Harsh Yadav

From: Rajesh Kumar Jha

Sent: 27 November 2019 11:48
To: rosz.bng-mefcc@gov.in

Cc: seacseiaakerala@gmail.com; Shalin Shah; Manoranjan Tripathy; Harsh Yadav; Hebin

Chenthamarakshan; Jesse Benjamin Fullonton

Subject: EC No. 1200/EC2/2018/SEIAA dated 01.03.2019 - Half Yearly Compliance Report -

Apr 2019 to Sep 2019 - Reg.

Dear Sir.

This has reference to the Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA issued on 3rd March 2019 by the State Environmental Impact Assessment Authority (SEIAA), Kerala for the Proposed Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District.

The compliance report of the conditions stipulated in the cited reference for the half yearly period from **April 2019 to September 2019** can be downloaded from the below link; for record and reference please:

https://1drv.ms/u/s!Av4lh8R9arszg5QANYtqHBzdbO-oRA?e=NLBqiq

You are requested to kindly acknowledge the receipt of the same.

Thanks & regards,

Rajesh Jha

MD & CEO

Adani Vizhinjam Port Pvt. Ltd.

2nd Floor, Vipanchika Tower, PO-Thycaud, Trivandrum- 695014, Kerala, India Direct Line: 0471 277 2116 | www.adani.com





Our Values: Courage | Trust | Commitment





AVPPL/MoEF/2019-20/956

Date: 26th November 2019

To.

Additional Principal Chief Conservator of Forests (C), Ministry of Environment Forest and Climate Change (MoEF&CC),

Regional Office (Southern Zone), Kendriya Sadan,

IVth Floor, E&F Wings, 17th Main Road, IInd Block,

Koramangala, Bangalore-560034

rosz.bng-mefcc@gov.in

Ph: 080-25635901

Subject:

Submission of Compliance Report to Conditions of Environmental

Clearance (EC) for the Period April 2019 to September 2019 - Reg.

Reference: EC for the proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala by Mr. Rajesh Jha, Chief Executive Officer, M/s Adani Vizhinjam

Port Private Limited, No. 1200/EC2/2018/SEIAA dated 01.03.2019

Dear Sir.

has reference to the Environmental Clearance (EC) Order 1200/EC2/2018/SEIAA issued on 3rd March 2019 (vide reference cited) by the State Environmental Impact Assessment Authority (SEIAA), Kerala for the proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District.

The compliance report of the conditions stipulated in the cited reference for the half yearly period from April 2019 to September 2019 is enclosed herewith for record and reference.

Adani Vizhinjam Port Private Limitedi 2nd Floor, Vipanchika Tower, Thycaud Thiruvanathapuram Kerala-695014

www.adani.com CIN -U61200GJ2015PTC083954

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India



You are requested to kindly acknowledge the receipt of the same.

Thanking you.

Yours Sincerely Rajesh Jha

CEO - Authorized Signature

Enclosed: As mentioned above

Copy to:

State Environment Impact Assessment Authority (SEIAA), K.S.R.T.C Bus

Terminal Complex, 4th Floor, Thampanoor, Thiruvananthapuram, Kerala

Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvanathapuram Kerala-695014

Building Stone Quarry Project

Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019

EC Compliance Report for the Period April 2019 to September 2019

Project Proponent



Adani Vizhinjam Port Private Ltd. (AVPPL)

November 2019



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

	Compliance Report on Conditions Stipulated in Environmental Clearance Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2019 to September 2019		
S. No.	Conditions	Compliance Status as on September 30, 2019	
	Speci	fic Conditions	
1	The mining should be conducted with Non-Electric Detonator (NONEL) Method thereby minimizing air blast, fly rock and ground vibration.	Complied Mining is being conducted using Non-Electric Detonator (NONEL) method of Blasting only. To minimize the air blast, fly rock and ground vibration.	
		NONEL Blasting at Site	
2	Extract a maximum of 7 lakh tons of building stone within a period of two years. Further permission for mining may be considered based on the requirement then and environmental assessment.	Will be Complied Adani Vizhinjam Port Pvt. Ltd. (AVPPL) will extract a maximum of 7 lakh tons of building stone quarry within a period of two years. As on 30.09.2019, a total of 0.12 Lakh tons of building stones have been extracted.	
		Further permission for mining will be obtained based on the requirement and environmental assessment.	
3	The proponent shall file an affidavit that he will expend Rs. 15 lakhs as a part of CER in consultation with Local Self Government.	Will be Complied A total of Rs. 15 Lakhs will be spent on Corporate Environment Responsibility (CER). AVPPL are coordinating with the Local Self Government regarding approval of the proposed CER plan with expense heads under specific activities in line with Ministry of Environment and Forests & Climate Change (MoEF&CC) Office Memorandum (OM) F.No.22-65/2017-IA.III dated 01.05.2018.	
		AVPPL had prepared a plan for the budget of Rs. 15 lakhs and have submitted the same to	



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

	Compliance Report on Conditions Stipulated in Environmental Clearance Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2019 to September 2019	
S. No.	Conditions	Compliance Status as on September 30, 2019
4	The proponent should follow the closure plans (progressive closure and final closure) as per KMMC Rules.	the Nagaroor Gram Panchayat seeking their confirmation and go ahead for the proposed CER. Correspondence to the President of the Nagaroor Gram Panchayat is enclosed as Annexure 1. Awaiting confirmation of the same. Once the confirmation from Nagaroor Gram Panchayat has been obtained, affidavit will be submitted that AVPPL will implement the CER agreed upon and expend Rs. 15 lakhs as a part of CER activities. Will be Complied AVPPL will follow the closure plans (progressive closure and final closures) as per Kerala Minor Minerals Concession (KMMC) Rules and Mine Closure Plan in the Approved Mining Plan (Section 8.0); enclosed as Annexure 2.
		The closure procedure (progressive closure and final closures) shall be documented prior to and during the closure of the mine.
	Gene	ral Conditions
1	A separate environmental management and monitoring cell with qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Complied A separate Environmental Management And Monitoring Cell (EMMC) with qualified personnel has been set up by AVPPL. The cell is under the control of the Head of Department (HoD), Environment who reports directly to the Chief Executive Officer (CEO), AVPPL. The constitution of the EMMC is given as Annexure 3.
2	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.	Will be Complied Since inception of the operations of the quarry on 05.06.2019, the monsoon has been active in Kerala and the project area and there has been continuous spells of rain and there has not been any substantial work done during the compliance period. AVPPL will plant suitable avenue trees along the safety zones, along the boundary of the quarry and on either side of the internal road.
3	Sprinklers shall be installed and used in the project site to contain dust emissions.	Being Complied Operations of the quarry started on 05.06.2019. Since inception the monsoon has been active in Kerala. There has been



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

	7/ LOZ/ 20 10/ 3LIAA 08160 01.05.20	19 for the Period April 2019 to September 2019
S. No.	Conditions	Compliance Status as on September 30, 2019
		continuous spells of rain; thereby fugitive dust emissions are being controlled naturally. During non-monsoon seasons, regular water sprinkling through water tankers on haul road and other dust prone areas such as loading and unloading of minerals will be carried out.
4	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent	Will be Complied Eco-restoration including Mine Closure Plan is provided in Section 8.0 in the Approved Mining Plan; enclosed as Annexure 2 . The same shall be implemented during the closure procedure at the cost of AVPPL.
5	In view of the deep pits left after the excavation, stacking at maximum top level should be carried out.	Not Applicable Stacking of materials is not being carried out as all the produced materials are used for Breakwater Construction at Vizhinjam Port and being transported directly to the Port site and not stacked at the quarry site. There is also no overburden stacking as there is no overburden available in the quarry since the quarry has been mined earlier by other parties and is an already open mine.
		As per the mine closure plan the pit will be utilized for storing of water as a rainwater harvesting method and will also be induced to sustain the groundwater table. As per the post mining land use, an area of 0.9540 Ha will be used for water pond for storage of water.
6	Corporate Environment Responsibility agreed upon by the proponent should be implemented.	Will be Complied A total of Rs. 15 Lakhs will be spent on CER. AVPPL are coordinating with the Local Self Government regarding approval of the proposed CER plan with expense heads under specific activities in line with MoEF&CC Office Memorandum (OM) F.No.22-65/2017-IA.III dated 01.05.2018.
		AVPPL had prepared a plan for the budget of Rs. 15 lakhs and have submitted the same to the Nagaroor Gram Panchayat seeking their confirmation and go ahead for the proposed CER. Correspondence to the President of the Nagaroor Gram Panchayat is enclosed as Annexure 1.



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

1200	0/EC2/2018/SEIAA dated 01.03.20	19 for the Period April 2019 to September 2019
S. No.	Conditions	Compliance Status as on September 30, 2019
		Awaiting approval of the same. Once the approval has been obtained, affidavit will be submitted that AVPPL will implement the CER agreed upon and expend Rs. 15 lakhs as a part of CER activities.
7	The project proponent shall comply the conditions stipulated by the statutory authorities concerned	Being Complied AVPPL are complying with all applicable conditions stipulated by respective competent statutory authorities.
8	Tarring /multiple options on the access roads shall be undertaken so as to reduce dust pollution during movement of vehicle.	Complied AVPPL have developed a tar road of around 0.9 km from Kadavilla Junction to the quarry project site gate for movement of vehicles; thereby reducing the dust pollution.
		Z019/9/25 09:39 Tar Road at Project Site
9	Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions	Not Applicable The quarry has been mined earlier by another party and is an already open mine. There is no overburden present in the quarry.
10	Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is no mention in the mining plan/specific condition.	Being Complied As per the approved mining plan, bench height and width need to be maintained at maximum of 6.0 m also a 45° pit slope will be maintained; same is being adhered to.



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

1200)/EC2/2018/SEIAA dated 01.03.20	19 for the Period April 2019 to September 2019
S. No.	Conditions	Compliance Status as on September 30, 2019
11	Ground level should be fixed in individual cases separately	Complied For every bench, ground level is fixed in MSL as individual cases separately. Surface plan with MSL levels is provided in the Approved Mining Plan (Plate No. 6); enclosed as Annexure 2.
12	No mining operations should be carried out at places having a slope greater than 45.	Being Complied No Mining operations are being carried out at places having a slope greater than a 45 degrees angle.
13	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB. This condition is applicable only in such cases if a crusher is adjacent to the quarry	Not Applicable There is no crusher adjacent to the quarry and the same is not proposed
14	The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.	Being Complied All employees are provided with relevant Personal Protective Equipment (PPEs) like Helmets, Shoes, Fluorescent Reflective Jackets, etc.
15	Garland drains with clarifiers to be provided in the lower slopes	Employees with PPEs Will be Complied Mining operations are being carried out in the
	around the core area to channelize storm water.	top level during the compliance period; garland drainage will be developed as the mining



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

)/EC2/2018/SEIAA dated 01.03.20	19 for the Period April 2019 to September 2019
S. No.	Conditions	Compliance Status as on September 30, 2019
		progresses in the lower slopes to channelize storm water.
16	The transportation of minerals should be done in covered trucks to contain dust emissions. The proponent should plant trees at	Being Complied The transportation of minerals in trucks is being undertaken covered with tarpaulin cover.
	least 5 'times of: the loss: that has been occurred while clearing the land for the project. SEAC should assess the number of trees in each project site before the issuance of EC so as to ensure the promptness in, planting.	2019-18/27/09/21
		Trucks with Tarpaulin Cover
		Since this is an existing quarry which was already mined earlier, the quarry is in opened condition. There was no clearing of land for the project and no trees have been cut as there are no trees inside the lease area.
17	Explosives should be stored in	Will be Complied
	magazines in isolated place specified and approved by Explosives Department	As on date, explosives are being procured directly from the approved dealer and not being stored at the project site. However, magazine has been constructed in an isolated area called Chappath; which is 50 km away from the quarry location. Awaiting approval from the
		Trivandrum District Collector and Deputy Chief Controller of Explosives, Ernakulam for storage of explosives in the magazine.
18	A minimum buffer distance of 100m from the boundary of the	As per the Government of Kerala (GoK) State Gazette Notification G.O. (P) No. 25/2017/ID



From: April 2019
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Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

1200	0/EC2/2018/SEIAA dated 01.03.20	19 for the Period April 2019 to September 2019
S. No.	Conditions	Compliance Status as on September 30, 2019
	quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.	dated 22.06.2017, permit holder shall not carry on or allow to be carried on any quarrying operations at or to any points within a distance of 50 m from any residential buildings or from the nearest dwelling unit or other structures.
		Also as per the Consent to Operate (CTO) obtained from KSPCB, quarrying activities are restricted to a distance more than 50 m from the nearby residential buildings. As per the map prepared by the village officer, the nearest house is ~60 m from the boundary of the quarry.
19	50 m buffer distance should be maintained from forest boundaries.	Not Applicable There are no forests in the vicinity of the project site.
20	Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.	Complied CTO has been obtained from Kerala State Pollution Control Board (KSPCB) vide Consent No. PCB/TVM-DO/ICO/QRY/103/2019 dated 05.03.2019 valid up to 27.02.2021. A copy of the same is enclosed as Annexure 4 .
21	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	Complied AVPPL have obtained all applicable statutory clearances from the respective competent authorities. The following clearances have been obtained: • Govt. Land No Objection Certificate (NoC) from Trivandrum District Collector vide Letter No. B7-40269/2017 dated 30.04.2018 (Annexure 5) • Letter of Intent from Director of Mining & Geology (DMG) vide Letter No. 9363/M3/2018 dated 04.09.2018 (Annexure 6) • CTO has been obtained from KSPCB vide Consent No. PCB/TVM-DO/ICO/QRY/103/2019 dated 05.03.2019 valid up to 27.02.2021 (Annexure 4). • Purchase and Use of Explosives Approval from Petroleum & Explosives Safety Organization (PESO), Ernakulam vide Letter No. E/Misc/Expl dated 27.03.2019 (Annexure 7)



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

	JIEG2/2010/SEIMA Udteu U1.U3.20	19 for the Period April 2019 to September 2019
S. No.	Conditions	Compliance Status as on September 30, 2019
		 Dangerous and Offensive Trade (D&O) License from Nagaroor Gram Panchayat vide License Number A2.1836\2019 dated 01.04.2019 (Annexure 8). NoC for Use of Explosives from District Collector, Thiruvananthapuram vide File No.DCTVM/2436/2019-A17 dated 09.05.2019 (Annexure 9). Approved Mining Plan by District Geologist, Trivandrum vide Letter No. 1716/DOT/ML/18 dated 20.05.2019 (Annexure 2). Lease Order from DMG vide Letter No. 9363/M3/2018 dated 20.05.2019 (Annexure 10). Lease Execution from Additional Director of Mining and Geology vide Letter No. 79/2019-20/9363/M3/2018/DMG dated 20.05.2019 (Annexure 11). Quarrying Lease Registration Agreement in Form H at Chirayinkeezhu Register Office dated 22.05.2019 (Annexure 12).
22	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 E.C 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 The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action	• Quarrying Lease Registration Agreement in
	including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures	



From: April 2019
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Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

		19 for the Period April 2019 to September 2019
S. No.	Conditions	Compliance Status as on September 30, 2019
	in a time bound and satisfactory manner.	
24	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
25	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.	The copy of EC is uploaded to the company website: https://www.adaniports.com/ports-downloads?port=Vizhinjam-Port Screenshot of the same is enclosed as Annexure 15.
26	The Environmental Clearance shall be put on the website of the company by the proponent.	Complied The copy of EC is uploaded to the company website: https://www.adaniports.com/ports-downloads?port=Vizhinjam-Port Screenshot of the same is enclosed as Annexure 15.



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

1200	0/EC2/2018/SEIAA dated 01.03.20	19 for the Period April 2019 to September 2019
S. No.	Conditions	Compliance Status as on September 30, 2019
27	Proponent shall submit half yearly reports in soft copy and SEIAA will upload it on the website.	Will be Complied Since the EC for the project was issued on 01.03.2019 and AVPPL did not initiate any work at site by the end of the compliance period ending in 31.03.2019. Therefore the compliance for the half yearly period ending 31.03.2019 was not substantial and AVPPL requested MoEF&CC that the first half yearly compliance report will be submitted for the period April 2019 to September 2019. AVPPL had complied with the conditions that were applicable prior to commencement of operations and details of the same was submitted to MoEF&CC vide letter AVPPL/MOEF/2019-20/752 dated 25.04.2019 and email dated 08.05.2019 is enclosed as Annexure 16; same has been copied to SEIAA and KSPCB. This present report is the first Half Yearly compliance to EC conditions for the period April 2019 to September 2019.
28	The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public	Complied The details of EC have been displayed at the site next to the entrance of the quarry, visible to the public.



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

S.	Conditions	Compliance Status as on September 30, 2019
No.	Condicions	Compilance Status as on September 30, 2019
		MANUAL METAL DOUBLE POLITICAL PROPERTY OF THE
29	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 AVPPL has provided Notarized Affidavit dated 03.04.2019 stating that all the conditions stipulated in the EC shall be scrupulously followed; enclosed as Annexure 17. Copy of the same was submitted to SEIAA vide Letter No. AVPPL/SEIAA/2019-20/731 dated 01.04.2019; enclosed as Annexure 14.
30	No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable	Noted for Compliance
31	The Project proponent shall ensure that no natural water course and/or water resources	Not Applicable There are no natural water courses and/or water resources of first order streams in and



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

120	0/EC2/2018/SEIAA dated 01.03.20	19 for the Period April 2019 to September 2019
S. No.	Conditions	Compliance Status as on September 30, 2019
	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.	around the mine lease area.
32	The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to. 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.	Not Applicable The quarry has been mined earlier by other parties and is an already open mine. There is no top soil or overburden available in the quarry. The produced materials are all used for Breakwater Construction at Vizhinjam Port and therefore there is no requirement of dump sites.
33	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	Will be Complied The quarry has been mined earlier by other parties and is an already open mine and hence there is no top soil or overburden available in the quarry. Also, there are no mineral dumps since all the produced materials are used for Breakwater Construction at Vizhinjam Port. Therefore, catch drains for prevention of runoff is not required at the project site. However, siltation pond of appropriate size will
	shall be regularly desilted particularly after monsoon and maintained properly.	be created by constructing a check dam (up t 10m X 1.5m size) at the bottom of the Quart area to prevent run-off of water and flow o



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To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

1200	0/EC2/2018/SEIAA dated 01.03.20	19 for the Pe	riod April	2019 to	Septer	nber 2019
S. No.	Conditions	Compliance	Status a	s on Sep	otember	30, 2019
		sediments. utilized for greenbelt de	watering	g the i		
			-	•		•
34	Effective safeguard measures such as- regular water sprinkling shall be carried out in critical areas prone to air pollution and having' high levels. 'of PM 10, and PM 2.5, such as haul Road, loading and unloading points and transfer points— it shall 'be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard	after monsoon and maintained properly. Complied Since inception of the operations of the qual on 05.06.2019, the monsoon has been active Kerala and the project area and there has be continuous spells of rain thereby fugitive demissions are being controlled naturally. During non-monsoon seasons, regular was sprinkling through water tankers on haul read and other dust prone areas such as loading a unloading of minerals will be carried out. Environment Monitoring at the site has be carried out by NABL and MoEF&CC accredit			en active in e has been gitive dust ally. ular water haul road oading and out. e has been accredited laboratory Monitoring eriod at 5	
		Parameter	Unit	Max	Min	Perm. Limit
		PM ₁₀	µg/m³	60.2	43.6	100
		PM _{2.5}	µg/m ³	32.5	22.8	60
,		SO ₂	μg/m ³	25.2	16.4	80
ı		NO ₂ Ammonia	µg/m³ µg/m³	14.6 BDL	12.4 BDL	80 400
		The Monitor 18. All the monitor within the p	ing Repo	rt is enc	losed as	s Annexure



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

1200	O/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2019 to September 2019				
S. No.	Conditions	Compliance Status as on S	September	30, 2019	
35	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained	Being Complied Since inception of the ope on 05.06.2019, the monsor Kerala and the project area continuous spells of rain temissions are being control During non-monsoon sea sprinkling through water to and other dust prone areas unloading of minerals will be	on has been a and thereby furthereby further	en active in e has been gitive dust ally. ular water haul road pading and	
36	Measures should be taken for control of noise levels below 85 dBA in the work environment.	Being Complied The following measures are control of noise levels: Drilling: The good cabeing used in drilling equivalent of the blasting: AVPPL is using bottom initiation to respond to the blasting. Machineries & Tippers equipment's are fitt silencers, mufflers, a shields, as necessary. It is ensured that vehice materials follow the spendintain the noise level. Vehicles are service maintained properly to generation of noise or vehicles are service maintained properly to generation of noise or vehicles. Ambient Noise is being more Moeffect accredited. Metamorphosis laboratory per Noise Pollution (Regules, 2000 (Rules 3 (1) and Summary of the Ambiend during the compliance per locations is mentioned belocations is mentioned belocations.	e being take ptive sile puipment. It is ensed with coustic I cles transpeed limit is ed regulation from tored by laborato Private I gulation & 4(1)) at 5 t Noise I frod at 5 ind at 5	encers are method - noise of sured that effective inings, or orting the in order to larly and unwanted om them NABL and ry; M/s. Limited as Control) is locations. Monitoring	
		Quarry Area	72.6	55.7	
		Near Kadavila bus stop @ 450 m >> SE	69.9	48.5	
		Settlement @ 900 m >> W	62.8	52.4	



From: April 2019
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Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

	JU/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2019 to September 2019					
S. No.	Conditions	Compliance Status as on S	September	30, 2019		
		Settlement @ 330 m >> NNW	62.3	53.5		
		Near Altharamudu bus stop @ 825 m >> NNE	64.6	54.1		
		The results obtained were of Pollution (Regulation & (Rule 3(1)) and 4(1)) and it noise readings were within area at the quarry site. Ho night time noise readings the other four locations (roto day to day activities by the vicinity.	Control) R is observen limits for wever, day were abovesidential	ule, 2000 ed that the r industrial y time and re limits at areas) due		
		The Noise Monitoring repartment Annexure 19.	port is er	nclosed as		
37	The funds earmarked for environmental protection measures and CER activate 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.	AVPPL has entered in Agreement with GoK for to operation of Vizhinjam mandated under Article Annexure 20) that an Esc be opened by AVPPL. All made into this account and to be routed through the construction of the pordirectly under the monit Central and State govern Senior Lenders i.e. Yes Ban	he construed to the construction of the constr	reby it is closed as unt has to have to be hents have it for the account is both the		
		Therefore, it is requested to opening of separate accompanies will be a direct of Concession Agreement. A quarry, AVPPL guarantees Rs. 15.00 Lakhs earmarked as a balance in the current a CA certificate will be declaring the expense Furthermore, as provided will be monitored by the go	ount be all ontradictions the own that the for CER we be against that above the output of the for the contradictions of the contradi	bsolved as on to the ner of the amount of will be kept ecount and d annually this fund.		
38	The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The	Will be Complied All necessary support will Regional Office of MOER Bangalore for the monitoring	= & CC Ing of the c	ocated at compliance		
	project authorities should	of the stipulated con	ditions (Office by		



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

1200	1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2019 to September 2019					
S. No.	Conditions	Compliance Status as on September 30, 2019				
	extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data/information/monitoring reports.	furnishing the requisite data/information/monitoring reports.				
39	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				
40	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				
41	The SEIAA may revoke or suspend the order, for non-implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection	Noted				
42	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.	Noted				
43	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				
44	The mining operation shall be	Complied Page 14 of 19				



From: April 2019
To: September 2019

Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

1200	00/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2019 to September 2019				
S. No.	Conditions	Compliance Status as on September 30, 2019			
	restricted to above ground water table and it should not intersect ground water table	Based on observations made in and around the quarry area, it was found that the general ground level in the area is 32 m above MSL and the general groundwater table is 8 m below the general ground level i.e. 24 m above MSL. During monsoons the ground water table will rise by 2-3 m. The lease area is situated on an isolated hillock where the top most working level is about 106 m above MSL and the lowest working level is 70 m above MSL. The total depth will be 36 m. Therefore mining operations will be restricted to workings at a higher level at the quarry and will not touch the ground water table.			
45	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area	Complied It is ensured that all vehicles used for transportation are having valid Pollution Under Control (PuC) certificate from authorized pollution taking center.			
		Digital of Teeting 20 Jen 10 Special Manufacture 2 1750 Am			
		PuC Certificate			
46	Project proponent should obtain	Not Applicable			
	necessary prior permission of the competent authorities for drawl	AVPPL are not withdrawing the surface water or ground water for any purposes.			
	of requisite quantity of surface	or ground water for any purposes.			
	water and ground water for the project				
47	Regular monitoring of flow rates	Not Applicable			
	and water quality upstream and	There are no springs and perennial nallahs			



From: April 2019
To: September 2019

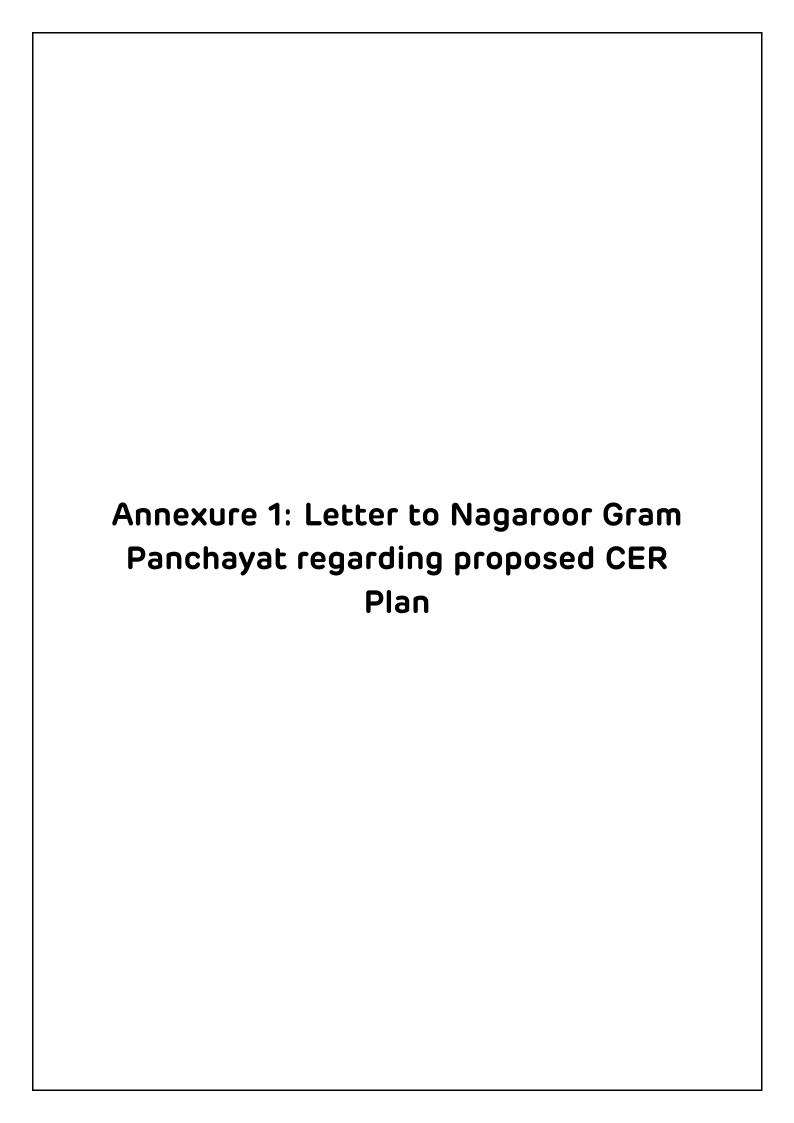
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District

Compliance Report on Conditions Stipulated in Environmental Clearance Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2019 to September 2019

S. No.	Conditions	Compliance Status as on September 30, 2019
	downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA	flowing upstream and downstream of the mine lease area as there are no water courses and/or water resources of first order streams in and around the mine lease area.
48	Occupational health surveillance program 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 Occupational health surveillance program of the workers will be undertaken. Since the mine has been in operation since 05.06.2019, the medical health test of the workers and laborers shall be taken up taken in December 2019 and will be also taken up periodically to observe any contractions due to exposure to dust and take corrective measures.

