%			6 %		91.07
	Round Off					0.60
	Total		7 nos			₹ 48,000.00

Amount Chargeable (in words) **INR Forty Eight Thousand Only** E. & O.E

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
8400	1,517.86	6%	91.07	6%	91.07	182.14
8507	11,619.00	2.50%	290.48	2.50%	290.48	580.96
8507	9,453.00	14%	1,323.42	14%	1,323.42	2,646.84
8541	20,952.00	2.50%	523.80	2.50%	523.80	1,047.60
Total	43,541.86		2,228.77		2,228.77	4,457.54

Tax Amount (in words) : **INR Four Thousand Four Hundred Fifty Seven and Fifty Four paise Only**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Customer's Seal and Signature

for Sungrid Technologies
Authorized Signatory

This is a Computer Generated Invoice

Invoice No. 4
Ref. No.

(ORIGINAL FOR RECIPIENT)

Dated 5-Jul-2018

Sungrid Technologies
C T M Complex
Ambady Lane
Kokkalai
Thrissur - 680021
GSTIN/UIN: 32ACLFS1729D1ZC
State Name : Kerala, Code : 32

Tax Invoice

Party : TRAVANCORE BLUEMETAL INDUSTRIES PVT LTD
KADAMBANAD, CHERIYAKONNI P O
TRIVANDRUM
GSTIN/UIN : 32AADCT3759M1Z0
State Name : Kerala, Code : 32

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount	
1	SLV600L Batch: 040718	8507	1 nos 1 nos	3,789.00	nos	3,789.00	
2	75wp Solarphotovoltaic Module Waaree Batch: 050718	8541	1 nos 1 nos	4,285.71	nos	4,285.71	
3	24watt Solar Dome Batch: 050718	8400	1 nos 1 nos	5,523.81	nos	5,523.81	
						13,598.52	
				SGST@14%	14 %	530.46	
				CGST@14%	14 %	530.46	
				SGST@2.5%	2.50 %	245.24	
				CGST@2.5%	2.50 %	245.24	
				Round Off		0.08	
Total						3 nos	₹ 15,150.00

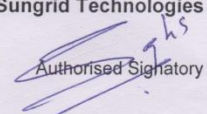
Amount Chargeable (in words) E. & O.E
INR Fifteen Thousand One Hundred Fifty Only

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
8507	3,789.00	14%	530.46	14%	530.46	1,060.92
8541	4,285.71	2.50%	107.14	2.50%	107.14	214.28
8400	5,523.81	2.50%	138.10	2.50%	138.10	276.20
Total	13,598.52		775.70		775.70	1,551.40

Tax Amount (in words) : **INR One Thousand Five Hundred Fifty One and Forty paise Only**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Customer's Seal and Signature _____

for Sungrid Technologies

Authorised Signatory

This is a Computer Generated Invoice

Copy of Solar Bills

Annexure No.16

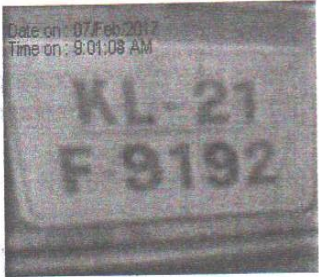
POLLUTION UNDER CONTROL CERTIFICATE

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

Flush into Cycle						
Avg.	RPM Min.	RPM Max.	Temp.			
647	1704	91				
S.No.	RPM Min.	RPM Max.	K m ⁻¹	HSU %	Temp.	
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			

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