Enclosures:

Annexure Number	Details of Annexure
Annexure 1:	Letter to Nagaroor Gram Panchayat regarding proposed CER Plan
Annexure 2:	Approved Modified Mining Plan by District Geologist, Trivandrum
Annexure 3:	Constitution of the Environmental Management and Monitoring Cell
Annexure 4:	Consent to Operate (CTO)
Annexure 5:	Govt. Land NoC from Trivandrum District Collector
Annexure 6:	Lol from DMG
Annexure 7:	Purchase and Use of Explosives Approval from PESO, Ernakulam
Annexure 8:	D&O License from Nagaroor Gram Panchayat
Annexure 9:	NoC for Use of Explosives from District Collector, Thiruvananthapuram
Annexure 10:	Lease Order from DMG
Annexure 11:	Lease Execution from Additional Director of Mining and Geology
Annexure 12:	Quarrying Lease Registration Agreement in Form H
Annexure 13:	Extracts of Newspaper Clippings with EC advertisements
Annexure 14:	Submission Letter of Newspaper Advertisements and Affidavit to SEIAA
Annexure 15:	Screenshot of the APSEZ website with EC uploaded
Annexure 16:	Letter to MoEF&CC for Submission for First Half Yearly Compliance
- minexere rer	Report to be submitted for the period ending March 2019
Annexure 17:	Notarized Affidavit that all the Conditions stipulated in the EC shall be
	scrupulously followed
Annexure 18:	AAQM Report
Annexure 19:	Noise Monitoring Report
Annexure 20:	Article 32 of Concession Agreement with GoK





90

Ref: AVPPL/KSPCB/2019-20/883-B

Date: 23rd September 2019

To,
The President
Office of the Nagaroor Grama Panchayat
Chemmarathamukku, Nagaroor
Thiruvananthapuram
Kerala - 695601

01.03.2019 (Enclosed)

Attention: Mr. M. Reghu

Sub: Compliance of the Environmental Clearance Issued for the proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala – Corporate Environment Responsibility – Reg.

Ref: 1. Ministry of Environment and Forests and Climate Change (MoEF&CC)
 Office Memorandum (OM) dated 01.05.2018 (Enclosed)
 Environmental Clearance Order No. 1200/EC2/2018/SEIAA dated

Dear Sir.

This is with reference to the Environmental Clearance (EC) issued for the proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala.

As per the above referred EC (Order No. 1200/EC2/2018/SEIAA dated 01.03.2019) obtained for the proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala, the Specific Condition at Point No. 3 states that "The proponent shall file an affidavit that he will expend Rs. 15 lakhs as a part of Corporate Environment Responsibility (CER) in consultation with Local Self Government".

In this regards, AVPPL have prepared a plan considering the budget of Rs. 15 Lakhs for the proposed CER activities under broad heads in line with the MoEF&CC OM dated 01.05.2018, Please find enclosed the same.

Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvananthapuram Kerala-695014

www.adeni.com CIN -U61200GJ2015PTC083954

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India



Since as per the EC, the CER plan is to be finalized in consultation with Local Self Government, requesting you to review the plan from your end and revert with appropriate comments/remarks; if any.

Thanking You and With Regards.

- 7-169.23.9.20A.

Manoranjan Tripathy Deputy General Manager

Enclosed:

 Ministry of Environment and Forests and Climate Change (MoEF8CC) Office Memorandum (OM) dated 01.05.2018

 Environmental Clearance Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala

 Proposed CER Plan of Rs. 15 Lakhs for proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala

Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvananthapuram Kerala-695014

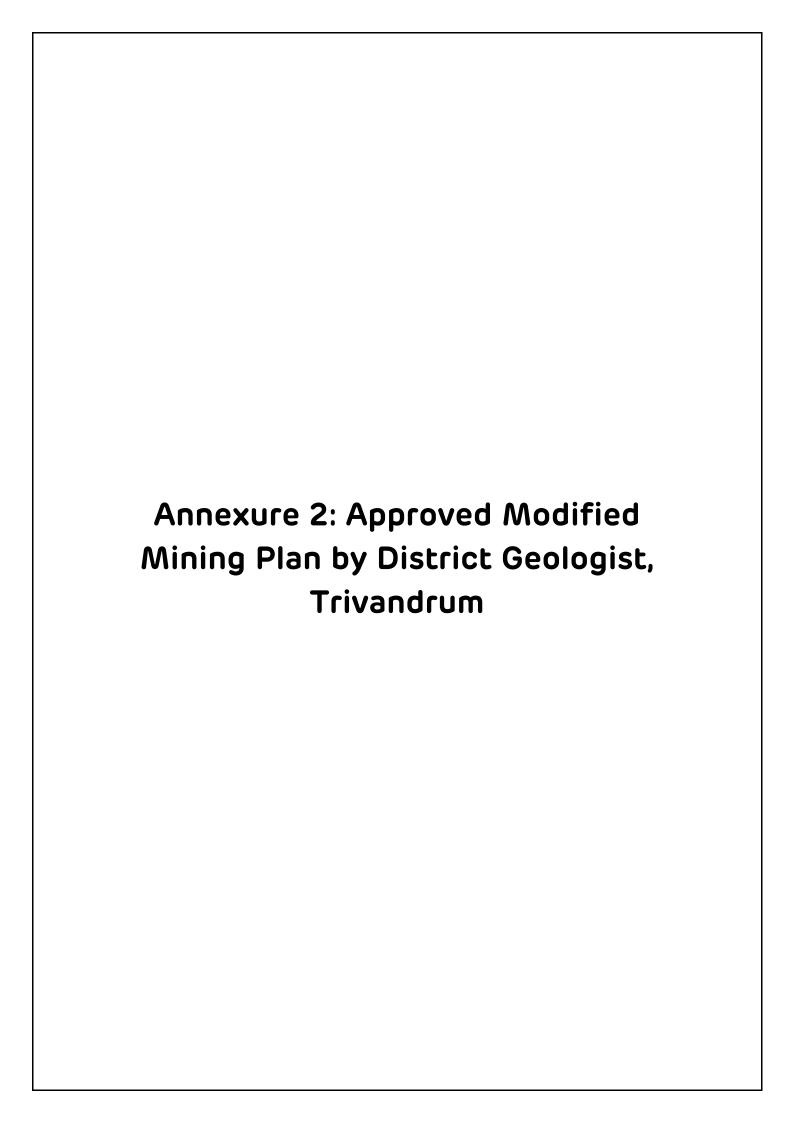
www.adani.com CIN -U61200GJ2015PTC083954

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India

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Modification in the approved mining plan

including Progressive Mine Closure plan Prepared under Rule 56 (2) & 58 of Kerala Minor Mineral Concession Rule - 2015 for the applied Building Stone Quarry

Situated in Re - Sy. Block No. 37, Re - Sy No. 555/2 (Govt. Land) of Nagaroor village, Chirayinkeezh Taluk, Thiruvananthapuram District - Kerala State.

> Type of Land : Government Land. EXTENT: 3.6630HA

M/s. ADANI VIZHINJAM PORT PVT. LTD., 2nd Floor, Vipanchika Tower, Thycaud THIRUVANANTHAPURAM - KERALA

PREPARED BY

KANTHARAJ. K.

RQP/GOA/130/2000/A

METAMORPHOSIS

200, 2nd Floor, 40th Main, 1ST Cross, Behind Silk Board, BTM Layout, 2nd Stage, Kuvempu Nagar, Bangalore - 560 068 Ph: +91 80 2678 3006

Mob. +91 9448384321

No. 1716/DOT/ML/18

Department of Mining & Geology

Government of Kerala

District Office, Thiruvananthapuram,
Kesavadasapuram, Pattom Palace P. O.,
Thiruvananthapuram 695004

Phone 0471-2442055

eMail: geo.thi.dmg@kerala.gov.in Dated 20.05.2019

From Geologist

To

M/s.AdaniVizhinjam Port Pvt. Ltd.,

2ndFloor, Vipanchika Tower, Thycaud,

Thiruvananthapuram.

Sir,

Sub:- Approval of Eco-friendly modified Mining Plan - Granite Building Stone quarry in Block no.37Re-sy.nos.555/2, of Nagaroor Village, ChirayinkeezhuTaluk, ThiruvananthapuramDistrict - reg.

Ref:- 1. Kerala Minor Mineral Concession Rules 2015

2. Your application dated 13.6.2018

3. Site inspection dated 16.5.2019

The modified mining plan for the Granite Building Stone quarry of M/s. AdaniVizhinjam Port Pvt Ltd, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District in Block no. 37 Re-sy. nos. nos. 555/2of Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala for an extent of 3.6630 Hectares is hereby approved vide the powers delegated to the District geologist for the approval of mining plan for the minor minerals issued under Rule 66 of Kerala Minor Mineral Concession Rules 2015, with the following conditions:-

- 1. That you will follow the prescribed Rules & Regulations of Central Government and State Government issued from time to time in regard to mining.
- 2. That you will follow the Mines Safety Rules & Regulations.
- 3. That you will store the mining waste in the earmarked location/dumping yard only as specified in the plan.
- 4. That you will carry out the plantation as committed in the plan.
- 5. That provision shall be made for the housing facility for the labour with all basic infrastructure facilities including safe drinking water, toilets etc., within the site.
- 6. That the yearly production (1st year -399375MT, 2nd year -300625MT, 3rd year, 4th year& 5th year 1078750MT respectively) approved in the plan shall be strictly adhered to and if any deviation is required the same shall be intimated in advance.

i

Yours faithfully,

i

Geologist

CERTIFICATES

No.

187

1/2/1

78%

10



CERTIFICATE

This is to certify that the modification in the approved Mining / quarrying Plan including Progressive Mine Closure Plan of proposed Building Stone quarry is situated at Re - Sy. Block No. 37, Re - Sy No. 555/2 (Govt. Land) Nagaroor village, Chirayinkeezh Taluk of Thiruvananthapuram District - Kerala state, extends over an area of 3.6630 Ha, of M/s. Adani Vizhinjam Port Pvt. Ltd., has prepared under Rule 56 (2) & 58 of KMMCR 2015 by Mr. KANTHARAJ K

This is to request the Department of Mining and Geology, to make any further correspondence regarding any correction of the Mining Plan with the said recognized person at his address below:

KANTHARA	AJ K
METAMORP	HOSIS
Head Off	ice
"PRAKRUTHI B	HAVAN"
# 200, 1 ST & 2 nd Floor, 40 ⁷	TH Main, 1 ST Cross,
Behind Silk Board, BTM	Layout, 2 nd Stage,
Bangalore – 5	
+91 80 26687649	+9180 26783006
+91 94483 84321	+91 98450 27457

We hereby undertake that all modifications / updating as made in the said Mining plan by the said recognized person be deemed to have been made with our knowledge and consent and shall be acceptable on us and binding in all respects.



- 2. It is certified that the **Progressive Mine Closure Plan** (in the approved mining plan) of proposed Building Stone quarry is situated at Re Sy. Block No. 37, Re Sy No. 555/2 (Govt. Land) in Nagaroor village, Chirayinkeezh Taluk of Thiruvananthapuram District Kerala state, extends over an area of 3.6630 Ha, of M/s. Adani Vizhinjam Port Pvt. Ltd., Complies all statutory rules, regulations, orders made by the Central or State Government, Statutory Organizations, Court etc., which have been taken into consideration and wherever any specific permission is required the lessee will approach the concerned authorities. The Information furnished in the **Progressive Mine Closure Plan** is true and correct to the best our knowledge and records.
- 3. The provision of Mines Act, Rules and Regulations made there under have been observed in the modified in the approved Mining Plan of proposed Building Stone quarry is situated at Re Sy. Block No. 37, Re Sy No. 555/2 (Govt. Land) in Nagaroor village, Chirayinkeezh Taluk of Thiruvananthapuram District Kerala state, extends over an area of 3.6630 Ha, of M/s. Adani Vizhinjam Port Pvt. Ltd., where specific permissions are required, the applicant will approach Director General of Mines Safety, and further the Standards prescribed by DGMS in respect of Miners Health will be strictly implemented.

For ADANI VIZHINJAM PORT PVT. LTD.

DATE: 01- 04- 2019

PLACE: THIRUVANANHAPURAM

RAJESH JHA
Authorized signatory



CERTIFICATE

This is to certify that, the provision of KMMCR 2015, have been observed in preparation of the modification in the approved Mining Plan of proposed Building Stone quarry situated in Nagaroor village, Chirayinkeezh Taluk of Thiruvananthapuram District - Kerala state at Re - Sy. Block No. 37, Re - Sy No. 555/2 (Govt. Land) extends over an area of 3.6630 Ha, of M/s. Adani Vizhinjam Port Pvt. Ltd., wherever the specific permissions are required, the applicant will approach the concerned authorities of Department of Mining and Geology.

The information furnished in the mining plan is true and correct to the best of our knowledge.

Date

29/3/19

Place:

Bangalore.

KANTHARAJ K

RQP/GOA/130/2000/A.



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EAS		1:10	00 or 1: 2000 scale of the format may be taken as the base plan.	
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	3	Copy of the Board of resolution						
	4	Copy of the photo ID and address of the Authorized signatory						
	5	Copy of the work order (development of port)						
	6	Copy of the Form - B						
	7	Copy of the letter of intent received from the Director, DMG.						
	8	Copy of the NOC received from DC - Trivandrum						
	9	Copy of the affidavit of IT filing.						
	10	Copy of the affidavit for taking safety and environmental protective measures.						
	11	Copy of the certificate of the RQP	-					
	12	Copy of the Calculation of area, volume and tonnages of Reserve Estimation.						
	13	Copy of the Calculation of area, volume and tonnages of Production programme						
	14	Copy of the Air quality monitoring report						
	15	Copy of the water quality report.						
	16	Copy of the Noise level reports						
	17	Copy of the report of soil quality						
	18	Copy of the demarcation certificate						
	19	Copy of non assignment certificate						
	20	Copy of the approval of the mining plan						
	21	Copy of the Environmental clearance.						



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10.00 00.00 ** ** W - W W W , ' U U · ' v v + ' U U + ' 0 0 , ' v '

MODIFICATION IN THE APPROVED MINING PLAN / QUARRYING PLAN OF PROPOSED "BUILDING STONE QUARRY" OF M/s. ADANI VIZHINJAM PORT PRIVATE LIMITED

situated at Re - Sy. Block No. 37, Re - Sy No. 555/2 (Govt. Land) in Nagaroor village, Chirayinkeezh Taluk of Thiruvananthapuram District - Kerala state, extends over an area of 3.6630 Ha, (Prepared under Rule 56 (2) & 58 of KMMCR 2015)

INTRODUCTION.

The mining / quarry plan was prepared for the said proposed quarry for a maximum production of 5,12,000 tonnes per year (during the third year of the plan period) and the same was approved by the District Office, Department of Mining and Geology. Thiruvananthapuram, vide their office letter No. 1716/DOT/ML/2018 dated 26.09.2018. a copy of the approval letter of the mining plan is enclosed as Annexure No. 20.

Further SEIAA has accorded the Environmental Clearance for said proposed quarry over a production not exceeding 7,00,000 tonnes for two years, a copy of the Environment Clearance is enclosed as Annexure No. 21. And also stated that if further mining may be considered based on the requirement and Environmental assessment.

In view of the above, the approved mining of the said quarry is now modified accordingly under Rule 56 (2) & 58 of KMMCR 2015 and submitted for your kind approval of the same and which is required to get register and execute the lease.

Note:

Consider the said modification, only the relevant chapters / paragraphs, plans / drawings (Production plan, production section, conceptual plan and Progressive mine closure plan) and two annexure are added (namely copy of the approval of mining plan and copy of the Environment clearance) and one annexure no. 13 (production calculation) are modified accordingly, while the unchanged is retained as it is. Where ever the modification/s paragraphs / chapters are indicated in italic and underlined.

KANTHARAJ K RQP / GOA / 130 / 2000 / A

Prepared by Kantharaj K - Metamorphosis - Bangalore...

The Adani Group is one of India's leading business houses based at Ahmadabad – Gujurat, founded in 1988. Adani has grown to become a global integrated infrastructure player with businesses in key industry verticals – Resources, in coal mining and trading; Logistics, which is spread across ports, logistics, shipping and rail; Energy, with renewable, thermal power generation and transmission businesses and Agro commodities and ancillary industries. The integrated model is well adapted to the infrastructure challenges of the emerging economies.

Adani Ports and Special Economic Zone Limited (APSEZ) is promoted by Adani Group, which is one of India's largest business conglomerates. The US\$11 bn Group has interests across resources.

90% of India's international trade is through its ports, where Adani represent 24% of the country's port capacity and handle 15% of the country's seaborne cargo. Adani ports' footprint is spread across the Indian coastline with ports at 10 different locations. Adanihave ports at Mundra, Dahej, Tuna (in Tekra), Hazira and Mormugao, on the west coast; Dhamra and Visakhapatnam on the east coast; and Kattupalli and Ennore on the southern coast of India. Now container transshipment terminal is also upcoming Vizhinjam port in Thiruvananthapuram, Kerala.

AdaniVizhinjam Port Pvt, Ltd., (AVPPL) is company belongs to Adani groups, having their Registered office at Ahmedabad – Gujarat, and the local office at 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram - 695014. The said company is a private limited company register under Companies Act, 2013 on 27thJuly 2015. A copy of the incorporation certificate is enclosed as Annexure No. 1.

Further a copy of the MOA &AOA is enclosed as Annexure No.2. Mr. Rajesh Jha is the Chief Executive officer (CEO) and authorized signatory of the said quarry for all the operations. A copy of the board of resolution passed by the company is enclosed as Annexure No. 3.A copy of the photo ID and address proof of the authorized signatory is enclosed as Annexure No. 4

The said company is in various infrastructural and construction activities, they have been awarded by the Government for the development of Vizhijam port at Thiruvananthapuram, which is a national developmental activity. A copy of the same is enclosed as Annexure No.

In view of the above, for the development of the port, Building stone material is one of the major raw material. So the said company has applied in "Form B" to DMG, Thiruvananthapuram, Government of Kerala for the grant of Quarry lease in Re - Sy. Block No. 37, Re - Sy No. 555/2 of Nagaroor village (Kadavila), Chirayinkeezh Taluk,

Thiruvananthapuram District over an area of 3.6630 Ha. A copy of the **form B** is enclosed as **Annexure No. 6.**

M/s. AVPPL are in receipt of the Letter of Intent from the DMG – Thiruvananthapuram for submission of approved quarry plan and Environmental clearance for process of grant of the lease, a copy of the same is enclosed as Annexure No. 7.

Since the said land belongs to government (Parambooke) land, the district collector of Thiruvananthapuram has issued the NOC for purpose of quarry operation a copy of the same is enclosed as **Annexure No. 8**. The proposed area was demarcated on the ground by the village officer and also they have issued the demarcation certificate and non assignment certificate. A copy of the same is enclosed as **Annexure No. 18 & 19** respectively.

When once the lease is granted, applicant will take all the proposed safety, environmental protective and other measures, to this effect an affidavit has been submitted to DMG along with the Form B, a copy of the same is enclosed as Annexure No. 9. Further company has filed the income tax returns up to date and an affidavit to an extent has been submitted to DMG along with the Form B, a copy of the same is enclosed as Annexure No. 10.

A Block map showing the above said area duly signed by the village officer is enclosed as **Plate No. 3** & Survey maps showing the said lease (lease sketch) duly signed by the village officer is enclosed as **Plate No. 4**. The said area is marked on the google image and enclosed as **Plate No. 5**.

The said area was worked by some party earlier, and there is no operation of this area since from last few years, thereafter M/s. AVPPL approached Kerala government for grant of building stone quarry.



1.0 GENERAL:

a) Name and Address of the Lessee:

Name of the applicant	AdaniVizhinjam Port Pvt, Ltd.,
	Represented by
	Mr. Rajesh Jha- Chief Executive Officer, (CEO)
Address	2 nd Floor, Vipanchika Tower,
	Thycaud, Thiruvananthapuram.
District	Thiruvananthapuram
State	Kerala
Phone	
Fax	nil
Email	kadavilaland1@gmail.com
Mobile	+91 9099005722

Mr. Rajesh Jha is the chief executive officer (CEO) and authorized signing authority for the operation of the said quarry. To this effect board of resolution was passed and a copy of the same is enclosed as Annexure No. 3. Further a copy of the photo ID and address proof of the Authorized signatory is enclosed as Annexure No. 4.

- b) Status of the Applicant : Private Limited Company.
- c) Mineral(s) which is / are included in the prospecting license (for Fresh grant):

Charnockite as Building Stone Material

d) Mineral(s) which is / are included in the / are included in the letter of Intent / Lease deed:

Charnockite as Building stone Material.

e) Mineral(s) which is the applicant / lessee intends to mine:

Charnockite as Building stone Material.



f) Name of the Recognized Person preparing Mining Plan:

Name	No.	KANTHARAJ K	ii N		
Address	m M	ETAMORPHOSIS	The state of the s		
	Head Office				
	# 200, 2 nd Floor, 40 th Main,1 ST Cross,				
	Behind Silk Board, BTM Layout,				
	2 nd Stage, Kuvempu Nagar,				
		Bangalore - 560 068			
Phone & Fax	+91 80 26687649 +9180 2678				
Mobile	+91 94483 84321 +91984502				
E-mail	kantharajk@metamorphosis-india.com,				
Registration No.	RQP / GOA / 130 / 2000 / A				
Valid up to	5 th October 2022				

A copy of RQP certificate is enclosed as Annexure No. 11.

2.0 LOCATION AND ACCESSIBILITY:

a) Lease details:

The said proposed quarry area falls in the Re - Sy. Block No. 37, Re - Sy No 555/2 (Govt. Land) extends over an area of 3.6630 Ha of Nagaroor village (Kadavila), Chirayinkeezh Taluk of Thiruvananthapuram District - Kerala state. The said area lies towards southwest of Nagaroor village at a distance of 1.20kmsand lies towards north of Kadavila Bus stop at a distance of 0.50kms approximately (distances are aerial distance). This lease area is approachable by all-weather road/s up to the up to Kadavila bus stop, thereafter a kutcha road towards north will leads to area.

Thiruvananthapuram is the district head quarter and state's capital too, which is at a distance of 35.0 kms (by road) towards south of quarry area & Chirayinkeezh is the Taluk head quarter which is at a distance of 13.0 kms towards southwest, where all the infrastructural facilities are available. The nearest airport is at Thiruvananthapuram at a distance of 40.0 kms and sea port at kollam which is at a distance of 50.0 kms. The nearest railhead on Broadgauge is Chirayinkeezh which is at distance of 9.0 kms.

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Toposheet No. with Latitude & Longitude of all corner boundary points / pillars:

This area falls under the Survey of India's Topomap No. 58 / D / 13 & 58 / D / 14. Since the topomaps of Kerala are restricted the same are not available. The said quarry area falls between the geographical co-ordinates i.e

Latitude	08°43' 42.88" N to 08°43' 51.74" N
Longitude	76°50' 15.26" E to 76° 50' 23.24" E

Totally, there are 5 corner pillars, where all the latitude and longitude are recorded and the same are furnished below:

Boundary	Latitude: N		e:N	Lo	ongitude : E	
Pillar	D	M	S	D	M	S
1	08	43	45.98	76	50	15.26
2	08	43	48.12	76	50	17.27
3	08	43	51.74	76	50	21.24
4	08	43	44.83	76	50	23.24
5	08	43	42.88	76	50	15.87

However the Latitude and Longitude so recorded of all the corner boundary pillar is also depicted on the Surface Plan enclosed as **Plate No. 6** and the area is marked on the google satellite image and enclosed as **Plate No. 5**.

Name of the Mine

111

Charnockite as Building stone quarry

Date of Grant of Lease

Applied for fresh grant

& Period / Expiry Date

Name of the Lease holder :

Adani Vizhinjam Port Pvt, Ltd.,

Mr. Rajesh Jha- Authorized signatory.

Address	2 nd Floor, Vipanchika Tower,
Address	Thycaud, Thiruvananthapuram
District	Thiruvananthapura
State	Kerala
Phone	
Fax	nil
Email	kadavilalandl@gmail.com
Mobile	+91 9099005722

b) Details of applied / lease area with location map (fresh area / mine)

Forest in V		Non Forest	V
Forest (Specify)	Area in Ha	10	Area in Ha
		1. Waste Land	
		2. Grazing land	
		3. Agricultural land	
200		4. Others specify - Govt. land	3.6630
Total		Total	3,6630

Total lease area / applied area :

3.6630 Ha

District & State

Thiruvananthapuram and Kerala

Taluk

Chirayinkeezh

Village

Nagaroor

Whether the area falls under Coastal Regulation Zone (CRZ)? if yes, details thereof:

The said area does not falls under CRZ

Existence of road railway line, if any nearby approximate distance:

Public road connecting between Alamcode – Nagaroorlies towards southof the quarry area which is at a distance of 0.50 kms, Main central road (MC Road) connecting between Tivandrum to Kottayamlies towards east of the quarry area which is at a distance of 6.50 kms and the National Highway connecting between Thiruvananthapuram to Kochi lies towards west of the quarry at a distance of 9.20 kms. The nearest railway line and station on Broadgauge is Chirayinkeezh which is at distance of 9.0 kms.

c) Attach a general location map showing area and access routes. It is preferred that the area be marked on a Survey of India Topographical map or a Cadastral map or Forest map as the case may be. However, if none is of these available the area may be shown on an administrative map.

The said area is demarked on the key plan showing the location and surrounding features up to 5.0 kms radius is enclosed as Plate No. 1, the location of the said area is marked on the Kerala political map and enclosed as Plate No. 2. The applied area is marked on the Block map enclosed as Plate No. 3, a survey map / sketch showing the applied area issued by the Thasildar is enclosed as Plate No. 4. Further the said quarry area is shown to the Google satellite image enclosed as Plate No. 5.

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1. 1

- 3.0 DETAILS OF APPROVED MINING PLAN / SCHEME OF MINING (if any):
- 3.1 Date and reference of earlier approved MP / SOM

The mining / quarry plan was prepared for the maximum production of 5,12,000 tonnes per year (during the third year of the plan period) and the same was approved by the District Office, Department of Mining and Geology, Thiruvananthapuram, vide their office letter No. 1716 / DOT / ML / 2018 dated 26.09.2018. a copy of the approval of the mining plan is enclosed as Annexure No. 20.

3.2 Details of last modifications if any (for the previous approved period) of approved MP / SOM, indicating date of approval, reason for modification.

NOT APPLICABLE

3.3 Give reason of earlier approved proposal (if any) in respect of exploration, excavation, reclamation etc.,

NOT APPLICABLE

i) Exploration

NOT APPLICABLE

ii) Mine Development & Exploitation

This mine / quarry was worked by some other person / company (party / company not know) way back in 2007. Over all in the said Re - Sy. Block No. 37, Re - Sy No 555/2, they have excavated over an area of 2.59 ha approximately and they have removed about 9.00 lakh tonnes, the details are given below:

Following are the parameters considered for excavated quantity.

1. Excavated area : 25,900 sqm (2.59 ha apprx),

2. Average height : 14.00 mts,

3. Bulk density / Sp. Gr. : 2.50

Tonnage: 25,900 * 14 * 2.50 :

9,06,500 tonnes or say 9,00,000 tonnes.

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iii) Land Reclamation & Rehabilitation.

NOT APPLICABLE

iv) Waste Management.

NOT APPLICABLE

v) Plantation.

NOT APPLICABLE

3.4 Give status of compliance of violations pointed out by IBM.

NOT APPLICABLE

3.5 Indicate and give details of any suspension / closure / prohibitory order issued by any government agency under any rule of court of law.

NOT APPLICABLE

3.6 In case of the MP / SOM is submitted under rules 9 and 10 of the MCDR' 88 or under rule 22 (6) of the MCR' 1960 for approval of modification, specify reason and justification for modification under these rules.

NOT APPLICABLE

All the above paragraphs are not applicable, as this mining plan is first mining plan is being prepared and submitted for approval.



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PART - A

- 1.0 GEOLOGY AND EXPLORATION.
- a) Briefly describe the topography, drainage pattern, vegetation, climatic, rainfall data of the area applied / mining lease area:

Topography

The said proposed area occupies the isolated hillock lies toward north of Kadavilla trending NW – SE. The highest elevation is about 110 m above MSL towards southeast of the quarry area (near BP 4) and the lowest elevation is 40 m above MSL towards northwest of the proposed area (near BP 1 & 2). The lease area is generally sloppy towards northwest & southeast. The slope is moderate to steep.

Drainage pattern

There are no any perennial water course / water bodies / streams / nallahs within the quarry area. The storm water passes through the minor water courses and gets confluence with the adjacent nallah. Apart from this the water source in this area is mainly storm water. Entire storm water flows through the garland drains provided all around the quarry pit and same will be collected in settling pond. The drainage pattern in this region is parallel to sub parallel.

Vegetation

Most of the quarry area is broken up, the broken up area is devoid of any vegetation, the area which remained as unbroken and surrounding the lease is covered by sparsely vegetated.

Climatic

The climate of the area is typical of Western Ghats region. It receives high rainfall and exhibits temperature variations with moderate summer and moderate winter. Meteorological data for the following climatic are under progress

- 1. Temperature
- 2. Relative Humidity
- 3. Rainfall



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Temperature

The temperature normally ranges from 28° C to 32° C on the plains but drops to about 20°C in the highlands. The Highlands of Kerala, enjoys a cool and invigorating climate the year-round. Owing to its diversity in geographical features, the climatic condition in Kerala is diverse.

Relative humidity

In general the relative humidity in the area is observed to be high due to its proximity to the sea. During the summer it varies from 36 to 93, during monsoon it varies from 22 to 90 (some time up to 100) and during the winter it varies 80 to 90.

Rainfall

Generally there are two monsoons in Kerala, the onset monsoon is known as Southwest Monsoon which commence form June and ends in September. The second monsoon is known as Northeast Monsoon and also known as Reverse monsoon which commence from October and ends in November. The average rainfall for the last ten years is around 3,000 mm annually.

b) Brief description of Regional Geology with reference to location of lease / applied area:

Kerala State, bounded by north latitudes 8° 17' 30" and 12° 47' 40" and east longitudes 74° 51' 57" and 77° 24' 47" covers an area of 38,864 sq km and is located in the southwestern part of the Indian Peninsular shield. This linear strip of land is bounded by the Western Ghats on the east and the Arabian Sea on the west.

The state is divisible into four broad physiographic units. They are:

- (i) the low-level coastal strip fringing the Lakshadweep sea,
- (ii) the landforms marked by laterite cappings between altitudes of 30m and 200
- (iii) the foot hills of Western Ghats ranging in altitude from 200 to 600 m and
- (iv) the steeply rising Western Ghat hill ranges with altitudes reaching upto 2500 m. of the total area, 35,955 sq km area is constituted by hard rock crystallines and the rest by soft sediments. The crystalline comprise charnockite, gneiss, granite, metasediments, gabbro and dolerite to mention the major ones. The sedimentaries occur mostly in the coastal areas. mineral deposits of clay, bauxite, rare earth sands, glass sand, iron ore, limestone, gold, graphite, chrysoberyl etc. are known to occur in the state.

The geology of Kerala kindled the interest of even the earliest workers in the field. Buchanan in 1800 coined the term "laterite" after a study of the quarries near Angadipuram in the erstwhile Malabar. General Cullen (1840 – 60) discovered graphite occurrence in Travancore and was the earliest to study the sedimentary formations around Kollam. In the later part of the 19th Century, Bruce Foote, (1883) and William King,(1875,1878,1882) of the Geological Survey of India (GSI) took traverses across the State and recorded their findings on geology and mineral resources. In 1907, a Geology Department was formed in Travancore for systematic survey of minerals. Chacko (1922) and Masillamani (1914) made significant contributions to the geology of Kerala.

Geologically, Kerala is occupied by Precambrian crystallines, acid to ultra basic intrusive of Archaean to Proterozoic age, Tertiary (Mio-Pliocene) sedimentary rocks and Quaternary sediments of fluvial and marine origin. Both the crystallines and the Tertiary sediments have been extensively lateritised. Based on the detailed studies by GSI during the last three decades, the following stratigraphic sequence has been suggested.

Quaternary	(Q)	Pebble bed	
		Kadappuram Formation(marine)	
		Periyar Formation(fluvial)	
		Viyyam Formation(fluvio-marine)	
		GuruvayurFormation (Palaeo-marine	
		Laterite	
Mio-Plioce	ne (TertiaryTt)	Warkalli Formation(Sandstone and clay with lignite intercalations)	
		Quilon Formation (Fossiliferous limestone and calcareous marl).	
Mesozoic		Gabbro / Dolerite dykes	
	Younger granites	Alkali granites, granite, granophyres and	
14	(550-390ma)	other acid Intrusive.	
P	Charnockites(younger)	Massive charnockite, incipient charnockite,	
Sent to R	(550Ma)	Cordierite charnockite.	
O.	Ultrabasic/basics(Younger)	Perinthattaanorthosite, Kartikulam gabbro,	
Ť	(700-600Ma)	Adakkathodu gabbro, Begur diorite	
E	Basic Intrusives	Agali- Anakkatti dykes	
R	(2100-1600Ma)		
0	Migmatite/gneiss/older	Garnet- biotite- gneiss with associated	
Z	granitoid(PGC II)	migmatites, quartzo-felspathic gneiss,	
(Ptm)(2500-2200Ma		hornblende gneiss, hornblende- biotite	
FI		gneiss, quartz- mica gneiss	
E/C	Vengad (APtv) Group	Quartz-mica schist and quartzite, conglomerate	

	Charnockite(older) (Ac) 2600Ma	Mafic granulite, pyroxene granulite, Banded magnetite quartzite and gneissic charnockite	
A X	Khondalite Group (Ak)	Quartzite, mafic granulite, calc-granulite garnetbiotite- sillimanite-cordierite gneiss, garnet-biotitegneiss, leptynite	
C H A	Peninsular Gneissic Complex (PGC I) (Ap) (3000Ma)	Foliated granite, hornblende gneiss, pink granite gneiss, biotite gneiss.	
E A	Layerd ultrabasic – basic Complex (3100-3000Ma)	Peridotite, dunite, pyroxenite, anorthosite	
N	Wynad Schist Complex (Aw) (3200Ma)	Talc- tremolite schist, fuchsite quartzite, amphibolite, calc granulite, quartz sericite schist, kyanite quartzite, garnet - sillimanite gneiss/ schist, magnetite quartzite, kyanite mica schist.	
	Base not	recognized	

Source: Geological Survey Of India, Miscellaneous Publication No. 30, Geology And mineral Resources Of The States Of India Part IX – Kerala – May 2005.

c) Detailed description of geology of the lease area such as shape, size of the mineral / ore deposit.

Most of the quarry area is exposed by Charnokite (commercially known as Granite), only towards the north of the quarry area part is covered by topsoil with the thickness varying from 0.75m to 1.00 mts.

The geological parameters / features of the ore body as obtained from the field mapping and exploration studies reveal the following.

General strike : NW - SE with local variation of 150 - 20 on

eitherside.

Dip : 70° - 80° dipping northerly.

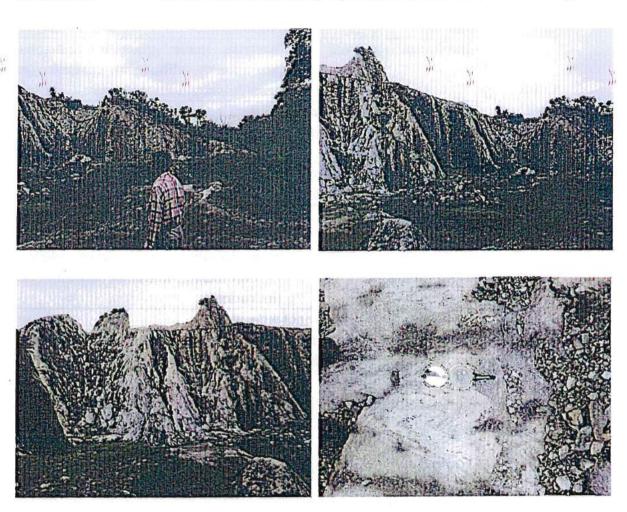
Length of the ore body : 250mts.

Width of the ore body : 150 - 180mts.

Depth of the ore body : 50 mts

A geological map showing the different litho units is mapped and enclosed as Plate No. 7. And the cross section showing the disposition of the different litho units are marked and enclosed as Plate No. 8.

Overburden: The overburden is mainly topsoil, intercalated waste and mining loss.



PHOTOGRAPH SHOWING THE OUTCROP OF CHARNOCKITE

d) (i) Name of the prospecting agency : In House

(ii)	Address	2 nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram
	District	Thiruvananthapura
	State	Kerala
	Phone	
	Fax	nil
(iii) Email		kadavilaland1@gmail.com
	Mobile	+91 9099005722

e) Details of prospecting / Exploration already carried out:

1

- i) Number of pits and trenches indicating dimension, spacing etc along and across the strike / foliation with reference to geological plan:
- ii) Number of Boreholes indicating dimensions, spacing inclination, color level, depth etc with standard borehole logs duly marking on geological plan / section.
- iii) Details of samples analysis indicating type of sample (surface / subsurface from pit / Trenches / boreholes etc)
- iv) Expenditure incurred in various prospecting operations:

No explorations in the form of boreholes / pits / trenches are carried out. More over this quarry area was worked formerly by some party / company way back in 2007 and the broken up area is about 2.14 Ha which is fully exposed by Charnockite / Building stone. More over the material is continued along the strike.

Since the quarry lease area is exposed by Charnokite / Building stone outcrop with thin layer of soil. Charnokite is a type of Granite which is a plutonic igneous rock of coarse to fine grained nature, formed by molten magma. Charnokite, petrologically connotation refers to the group name of a family of deep seated rocks. Hence the exploration is not required and the depth will extend beyond 50.00 mts.

f) The surface plan of the lease area may be prepared on a scale of 1:1000 or 1: 2000 with contour intervals of maximum of 10 m depending upon the topography and size of the are duly marked by grid lines showing all features.

Surface plan of the lease area has been prepared on 1:1000 scale showing all the surface features with 5.0 mts contour interval is enclosed as **Plate No. 6.**

g) For preparation of geological plan, surface plan prepared on a scale of 1: 1000 or 1: 2000 scale specified under para 1.0 (f) of Part A of the format may be taken as the base plan.

Geological plan of the lease area has been prepared on 1:1000 scale showing all the geological attitudes such as dip, strike and so on considering the surface plan as a base plan is enclosed as Plate No. 7.

h) Geological sections may be prepared on natural scale of Geological plan at suitable interval across the lease area from boundary to boundary.

Geological cross sections are prepared on 1:1000 scale from boundary to boundary, showing the disposition of the various lithounits, structural features and etc, is enclosed as Plate No. 8.

i) Broadly indicate the future programme of exploration with due justification (duly marking on Geological plan year wise location in different colours) taking into consideration the future tentative excavation programme planned in next five years as in table below:

The said quarry area was worked formerly and Charnockite (building stone material) is exposed in entire area and it can be seen up to 40 mts above from the general ground level. Charnokite is a type of Granite which is a plutonic igneous rock of coarse to fine grained nature, formed by molten magma. Charnokite, petrologically connotation refers to the group name of a family of deep seated rocks. Hence the exploration is not required and the depth will extend beyond 50.00 mts.

j) Reserves and resources are furnished in a tabular form as given below:

Below table shows the reserves of Building stone material (Charnockite) : As on 01stAugust, 2018

Insitu reser	Unit: in tonnes		
Category	ROM		
	Total	Waste Rock	
Mineable reserves	17,78,750	Considered as a	
Blocked reserves	34,17,500	production.	
Geological reserves	51,96,250	3,500,000,000,000	

Note: Geological Reserves = Mineable Reserves + Blocked Reserves

Of the above Geological reserves of 5.196 million tonnes, only 1.778 million tonnes of reserves can be exploited / mineable, while the balance of 3.417 million tonnes of reserves is getting blocked which cannot be mined due to the boundary and practical constraints. Hence for all practical purpose (for production and future planning) only Mineable reserves are considered.

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Below table shows the Level wise /bench wise Insutu reserves (Mineable) As on 01stAugust 2018

in

Unit : tonne				
Waste Rock	ROM	Bench levels		
	20,625	106		
	66,875	100		
	83,750	94		
	1,15,625	88		
	1,46,250	82		
Considere	1,59,375	76		
as	1,59,375	70		
production	1,56,875	64		
hence not	1,54,375	58		
established	1,65,625	52		
	1,44,375	46		
	1,34,375	40		
	1,47,500	34		
	1,23,750	28		
	17,78,750	Total		

Below table shows the Section wise Insutu reserves (Mineable): As on 01stAugust 2018

		Unit: tonnes
Between Cross section	ROM	Waste Rock
E:2050 to E:2100	1,09,375	Considered
E:2100 to E:2150	3,09,375	as
E: 2150 to E: 2200	5,75,000	production
E: 2200 to E: 2250	5,80,000	hence not
E: 2250 to E: 2300	2,05,000	established
Total	17,78,750	



NOTE: Above figures are rounded to next nearest decimal.

The details calculations of section wise / bench wise areas, volume, tonnages are enclosed as Annexure No. 12.

Method of Estimation:

The estimation of ore reserves is made by conventional parallel cross section method using geological cross section. The geological cross sections are prepared at a regular interval of 100 m across the strike of the ore body. The area of individual litho units in each and every cross section is calculated separately. The volume between the cross section is arrived on the basis of the average the area of parallel cross section i. e. ((S1 + S2) / 2) and multiplying sectional interval. And tonnage is arrived by multiplying by its bulk density.

Note: Following are the parameters considered for reserve estimation:

Category of ore	Bulk density	Recovery %
Granite	2.50	100.00
Waste rock	-	-

2.0 MINING

A. OPENCAST MINING

a) Describe briefly the existing as well as proposed method for excavation with all design parameters indicting on plans / sections.

Quarrying / Mining

Formerly, this quarry was in operation, it was being worked with conventional open cast method. Based on the mode and method so adopted and taking into the consideration of geological parameters, the quarry pit is designed such that the height of the bench is kept about 6.0 mts max., and the width is also kept 6.0 mts, maintaining 45° pit slope.

Mining operation will be commenced from higher elevation to the lower elevation, benches will be developed and it will be advance in south and west direction laterally. More so this area was worked earlier by some other party, where there is a high wall benches, so initially the height of the high-wall bench will be reduced, when it comes to the lower levels, benches will take the circular shapes and pit will be formed. The Mining operation will be controlled and supervised by Statutory persons like Mine Manager, Mine Foreman, Mining Mate Cum Blaster certificate Holder issued by the Director General of Mines Safety, Dhanbad.

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Drilling, Blasting and its parameters:

The nature of the rock is mainly hard to medium hard in nature hence drilling and blasting is required to dislodge / loosen the material from the main rock mass. The broad blasting parameters are determined for the blasting pattern and blast design, which are as follows:

- > The Drilling pattern will be decided by the Certificate Holders / competent personnel and the blasting hole area is marked on the ground by certificate Holders.
- Since the bench height needs to be maintained at 6.0 m, Blast hole will be, preferably by deep hole where the diameter is normally 115 mm and the depth of the hole is 6.5 m including sub drilling. Considering the safety aspect, the blast will be carried out in two phases i.e, 3.00 m each phase.
- ▶ Blasting pattern is generally square or rectangle or staggered, The Burden and Spacing will be decided as per the requirements of the size of the boulders, generally the burden ranging from 2.00 to 2.50 meters and spacing of 2.50 to 3.00 meters.
- ➤ Usually single / double row of holes is blasted along free face to achieve optimum powder factor, best fragmentation and minimized adverse impacts on account of blasting.
- Maximum numbers of holes will be blasted at a time in a round are generally limited to 20 with non electrical detonators (NONEL) to mitigate adverse impacts such as air blast, fly rock and ground vibration. The Ignition will be the Non Conventional and Eco Friendly method by NONEL (Non Electric Detonators).
- The 6 Meter hole will be blasted in two phases of 3.0 mts each one after the other, by inserting one Nonel at bottom and another one is at the middle of the hole, so the hole will be blasted two times one after the other with delay of 17 Milli Seconds. The first 3 Meters at the bottom will be blasted first and the middle one next will get blast a gap of 17 Milli Seconds. The blast delay from hole to hole will be 17 Milli Second and 42 Milli Second from row to row. A schematic of drilling and blasting pattern is shown in the foregoing page:
- After drilling the certificate Holder prepare the Blasting Date Sheet incorporating the Burden, Spacing, Depth, Conversion Factor, Expected Yield, Powder factor, Booster consumption in Kgs and Percentage, Column charges in Kgs and Percentages, Charge per Delay, Time of Blasting and other Parameters as per the field and after the Blasting the Noise level, Fly rock distance, Vibration limit will be recorded in the Blasting Date Sheet. Different Parameters and get approval from the Head of Mining Differention.

Mirate mixture types of explosives are used for blasting with 20 to 25 percent, proportion of primer / booster cartridges and rest as column charge. About 20 - 25kgs explosives are loaded in 115 mm diameter holes. And powder factor ranging between 5 to 6 tons per kgs of explosives is achieved.

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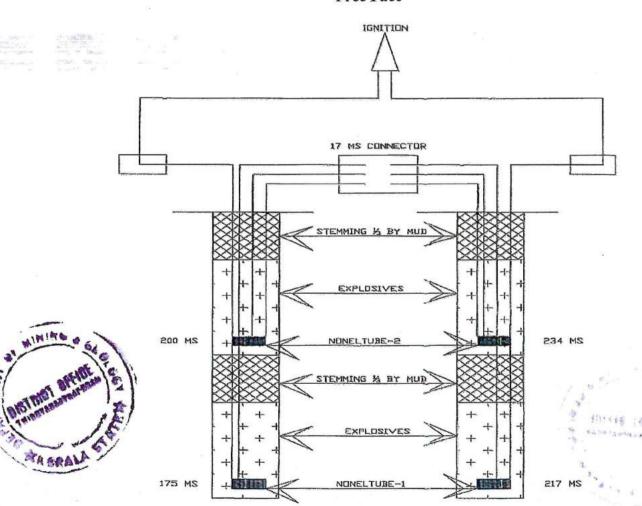
Subsequent to the drilling and blasting, the material so fragmented / loosens from the rock mass, the boulders so generated subsequent to the blasting, will be broken with the help of the rock breakers. There after the material is loaded into trucks / tippers of 20 tonnes capacity with the help of the excavator. The loaded material is transported to the Vizhinjam Port.

SCHAMITIC SHOWING THE BLAST HOLE PATTERN

O-17Ms-0	O- 17Ms-C	-17Ms-6	O-17Ms-O	-17 Ms-O-	17Ms-O-	17 Ms-0	D- 17Ms-	O - second row
620	586	552	518	484	467	433	399	365 42Ms
603	569	535	501	467	450	416	382	348

O -17Ms-O	- 17Ms-O	-17Ms-O	-17Ms- O	-17 Ms-C	0- 17Ms-0	O- 17 Ms-	O- 17Ms-	Ox – first re	W
34	68	102	136	170	204	238	272	306	
17	51	85	119	153	187	220	255	289	

Free Face



PRECAUTION TAKEN WHILE BLASTING

- 1. Siren will given three Times before the Blasting and Hooter announcement will be made before the Blasting
- 2. 8 persons will be sent to different locations with Red flag as a sign of caution of blasting.
- 3. After getting the confirmation from 8 persons through Mobil or WalkeTalke (wireless) the ignition will be given.
- 4. One Time siren will be given after the Blasting.
- 5. The 8 persons will be called back to the Quarry and get the feed back about the Blasting.

ADVANTAGES OF NONEL

- 1. The Nonel is used in rainy season because it is Non Electric Detonator.
- 2. It is bottom ignition.
- 3. The Noise is less.
- 4. Fly Rock is less.
- 5. Vibration is less.
- 6. Fragmentation is good.
- 7. It is Eco friendly method of Blasting.

Safety and Precautions:

Before onset of monsoon, drains are cut along toe of the quarry faces to divert the surface run off. Garland drain is provided at the quarry top to regulate monsoon water and direct the same to the settling ponds / quarry pit to contain the quarry wash off and to avoid the same joining to the adjoining surface water bodies / water courses. It also helps to avert eventual collapses and damages to the quarry faces.

The pit will be fenced by barbed wire, such that no habitats can enter the pit. And watch and ward is provided round the clock.

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- b) Indicate year wise tentative Excavation in Cubic meter indicating development, ROM, pit wise as in table below:
- I. Insitu tentative excavation.

Below table shows the proposed Year wise Production & Development quantities (in three leases) with its respective strip ratio:

	Unit	in	Tonnes
--	------	----	--------

<u>Year</u>	ROM	<u>Waste</u>
1st Year - 2019 - 20	3,99,375	Considered as production
2nd Year – 2020 - 21	3,00,625	hence not calculated
<u>Total</u>	7,00,000	

The year wise projection of working is marked on the Production plan and enclosed as Plate No. 9. The year wise proposed projection and its dispositions of the benches are shown on the Geological Cross Section and enclosed as Plate No. 10. The detail calculation of the area, volume & tonnage for the above said years is enclosed as Annexure No. 13.

II. Dump re-handling (for the purpose of recovery of mineral)

Presently there are no any dumps so as to recover the mineral.

c) Enclose individual year wise development plans and sections showing pit layouts, dumps, stacks of mineral rejects, if any etc in case of "A" category mines. Composite development plans showing pit layouts, dumps, stacks of mineral reject, if any, etc, and year wise sections in case of "B" category mines.

The year wise projection of working is marked on the Production and Development plan and enclosed as **Plate No. 9.** The year wise proposed projection and its dispositions of the benches are shown on the Geological Cross Section and enclosed as **Plate No. 10.**

Describe briefly giving salient features of the proposed method of working indicating category of mine.

By taking into the consideration of geological parameters of the building stone, the said quarry is proposed to work with conventional open cast method with bench system and mode of operation is mechanized. Based on the mode and method so adopted and considering the geological parameters the quarry pit is designed such that the height of the bench is kept about 6.00 mts max., and the width is also kept 6.00 mts, maintaining 45° pit slope.

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e) Describe briefly the layout of mine workings, pit road layout, the layout of the faces and sites for disposal of overburden / waste along with the ground preparation prior to disposal of waste, reject etc. a reference to the plans and sections may be given.

As far as mine working is considered, a systematic and scientific way of mining will be carried out. Based on the mode and method so adopted and taking into the consideration of geological parameters of the ore body the quarry pit is designed such that the height of the bench is kept about 6.00 mts max., and the width is also kept 6.00 mts, maintaining 45° pit slope. To win the material the benches are advanced sideward and laterally.

The waste rock in this quarry is mainly, the topsoil. Generally, in the building stone quarry about 5-6% of waste will likely to generate. But in this quarry the material is consumed for development / construction of Sea port, where the waste generated is consumed for the purpose. Hence no waste is estimated.

Extent of mechanization:

The maximum handling building stone material is 3,99,375 tonnes during the first year of the ensuing plan period. The adequate total handling capacity of loading units will be deployed. For hauling of proposed quantities of building stone, the requirement is met with a fleet of 20 nos. of tippers of 20 tonnes capacity each. List of Quarrying machinery deployed in the quarry along with their capacities, are shown in below table:

Sr. No	Equipment / Machinery	No. of units	Engine HP	Bucket Capacity
<u>1</u>	Excavator	2	<u>350</u>	2.5 M ³
2	Rock breaker	2	<u> 165</u>	<u>F 22</u>
<u>3</u>	<u>Tippers</u>	<u>15</u>	<u>400</u>	20 tonnes
4	Compressor	2	<u>169</u>	600 CFM
<u>5</u>	Drilling machine	2	==	==
<u>6</u>	Water tanker	1	<u>130</u>	10.0KL



Conceptual Mine planning upto the end of lease period taking into consideration the present available reserves and resources describing the excavation, recovery of ROM, Disposal of waste, Back filling of voids, Reclamation and rehabilitation showing on a plan with few relevant sections.

For any Mine / quarry, Preparation of Conceptual Plan amounts to, fore-seeing in totality and planning for quarrying and related activities through-out its life span, till such time all the usable mineral / ores are exhausted to the economical limits and lease area is reclaimed to the extent possible. The norms laid down by the government agencies from time to time do play important roles.

Therefore, preparation of ideal conceptual quarry plan for any quarry is difficult and such plan prepared, remains acceptable only under given circumstances. It cannot be over looked that, any such plan undergoes amendments and revisions in the course of progressive stages of exploitation.

Anticipated Life of Quarry:

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Based on the reserves and considering the projected production target during first five year and next five years the anticipated life of the quarry will be about 5 years.

Excavation: The below table shows the production for the successive blocks of five year till the conceptual period:

Oty in tonnes

Period of five years	Proposed Production
1st block of five years (only for first two years) 19 - 20 to 20 - 21	7,00.000
1^{st} block of five year (for next three years) $21 - 22$ to $23 - 24$ ***	10,78,750
<u>Total</u>	<u>17,78,750</u>

*** indicates if required it will be produced @ the rate of 3.59,583 every year

Recovery of ROM: Subsequent to the drilling and blasting, the material so dislodged / fragmented / loosens from the rock mass, the boulders so generated, will be broken with the help of the rock breakers. There after the material is loaded into trucks / tippers of 20.0 tonnes capacity with the help of the excavator. The loaded material is transported to the port development.

Disposal of waste: Generally, in the building stone quarry about 5-6 % of waste will likely to generate. But in this quarry the material is consumed for development /

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construction of Sea port, so the waste generated is considered as production. Hence no waste is estimated and no disposal of waste.

Backfilling of voids

Since there is no waste generation at this quarry, no backfilling of voids.

Reclamation and rehabilitation:

At the end of the lease period / conceptual period pit extends over an area of 3.0000 ha approximately (including roads). Part of the pit i.e 0.9500 ha of area will be converted as a water pond, and the balance area 2.05 Ha will be retained as pit.

Plantation will be carried out on the lease periphery, covering at the rate of 0.2210ha yearly by sapling about 330nos per year. Over all during the first block of five years 0.6630 ha will be covered by plantation by sapling 990 nos. Mainly the local species will be planted along with the other plants such as Rain tree, Bougainville, Picus, plantation crops like Fruit bearing plants like mango tree, jack fruit tree will be planted. It is proposed to plant at the rate of 1,500 saplings per hectare. Anticipated survival growth rate is about 60-70 %. The above measures are marked on Production plan and Conceptual / plan enclosed as Plate No.9 & 12 respectively.

3.0 MINE DRAINAGE

a) Minimum and maximum depth of water table based on the observations from nearby wells and water bodies.

Based on the observations made in and around the quarry area it was found that the general ground level in this area is 32 m above MSL, and the general ground water table is 8 m below the general ground level i.e 24 m above MSL. During monsoon the ground water table will raise by 2-3 mts.

b) Indicate maximum and minimum depth of workings:

The lease area is situated on the isolated hillock where the top most working level is about 106 m above MSL and the lowest is 28 m above MSL, total depth of quarry will be 78 mts.



c) Quantity and quality of water likely to be encountered, the pumping arrangements and places where the mine water is finally proposed to be discharged.

The mine is situated on the hillocks, where the ultimate workings are not going to touch the ground water table; the general water table is 24 m above MSL and the ultimate working is 28 m above MSL. Hence no pumping of water is required.

d) Describe regional and local drainage pattern. Also indicate annual rainfall, catchment area, and likely quantity of rain water to flow through the lease area, arrangement for arresting solid wash off.

Drainage pattern

There are no any perennial water course / water bodies / streams / nallahs within the quarry area. The storm water passes through the minor water courses and gets confluence with the adjacent nallah. Apart from this the water source in this area is mainly storm water. Entire storm water flows through the garland drains provided all around the quarry pit and same will be collected in settling pond. The drainage pattern in this region is parallel to sub parallel.

Rainfall

Generally there are two monsoons in Kerala, the onset monsoon is known as Southwest Monsoon which commence form June and ends in September. The second monsoon is known as Northeast Monsoon and also known as Reverse monsoon which commence from October and ends in November. The average rainfall for the last ten years is around 3,000 mm annually.

STACKING OF MINERAL REJECT / SUBGRADE MATERIAL AND QISPOSAL OF WASTE:

Indicate briefly the nature and quantity of topsoil, overburden / waste and Mineral reject to be disposed off.

Top Soil

TA BRAD

Most of the quarry area is exposed by Charnokite, part of area towards the north of the quarry iscovered by topsoil with the thickness varying from 1.00m to 1.50 m, topsoil so visualized is sparsely distributed. However during the course of quarrying of this area, the topsoil so occurs will be removed and stacked separately and it will be used for plantation purpose.

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Spread area

1000Sq M

Depth

1.00 mts

Bulk density

1.50

1,000

X

1.0 X

1.50

1,500 tonnes.

b) The proposed dumping ground within the lease area be proved for presence or absence of mineral and be outside the UPL unless simultaneous backfilling is proposed or purely temporary dumping for a short period is proposed in mineralized area with technical constraints & justification.

And

c) Attach a note indicating the manner of disposal of waste, configuration and sequence of year wise build up of dump along with the proposals for protective measures:

Since no waste is generating at this quarry, so no dumping is proposed.

5.0 USE OF MINERALS AND MINERAL REJECT:

a) Describe briefly the requirement of end – use industry specifically in terms of physical and chemical composition:

The material produced at this quarry will be used for development / construction of Vizhinjam Port.

b) Give brief requirement of intermediate industries involved in up-gradation of mineral before its end use.

Not applicable.

c) Give detail requirements for other industries, captive consumption, export associated industrial use etc.

The material generated at this quarry is supplied to port development.



d) Indicate precise physical and chemical specification stipulated by buyers:

Basically, the material produced at this quarry is used for development / construction of Vizhinjam Port. Only physical specifications are involved and the same are mentioned below:

Sl. No.	Details	specifications
1	Boulders	100 mm / 2,400 Cum

e) Give detail of processes adopted to upgrade the ROM to suit the used requirement.

No process is adapted to up-grade the Building stone.

6.0 PROCESSING OF ROM AND MINERAL REJECT:

- a) If processing / beneficiation of the ROM or Mineral Reject is planned to be conducted, briefly describe nature of processing / beneficiation. This may indicate size and grade of feed material and concentrate (finished marketable product), recovery etc.
- b) Give a material balance chart with flow sheet or schematic diagram of the processing procedure indicating feed, product, recovery and its gradate each stage of processing:

Not applicable.

- c) Explain the disposal method for tailings or reject from the processing plant.
- d) Quantity and quality of tailings / reject proposed to be disposed, size and capacity of tailing pond, toxic effect of such tailings, if any, with process adopted to neutralize any such effect before their disposal and dealing of excess water from the tailings dam.
- e) Specific quantity and type of chemicals if any to be used in the processing plant.



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- f) Specific quantity and type of chemicals to be stored on site / plant.
- g) Indicate quantity (cum per day) of water required for mining and processing and sources of supply of water, disposal of water and extent of recycling. Water balance chart may be given.

All the above paragraphs are not applicable as there is no processing / beneficiation plant

- 7.0 OTHERS: Describe the following:
- a) Site Services.

The said proposed quarry area falls in the Re - Sy. Block No. 37, Re - Sy No 555/2 (Govt. Land) extends over an area of 3.6630 Ha of Nagaroor village, ChirayinkeezhTaluk of Thiruvananthapuram District - Kerala state. The said area lies towards southwest of Nagaroor village at a distance of 1.20 kms and lies towards north of Kadavila Bus stop at a distance of 0.50 kms approximately (Distances are aerial distance). This lease area is approachable by all-weather road/s up to the up to Kadavila bus stop, thereafter a kutcha road will leads to area.

Thiruvananthapuram is the district head quarter and state's capital which is at a distance of 35.0 kms (by road) towards south of quarry area & Chirayinkeezh is the Taluk head quarter which is at a distance of 13.0 kms towards southwest of quarry area, where all the infrastructural facilities are available. The nearest airport is at Thiruvananthapuram at a distance of 40.0 kms and sea port at kollam which is at a distance of 50.0 kms. The nearest railhead on Broad-gauge is Chirayinkeezh which is at distance of 9.0 kms.

This area falls under the Survey of India's TopomapNo. 58 / D / 13& 58 / D / 14. Since thetopomaps of Kerala are restricted the same are not available. The said quarry area falls between the geographical co-ordinates i.e

Latitude	08°43' 42.88" N to 08°33' 51.74" N
Longitude	76°50' 15.26" E to 76° 50' 23.24" E

However the Latitude and Longitude so recorded of all the corner boundary pillar is spiced on the Surface Plan enclosed as Plate No. 6 and the area is marked on the google satellite image and enclosed as Plate No. 5.

b) Employment potential:

About 30 people are appointed as direct employment and it generates indirect employment for few hundred people. Most of the directly employed people are skilled. The respective distribution/numbers are follows.

Highly skilled : 03 nos., such as technical professionals like Quarry Manager

Quarry eng., Asst. Quarry Manager and etc.,

Skilled: 12 nos., under skilled category of people includes Quarry

Foreman, Quarry mates, heavy earth moving machinery

operators, drivers, mechanics and asst. mechanics etc.

Semi skilled : 08 nos. include helpers, greaser's etc.

Un skilled : 07 nos. include spotters, cleaners, attendant's etc.

8.0 PROGRESSIVE MINE CLOSURE PLAN.

8.1 Environment Baseline information:

Attach a note on the status of baseline information with regard to the following.

> Existing land use pattern indicating the area already degraded due to mining, roads, processing plant, workshop, township etc in tabular form:

Quarrying area is 3.6630 ha. Entire area is exposed by Charnockite, more so, this area was worked formerly by some other party. The present land use pattern of the Quarrying area is shown below:

Description	As on date (area in Ha)
Area under Quarrying	1.9000
roads	0.0200
Safety barrier 7.50 mts	0.6630
Area for future use / undisturbed	1.0800
Total	3,6630

The existing land use pattern of the quarry is shown on the surface plan enclosed as Plate No.

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Water regime:

Water resources in this area are Ground water and rainwater. The area receives copious amount of rainfall 3,000 to 4,000 mm annually on an average. Hence the level of water table in the open wells is shallow i. e about 8mtsbelow the general ground level.

There are no any perennial water course / water bodies / streams / nallahs within the quarry area. The storm water passes through the minor water courses and gets confluence with the adjacent nallah. Apart from this the water source in this area is mainly storm water. Entire storm water flows through the garland drains provided all around the quarry pit and same will be collected in settling pond. The drainage pattern in this region is parallel to sub parallel.

Flora & Fauna

Flora & Fauna surveys were carried out as part of the management plan preparation. The observation of the Flora and Fauna are given below:

A. Floral Diversity

Table 1.1. List of Trees

Sl No	Scientific Name	Vernacular / English Name	Family	Status
1.	Terminaliapaniculata	Maruthu	Combretaceae	Indigenous /Common
2.	Gliricidiasepium	Gliricidia/ Poonchedi	Fabaceae	Exotic

Table 1.2. List of Shrubs

SI No	Scientific Name	Vernacular / English Name	Family	Status
1.	Manihotutilissima	Cheeni	Euphorbiaceae	Exotic
2.	Chromolaenaodorata	Communistpacha	Asteraceae	Exotic weed
3.	Hyptissuaveolens	Nattapoochedi	Lamiaceae	Common
4.	Melastomamalabathricum	Athirani	Melastomataceae	Common



Table 1.3. List of Herbs

Sl No	Scientific Name	Vernacular / English Name	Family	Status
1.	Leucasaspera	Thumba	Lamiaceae	Common
2.	Mimosa pudica	Thottavadi	Mimosaceae	Exotic
3.	Phyllanthusniruri	Keezharnelli	Euphorbiaceae	Common

Table 1.4. List of Climbers

Sl No	Scientific Name	Vernacular / English Name	Family	Status
1.	Calycopteris floribunda	Pullanji	Combretaceae	Common
2.	Acacia caesia	Incha	Leguminosae	Common

Table 1.5. List of Grass

Sl No	Scientific Name	Vernacular / English Name	Family	Status
1.	Cymbopogoncitratus	Inchipullu	Poaceae	Common
2.	Axonopuscompressus	Kalapullu	Poaceae	Common

B. Faunal Diversity

Sl No	Scientific Name	Vernacular / English Name	Family	Status	
Frog	<u> </u>				
1.	Pseudophilautus sp.	Bush frog		Common	
Drago	n Fly				
2.	Prodasineuraverticalis	Black bambootail	Platycnemididae.	Common	
3.	Rhyothemisvariegata	Picturewing/ Onathumbi	Libellulidae	Common	
Birds				1 1000000 000000	
Hat .	Acridotherestristis	Indian myna	Sturnidae	Common	

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The majority of the mined area extensively altered from its natural state through past mining activity. There is no area used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering and migration within the applied lease area. Shrubs and grasses cover the area in a scattered manner. Some trees of small height can be spotted in entire lease land. As there is no natural forest cover, the area does not contain any wild animals. Only domestic animals like goat, cow, buffalo, cat, dog etc. are observed / found in the area.



PHOTOGRAPHS SHOWING FLORA IN AND AROUND QUARRY AREA



QUALITY OF AIR, AMBIENT NOISE LEVELS AND WATER

To know the base line values within the core and buffer zone monitoring was carried out for various environmental parameters such Air, Water, Noise and soil the location of the same is shown in below table:

SI. No.	Locations	Distance and direction wrt quarry	Environmental parameters			
	4	CORE ZONE				
1	Quarry area		Air		Noise	Soil
	the same and the s	BUFFER ZONE				
1	Nearest settlement towards Near (Kadavila bus stop)	@ 450 mts>> SE	Air	Water	Noise	Soil
2	Nearest settlement towards	@ 900 mts>> W	Air	Water	Noise	
3	Nearest settlement towards	@ 330 mts>> NNW	Air	Water	Noise	Soil
4	Nearest settlement towards (near Altharamudu bus stop)	@ 825 mts>> NNE	Air	Water	Noise	
5	Vamanapuram river	@ 1.90 km >> SSE		Water		

A key plan showing all the above monitoring location is enclosed as **Plate No. 1.** Apart from this a Surface plan showing the existing environment / land use up to 500 mts from the quarry area is enclosed as **Plate No. 11.**

Quality of Air:

Quarrying activity contributes to pollution of air due to Quarry operation, since the mode of Quarrying is mechanized heavy earth moving machineries are involved; the pollution of the air is mainly due to generation of dust and noise. However the air quality monitoring was carried out to study the baseline values and found that the values so obtained are well within the limits. A copy of the air quality monitoring reports is enclosed as **Annexure No. 14.**

Water Quality:

There are no perennial water courses / bodies within the leasehold area, but for the minor seasonal watercourses. Apart from this the water source to this area is mainly storm and

ground water. Entire storm water flows through the minor watercourses and joins the adjoining seasonal nallah. The drainage pattern in this area is dendritic in nature.

However the water samples were collected both in core and buffer zone to know the baseline values and found that the values so obtained are well within the limits. A copy of the air quality reports is enclosed as Annexure No. 15.

> Ambient noise level

Since the quarry is mechanized the generation of the noise at this quarry is mainly by machineries and movement of trucks. However the noise levels were monitored to study the baseline values and found that the values so obtained are well within the limits. A copy of the Noise levels reports is enclosed as **Annexure No. 16.**

Climatic conditions

The climate of the area is typical of Western Ghats and the Malnad region. It receives high rainfall and exhibits temperature variations with moderate summer and moderate winter. Meteorological data for the following climatic are under progress

1. Temperature

2. Relative Humidity

Rainfall

Temperature: The temperature normally ranges from 28°C to 32° C on the plains but drops to about 20°C in the highlands. The Highlands of Kerala, enjoys a cool and invigorating climate the year-round. Owing to its diversity in geographical features, the climatic condition in Kerala is diverse.

Relative humidity: In general the relative humidity in the area is observed to be high due to its proximity to the sea. During the summer it varies from 36 to 93, during monsoon it varies from 22 to 90 (some time up to 100) and during the winter it varies 80 to 90.

Rainfall: Generally there are two monsoons in Kerala, the onset monsoon is known as Southwest Monsoon which commence form June and ends in September. The second monsoon is known as Northeast Monsoon and also known as Reverse monsoon which commence from October and ends in November. The average rainfall for the last ten years is around 3,000 mm annually.

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> Human settlements

There is no any human settlement within the quarry area, but the nearest human settlement is 300 m & 700 m from the quarry area towards North and Southeast respectively. The nearest village is Nagaroor which is at a distance of 1.2 kms. There are totally 24 villages / wadas within 5.0 kms study area.

In 2011, Thiruvananthapuram district had population of 33,01,427 of which male and female were 15,81,678 and 15,69,917 respectively. There was change of 2.07 percent in the population compared to population as per 2001.

Average literacy rate of Thiruvananthapuram district in 2011 were 93.02 compared to 89.28 of 2001. Total literate in Thiruvananthapuram District were 2,785,408 of which male and female were 1,354,857 and 1,430,551 respectively. With regards to Sex Ratio in Thiruvananthapuram, it stood at 1087 per 1000 male compared to 2001 census figure of 1060.

> Public building, Places of worship and monuments:

There are no any public building, places of worship and monuments within the lease area.

> Indicate any sanctuary is located in the vicinity of leasehold:

There are no any sanctuaries located in the vicinity of the leasehold area. And there are no any sanctuary, wildlife within the buffer zone of 5.00 kms.



Impact Assessment: Attach an Environmental Impact Assessment Statement describing the impact of mining and beneficiation on environment on the following:

Land area indicating the area likely to be degraded due to quarrying, dumping, roads, workshop, processing plant, tailing pond / dam, township etc.,

Due to Quarrying and exploitation of the ore, there will be change in the ground profile in the form of pits and dumps. The detail of the land use as at present, Plan / conceptual period is shown below in tabular form:

Page 36

Unit in Ha.

Description	As on date	Plan / lease period
Area under Quarrying	1.9000	2.9800
roads	0.0200	0.0200
Green belt	-	0.6630
Safety barrier 7.50 mts	0.6630	
Area for future use / undisturbed	1.0800	
Total	3.6630	3.6630

Subsequent to the Conceptual stage, this quarry will be used for various activities as per the mine closure plan, as a part of closure the activities such as water pond, back filling and etc., the details of the land use of post mine closure is given below:

Sl. No.	Type of activities	Extent in Ha.	Post mining land use of degraded land	Extent in Ha.	
1.	Area under Quarrying	2.9800	Area under water pond Area remained as pit	0.9540 2.0260	
2.	roads	0.0200	Retained as roads	0.0200	
3.	Green belt	0.6630	Retained as Green belt	0.6630	
	Total	3.6630	Total	3.6630	

NOTE:

Roads are part of the quarry area.

A conceptual plan / Post mining land use plan is enclosed as Plate No. 12.

ii) Air quality:

Quarrying activity contributes to pollution of air due to working heavy earth moving Quarrying machineries. To know the impacts of quality of air the parameter such as Suspended Particulate Matter (SPM), Sulphur Dioxide (SO2), oxides of Nitrogen (NOx) and Carbon monoxide (CO) monitoring is being carried out through consultant having MoEF& NABET accredited agencies.

However may be the impact, to reduce the same, following measures are adopted.

- 1. Water sprinkling will be done at regular interval on haul roads, pit and etc., to avoid the emission of dust into atmosphere.
- 2. Wet drilling will be adopted to avoid the dust in the air atmosphere.
- 3. All the belt conveyors are covered such that no is entered into the atmosphere.

4. Regular maintenance of haul roads to avoid the dust generation.

A copy of the Air quality report is enclosed as Annexure No. 14.

ii) Water Quality:

During the monsoon, there will be an impact in the form of surface runoff, wash off where the material will be transported to the local water bodies. And also there will be an impact on the ground water due to mining activities.

Following protective measures will be adopted to maintain the water quality:

- 1. Garland drains are cut all along the benches prior to the monsoon to avert the water into the pit.
- 2. No mine working will touch the ground water.
- 3. Where ever the water flow is likely to join with nalas or water bodies, the check dam will be constructed.
- 4. Retention wall / rubble walls will be constructed to arrest any wash off / surface runoff from the quarry area.

A copy of the Water quality report is enclosed as Annexure No. 15.

iii) Noise levels:

Since the quarry is mechanized, the noise pollution is mainly due to the Quarrying machinery and movement of trucks and drilling and blasting activities. There will be impact in surrounding area due to the noise generation.

To reduce the impact on the noise following measures will be adopted:

- 1. Preventive maintenance of HEMM and Trucks
- 2. Controlled blasting will be carried out to avoid noise levels.
- 3. No employees are allowed to work without PPE's where the noise levels are more and beyond the limits.

A copy of the Noise monitoring report is enclosed as Annexure No. 16.

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iv) Vibration levels (due to blasting):

Due to drilling and blasting, following are the impacts visualized:

- 1. There will be disturbance of Fauna,
- Vibration due to blasting,
- 3. Noise generation but as per the list enclosed.

To mitigate the above visualized impacts, following are the measures will be adopted.

- 1. Scientific methods will be adopted to while drilling and blasting,
- 2. Proper spacing and burden will be adopted,
- Controlled blasting will be carried out to avoid noise levels and also to control the PPV.
- 4. NONEL technology will be adopted,

v) Water Regime:

There are no perennial water courses / bodies within the quarry area. Apart from this the water source in this area is mainly storm and ground water. Entire storm water flows through the minor watercourses and joins the adjoining seasonal nallah. The drainage pattern in this area is parallel to sub parallel in nature.

Water resources in this area are Ground water and rainwater. The area receives copious amount of rainfall 3,000 - 4,000 mm annually on an average. Hence the level of water table in the open wells is shallow. Based on the observations made in and around the quarry area it was found that the general ground level in this area is 32 m above MSL, and the general ground water table is 8 m below the general ground level i.e 24 m above MSL. During monsoon the ground water table will raise by 2 - 3 mts. The bottom most working of the pit is 28 m above MSL where quarry operation will not touch the general ground water table. The impact could be in the form of the fluctuation of the ground water table, which is insignificance.

During the monsoon, there will be an impact in the form of surface runoff, wash off where the material will be transported to the local water bodies. To avoid these following protective measures will be taken up.

- 1. Construction of rubble walls all along the toe of the dumps.
- 2. Construction of drains all along the toe of the dumps.

Before onset of monsoon, drains are cut along toe of the quarry faces to divert the surface run off. Garland drain is provided at the quarry top to regulate monsoon water and direct the same to the settling ponds / quarry pit to contain the quarry wash off and to avoid the same joining to the adjoining surface water bodies / water courses. It also helps to avert eventual collapses and damages to the quarry faces.

after drainage / Rain water harvesting plan to this effect is enclosed as Plate No. 14.

vi) Acid Mine drainage: Not applicable.

vii) Surface Subsidence : Not applicable.

viii) Socio Economics

3.

There are twenty four wadas / villages within the buffer zone of 5.00 kms radius. In which the three villages namely Nagaroor, Kadavila, Vellalore and so on. Due to this Quarrying activity, no significant adverse changes are visualized in the traditional way of life of the people residing in the villages within the buffer zone. Further people residing in the nearby villages are benefited by the direct and indirect employment opportunities created by the Quarrying activities. Quarrying activity will contribute towards economic up-liftment by way of job opportunities in the region, hence there is an increase in population of the area. Quarrying activity also boosts the ancillary industries, business and market establishments.

Facilities like power linkage, water supply, communication facilities, construction of roads and statutory buildings, medical facility, vocational training provided by the lessee will augment the socio-economic status of the villagers residing nearby.

As a part of CSR activities, following community welfare measures are proposed to be carried out and the same will be continued:

Sr. No	Description	Amount in INR	Remarks
1.	Medical checkups camps like eye checkup, cancer checkup nearby villages Nagaroor, Kadavila, Vanichoor (Each year one village will be camped for special checkups and general checkup every year in all the villages)	1,00,000/- yearly	
2.	Distribution of school bag, umbrella, text and note books for primary school children at Nagaroor,	1,00,000/-	yearly

	Kadavila, Vanichoor village.		
3.	Contribution for marriages to poor / needy people at	1,00,000/-	yearly
	least 4 people @ Rs. 25,000/- each		
4.	Contribution, for local cultural and festivals	50,000/-	yearly
5.	Distribution of ration through panchayat to the needy people during Onam / Ramzan / Christmas festival at least 50 families @ Rs. 500/- per family each festival	² 50,000/-	yearly #
6.	Construction of washrooms / toilets for government Schools / High schools Nagaroor, Kadavila, Vanichoorvillage. (every year one village will be taken up)	1,50,000/-	yearly
7	Renovation / repair of temples nearby (Sree Ayiravilly, Sree Durgadevi, Perumpally temples)	1,00,000/-	yearly
	Total	6,50,000/-	-

ix) Historical Monuments:

No historical monuments exist within the vicinity of the quarry.

8.3 Progressive Reclamation Plan:

8.3.1 Mined - out Land:

Due to Quarrying and exploitation of the ore, there will be change in the ground profile in the form of pits and dumps. The detail of the land use as at present, Plan / conceptual period is shown below in tabular form:

Unit in Ha.

Description	As on date	Plan / lease period
Area under Quarrying	1.9000	2.9800
roads	0.0200	0.0200
Green belt		0.6630
Safety barrier 7.50 mts	0.6630	77
Area for future use / undisturbed	1.0800	
Total	3.6630	3.6630

Subsequent to the Conceptual stage, this quarry will be used for various activities as per the mine closure plan, as a part of closure the activities such as water pond, back filling and etc., the details of the land use of post mine closure is given below:

Sl. No.	Type of activities	Extent in Ha.	Post mining land use of degraded land	Extent in Ha.	
1.	Area under Quarrying	2.9800	Area under water pond Area remained as pit	0.9540 2.0260	
2.	roads .	0.0200	Retained as roads	0.0200	
3.	Green belt	0.6630	Retained as Green belt	0.6630	
	Total	3.6630	Total	3.6630	

NOTE:

Roads are part of the quarry area.

A conceptual plan / Post mining land use plan is enclosed as Plate No. 12.

8.3.2 Topsoil management:

W.

More or less entire area is exposed by Building Stone Material only at places, topsoil is visualized which is sparsely distributed. The amount of topsoil exists to the thickness is just 1.00mts (average). However during the course of quarrying of this area, the topsoil so occurs will be removed separately and will be used for plantation purpose. During the entire life of the quarry about 1,500tonnes of topsoil is likely to generate.

As a part of the topsoil management, to know the present quality levels of the topsoil, three soil samples locations were identified i.e one in core zone and two in buffer zone namely one location is nearest human settlements at a distance of 450 mts towards SE from the quarry site and the other is at a distance of 330 mts towards NNW from quarry. Accordingly it was sample and analysed, a quality report of the same is enclosed as **Annexure No. 17.**

8.3.3 Tailings Dam Management

REMALE

Not applicable.

Acid mine drainage, if any and it mitigative measures

Not applicable.

ther means and its monitoring mechanism:

Not applicable.

8.4 Disaster Management and Risk Assessment:

Disasters might occur only due to natural calamities like earth quake, excessive rains and flooding etc. To overcome such risks, help / aid would be sought from emergency services providers like Police station, Fire station, Hospital, Ambulance services from the authorities

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in the vicinity of the mine site. Their contact telephone numbers and communication facilities are provided and displayed on the board at the mine office as well as mine site. Responsibility of coordinating rescue activities is entrusted to Quarry – in – Charge at the Quarry site in addition to Quarry – in Charge is also looking after statutory obligations under Mines Act, 1952.

8.5 Care and Maintenance during temporary discontinuance:

Lessee proposes to work continuously, till the conceptual stage as such there is no temporary discontinuance of the mine. All required actions are timely taken and therefore, we do not foreseen such discontinuation to occur, however, management is fully equipped up to overcome any such eventuality. However due to unforeseen situation, if mines happens to discontinue temporarily due to strike, lockout & any order passed by the government, court and etc, lessee shall take care of mine by fencing the pit/quarry deploying the security guards for watch and ward of the mine.

8.6 Financial assurance : (Submitted under Rule 58 of KMMCR 2015, as a component of Mining Plan)

Area for the Financial Assurance is calculated as per the Rule 58 of KMMCR 2015, till the end of the Ensuing Mining Plan period and the details of land use considered are furnished below:

		Area o	Area of Land in use (in Ha)			Net area
SI.	Type of Land use	use at start I		Total	considered as fully reclaimed and rehabilitated	considered for calculation
		A	В	C = (A + B)	D	$\mathbf{E} = (\mathbf{C} - \mathbf{D})$
1	Area under Quarrying	1.9000	1.0800	2.9800		2.9800
2	roads	0.0200		0.0200		0.0200
3	Green belt			0.6630		0.6630
4	Safety barrier 7.50 mts	0.6630				
5	Area for future use / undisturbed	1.0800			2 A 2 A	-
	Total	3.6630		3.6630	SENT	3.6630

A PMCP showing the below land use is enclosed as Plate No. 13

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The total area under utilization till the end of the plan Period Financial assurance @ Rs. 25,000/- per hector.

3.6630 Ha

3.6630 Ha X Rs. 25,000/- per hector.

Rs. 91,575/

The financial assurance being the sum of Rs. Ninety One thousand Five Hundred Seventy Five only. But as per the rule 62 of KMMCR 2015, the minimum financial amount is Rs. One Lakh only. Accordingly the sum of Rs. One Lakh only will be submitted in the form of Bank guarantee, when once we receive the vetted from your department.

9.0 CERTIFICATES : All the required certificates are enclosed.

10.0 PLATES : All the required plates are enclosed and made

the reference in the text at relevant places.

11.0 ANNEXURES. : All the required annexure are and made the

reference in the text at relevant places.

KANTHARAJ K

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RQP/GOA/130/2000/A



ANNEXURES

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GOVERNMENT OF INDIA

MINISTRY OF CORPORATE AFFAIRS

Registrar of Companies, Ahmedabad RoC Bhavan , Opp Rupal Park Society , Behind Ankur Bus Stop , Naranpura

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 of the Companies Act, 2013 and rule 8 of the Companies (Incorporation) Rules, 2014]

I hereby certify that ADANI VIZHINJAM PORT PRIVATE LIMITED is incorporated on this Twenty Seventh day of July Two Thousand Fifteen under the Companies Act, 2013 and that the company is limited by shares.

The CIN of the company is U61200GJ2016PTC083954.

Given under my hand at Ahmedabad this Twenty Seventh day of July Two Thousand Fifteen.



Rathod Kamleshkumar Gangjibhal Assistant Registrar of Companies

Mailing Address as per record available in Registrar of Companies office:

ADANI VIZHINJAM PORT PRIVATE LIMITED Adani House, Nr. Mithakhali Six Roads, Navrangpura, Ahmedabad - 380009, Gujarat, INDIA









KANTHARAJ K.



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MEMORANDUM

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ARTICLES OF ASSOCIATION

OF

ADANI VIZHINJAM PORT PRIVATE LIMITED

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VERIFIED AND CERTIFIED THAT THIS IS THE TRUE CORY OF THE ORIGINAL

7. 7.

T.N. OMANA

Advocate & Notary Thirwananthapuram Revenue District Kerala State South India

KANTHARAJ K.

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RQP/GOA/130/2000/A

THE COMPANIES ACT, 2013 COMPANY LIMITED BY SHARES MEMORANDUM OF ASSOCIATION

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OF

ADANI VIZHINJAM PORT PRIVATE LIMITED

- I. The Name of the Company is "ADANI VIZHINJAM PORT PRIVATE LIMITED".
- II. The Registered Office of the Company will be situated in the State of Gujarat.
- III. The objects for which the Company is established are:

in A

[A] THE OBJECTS TO BE PURSUED BY THE COMPANY ON ITS INCORPORATION ARE:

1. To construct, develop, maintain, build, equip, hire or otherwise deal with ports, shipyard, jettles, harbours, docks, ship breaking, ship repair, ship building at any port in India or elsewhere and to carry on business of Inland and sea transport including goods, passengers and mail, shippers, ship agents, ship underwriters, ship managers, tug owners, barge owners, loading brokers, freight brokers, freight contractors, stevedores, warehouseman, wharfingers and building, assembling, fitting, constructing, repairing, servicing and managing ships, seagoing vessels for inland waterways and to carry on in India and in any part of the world the business and to construct, develop, erect, build, buy, sell, give or take on lease or license, repair, remodel, demolish, develop, improve, own, equip, operate and maintain, ports and port approaches, breakwaters for protection of port or on the fore shore of the port or port approaches with all such convenient arches, drains, lending places, hard jettles, floating barges or pontoons, stairs, fences, roads, railways, sidings, bridges, tunnels and approaches and widening, deepening and improving any portion of the port or port approaches, light houses, light ships, beacons, pilot boats or other appliances necessary for the safe navigation of the ports and the port approaches and to construct and establish, dry docks, shipways and boat basins and workshops to carry out repairs or overwhelming of vessels, tugs, boats, machinery or appliances.

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Advocate & Notary
Thirwananthäpuram Revenue District
Kerala State South India

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[B] MATTERS WHICH ARE NECESSARY FOR FURTHERANCE OF THE OBJECTS SPECIFIED IN

- 1. To construct, improve, maintain, develop, manage, carry out or control any wharfingers, fuel storage tanks, fire stations, electric workshops, stores, roadways and convenience which may seem to advance the business interest and contribute to or subsidies, assist or take part in the construction, improvement, maintenance, working, management, carving out, control thereof and to maintain, overhaul, repair, fit-out, refit, improve, insure, alter, sell, exchange or let out on hire or hire purchase or charter or otherwise deal with and dispose off any of the ships and container, Roll-on and Roll-off Vessels, manufacturing and processing vessels and aircrafts, helicopters, all kinds of off-shore drilling rigs, platforms, storage-floating and transport and such other facilities and other transport and conveyances or any of the engines or furnitures or equipments or stores on the ships, aircrafts or other transport and conveyances.
- 2. To acquire, build, construct, improve, develop, give or take in exchange or on lease, rent, occupy, allow, control, maintain, operate, run, sell dispose off carry out or later as may be necessary or convenient any leasehold or freehold lands, movable or immovable properties, including building jetty, workshops, warehouse, stores, easement or other rights, machineries, plant, work, stock-in-trade industrial colonies, conveniences together with all modern amenities and facilities such as housing, schools, hospitals, water supply, sanitation, townships and other facilities or properties which may seem calculated directly or indirectly to advance the Company's objects and interest either in consideration of a gross sum of a rent charged in cash or services.
- 3. To acquire and takeover any business or undertaking carried on, upon or in connection with / without any land or building which the Company may desire to acquire as aforesaid or become interested in and the whole or any of the assets and liabilities of such business or undertaking and to carry on the same or to dispose or remove or put an end thereto.
- 4. To acquire, purchase, start, run, erect and maintain lands, buildings, factories, foundries, workshops, mills, cold storage plants, equipments, machineries, plants and tools, industrial undertaking of any kind, warehouses, cellers, vaults, wagons, branch offices, depots and show-rooms for the business of the Company.
- 5. To form, promote, subsidise, organise and assist or aid in forming, promoting, subsidising, organising or aiding companies, syndicates and partnerships of all kinds for the purpose of acquiring and undertaking any properties and liabilities of this Company or for advancing directly the objects thereof which this Company may think expedient.
- 6. To acquire from and/or give to any person, firm or body corporate incorporated whether in India or elsewhere, technical information, know-how, processes, engineering, manufacturing and operating data, plants, lay outs and blue prints useful for the design, erection and operation of plant required for any of the business of Company and to acquire any grant or licenses and other rights and benefits in the foregoing matters and things.
- To pay to promoters such remuneration and fees and otherwise recompensate them for their time and for the services rendered by them.
- To invest any moneys of the Company not immediately required for the purpose of its business in such investments or securities as may be thought expedient including securities issued and/or guaranteed by Central or State Government, Corporations, Trusts and Financial institutions.
- To carry out in any part of the world all or any part of the Company's objects as principal, agent, factor, trustee, contractor either alone or in conjuction with any other Person, Firm, Association, Corporate Body, Municipality Province, State of Government or Colony or Dependency thereof.
- 10. To secure or discharge any debt or obligation of or binding on the Company in such manner as may be thought fit and in particular by mortgage, charges upon the uncertaking and all or any of the assets and properties (present and future) and the uncelled capital of the Company or by the creation and issue on such terms as may be thought expedient of debentures, debenture-stock or other securities of any description or by the issue of shares credited as fully or partly paid up.

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Advocate & Notary

Thiravananinapuram Revenue District

Kerala State South India

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- 11. To purchase or otherwise acquire, sell, dispose off, concerns and undertakings, mortgages, charges, annuities for certain period or on deferred basis, patents, licences, securities, concessions, policies, book debts and claims, any interest in real or personal property and any claims against such property or against any person or company.
- 12. To amalgamate, enter into partnerships or into any arrangements for sharing profits or losses, unlon of interests, co-operation, joint ventures or reciprocal concessions with any person or company carrying on or engaged in or about to carry on or engaged in or which can be carried on in conjuction therewith or which is capable of being conducted so as directly or indirectly to benefit the Company and to give or accept by way of consideration for any of the acts or things aforesaid or properties acquired, any shares, debentures, debenture-stock or securities that may be agreed upon and to hold and retain or sell, mortgage and deal with any shares, debentures, debenture-stock or securities so received.
- 13. To negotiate, enter into agreements and contracts or collaborate with foreign companies, firms and individuals for getting or supplying and procuring technical assistance, know-hows in the marketing, importing and exporting of any of the products.
- 14. To become member of and to communicate with Chamber of Commerce and other mercantile and public bodies throughout the world and to advise on, concert, promote and support measures for the protection, advancement, growth of commerce and industry and for protection and welfare of persons engaged therein.
- 15. To take or hold mortgages, liens and charges, to secure the payment of the purchase price or any unpaid balance of the purchase price of any part of the Company's property of whatsoever kind sold by the Company or any money due to the Company from the purchaser and others.
- 16. To contract with lease holders, borrowers, lenders, annuitants and other for the establishment, accumulation, provisions and payment of sinking funds, renewal funds, redemption funds any other special funds and that either in consideration of lumpsm or of annual premium or otherwise and generally on such terms and conditions as may be arranged.
- 17. To undertake and execute any trust or discretion the undertaking whereof may seem desirable and the distribution amongst the beneficiaries, pensioners or other persons entitled to thereof, any income, capital, annuity or other sums of moneys or other properties whether periodically or otherwise and whether in money or in specimen in furtherance of any trust discretion or other obligation or permission.
- 18. To lend money to, or provide guarantee or security on behalf of any subsidiary or group company, and guarantee obligations of any subsidiary or group company, and the payment of interest on any stocks, shares and securities of any company, firm or person in any case in which such loan, guarantee or security may be considered likely directly or indirectly to further the objects of this Company or any of its subsidiaries or group companies, and generally to give any guarantee or security whatsoever which may be deemed likely, directly or indirectly, to any person to benefit the Company or its members.
- 19. To train and get trained to and/or pay to training for the employees both present and future, for and in connection with the business of the Company.
- 20. To hold, administer, sell, realise, invest, dispose off the moneys and properties, both real and personal and to carry on, sell, realise, dispose off and deal with any estate of which the Company is executor or administrator or in any trust of which the Company is the Trustee or which the Company is administrator or in an trust of which the Company is trustee or administrator, receiver, liquidator or agent.
- 21. To make deposit, enter into recognised bonds and otherwise give security for the execution of the offices and performance of the duties of executors, administrators and trustees, receivers, liquidators and agents.
- 22. To take such steps as may be necessary to give the Company the same rights and privileges in any part of the world as are possessed by local companies or partnership of a similar nature.

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Advacate & Notary
Thirwynaninapuran Revenue District
Kerala State South India

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- 23. To apply for tender, purchase or otherwise acquire any contracts, sub-contracts, licences and concessions for or in relation to the objects or business herein mentioned or any of them and to undertake, execute, carry out, dispose off or otherwise turn to account the same.
- 24. To dedicate present or otherwise dispose off either voluntarily or for value any property of the Company deemed to be of national, public or local interest to any national trust, public body, museum, corporation or authority or any trustees for or on behalf of the same or on behalf of the public.
- 25. To promote, assist or take part and appear or lead evidences before any commission, investigation, inquiry, trial or hearing, whether public or private, relating to matters connected with any trade, business or industry.
- 26. To promote co-operation, hold conferences, organise and participate in meetings, maintain bureau, carry on correspondence, arrange discussions, symposiums and debates, prepare statements, reports and articles relating to any and all matters of interest to the Company.
- 27. To acquire by purchase, lease, assignment or otherwise, lands, tenements, buildings, basements, rights and advantages of any kind whatsoever and to resell, mortgage and let on lease the same.
- 28. To subject all or any of the works, contracts from time to time and upon such terms and conditions as may be thought expedient.
- 29. To form, manage, join or subscribe to any syndicate, pool or cartel for the business of the Company.
- 30. Subject to the provisions of the Companies Act, 2013 to distribute among the members, in specie, any property of the Company or any proceeds of sale or disposal of any property in the
- 31. To enter into any arrangement with any Government or authority, supreme, municipal, local or otherwise or any person or company that may seem conducive to the Company's objects or any of them and to obtain from any such Government, authority, person or company any rights, privileges, charters, licences and concession which the Company may think fit and desirable to obtain and to carry out, exercise and comply therewith.
- 32. To apply for, promote and obtain any act, charter, order, regulation, privilege, concession, licence or authorization of any Government, State or municipality or any authority or any corporation or any Public Body which may be empowered to grant for enabling the Company to carry on its objects into effect or for extending any of powers of the Company or for affecting any modification of the Company's constitution or for any other purpose which may seem expedient and to oppose any bills, proceedings, applications which may seem calculated directly or indirectly to prejudice the Company's Interest and to appropriate any of the Company's shares, debentures, debenture-stock or other securities and assets to defray the necessary costs, charges and expenses thereof.
- 33. To apply for, purchase or otherwise acquire, use, protect and renew in any part of the world any patents, patent rights, brevets, dinvention, trademarks, designs, licences, copyrights, concessions and the like conferring any exclusive or non-exclusive or limited right to their use or any secret or other information as to any invention which may seem capable of being used for any of the purposes of the Company or acquisition of which may seem calculated directly or indirectly to benefit the Company and to use, exercise develop or grant licences in respect of or otherwise turn to account the property, rights or information so acquired and to expend money in experimenting upon, testing or improving any such patents, inventions or rights.
- 34. To establish, provide, maintain, conduct or otherwise subsidise, assist research laboratories and experimental workshops for scientific and technical researches and experiments and to undertake and carry on the scientific and technical research, experiments and tests of all kinds and to promote studies and research, both scientific and technical, investigations and invention by providing, subsidising, endowing or assisting laboratories, workshops, libraries, the remuneration of scientific or technical professors or teachers and by providing for the award of scholarships, prizes and grant to students or otherwise and generally to encourage, promote and reward studies, researches, investigations, experiments, tests and inventions of

T.N. OMANA Advocate & Notury Thiruvananthapuram Revenue District

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- any kind that may be considered likely to assist any of the businesses which the Company is authorised to carry on.
- 35. To make donations to such persons or institutions either of cash or any other assets as may be thought directly or indirectly conducive to any of Company's objects or otherwise and in particular to remunerate any person or corporation introducing business to this Company and also to subscribe, contribute or otherwise assist or guarantee money for charitable, scientific, religious or benevolent, national, public, cultural, educational or other institutions or objects or any exhibitions for any public, general or other objects.
- 36. To establish aid, support or / and in the establishment and support of association, institutions, funds, trusts, private or public, for the benefit of its employees or ex-employees, Directors, ex-Directors of the Company or its connections in business and for persons having dealings with the company or the dependents, relatives or connections of such persons and in particular friendly or other benefit societies and grant pensions, allowances, gratuities and bonuses either by way of annual payment or lumpsum and to make payment towards insurance and to form and contribute to provident and other benefit funds for such persons and to provided for the welfare of Directors, ex-Directors and employees and ex-employees of the company and the wives, widows and families or the dependents or connections of such persons by building or contributing to the building of houses, dwellings or chawls or by grant of moneys, pensions, allowances, bonuses or other payments and to provide or subscribe or contribute towards places of instructions and recreations, hospitals, dispensaries, holidayhomes, medical and other attendance and other assistance as the company shall think fit.
- 37. To refer or agree to refer any claims, demands, disputes or any other questions by or against the Company or in which the Company is interested or concerned and whether between the Company and the member or members or his or their representatives or between the Company and third parties to arbitration in India or any places outside India and to observe and perform awards made thereon and to do all acts, deeds, matters and things to carry out or enforce the awards in accordance with the provisions of India Arbitration Act.
- 38. To pay all preliminary expenses of any company promoted by the Company or any company in which the Company is or may contemplate being interested and preliminary expenses may include all or any part of the costs and expenses of owners of any business or property acquired by the Company.
- 39. To enter into joint sector arrangements with any person, body or corporate whether in India or abroad for the business of the Company,
- 40. To pay, out of the funds of the Company, all expenses which the Company may lawfully pay with respect to the promotion, formation and registration of the Company or the Issue of capital including brokerage and commission for obtaining applications for taking, placing or underwriting of shares, debentures, debenture-stocks or other securities of the Company.
- 41. To pay for any rights or properties acquired by the Company and to pay or to remunerate any person or company for services rendered or to be rendered in placing or assisting to place or guaranteeing the placing of shares in Company's capital or any debentures, debenture-stocks or other securities of the Company or in or about the formation or promotion of the company or acquisition of properties by the Company for the purpose of the Company whether by cash payment or by the allotment of shares, debentures, debenture-stocks or other securities of the Company credited as paid-up in full or in part or otherwise as the case may be.
- 42. To open current or fixed accounts with any bank, bankers, shroff or merchants and to pay into and draw money from such accounts and to draw, make endorse, discount and execute all types of negotiable instruments.
- 43. To insure the whole or any part of the property and personnels of the Company either full or partially, to protect and indemnify any part or portion thereof either on mutual, principal or otherwise.
- 44. To employ experts to investigate and examine into conditions value, character and circumstances of any business, concerns and undertakings having similar objects and generally of any assets properties or rights.
- 45. To carry on any branch of a business whether in India or outside India which this Company is authorised to carry on by means or through the agency of any subsidiary company or

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companies and to enter into any arrangement with such subsidiary company for taking the profits and bearing the losses of any business or branch so carried on or for finance any such subsidiary, guaranteeing its liabilities or to make any other arrangement which seem desirable with reference to any business or branch so carried on including the power and provision at any time either temporarily or permanently to close any such branch or business.

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46. To take part in the management, supervision, conduct and control of the business or operations of any company or undertaking having similar objects and for that purpose to appoint and remunerate the Directors, trustees, accountants or other experts, personnel or agent for any of such operations or purposes.

47. To purchase, take on lease or exchange, hire or otherwise, acquire and dispose off any immovable or movable properties, real or personal of all kinds and of any rights or privileges which the Company may think necessary or convenient for the purpose of its business and either to retain the properties so acquired for the purpose of the Company's business or to turn the same to account as may seem expedient.

48. To accept as consideration for or in lien of the whole or any part of the Company's properties either land or cash or Government security or securities guaranteed by Government or shares in joint stock companies or partly the one and partly the other and such other properties or securities as may be determined by the Company and to take back or acquire the property so disposed off by repurchasing or taking lease the same at such price and on such terms and conditions as may be agreed upon by the Company.

49. To let on lease, or license, or on hire purchase or to lend or any properties belonging to the Company and to finance for the purpose of any article or articles whether made by the Company or not by way of loans or by hire-purchase system.

50. To sell, purchase, mortgage, grants, easements and other rights over and in any other manner deal with the undertakings, properties, assements and other rights over and in any other manner than the undertakings, properties, assets, both movable and immovable, rights, effects of the Company or any part thereof whether real or personal for such consideration as the Company may think fit and in particular for shares, debentures, debenture-stock, securities of any other company may think fit and in particular for shares, debentures, debenture-stock, securities of any other company whether or not having objects altogether or in part similar to those of the Company and to make advances upon the security of land and/or buildings and/or other properties movable and/or any interest therein.

51. To vest any movable or immovable properties, rights or interest acquired by or belonging to the Company in any person or company on behalf of or for the benefit of the Company and with or without any declared trust in favour of the Company.

52. To undertake and execute any contracts for works for the business of the Company.

53. To create any depreciation fund, reserve fund, sinking fund, insurance fund or any other special fund whether for depreciation or for repairing, improving, extending or maintaining any of the properties of the Company or for redemption of debentures or redeemable preference shares or any other purpose whatsoever conducive to the interest of the

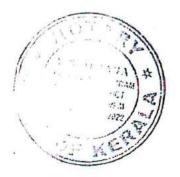
54. To accept, donations, gifts with such conditions, restrictions, obligations, stipulations and liabilities provided that such receipts are not derogative to any objects of the Company.

55. To alienate, transfer, gift, donate, settle any property of the Company with or without consideration to any person including any trust whether public or private, discretionary or specific either by revocable or irrevocable transfer or settlement and upon such terms and conditions as the Company may deem fit.

56. To explore, examine, investigation, test, make, experiment, obtain report, opinion of experts, certificates, analysis, surveys, plans, descriptions and information in relation to any property or right which the Company may acquire or become interested in or may propose to acquire or with the view of discovering properties or rights which company may acquire or become or with the view of discovering properties of rights which company may acquire of become interested in and to engage, employ, pay fees to retain the services of and send to any part or the world agents, explorers, technical experts, engineers, lawyers and counsels.

57. To adopt such means of making known the business/activities of the Company as may seem expedient and in particular by advertising in the press, by circulars, by purchase and exhibition of works of art or interest, by publications of books and periodicals and by granting prizes, rewards and donations.

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- 58. To undertake, carry out, promote, sponsor, contribute or assist in any activity, project for rural development including any programme for promoting the social and economic welfare of or the upliftment of the people in rural areas irrespective whether the Company has any business dealings in such areas or not and to incur any expenditure or use any of the assets and facilities of the Company on any programme or project or activity or rural development and to assist execution and promotion thereof either directly or in association with any other company or person or organisation or through an indepent agency or in any manner as the Company may deem fit in order to implement any of the projects or programmes or activities of rural development, to transfer without consideration or at such fair or concessional value and divert the ownership of the properties of the Company to or in favour of any public or local body, authority, Central or State Government or any public institution or trust or fund.
- 59. To raise or borrow money from time to time for any of the purposes and objects of the Company by receiving advances of any sum or sums with or without security upon such terms as the Directors may deem expedient and in particular by taking deposits from or open current accounts with any individual or firms including the agents of the Company, whether with or without giving the security or by mortgaging or selling or receiving advances on the sale of any lands, buildings, machineries, goods or other properties of the Company or by the issue of the debentures or debenture-stocks, perpetual or otherwise, charged upon all or any of Company's properties (both present and future) including its uncalled capital or by such other means as Directors may in their absolute discretion deem expedient.
- 60. Subject to the Companies Act, 2013 and rules made thereunder and directions issued by Reserve Bank of India, to borrow, raise, or secure the payment of money to or receive money and deposit as time deposit or otherwise at interest for any purpose of the Company and at such time or times and in such manner as may be thought fit and in particular by the creation and issue of the debentures or debenture-stock, bonds, shares credited as fully or partly paid up, obligations, mortgages, charges and securities of all kinds, either perpetual or otherwise either redeemable annuities in as and by way of securities for any such money so borrowed, raised or received or of any such debentures, debenture-stock, bonds, obligations, mortgage, charges and securities of all kinds, either so issued to mortgage, pledge or charge the undertaking or whole or any part of the properties, rights, assest or revenue and profits of the Company, present and future, including its uncalled capital or otherwise howsoever by trust, special assignment or otherwise or to transfer or convey the same absolutely or in trust and give the lenders powers, as may seem expedient and to purchase, redeem or pay off any such securities. The Company shall not carry on business of Banking as defined by the Banking Regulation Act, 1949.
- 61. To promote or Join in the promotion of any company or companies including subsidiary companies (wholly owned or partly owned) for the purpose of acquiring all or any of the properties, rifts and liabilities of the Company or for any other purpose which may seem directly or indirectly calculated to benefit the Company and to underwrite shares and securities therein.
- 62. To indemnify, members, officers, Directors, agents and employees of the Company against proceedings, cost, damages, claims and demands in respect of anything done or ordered to be done by them and in the interest of the Company of any loss, damage or misfortune whatsoever which shall happen in the execution of the duties of their offices or in relation thereto.
- 63. Subject to the provisions of the Act, the Company shall have power to borrow any sum or sums of money for the purpose of the Company on such other terms and conditions and from such person or persons, firms, bank or any financial, industrial, institutions or any Government or Semi-Government Corporation as the Company may deem fit.
- 64. To provide for the welfare of Directors, employees, or ex-employees of the Company and the wives, widows and families of the dependents or connections of such persons by building or contributing for the building, houses, dwelling or quarters, or by grants of money, pensions, gratuities, allowance, bonus, profit sharing bonus or benefits or other payments or by creating and from time to time subscribing to contributing to provident and other associations, institutions, funds, profit sharing or other scheme or trust and hospitals and dispensaries, medical and other attendants, and other assistance as the Company shall think fit.

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- 65. To undertake and/or direct all types of constructions and the maintenance of or/and acquire by purchase, lease, exchange, hire or otherwise, lands, properties, buildings and estates of any tenure or any interest therein, to sell, lease let, mortgage or otherwise dispose off the same and to purchase, construct and sell or for any person free hold or lease hold lands, house properties, buildings, offices, factories, workshops, godowns farm houses, farm and any kind of landed properties or any share/interest therein and to carry on the business of land and mestate agents on commission or otherwise without commission.
- 66. To act as promoters and developers of lands, commercial buildings, offices or other buildings in furtherance of the objects and for the purpose to purchase, take on lease acquire, hold, develop, prepare building sites, construct, reconstruct, repair maintain, pull down alter, improve, decrease, furnish, give on hire, purchase or on installments or deal in any lands, commercial buildings, offices, works and sanitary conveniences of all kinds and to lay out roads, drainage pipes, water pipes and electric installations and to set apart lands for pleasure, gardens and recreation grounds or improve the land or any part thereof.
- 67. To establish, maintain and operate shipping, air transport and road transport services and all ancillary services and for these purposes as or an independent undertaking to purchase, take in exchange, charter, hire, build construct or otherwise acquire and to own, work, manage and trade with steam, sailing, motor and other ships, trawlers, drifters, tugs and vessels, aircraft and motor and other vehicles with all necessary and convenient equipments, engines, tackle, gears, furniture and stores and to maintain, repair, fit out, refit, improve, insure, alter, sell, exchange or let out on hire or hire-purchase or charter or otherwise deal with and dispose off any of the ships, vessels, aircrafts and vehicles or any of the engines, tackles, gears, furniture, equipments and stores.
- 68. To establish the business of warehousing in all its aspects in India and elsewhere.
- 69. To purchase or acquire container stacking cranes, Mobile Container Cranes, Van Movers, Trailers, Heavy Forklift Trucks, barges, Ships, Wooden Crafts and Pallets, Portainers, Transtainers, Straddle carries and such other handling equipment and retain them as service in Docks, Container Freight and on roads.
- 70. To purchase, take on exchange or on lease or on rent, occupy, or otherwise acquire lands, warehouse, godowns and to erect, construct, build and establish Cold Storage Plants, Warehouses, godowns, Container Terminals and container freight stations or to enter into contracts with Government Bodies, to construct such container freight stations or terminals as required by them.
- To manufacture and repair containers, to purchase or acquire on lease or otherwise containers and give them on lease or on rent.
- To make available the warehousing facilities including cold storage facilities for stuffing and destuffing the cargo into the containers.
- 73. To erector build container freight station or container terminals semi or fully automated.
- 74. To study, advice planning, management and administration of terminals, port operating companies, handling of general and RO/RO-LO/LO cargo, handling of bulk goods, warehousing, handling of containers, trucking of containers, collecting and disposal of oily residues, recycling of special wastes.
- To offer facilities and services for RO/RO handling such as despatch of all sizes of vessels, trailer handling, cargo lashing.
- 76. To offer facilities and services for port lighterage and barge transport for conventional and bulk cargo, container transport, heavy lifts and specialised transports, push boats and tug services, barge rental, storage in lighters.
- To offer facilities and services for inland waterway transports, such as push boat, seabee and lash transports, bulk goods transports, forwarding storage.
- 78. To offer facilities and services for rank transportation in port and finland waterway push boat transports of mineral and vegetable oils, chemicals and other liquids, bundering, oily residues, ballast and tank wash water, transit storage of all types of oil.

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- IV. The liability of the members is limited and this liability is limited to the amount unpaid, if any, on the shares held by them.
- V. The Authorised Share Capital of the Company Is Rs, 5,00,000/- [Rupees Five Lac Only] divided into 50,000 [Fifty Thousand] Equity Shares of Rs.10/- [Rupees Ten Only] each.

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We, the several persons, whose name and addresses are subscribed are desirous of being formed into a Company in pursuance of this Memorandum of Association and we respectively agree to take the respective number of shares in the capital of the Company set opposite our respective names:

Photo	Sr. No.	Name, Addresses, Descriptions, Occupation and Signature of the subscribers	Number of Equity Shares taken by each subscriber	Name, Address, Description and Occupation of the Common Witness
	1	For and on behalf of M/s Adani Ports and Special Economic Zone Limited (CIN L63090GJ1998PLC034182) having its registered office at Adani House, Nr. Mithakhali Six Roads, Navrangpura, Ahmedabad - 380009 through its authorised person vide Board Resolution passed on 1st May, 2015. Dipti Shah W/o Yogesh Shah residing at 601, Shailraj Tower, Nehru Park, Vastrapur, Ahmedabad-380015 Occupation: Service Sd/-	49,940 (Forty Nine Thousand Nine Hundred Forty only)	Common witness for all 7 subscribers I, witness to subscribers who have subscribed and signed in my presence. Further, I have verified his/her/their identify details for their identification and satisfied myself of their identification particulars as filled in Hardik Sanghvi residing at 15, Parshwanathn agar Society. Nr. Police Chowki, Naranpura Char Rasta, Ahmedabad-380013, Occupation: Service Company Secretary FCS No. 7247 5d/-
	2	Malay Mahadevia [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Dr. Ramesh Mahadevia residing at 12-B, Gyankunj Society, Opp. St. Xavier's College, Navrangpura, Ahmedabad – 380009.	10 (Ten Only)	
	3	Ravi Bhamidipaty [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Shri Srirama Murthy Bhamidipaty residing at 'Amrut' 26, Amrashrish Bunglows, Opp. Chimanbhai Patel Institute, Bh. Shapath 4. Prahaladnagar, Ahmedabad 380058 Occupation: Service	10 (Ten Only)	
	4	Azad Kumar Somani [As nominee of Adani Ports and Special Economic Zone Ltd.] 5/0 Shri Jwala Prasad Somani residing at 84, Star Apartments, Karnavatipagarkpa Bazar, Ahmedabad-380001. Occupation: Service Sd/-	10 (Ten Only)	
	5	Manoj Kumar Chanduka [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Shri Biswanath Lal Chanduka residing at B-401, Panchamrut Appartments, Opp. Nehru Foundation, Bodakdey, Ahmedabad-380054. Occupation: Service Sd/-	10 (Ten Only)	
	6	Anish Ashokkumar Shah [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Shri Ashokkumar Amrutlel Shah residing at B-12. Keshav Appartments, Near Memnagar Talavdi, Memnagar, Ahmedabad-380052. Occupation: Service	(Ten Only)	
	7	Kamlesh Bhagia [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Shrl Prabhudas Bhagia residing at A-203, Samarthy Residency, Nr. P. R. Patel School, D'cabin, Kaligam, Sabarmati, Ahmedabad-380019. Occupation: Service Sd/-	70 (Ten Only)	
		Total:	(Fifty Thousand)

Place: Ahmedabad





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Dated: 22,07.2015

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THE COMPANIES ACT, 2013 [COMPANY LIMITED BY SHARES]

ARTICLES OF ASSOCIATION

OF

ADANI VIZHINJAM PORT PRIVATE LIMITED

PRELIMINARY AND INTERPRETATION

- [1] The Regulations contained in Table "F" in Schedule I of the Companies Act, 2013 shall not apply to the Company, except in so far as the same are repeated, contained or expressly made applicable in these Articles or by the said Act.
 - [2] (a) The marginal notes used in these Articles shall not affect the construction thereof.
 - (b) In the interpretation of these Articles, the following expressions shall have the following meanings, unless repugnant to the subject or context
 - "Act" means the Companies Act, 2013 or any statutory modification or reenactment thereof for the time being in force and the Companies Act 1956, so far as may be applicable.
 - "Articles" means these articles of association of the Company or as altered from time to time.
 - "Board of Directors" or "Board" means collective body of Directors of the Company.
 - "Company" means "ADANI VIZHINJAM PORT PRIVATE LIMITED".
 - "Depository" means and includes a Company as defined in the Depositories Act 1996.
 - "Rules" means the applicable rule for the time being in force as prescribed in relevant sections of the Act.
 - "Seal" means Common Seal of the Company.
 - "Secretarial Standards" means standards provided by the Institute of Companies Secretaries of India.
 - "Securities" means the securities as defined in clause (h) of Section 2 of the Securities Contracts (Regulation) Act 1956.

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- (d) Words importing the singular number also include, where the context requires or admits, the plural number and vice-versa.
- (e) Unless the context otherwise requires, words or expression contained in these Articles shall bear the same meaning as in the Act or the Rules, as the case may be.

PRIVATE COMPANY

- The Company is a Private Company Limited by Shares within the meaning of Section 2(68) of the Act, and accordingly,
 - (a) Restricts the right to transfer its shares, in the manner and to the extent as hereinafter provided;
 - (b) Limits the number of its members to 200 [Two Hundred] but not including:
 - (i) Persons who are in the employment of the Company.
 - (ii) Persons who, having been formerly in the employment of the Company, were members of the Company while in that employment and have continued to be the members after the employment ceased; provided that where two or more persons hold one or more shares in the Company jointly, they shall, for the purpose of this Article, be treated as a single member.
 - (c) Prohibits any invitation to the public to subscribe for any securities of the Company.
 - (d) The Company is having a minimum paid up share capital of Rs. 1,00,000/-(Rupees One Lac only) or such higher amount of capital as may be prescribed,

SHARE CAPITAL AND VARIATION OF RIGHTS

- Subject to the provisions of the Act and these Articles, the shares in the capital of the company shall be under the control of the Directors who may issue, allot or otherwise dispose of the same or any of them to such persons, in such proportion and on such terms and conditions and either at par or at a premium or at consideration otherwise than in cash and at such time as they may from time to time think fit. The Company may issue equity with voting rights and/or with differential rights as to dividend, voting or otherwise in accordance with the Rules and preference shares.
- 4. (i) Every person whose name is entered as a member in the register of members shall be entitled to receive within two months after allotment or within one month after the application for the registration of transfer or transmission or within such other period as the conditions of issue provide,-

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such sum as may be prescribed for each certificate after the first.

- (ii) Every certificate shall be under the seal and shall specify the shares to which it relates and the amount paid-up thereon.
- (iii) In respect of any share or shares held jointly by several persons, the company shall not be bound to issue more than one certificate, and delivery of a certificate for a share to one of several joint holders shall be sufficient delivery to all such holders.
 - Every holder of or subscriber to Securities of the Company shall have the option to receive security certificates or to hold the Securities with a depository. Such a person who is the beneficial owner of the Securities can at any time opt out of a Depository, if permitted, by the law, in respect of any Securities in the manner provided by the Depositories Act, 1996 and the Company shall, in the manner and within the time prescribed, issue to the beneficial owner the required Certificates for the Securities.
- 6. (i) If any share certificate be worn out, defaced, mutilated or torn or if there be no further space on the back for endorsement of transfer, then upon production and surrender thereof to the company, a new certificate may be issued in lieu thereof, and if any certificate is lost or destroyed then upon proof thereof to the satisfaction of the company and on execution of indemnity or such other documents as may be prescribed by the Board, a new certificate in lieu thereof shall be given. Every certificate under this Article shall be issued on payment of fees for each certificate as may be fixed by the Board.
 - (ii) The provisions of the foregoing article relating to issue of certificates shall mutatis mutandis apply to debentures or other securities of the company.
- Except as required by law, no person shall be recognised by the company as holding any share upon any trust, and the company shall not be bound by, or be compelled in any way to recognise (even when having notice thereof) any equitable, contingent, future or partial interest in any share, or any interest in any fractional part of a share, or (except only as by these regulations or by law otherwise provided) any other rights in respect of any share except an absolute right to the entirety thereof in the registered holder.
- 8. (i) The company may exercise the powers of paying commissions conferred under the Act, provided that the rate per cent or the amount of the commission paid or agreed to be paid shall be disclosed in the manner required under the Act and rules made thereunder.
 - (ii) The rate or amount of the commission shall not exceed the rate or amount prescribed in rules made under the Act.
 - (iii) The commission may be satisfied by the payment of cash or the allotment of fully or partly paid shares or partly in the one way and partly in the other.

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of the shares of that class) may, subject to the provisions of the Act, and whether or not the company is being wound up, be varied with the consent in writing of the holders of three-fourths of the issued shares of that class, or with the sanction of a special resolution passed at a separate meeting of the holders of the shares of that class.

- (ii) To every such separate meeting, the provisions of these regulations relating to general meetings shall mutatis mutandls apply.
- The rights conferred upon the holders of the shares of any class issued with preferred or other rights shall not, unless otherwise expressly provided by the terms of issue of the shares of that class, be deemed to be varied by the creation or issue of further shares ranking pari passu therewith.
 - 11. Subject to the provisions of the Act, any preference shares may be issued on the terms that they are to be redeemed or converted into equity shares on such terms and in such manner as the company before the issue of the shares may, determine.
 - The Board or the Company as the case may be, may, by way of right issue or preferential offer or private placement or any other manner, subject to and in accordance with Act and the Rules, issue further securities to:
 - (a) persons who, at the date of the offer, are holders of equity shares of the Company. Such offer shall be deemed to include a right exercisable by the person concerned to renounce the shares offered to him or any of them in favor of other person or;
 - (b) employees under the employees' stock option or;
 - (c) any person whether or not those persons include the persons referred to in clause (a) or clause (b) above;

LIEN

- 13. (i) The company shall have a first and paramount lien-
 - (a) on every share (not being a fully paid share), for all monies (whether
 presently payable or not) called, or payable at a fixed time, in respect of
 that share; and
 - (b) on all shares (not being fully paid shares) standing registered in the name of a single person, for all monles presently payable by him or his estate to the company:

Provided that the Board of directors may at any time declare any share to be wholly or in part exempt from the provisions of this clause.

(ii) The company's lien, if any, on a share shall extend to all dividends payable and bonuses declared from time to time in respect of such shares.

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Provided that no sale shall be made-

- (a) unless a sum in respect of which the lien exists is presently payable; or
- (b) until the expiration of fourteen days after a notice in writing stating and demanding payment of such part of the amount in respect of which the lien exists as is presently payable, has been given to the registered holder for the time being of the share or the person entitled thereto by reason of his death or insolvency.
- 15. (i) To give effect to any such sale, the Board may authorise some person to transfer the shares sold to the purchaser thereof.
 - (ii) The purchaser shall be registered as the holder of the shares comprised in any such transfer.
 - (iii) The purchaser shall not be bound to see to the application of the purchase money, nor shall his title to the shares be affected by any irregularity or invalidity in the proceedings in reference to the sale.
- 16. (i) The proceeds of the sale shall be received by the company and applied in payment of such part of the amount in respect of which the lien exists as is presently payable.
 - (ii) The residue, if any, shall, subject to a like lien for sums not presently payable as existed upon the shares before the sale, be paid to the person entitled to the shares at the date of the sale.

The provisions of these Articles relating to Lien shall mutatis mutandis apply to any other Securities including debentures of the Company.

CALLS ON SHARES

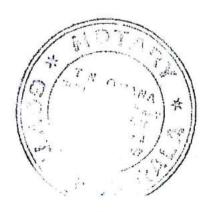
17. (i) The Board may, from time to time, make calls upon the members in respect of any monies unpaid on their shares (whether on account of the nominal value of the shares or by way of premium) and not by the conditions of allotment thereof made payable at fixed times:

Provided that no call shall exceed one fourth of the nominal value of the share or be payable at less than one month from the date fixed for the payment of the last preceding call.

- (ii) Each member shall, subject to receiving at least fourteen days' notice specifying the time or times and place of payment, pay to the company, at the time or times and place so specified, the amount called on his shares.
- (iii) A call may be revoked or postponed at the discretion of the Board.
- 18. A call shall be deemed to have been made at the time when the resolution of the Board authorising the call was passed and may be required to be paid by installments.

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- 20. (i) If a sum called in respect of a share is not paid before or on the day appointed for payment thereof, the person from whom the sum is due shall pay interest thereon from the day appointed for payment thereof to the time of actual payment at ten per cent per annum or at such lower rate, if any, as the Board may determine.
 - (ii) The Board shall be at liberty to waive payment of any such interest wholly or in part.
- 21. (i) Any sum which by the terms of issue of a share becomes payable on allotment or at any fixed date, whether on account of the nominal value of the share or by way of premium, shall, for the purposes of these regulations, be deemed to be a call duly made and payable on the date on which by the terms of issue such sum becomes payable.
 - (ii) In case of non-payment of such sum, all the relevant provisions of these regulations as to payment of interest and expenses, forfeiture or otherwise shall apply as if such sum had become payable by virtue of a call duly made and notifled.
- 22. The Board-
 - (a) may, if it thinks fit, receive from any member willing to advance the same, all or any part of the monies uncalled and unpaid upon any shares held by him; and
 - (b) upon all or any of the monies so advanced, may (until the same would, but for such advance, become presently payable) pay interest at such rate not exceeding, unless the company in general meeting shall otherwise direct, twelve per cent per annum, as may be agreed upon between the Board and the member paying the sum in advance.

TRANSFER OF SHARES

- (i) The instrument of transfer of any share in the company shall be executed by or on behalf of both the transferor and transferee.
 - (ii) The transferor shall be deemed to remain a holder of the share until the name of the transferee is entered in the register of members in respect thereof.
- 24. The Board may, subject to the right of appeal conferred by the Act decline to register-
 - (a) the transfer of a share, not being a fully pald share, to a person of whom they do not approve; or
 - (b) any transfer of shares on which the company has a lien.

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- (a) the instrument of transfer is in the form as prescribed in rules made under the Act;
- (b) the instrument of transfer is accompanied by the certificate of the shares to which it relates, and such other evidence as the Board may reasonably require to show the right of the transferor to make the transfer; and
- (c) the instrument of transfer is in respect of only one class of shares.
 26. On giving not less than seven days' previous notice in accordance with the Act and rules made there under, the registration of transfers may be suspended at such times and for such periods as the Board may from time to time determine:

Provided that such registration shall not be suspended for more than thirty days at any one time or for more than forty-five days in the aggregate in any year.

27. The provision of these Articles relating to transfer of shares shall mutatis mutandis apply to any other securities including debentures of the Company.

TRANSMISSION OF SHARES

- 28. (i) On the death of a member, the survivor or survivors where the member was a joint holder, and his nominee or nominees or legal representatives where he was a sole holder, shall be the only persons recognised by the company as having any title to his interest in the shares.
 - (ii) Nothing In clause (i) shall release the estate of a deceased joint holder from any liability in respect of any share which had been jointly held by him with other persons.
- 29. (i) Any person becoming entitled to a share in consequence of the death or insolvency of a member may, upon such evidence being produced as may from time to time properly be required by the Board and subject as hereinafter provided, elect, either-
 - (a) to be registered himself as holder of the share; or
 - (b) to make such transfer of the share as the deceased or insolvent member could have made.
 - (ii) The Board shall, in either case, have the same right to decline or suspend registration as it would have had, if the deceased or insolvent member had transferred the share before his death or insolvency.
- 30. (i) If the person so becoming entitled shall elect to be registered as holder of the share himself, he shall deliver or send to the company a notice in writing signed by him stating that he so elects.

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- (ili) All the limitations, restrictions and provisions of these regulations relating to the right to transfer and the registration of transfers of shares shall be applicable to any such notice or transfer as aforesaid as if the death or insolvency of the member had not occurred and the notice or transfer were a transfer signed by that member.
- A person becoming entitled to a share by reason of the death or insolvency of the holder shall be entitled to the same dividends and other advantages to which he would be entitled if he were the registered holder of the share except that he shall not, before being registered as a member in respect of the share, be entitled in respect of it to exercise any right conferred by membership in relation to meetings of the company:

Provided that the Board may, at any time, give notice requiring any such person to elect either to be registered himself or to transfer the share, and if the notice is not complied with within ninety days, the Board may thereafter withhold payment of all dividends, bonuses or other monies payable in respect of the share, until the requirements of the notice have been complied with.

The Company shall incur no liability or responsibility whatsoever in 32. consequence of its registering or giving effect to any transfer of shares made or purporting to be made by any apparent legal owner thereof (as shown or appearing in the Register of Members) to the prejudice of persons having or claiming any equitable right, title or interest to or in the said shares, notwithstanding that the company may have had notice of such equitable right, title or interest or notice prohibiting registration of such transfer and may have entered such notice referred thereto in any book of the company and the company shall not be bound or required to regard or attend or give effect to any notice which may be given to it of any equitable right, title or interest or be under any liability whatsoever for refusing or neglecting so to do, though it may have been entered or referred to in some book of the company, but the company shall nevertheless be at liberty to regard and attend to any such notice and give effect thereto it the Directors shall so think fit.

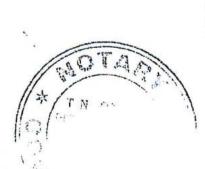
FOREFEITURE OF SHARES

- If a member fails to pay any call, or installment of a call, on the day appointed for payment thereof, the Board may, at any time thereafter during such time as any part of the call or installment remains unpaid, serve a notice on him requiring payment of so much of the call or installment as is unpaid, together with any interest which may have accrued.
- The notice aforesaid shall-
 - (a) name a further day (not being earlier than the expiry of fourteen days from the date of service of the notice) on or before which the payment required by the notice is to be made; and

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- 35. If the requirements of any such notice as aforesaid are not complied with, any share in respect of which the notice has been given may, at any time thereafter, before the payment required by the notice has been made, be forfeited by a resolution of the Board to that effect.
- A forfeited share may be sold or otherwise disposed of on such terms and in 36 (i) such manner as the Board thinks fit. ...
 -) (ii) At any time before a sale or disposal as aforesaid, the Board may cancel the forfeiture on such terms as it thinks fit.
- A person whose shares have been forfeited shall cease to be a member in 37. (i) respect of the forfeited shares, but shall, notwithstanding the forfeiture, remain liable to pay to the company all monies which, at the date of forfeiture, were presently payable by him to the company in respect of the shares.
 - The liability of such person shall cease if and when the company shall have received payment in full of all such monies in respect of the shares.
- A duly verified declaration in writing that the declarant is a director, the 38. (i) manager or the secretary, of the company, and that a share in the company has been duly forfeited on a date stated in the declaration, shall be conclusive evidence of the facts therein stated as against all persons claiming to be entitled to the share;
 - . The company may receive the consideration, if any, given for the share on any sale or disposal thereof and may execute a transfer of the share in favour of the person to whom the share is sold or disposed of;
 - (iii) The transferee shall thereupon be registered as the holder of the share; and
 - The transferee shall not be bound to see to the application of the purchase money, if any, nor shall his title to the share be affected by any irregularity or invalidity in the proceedings in reference to the forfeiture, sale or disposal of the share.
- 39. The provisions of these regulations as to forfeiture shall apply in the case of non payment of any sum which, by the terms of issue of a share, becomes payable at a fixed time, whether on account of the nominal value of the share or by way of premium, as if the same had been payable by virtue of a call duly made and notified.

ALTERATION OF CAPITAL

Subject to provisions of the Act the company may, from time to time, increase 40. the share capital by such sum, to be divided into shares of such amount, as may be specified in the resolution.



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- (a) consolidate and divide all or any of its share capital into shares of larger amount than its existing shares;
- (b) convert all or any of its fully paid-up shares into stock, and reconvert that stock into fully paid-up shares of any denomination;
- sub-divide its existing shares or any of them into shares of smaller amount than is fixed by the memorandum;
- (d) cancel any shares which, at the date of the passing of the resolution, have not been taken or agreed to be taken by any person.
- Where shares are converted into stock,-

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(a) the holders of stock may transfer the same or any part thereof in the same manner as, and subject to the same regulations under which, the shares from which the stock arose might before the conversion have been transferred, or as near thereto as circumstances admit:

Provided that the Board may, from time to time, fix the minimum amount of stock transferable, so, however, that such minimum shall not exceed the nominal amount of the shares from which the stock arose.

- (b) the holders of stock shall, according to the amount of stock held by them, have the same rights, privileges and advantages as regards dividends, voting at meetings of the company, and other matters, as if they held the shares from which the stock arose; but no such privilege or advantage (except participation in the dividends and profits of the company and in the assets on winding up) shall be conferred by an amount of stock which would not, if existing in shares, have conferred that privilege or advantage.
- (c) such of the regulations of the company as are applicable to paid-up shares shall apply to stock and the words "share" and "shareholder" in those regulations shall include "stock" and "stock-holder" respectively.
- 43. The company may, subject to provisions of the Act, reduce in any manner and with, and subject to, any incident authorised and consent required by law,
 - (a) Its share capital:
 - (b) any capital redemption reserve account; or
 - (c) any share premium account.
 - (d) any other reserve in the nature of share capital

CAPITALISATION OF PROFITS

44. (i) The company in general meeting may, upon the recommendation of the Board, resolve-

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or to the credit of the profit and loss account, or otherwise available for distribution; and

- (b) that such sum be accordingly set free for distribution in the manner specified in clause (ii) amongst the members who would have been entitled thereto, if distributed by way of dividend and in the same proportions.
- (ii) The sum aforesaid shall not be paid in cash but shall be applied, subject to the provision contained in clause (iii), either in or towards-
 - paying up any amounts for the time being unpaid on any shares held by such members respectively;
 - (b) paying up in full, unissued shares of the company to be allotted and distributed, credited as fully paid-up, to and amongst such members in the proportions aforesaid;
 - (c) partly in the way specified in sub-clause (a) and partly in that specified in sub-clause (b);
 - (d) A securities premium account and a capital redemption reserve account may, for the purposes of this regulation, be applied in the paying up of unissued shares to be issued to members of the company as fully paid bonus shares;
 - (e) The Board shall give effect to the resolution passed by the company in pursuance of this regulation.
- 45. (i) Whenever such a resolution as aforesaid shall have been passed, the Board shall-
 - (a) make all appropriations and applications of the undivided profits resolved to be capitalised thereby, and all allotments and issues of fully paid shares if any; and
 - (b) generally do all acts and things required to give effect thereto.
 - (ii) The Board shall have power-
 - (a) to make such provisions, by the Issue of fractional certificates or by payment in cash or otherwise as it thinks fit, for the case of shares becoming distributable in fractions; and
 - (b) to authorise any person to enter, on behalf of all the members entitled thereto, into an agreement with the company providing for the allotment to them respectively, credited as fully paid-up, of any further shares to which they may be entitled upon such capitalisation, or as the case may require, for the payment by the company on their behalf, by the

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(iii) Any agreement made under such authority shall be effective and binding on such members.

BUY-BACK OF SHARES

A6. Notwithstanding anything contained in these articles but subject to the provisions of the Act or any other law for the time being in force, the company may purchase its own shares or other specified securities.

GENERAL MEETINGS

- 47. All General Meetings other than Annual General Meeting shall be called Extra ordinary General Meeting.
- 48. The Board may, whenever it thinks fit, call an Extra ordinary General Meeting.

PROCEEDINGS AT GENERAL MEETINGS

- 49. (i) No business shall be transacted at any general meeting unless a quorum of members is present at the time when the meeting proceeds to business.
 - (ii) Save as otherwise provided herein, the quorum for the general meetings shall be as provided in the Act.
- 50. The chairperson, if any, of the Board shall preside as Chairperson at every general meeting of the company.
- 51. If there is no such Chairperson, or if he is not present within fifteen minutes after the time appointed for holding the meeting, or is unwilling to act as chairperson of the meeting, the directors present shall elect one of their members to be Chairperson of the meeting.
- 52. If at any meeting no director is willing to act as Chairperson or if no director is present within fifteen minutes after the time appointed for holding the meeting, the members present shall choose one of their members to be Chairperson of the meeting.
- 53. On any business at any general meeting in the case of an equality of votes, whether on a show of hands, electronically or on a poll, the Chairman of the meeting shall have second or casting vote.

ADJOURNMENT OF MEETING

- 54. (i) The Chairperson may, suomoto and, in the absence of quorum shall adjourn the meeting from time to time and from place to place.
 - (ii) No business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place.

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T.N. OMANA Advocate & Notary Thiruvananthapuram Revenue District (iv) Save as aforesaid, and as provided in the Act, it shall not be necessary to give any notice of an adjournment or of the business to be transacted at an adjourned meeting.

VOTING RIGHTS

- 55. Subject to any rights or restrictions for the time being attached to any class or classes of shares,-
 - (a) on a show of hands, every member present in person shall have one vote; and
 - (b) on a poll or through voting by electronic means, the voting rights of members shall be in proportion to his share in the paid-up equity share capital of the company.
- A member may exercise his vote at a meeting by electronic means in 56. accordance with the Act and shall vote only once.
- In the case of joint holders, the vote of the senior who tenders a vote, 57. (i) whether in person or by proxy, shall be accepted to the exclusion of the votes of the other joint holders.
 - (ii) For this purpose, seniority shall be determined by the order in which the names stand in the register of members.
- 58, A member of unsound mind, or in respect of whom an order has been made by any court having jurisdiction in lunacy, may vote, whether on a show of hands or on a poll or through voting by electronic means, by his nominee or other legal guardian, and any such nominee or guardian may, on a poll, vote by proxy.
- 59. Any business other than that upon which a poll has been demanded may be proceeded with, pending the taking of the poll.
- 60. No member shall be entitled to vote at any general meeting unless all calls or other sums presently payable by him in respect of shares in the company have been paid.
- No objection shall be raised to the qualification of any voter except at the 61. (1) meeting or adjourned meeting at which the vote objected to is given or tendered, and every vote not disallowed at such meeting shall be valid for all purposes.

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(ii) Any such objection made in due time shall be referred to the Chairperson of the meeting, whose decision shall be final and conclusive.



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- o2. The instrument appointing a proxy and the power-or-attorney or other authority, if any, under which it is signed or a notarised copy of that power or authority, shall be deposited at the registered office of the company not less than 48 hours before the time for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll, not less than 24 hours before the time appointed for taking of the poll; and in default the instrument of proxy shall not be treated as valid.
- An instrument appointing a proxy shall be in the form as prescribed in the rules made under the Act.
- A vote given in accordance with the terms of an instrument of proxy shall be valid, notwithstanding the previous death or insanity of the principal or the revocation of the proxy or of the authority under which the proxy was executed, or the transfer of the shares in respect of which the proxy is given:

Provided that no intimation in writing of such death, insanity, revocation or transfer shall have been received by the company at its office before the commencement of the meeting or adjourned meeting at which the proxy is used.

BOARD OF DIRECTORS

- 65. (i) Until otherwise determined by a General Meeting of the Company and subject to the provisions of the Act, the number of Directors shall not be less than three nor more than fifteen.
 - (ii) The first Directors of the Company are:
 - 1. Sudipta Bhattacharya (DIN: 06817333)
 - 2. Karan Adani (DIN: 03088095)
 - 3. Santosh Kumar Mohapatra (DIN: 00284280)
- 66. Subject to provisions of the Act, the Board shall have the power to determine the directors whose period of office is or is not liable to determination by retirement of directors by rotation.
- 67. The same individual may, at the same time, be appointed as Chairman as well as Managing Director or Chief Executive Officer of the Company.
- 68. (i) The remuneration of the directors shall, in so far as it consists of a monthly payment, be deemed to accrue from day-to-day.
 - (ii) In addition to the remuneration payable to them in pursuance of the Act, the directors may be paid all travelling, hotel and other expenses properly incurred by them-
 - in attending and returning from meetings of the Board of Directors or any committee thereof or general meetings of the company; or
 - (b) in connection with the business of the company.

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provisions of under the Act) make and vary such regulations as it may thinks fit respecting the keeping of any such register.

- 70. All cheques, promissory notes, drafts, hundis, bills of exchange and other negotiable instruments, and all receipts for monies paid to the company, shall be signed, drawn, accepted, endorsed or otherwise executed, as the case may be, by such person and in such manner as the Board shall from time to time by resolution determine.
- 71. Every director present at any meeting of the Board or of a committee thereof shall sign against his name in a book to be kept for that purpose.
- 72. (i) Subject to the provisions of the Act, the Board shall have power at any time, and from time to time, to appoint a person as an Additional Director, provided the number of the Directors and Additional Directors together shall not at any time exceed the maximum strength fixed for the Board by the articles.
 - (ii) Such person shall hold office only up to the date of the next Annual General Meeting of the company but shall be eligible for appointment by the company as a Director at that meeting subject to the provisions of the Act,
- 73. (i) The Board may appoint an Alternate Director to act for a Director (herein after in this Article called "the Original Director") during his absence for a period not less than three months from India. No person shall be appointed as an Alternate Director for an Independent Director unless he is qualified to be appointed as an Independent Director under the provisions of the Act.
 - (ii) An Alternate Director shall not hold office for a period longer than that permissible to the Original Director in whose place he has been appointed and shall vacate the office if and when Original Director returns to India.
 - (iii) If the term of office of the Original Director is determined before he return to India the automatic reappointment of retiring directors in default of another appointment shall apply to the Original Director and not the Alternate Director.
- 74. (i) If the office of any director appointed by the Company in general meeting is vacated before his term of office expires in the normal course, the resulting casual vacancy may, be filled by the Board of Directors at a meeting of the Board.
 - (ii) The Director so appointed shall hold office only upto the date till which the Director in whose place he is appointed would have held office if it had not been vacated.

NOMINEE DIRECTOR

75. Notwithstanding anything to the contrary contained in these Articles, so long as any moneys shall be owing by the Company to the any financial institutions, corporations, banks or such other financing entities, or so long as

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subscription or so long as any guarantee given by any of the aforesaid financial institutions or such other financing entities in respect of any financial obligation or commitment of the Company remains outstanding, then in that event any of the said financial institutions or such other financing entities shall, subject to an agreement in that behalf between it and the Company, have a right but not an obligation, to appoint one or more persons as Director(s) on the Board of Director as their nominee on the Board of Company. The aforesaid financial institutions or such other financing entities may at any time and from time to time remove the Nominee Director appointed by it and may in the event of such removal and also in case of the Nominee Director ceasing to hold office for any reason whatsoever including resignation or death, appoint other or others to fill up the vacancy. Such appointment or removal shall be made in writing by the relevant corporation and shall be delivered to the Company and the Company shall have no power to remove the Nominee Director from office. Each such Nominee Director shall be entitled to attend all General Meetings, Board Meetings and meetings of the Committee of which he is a member and he and the financial institutions or such other financing entities appointing him shall also be entitled to receive notice of all such meetings,

MANAGEMENT UNDER GENERAL CONTROL OF DIRECTORS

- 76. (i) The general control, management and supervision of the Company shall vest in the Board and the Board may exercise all such powers and do all such acts and things as the Company is by its Memorandum of Association or otherwise authorised except as are required to be exercised or done by the Company in General Meeting, but subject nevertheless to the provisions of the Act, and of these presents and to any regulations not being inconsistent with these presents from time to time made by the Company in General Meeting, provided that no such regulation shall invalidate any prior acts of the Directors which would have been valid if such regulation had not been made.
 - (ii) Subject to the provisions of the Act, the Director may borrow, raise and secure the payment of such sum or sums in such manner and upon such terms and conditions in all respects as they may think fit and in particular by the issue of bonds, perpetual or redeemable, debenture or debenture-stock or any mortgage or charge or other security on the undertaking of the whole of any part of the property of the Company (both present and future) including its uncalled capital for the time being.
 - Subject to the provisions of the Act, the Company may enter into any contract, arrangement or agreement in which a Director or Directors of the Company are, in any manner, interested.
 - A Director, Managing Director, officer or employee of the Company may be or become a Director, of any company promoted by the Company or in which it may be interested as a vendor, member or otherwise, and no such Director shall be accountable for any benefits received as Director or member of such company except to the extent and under the circumstances as may be provided in the Act.

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subject to the provisions of the Act execute or cause to be executed any mortgage, charge or security over or affecting the whole or any part of the assets of the Company by way of indemnity to secure the Directors or persons so becoming liable as aforesaid from any loss in respect of such liability.

(vi) A Director may resign from him office upon giving notice in writing to the Company.

PROCEEDINGS OF THE BOARD

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- 77. (i) The Board of Directors may meet for the conduct of business, adjourn and otherwise regulate its meetings, as it thinks fit.
 - (ii) A Director may, and the manager or secretary on the requisition of a director shall, at any time, summon a meeting of the Board.
- 78. (i) Save as otherwise expressly provided in the Act, questions arising at any meeting of the Board shall be decided by a majority of votes.
 - (ii) In case of an equality of votes, the Chairperson of the Board shall have a second or casting vote.
- The continuing Directors may act notwithstanding any vacancy in the Board; but, if and so long as their number is reduced below the quorum fixed by the Act for a meeting of the Board, the continuing directors or director may act for the purpose of increasing the number of directors to that fixed for the quorum, or of summoning a general meeting of the company, but for no other purpose.
- 80. (i) The Board may elect a Chairperson of its meetings and determine the period for which he is to hold office.
 - (ii) If no such Chairperson is elected, or if at any meeting the Chairperson is not present within five minutes after the time appointed for holding the meeting, the directors present may choose one of their number to be Chairperson of the meeting.
- 81. (i) The Board may, subject to the provisions of the Act, delegate any of its powers to committees consisting of such member or members of its body as it thinks fit.
 - (ii) Any committee so formed shall, in the exercise of the powers so delegated, conform to any regulations that may be imposed on it by the Board.
- 82. (i) A committee may elect a Chairperson of its meetings.
 - (ii) If no such Chairperson is elected, or if at any meeting the Chairperson is not present within five minutes after the time appointed for holding the meeting,



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- 83. (i) A committee may meet and adjourn as it thinks fit.
 - (ii) Questions arising at any meeting of a committee shall be determined by a majority of votes of the members present, and in case of an equality of votes, the Chairperson shall have a second or casting vote.
- All acts done in any meeting of the Board or of a committee thereof or by any person acting as a Director, shall, notwithstanding that it may be afterwards discovered that there was some defect in the appointment of any one or more of such Directors or of any person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such Director or such person had been duly appointed and was qualified to be a Director.
- Save as otherwise expressly provided in the Act, a resolution in writing, signed by all the members of the Board or of a committee thereof, whether manually or electronically, for the time being entitled to receive notice of a meeting of the Board or committee, shall be valid and effective as if it had been passed at a meeting of the Board or committee, duly convened and held.

MANAGING DIRECTORS

- 86. (i) Subject to the provisions of the Act and of these Articles the Board shall have power to appoint from time to time any of its members as Managing Director or Managing Directors and/or Whole Time Directors of the Company for a fixed term not exceeding five years at a time and upon such terms and conditions, including liability to retire by rotation, as the Board thinks fit, and the Board may by resolution vest in such Managing Director or Managing Directors/Whole Time Director(s), such of the power hereby vested in the Board generally as it thinks fit, and such powers may be made exercisable for such period or periods, and upon such condition and subject to such restriction as it may determine, the remuneration of such Directors may be way of monthly remuneration and/ or fee for each meeting and/or participation in profits, or by any or all of those modes, or of any other mode not expressly prohibited by the Act.
 - (ii) The Directors may whenever they appoint more than one Managing Director, designate one or more of them as "Joint Managing Directors" or "Joint Managing Directors" or "Deputy Managing Directors" as the case may be.
 - (III) Subject to the provisions of the Act, the appointment and payment of remuneration to the above Director shall be subject to approval of the members in the General Meeting and of the Central Government, if required.

CHIEF EXECUTIVE OFFICER, MANAGER, COMPANY SECRETARY OR CHIEF FINANCIAL OFFICER

- 87. Subject to the provisions of the Act,-
 - (i) A Chief Executive Officer, Manager, Company Secretary or Chief Financial Officer may be appointed by the Board for such term, at such

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officer so appointed may be removed by means of a resolution of the Board:

(ii) A Director may be appointed as Chief Executive Officer, Manager, Company Secretary or Chief Financial Officer.

A provision of the Act or these regulations requiring or authorizing a thing to be done by or to a Director and Chief Executive Officer. Manager, Company Secretary or Chief Financial Officer shall not be satisfied by its being done by or to the same person acting both as Director and as, or in place of, Chief Executive officer, Manager, Company secretary or Chief Financial Officer.

THE SEAL

- 88, (i) The Board shall provide for the safe custody of the seal.
 - (ii) The seal of the company shall not be affixed to any Instrument except by the authority of a resolution of the Board or of a committee of the Board authorised by it in that behalf, and except in the presence of at least one Director or of the Manager or secretary or such other person as the Board or Committee may appoint for the purpose; and the Director or Manager or Secretary or other person aforesaid shall sign every instrument to which the seal of the company is so affixed in his /her presence.

DIVIDENDS AND RESERVE

- 89. The company in general meeting may declare dividends, but no dividend shall exceed the amount recommended by the Board, but the Company in a general meeting may declare a lesser dividend.
- 90. Subject to the provisions of the Act, the Board may from time to time pay to the members such interim dividends of such amount on such class of shares as appear to it to be justified by the profits of the company.
- 91. The Board may, before recommending any dividend, set aside out of the (1) profits of the company such sums as It thinks fit as a reserve or reserves which shall, at the discretion of the Board, be applicable for any purpose to which the profits of the company may be properly applied, including provision for meeting contingencies or for equalising dividends; and pending such application, may, at the like discretion, either be employed in the business of the company or be invested in such investments (other than shares of the company) as the Board may, from time to time, thinks fit.
 - (ii) The Board may also carry forward any profits which it may consider necessary not to divide, without setting them aside as a reserve.
- 92. (i) Subject to the rights of persons, if any, entitled to shares with special rights as to dividends, all dividends shall be declared and paid according to the amounts pald or credited as pald on the shares in respect whereof the

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amounts of the shares.

- (ii) No amount paid or credited as paid on a share in advance of calls shall be treated for the purposes of this Article as paid on the share.
- (iii) All dividends shall be apportioned and paid proportionately to the amounts paid or credited as paid on the shares during any portion or portions of the period in respect of which the dividend is paid; but if any share is issued on terms providing that it shall rank for dividend as from a particular date such share shall rank for dividend accordingly.
- 73. The Board may deduct from any dividend payable to any member all sums of money, if any, presently payable by him to the company on account of calls or otherwise in relation to the shares of the company.
- 94. (i) Any dividend, interest or other monies payable in cash in respect of shares may be paid by electronic mode or by cheque or warrant sent through the post directed to the registered address of the holder or, in the case of joint holders, to the registered address of that one of the joint holders who is first named on the register of members, or to such person and to such address as the holder or joint holders may in writing direct.
 - (ii) Every such cheque or warrant shall be made payable to the order of the person to whom it is sent.
 - (iii) Payment in any way whatsoever shall be made at the risk of the person entitled to the money paid or to be paid. The Company will not be responsible for any payment which is lost or delayed. The Company will be deemed to having made a payment and received a good discharge for it if a payment using any of the foregoing permissible means is made.
- 95. Any one of two or more joint holders of a share may give effective receipts for any dividends, bonuses or other monies payable in respect of such share.
- 96. Notice of any dividend that may have been declared shall be given to the persons entitled to share therein in the manner mentioned in the Act.
- 97. The waiver in whole or in part of any dividend on any share by any document shall be effective only if such document is signed by the member (or the person entitled to the share in consequence of death or bankruptcy of the holder) and delivered to the Company and if or to the extent that the same is accepted as such or acted upon by the Board.
- No dividend shall bear interest against the company.

ACCOUNTS

99. (i) The books of accounts and books and papers of the Company, or any of them, shall be open to the Inspection of Directors in accordance with the applicable



T.N. OMANA

Advecate & Notary

Thiruvananthapuram Revenue Dishitt

Kerala State South India

(ii) No member (not being a director) shall have any right of inspecting any account or book or document of the company except as conferred by law or authorised by the Board or by the company in general meeting.

WINDING UP

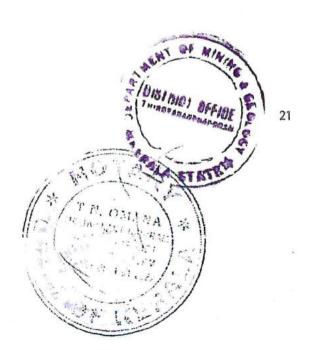
- 100. Subject to the applicable provisions of the Act and rules made thereunder-
 - (i) If the company shall be wound up, the liquidator may, with the sanction of a special resolution of the company and any other sanction required by the Act, divide amongst the members, in specie or kind, the whole or any part of the assets of the company, whether they shall consist of property of the same kind or not.
 - (ii) For the purpose aforesaid, the liquidator may set such value as he deems fair upon any property to be divided as aforesaid and may determine how such division shall be carried out as between the members or different classes of members.
 - (iii) The liquidator may, with the like sanction, vest the whole or any part of such assets in trustees upon such trusts for the benefit of the contributories if he considers necessary, but so that no member shall be compelled to accept any shares or other securities whereon there is any liability.

INDEMNITY

101. Every officer of the company shall be indemnified out of the assets of the company against any liability incurred by him in defending any proceedings, whether civil or criminal, in which judgment is given in his favour or in which he is acquitted or in which relief is granted to him by the court or the Tribunal.

GENERAL POWER

Wherever in the Act, it has been provided that the Company shall have any right, privilege or authority or that the Company could carry out any transaction only if the Company is authorised by its Articles, then in that case this Article authorises and empowers the Company to have such rights, privileges or authorities and to carry such transactions as have been permitted by the Act, without there being any specific Article in that behalf herein provided.



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T.N. OBSANA Advocate & Notary Thiruvanead quirem Eevenue District Kerals State South India

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Photo	Sr. No.		Signature, names, addresses, descriptions and occupation of witnesses				
	1	For and on behalf of M/s Adani Ports and Special Economic Zone Limited (CIN L63090GJ1998PLC034182) having its registered office at Adani House, Nr. Mithakhali Six Roads, Navrangpura, Ahmedabad, 380009 through its authorised person vide Board Resolution passed on 1st May, 2015. Dipti Shah W/o Yogesh Shah residing at 601, Shailraj Tower, Nehru Park, Vastrapur, Ahmedabad-380015 Occupation: Service Sd/-	Common witness for all 7 subscribers				
100	2	Malay Mahadevia [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Dr. Ramesh Mahadevia residing at 12-B, Gyankunj Society, Opp. St. Xavier's College, Navrangpura, Ahmedabad – 380009, Occupation: Service	I, witness to subscribers who have subscribed and signed in my presence.				
	3	Ravi Bhamidipaty [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Shri Srirama Murthy Bhamidipaty residing at 'Amrut' 26. Amrashrish Bunglows, Opp. Chimanbhai Patel Institute, Bh. Shapath 4, Prahaladnagar, Ahmedabad-380058 Occupation: Service	Further, I have verified his/her/their identify details for their identification and satisfied myself of their identification				
	4	Azad Kumar Somani [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Shri Jwala Prasad Somani residing at 84, Star Apartments, Karnavatipagarkpa Bazar, Ahmedabad-380001. Occupation: Service Sd/-	particulars as filled in Hardik Sanghvi S/o. Shri Harshadkumar Sanghvi				
	5	Manoj Kumar Chanduka [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Shri Biswanath Lal Chanduka residing at B-401, Panchamrut Appartments, Opp. Nehru Foundation, Bodakdev, Ahmedabad-380054, Occupation; Service Sd/-	residing at 15, Parshwanathnagar Society, Nr. Police Chowki, Naranpura Char Rasta, Ahmedabad-380013,				
	6	Anish Ashokkumar Shah [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Shri Ashokkumar Amrutlal Shah residing at B-12, Keshav Appartments, Near Memnagar Talavdi, Memnagar, Ahmedabad-380052, Occupation: Service	Occupation: Service Company Secretary FCS No. 7247 Sd/-				
Go a	7	Kamlesh Bhagia [As nominee of Adani Ports and Special Economic Zone Ltd.] S/o Shri Prabhudas Bhagia residing at A-203, Samarthy Residency, Nr. P. R. Patel School, D'cabin, Kaligam, Sabarmati, Ahmedabad-380019. Occupation: Service Sd/-					

Place: Ahmedabad

Dated: 22.07.2015



VERIFIED AND CERTIFIED
THAT THIS IS THE TRUE COPY
OF THE ORIGINAL

Thiraven - diej armii Ravenae District Kerala State South India

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adani

EXTRACT OF MINUTES OF MEETING OF BOARD OF DIRECTORS OF ADANI VIZHINJAM PORT PRIVATE LIMITED HELD ON 30TH APRIL, 2018 AT THE REGISTERED OFFICE OF THE COMPANY

"RESOLVED THAT Mr. Rajesh Kumar Jha, Managing Director of the Company be delegated following powers:

- To represent, negotiate and settle with Central Government authorities, State Government authorities, local bodies and other concerned authorities in respect of customs, central excise, income-tax, service tax, sales tax, licensing and other related matters in connection with the business of the Company;
- To represent and appear on behalf of the Company in any Court, Tribunal or Authority under different laws and rules, to appoint advocates, pleaders or specialists to represent the Company;
- To sub-delegate and/or withdraw any of powers to any officer or officers working in the Company for the aforesaid authorities."

"RESOLVED FURTHER THAT Mr. Rajesh Kumar Jha. Managing Director of the Company be and is hereby authorized to sign deeds, documents, papers, MoUs, undertakings, execute agreements, to make correspondence, to represent on behalf of the Company and to do all such acts, deeds and things as may be necessary, desirable or expedient in connection therewith."

Certified True Copy For Adani Vizhinjam Port Private Limited

Daljeet Singh Sando Company Secretary

> KANTHARAJ K. ROPIGOAI139/2006/A

Adani Vizhinjam Port Pvt Ltd Adani House Nr Mithalhali Six Roads, Navrangpura Ahmedabad 380 009 Gujarat, India Tel +9179 2686 5555 Fax +9179 2555 5500 Info@adanl.com www.adanl.com CIN; U61200GJ2015PTCQB3954

Registered Office: Adani House, Nr Mithakhali Six Roads, Navrangpura, Ahmedabad 380 009, Gujarat, India



ANNEXURE NO. 4

INCOME TAX DEPARTMENT RAJESH KUMAR JHA

CHEST TITE GOVT OF INDI

KRISHNA CHANDRA JHA

03/11/1965 Permarient Account Number AAXPJ8308B

Signature





/KANTHARAJ K. RGP/GOA/130/2000/A SHE SHE

URROUE IDEATIFICATION AUTHORITY OF INDI.

भारम म: कृष्णा चंद्र सा, हाउन न-एव 7 - एवं 8, निशांत विहार, आशियाना ट्रेड नेंटर के पान, जमभेदपूर. आदित्यपुर, तरायकेला-खरसावी, লাংক্ত' - 831013

Address: 8/0: Krishna Chandra Jha, House No-H 7 - H 8, Nishant Vihar, Near Aashiana Trade Centre, Jamshedpur, Adilyapı Seraikela-Kharsawan, Jharkhand - 831013

1947 1880 300 1947

help@u[dai.gov.in

TOTAL







रावेश कुमार झा Rajesh Kumar Jha जन्म विवि। DOB: 03/11/1965 TER / MALE



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मेरा आधार, मेरी पहचान







GOVERNMENT OF KERALA

Abstract

Vizhinjam International Deep water Multipurpose Seaport Project - Bid submitted by M/s Adani Ports & Special Economic Zone Ltd - Approved - Orders issued.

Fisheries & Ports (E) Department

G.O(MS) No.35/2015/F&PD.

Dated, Thiruvananthapuram, 13-07-2015.

Read:-

- 1 G.O(MS) 69/2013/F&PD dated 29-11-2013
- 2 G,O(MS) 21/2014/F&PD dated 01-03-2014
- 3 G.O(MS) 26/2014/F&PD dated 31-03-2014
- 4 G.O(MS) 28/2014/F&PD dated 22-04-2014
- 5 Letters No. VISL/PPP/2014/420 dated 02-05-2015, VISL/PPP/2014/471 dated 14-05-2015, VISL/PPP/2014/497 dated 26-05-2015, VISL/2014-15/GOM/511 dated 28-05-2015, VISL/2014-15/GOM/519 dated 29-05-2015 of Managing Director, Vizhinjam International Seaport Ltd.
- G.O(MS)No.31/2015/F&PD dated 12-06-2015

ORDER

As per Government Order read as 1st paper above Government have restructured Vizhinjam International Deep water Multipurpose Seaport Project as suggested by the Planning Board for availing Viability Gap Funding from Government of India. Based on the above order, Vizhinjam International Seaport Ltd issued Request for Qualification (RFQ).

Subsequently as per Government Order read as 2nd paper above, the Engineering Procurement Construction work for the construction of Breakwater and fishing harbour was included as Funded Works in the Public Private Partnership tender for the Vizhinjam International Deep water Multipurpose Scaport Project for which State would provide the funding.

As per Government Order read as 3rd paper above, all the 5 applicants who submitted the Request for Qualification were shortlisted, strictly based on the financial and technical qualification set in the Request for Qualification document. The Request For Proposal document in respect of Vizhinjam International Deep water Multipurpose Seaport Project was approved by Government vide Government Order read as 4th paper above and authorized Vizhinjam International Seaport Ltd

KANTHARAJ ROP/GOA/130/2900 to issue the same to shortlisted applicants on behalf of Government of Kerala. Three bidders purchased the bid documents.

The Bid due date for the project was scheduled at 05:00 PM, 24th April 2015.

Up to the closing time of bid submission, only one qualified bidder M/s Adam Ports & Special Economic Zone Limited submitted its bid. The Bid Opening Committee opened the bid at the scheduled bid opening time of 5:30 PM. The bids were evaluated by the Project Consultants. The bid documents / submissions were found to be in conformity with the Request For Proposal requirement and were hence found responsive. The authenticity of the bid bond submitted by the bidder was also confirmed with the bank which issued the bond.

The grant sought by the bidder M/s Adani Ports & Special Economic Zone Limited is INR 1,635 crore. This works out to around 39.985% of the Total Project Cost as mentioned in the Draft Concession Agreement (INR 4,089 crore) and hence is within the range permitted under the Viability Gap Funding (VGF) guidelines. The amount is within the range of 40.7% (Rs.1664 Cr) estimated in the revised Feasibility Report also.

Managing Director, Vizhinjam International Seaport Ltd, as per letter read as 5th paper above reported that the Minutes of bid opening meeting, bid evaluation report submitted by Transaction Advisors M/s Ernst & Young and Legal Consultant M/s HSA, Letter from Bank confirming the authenticity of the bid bond were submitted before the 23rd Meeting of the Empowered Committee.

The Empowered Committee noted that , in the current model, the cash outflow with respect to this particular concession from the State Government is limited to Rs. 2280.20 Cr (Rupees Two thousand two hundred and Eighty Crore Twenty Lakh only). This comprises of Rs. 1463 Crore towards cost of funded works and Rs. 817.2 Crore towards Government of Kerala contribution of VGF. The cost of Funded Work will be adjusted for the Whole sale Price Index variation between the Bid Due Date and Appointed Date as per the provisions of DCA. The Committee noted that the current model offers considerable saving to State Government when compared to the earlier model on current price level.

Government vide orders read as 6th paper, ratified the amendment made by the Empowered Committee in the Draft Concession Agreement regarding the revision of project cost to Rs.4089 crore and cost of funded works to Rs.1463 crore. Empowered Committee also noted that no restrictive changes suiting any particular applicant or bidder were made during the selection process in respect of Project

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Structure, DCA, qualification criteria and specification. The committee further noted that the certainty of cash outflow, potential savings and other merits of the current model. The Committee also felt that the chances of getting a better offer in a future bid is negligible considering the traffic risk involved, high investment needed and depressed market Internationally and Nationally. Therefore it is a situation where in the project may not materialise in future, if it does not materialise now ("Now or Never") This is particularly important in the light of the fact that this is the fourth attempt to bid the project and in the context of the development of the proposed nearby competing port locations.

The Committee after detailed discussions and based on the above, decided to recommend to the Board of Directors of VISL and Government of Kerala to accept the bid submitted by M/s Adani Ports and Special Economic Zone Ltd and to issue the Letter of Award (LOA) to M/s Adani Ports and Special Economic Zone Ltd.

Managing Director, Vizhinjam International Seaport Ltd in his letter dated 14-05-2015 has further reported that the recommendations of the Empowered Committee were placed before the Board of Directors of VISL at its 37th Meeting held on 13th May 2015. The decisions of Empowered Committee were discussed by Board of Directors and approved the above decisions and recommended Government of Kerala to approve the following:

- i) Approve and accept the bid submitted by M/s Adani Ports and Special Economic Zone Ltd for a grant of Rs.1635 crore (Rupees one thousand six hundred and thirty five crore)
- ii) Issue Letter of Award to M/s Adani Ports and Special Economic Zone Ltd.

Managing Director, Vizhinjam International Scaport Ltd has therefore requested Government to approve and accept the bid submitted by M/s Adani Ports and Special Economic Zone Ltd and to issue Letter of Award to the firm.

Government have examined the matter in detail. Vizhinjam International Deep water Multipurpose Seaport Project is a flagship project of the State. It is found that Development of this port is of great national importance considering the fact that the major share of Indian transshipment is currently handled by foreign ports of Colombo, Singapore and Dubai. The Project would shift these operations to India and thereby generate considerable saving in foreign exchange to the national economy. The port has the potential to become the transshipment hub serving the entire Indian Coast. The development of port and its allied facilities would

significantly contribute to the large scale growth of Industry and Economy in Kerala, besides generating employment opportunities Retendering of the project will lead to further time delay and cost escalation resulting in loss to the State exchequer. Besides chances of getting a better offer in a future bid is negligible considering the traffic risk involved, high investment needed and depressed market Internationally and Nationally.

In the circumstance, Government are pleased to approve the bid submitted by M/s Adani Ports and Special Economic Zone Ltd for a grant of Rs.1635 crore (817.8 crores from Government of India and 817.2 crores from Government of Kerala) for the development of Vizhinjam International Deep water Multipurpose Seaport Project. Accordingly, Letter of Award will be issued to M/s Adani Ports and Special Economic Zone Ltd

(By Order of the Governor)

JAMES VARGHESE Principal Secretary to Government

To

- The Managing Director, Vizhinjam International Scaport Ltd, Thiruvananthapuram.
- 2) The Principal Accountant General (Audit), Kerala
- 3) The Accountant General (A&E), Kerala, Thiruvananthapuram.
- 4) The General Administration (SC) Department (Vide item No. 6787 dated 20-05-2013 and item No. 6885 dated 10-06-2015)
- 5) The Finance Department
- 6) The Law Department
- 7) SF/OC

Forwarded/By order

Section Officer







Ref: AVPPL/GoK/2018-19/441

12th June, 2018

The District Geologist District Office, Department of Mining and Geology Thiruvananthapuram

Sir,

Sub: Application for grant of Quarrying Lease- reg;

Submitting herewith duly filled Form – B in triplicate for the grant of Granite Building Stone quarrying lease in Re-Sy no.555/2, Block No. 37 over an extend of 04.09.65 Ha at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District.

Kindly do the needful to issue the Letter of Intent to proceed further to prepare the mining plan and apply for environment clearance from DEIAA,

Thanking You, Yours Faithfully

Rajesh Jha Chief Executive Officer TRIVANDRUM III

KANTHARAJ K. ROPIGOAI130/2000/A

Enclosures attached,

Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvananthapuram Kerala-695014

www.adani.com CIN -U61200GJ2015PTC083954

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009 G



APPLICATIONFORGRANT/RENEWALOFQUARRYINGLEASE

(For all types of lands)

(To be submitted in triplicate)

From

Mr Rajesh Jha

Chief Executive Officer- Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvananthapuram- 695014.

To

The Director of Mining and Geology

Thiruvananthapuram

Through

The Geologist, District Office,

Kollam Sir,

I/we /am/are submitting this application for the grant/renewal of a

Quarrying lease under the Kerala Minor Mineral Concession Rules, 2015.

2. A sumof Rs10,000or 20,000 being the application fee in respect of this application payable under sub-rule (1) of Rule 28 / sub-rule (2) of Rule 28 of the said rules has been deposited (Strike off which is not applicable).

3.	The required particulars are given below:		
(i)	Name and complete address of the	Rajesh Jha	
app	licant		





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	ridual/priva			/Public					
(iii)	A STATE OF THE PARTY OF THE PAR	or associatio e applicant							
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(iv)	Profession or nature of business of	Port Development
the a	applicant.	<i>m m</i>
(v)	Whether the application is for a	Fresh Lease
fresh	lease or for renewal of a lease	
previ	ously granted.	
(vi)	Minor Mineral or minerals which	Granite Building Stone
the a	pplicant intends to mine.	
(vii)	Period for which the quarrying lease	10 years
	required.	
(viii)	Approximate quantity of mineral	50,00,00MT per year
Expe	cted to be raised per year.	
(ixi)	Manner in which the minor mineral	
93 - 12 per mun	d is to be utilized.	21 024 050
(a)	for manufacture	Yes (Own Metal crusher unit) and
		the products will utilize for
		Breakwater Construction of
(b)	for sale	Vizhinjam Port Project. No. Purely for Vizhinjam Port
(b)	ioi saie	Breakwater Construction Purpose.
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		Government of Kerala work
(c)	any other purpose	Government of Kerala work.
(c)	any other purpose	Nil
(c)	In case of manufacture, the	Nil Purely for Vizhinjam Port
(c)	In case of manufacture, the industries in connection with which	Nil
(c) x)	In case of manufacture, the	Nil Purely for Vizhinjam Port Breakwater Construction Purpose.
x)	In case of manufacture, the industries in connection with which it is required should be specified.	Nil Purely for Vizhinjam Port Breakwater Construction Purpose. Government of Kerala work.
x)	In case of manufacture, the industries in connection with which it is required should be specified. Details of the area in respect of	Nil Purely for Vizhinjam Port Breakwater Construction Purpose. Government of Kerala work. District :Thiruvananthapuram
x)	In case of manufacture, the industries in connection with which it is required should be specified. Details of the area in respect of quarrying lease is required.	Nil Purely for Vizhinjam Port Breakwater Construction Purpose. Government of Kerala work. District :Thiruvananthapuram Taluk: Chirayinkeezhu



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) i	to each copy of the application	n	Re SURVEY	SUB DIVISION NO	AREA IN HECTARES	
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			To	tal	04.0965	
	K.		Total area survey map enclosed.	certified by	y Tahasildar	
(xi)	Nature of tenure of the lan	d over	Government	Land, NO 10269/201		
	which quarrying lease is appl		30.04.2018			
	(Documentary proof to sho	w the	Collector Th		The state of the s	
	land owners right if any, ov	er the	NOC enclosed	l os attach	ment	
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	and partly with the registered	holder				
. 1	of the land					
		1. Co	py of TPR			
		2. Co	py of BTR		¥1	
			B Sketch (Field No.555/2, 8) of the			
	v	a certified by Tahasildar, irayinkeezhu				
			Demarcation Certificate No. 634/2018			
		4. Demarcation Certificate No. 634/2018 dated 05/05/2018 issued by the Village Officer, Nagroor				
	,	63	ikshyaPathrar 3/2018 dat lage Officer, N	ed 05/0	cate No. 5/2018 of	



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(xii) No. and d	ate of the in	ncome-tax	Affidavit on I	income Tax e	enclosed.
(xiii) Financial re	sources of the		Own Fund		
Applicant,	of receipted trea	asurv	Chalan No.		M
(xiv) Particulars of receipted treasury chalan attached for the			dated Treasury, Ko	//2018 o	
Amount referred to	at 2 above.				
(xv) Any other pa	rticulars which	h the	NIL		
Applicant wishes t	o furnish.				

I/We do hereby declare that the particulars furnished above are correct and am/are ready to furnish any other details including security deposit etc, as may be required by you.

Yours Faithfully

(Signature of the Applicant

TRIVANDRUM

Place:
Date:
Received at (place)......
On (date).....
at (hour)....
Initials of Receiving Officer

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DININICI OFFICE

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GOVERNMENT OF KERALA

CHALAN

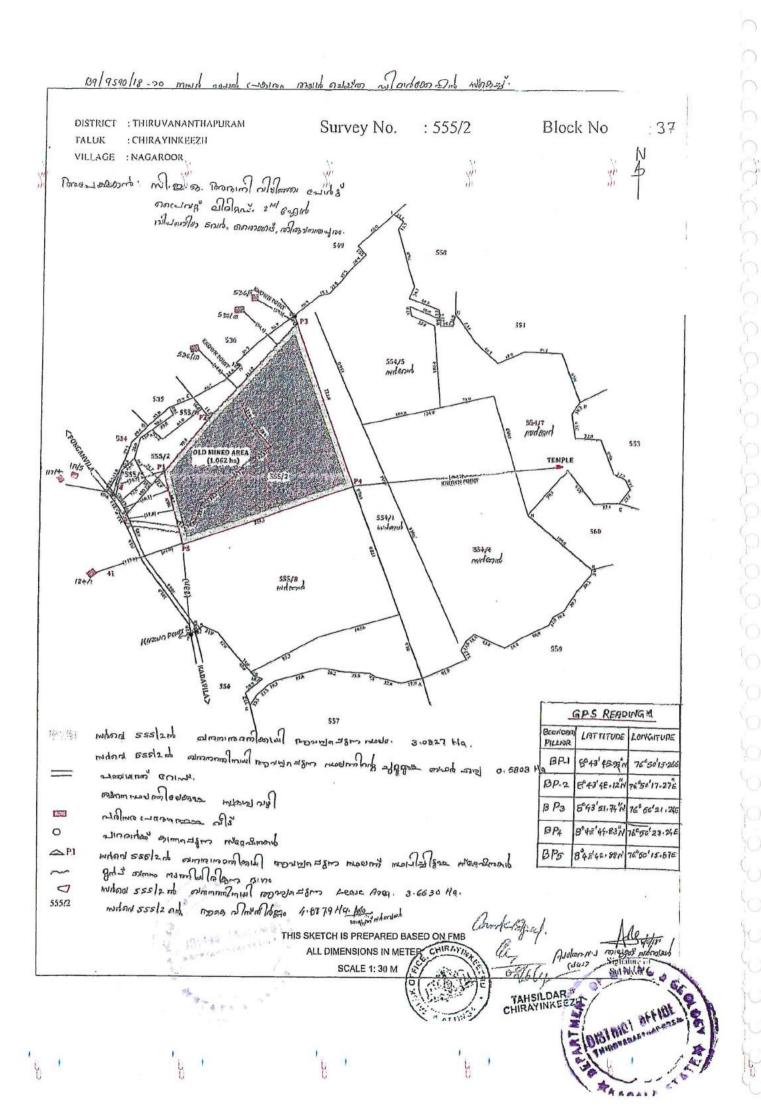
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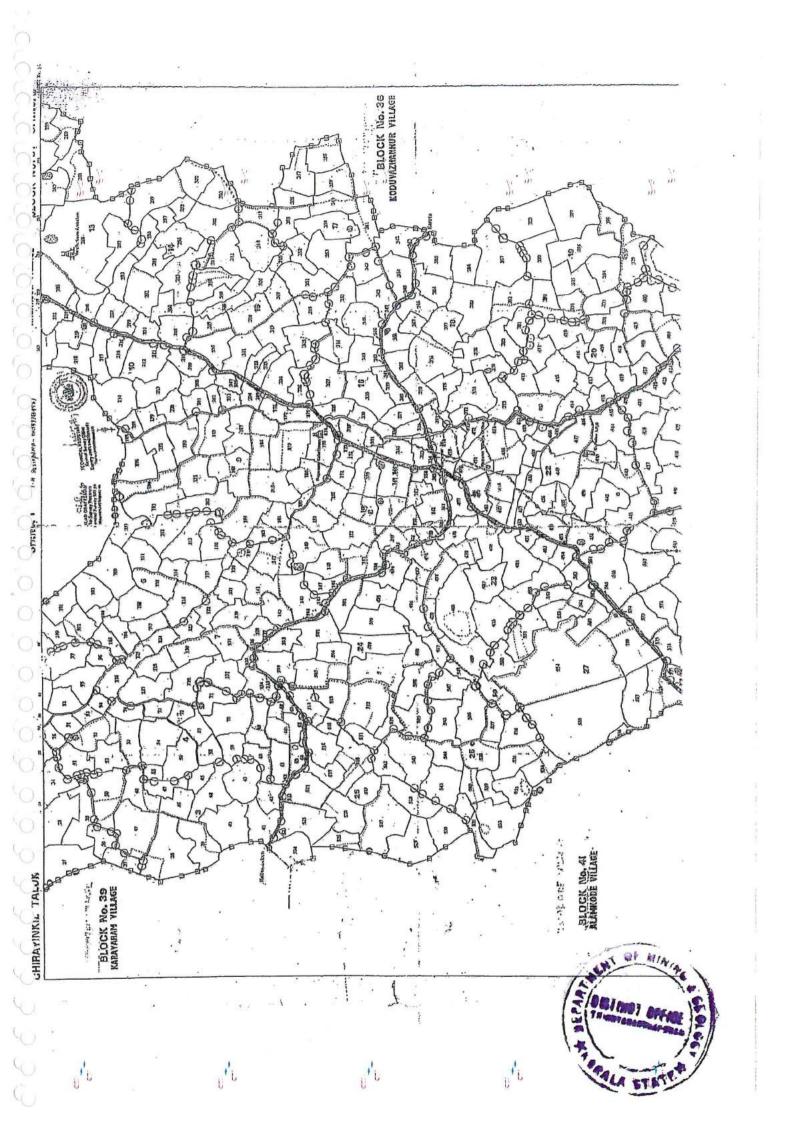
FORM T. R. 12

[See Rules 102 (c) and 124 of Kerala Treasury Code]

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No. 9363/M3/2018

Directorate of Mining & Geology Kesavadasapuram, Pattam Palace .P.O, Thiruvananthapuram - 4 Tel Fax: 0471 2447429 e-mail: director.dir.dmg@kerala.gov.in

www.dmg.kerala.gov.in

Date: 04-09-2018

From

The Director of Mining & Geology

To

M/s. Adani Vizhinjam Port Private Limited,

2nd Floor, Vipanchika Tower,

Thycaud, Thiruvananthapuram District – 695 014

(Registered Office at: Adani House, Near Mithakhali Six Roads,
Navrangpura, Ahmedabad, Gujrat State – 380 009)

(Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha)

Sir,

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Sub:- Mines and Minerals - Minor Mineral - Granite (Building Stone) - Application for quarrying lease under KMMC Rules 2015 - Letter of Intent - forwarding of-reg.

Ref:- 1. Your application for quarrying lease dated 13,06,2018.

 NOC No. B7-40269/2017 dt. 30.04,2018 issued by District Collector, Thiruvananthapuram.

3. Letter No. 1716/DOT/ML/2018 dtd. 18/08/2018 of the Geologist, District Office, Thiruvananthapuram.

4. Kerala Minor Mineral Concession Rules 2015.

Please refer to the references cited above. As per the reference 1st cited, you have applied for a quarrying lease for a period of 10 years from this office for the extraction of granite building stone from an area of 3.6630 Hectares in Re-Survey Block No. 37, Re - Survey No. 555/2 of Nagaroor Village of Chiryinkeezhu Taluk of Thiruvananthapuram District [as shown in the Survey Map No. B9/9590/18 issued by Tahsildar, Chirayinkeezhu enclosed]. Vide reference cited 2 above, District Geologist, Thiruvananthapuram forwarded your application to this office with recommendations to issue Letter of Intent. On scrutiny of application and other documents received from the Geologist, it is seen that a quarrying lease can be granted to the precise area shown in the map under the provisions contained in the KMMC Rules 2015. However, for granting quarrying lease you have to produce following documents through District Geologist to the satisfaction of this office in accordance with the relevant statutes.

KANTHARAJ K. RQP/GOA/130/2000/A



DOCUMENTS TO BE PRODUCED

1. Mining plan approved by the District Geologist as stipulated in the KMMC Rules 2015, for the precise area as per the survey map.

2. Environmental Clearance as stipulated in EIA Notification 2006 for the precise area.

3. Consent to operate quarry from the Kerala State Pollution Control Board for the precise area.

4. Explosive licence from the authorities concerned for appropriate quantity of explosives required for extraction of mineral as mentioned in the approved mining plan.

5. D & O Licence from the Local Self Government authorities concerned for operating quarry in the precise area.

In addition, you shall make arrangements for the survey and demarcation by errection of boundary pillars of the said area by the revenue authority not below the rank of a Tahsildar or Asst. Director of the Department of Survey and Land Records and shall produce a certificate in this regard issued by authorities concerned.

It is further informed that the duration of lease as well as annual production of mineral will be decided based on the approved mining plan and documents submitted.

It is also informed that as per the provisions contained in the KMMC Rules 2015 this letter of intent shall be sufficient for the purpose of issuing necessary licenses/consents/Clearances/NOCs etc. by the other statutory authorities concerned. In the event of granting of quarrying lease you may also need to produce new Possession & Enjoyment Certificate at the time of grant of quarrying lease.

It is further informed that this letter of intent is valid for a period of one year from the date of issue. In case you have any valid reason for seeking extension of period of this LOI, the same may be obtained before the expiry of this LOI. Your application for Quarrying Lease shall deemed to have been rejected, if you fail to produce above mentioned documents before the expiry of LOI.

Yours faithfully,

DDITIONAL DIRECTOR OF MINING &GEOLOG

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Encl: Photocopy of Survey Map showing precise area

Copy to:-

1. The District Collector & Chairman, DEIAA, Thiruvananthapuram.

2. The Deputy Chief Controller of Explosives, CSEZ, CGO Complex, Kakkanad, Ernakulam

3. Kerala State Pollution Control Board, District Office, Thiruvananthapuram District,



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4. The Secretary, Nagaroor Grama Panchayath, Thiruvananthapuram District

For kind attention of statutory authorities

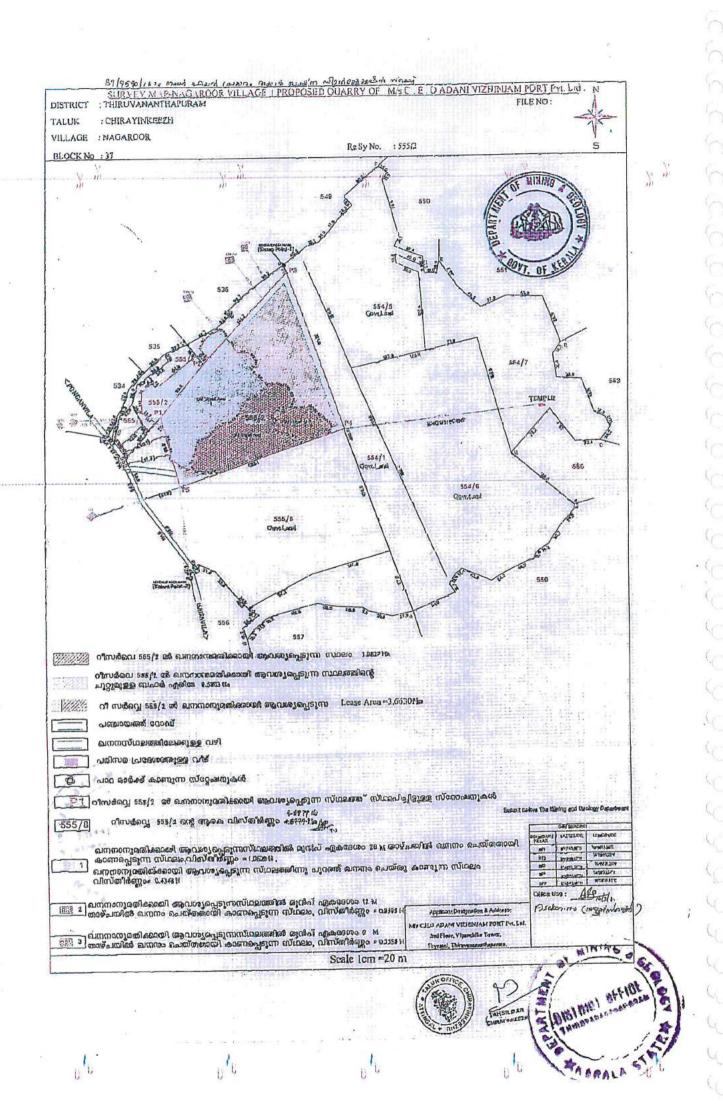
[The statutory authorities while issuing licence/consents/NOCs based on this letter of intent may refer this letter of intent in the respective licence/consent/ clearance /NOC while issuing the same. The statutory authorities may refer the survey map and consider the extent of applied area, quantity of mineral proposed to extract and the period of lease applied for while issuing such documents. The authorities may note that the operation as per their licence shall start only after execution and registration of quarrying lease granted by this office. All the Survey Nos./Re-Survey numbers with Block No. included in the survey map submitted in this connection shall be included in all the aforesaid documents.]

- 5. The Tahsildar, Taluk Office, Chirayinkeezhu
- 6. The Geologist, District Office, Thiruvananthapuram (The Geologist shall forward all the above said documents to this office for grant of quarrying lease with recommendations).









നം. ബി7-40269/2017

കളക്ടറേറ്റ്. സിവിൽ സ്റ്റേഷൻ. കടപ്പനക്കുന്ന് തിരുവനന്തപ്പരം തീയതി : 30-04-2018.

നിരാക്ഷേപ സാക്ഷ്യപത്രം.

തിരുവനന്തപുരം ജില്ലയിൽ ചിറയിൻകീഴ് താലൂക്കിൽ നഗത്രർ വില്ലേജിൽ ബ്ലോക് നമ്പർ 37-ൽ റീസർവ്വെ 555/2-ൽ ഉൾപ്പെട്ട സർക്കാർ പാറ ലീസിന് എടുത്ത് ഖനനം ചെയ്യുന്നതിന് NOC അനുവദിയ്ക്കുന്നതിലേയ്ക്കായി ശ്രീ. വിഷ്ണ ജി. നായർ, ശ്രീ. ദേവദാസ്, ശ്രീ. രഞ്ജിത് ഭാസി, സതേൺ മൈൻസ് & മിനറൽസ്, M/s ബികോൺസ് ലിമിറ്റഡ് എന്നിവർ അപേക്ഷ സമർപ്പിച്ചിട്ടുള്ളതാണ്. എന്നാൽ വിഴിഞ്ഞം ഇറമുഖ നിർമ്മാണത്തിന് ആവശ്യമായ പാറയും പാറ ഉല്പന്നങ്ങളം ലഭ്യമല്ലാത്ത സാഹചര്യത്തിൽ ടി പാറ ഖനനം ചെയ്യന്നതിന് NOC യ്കായി ശ്രീ. സൃഷിൻ നായർ, ഹെഡ് കോർപ്പറേറ്റ് അഫയേഴ്ല്, അദാനി AVPPL/Gok/2018-19/398 നമ്പർ കത്ത് പ്രകാരം 16-03-2018-ൽ സമർപ്പിച്ചിട്ടുള്ളതാണ്. വിഴിഞ്ഞം തുറമുഖ നിർമ്മാണത്തിനായി പാറ ഖനനം ചെയ്യുന്നതിന് NOC അനുവദിയ്യുന്നതിനായി 20-04-2018-ലെ VISL/2015-16/EE & E1-4/83-ാം നമ്പർ കത്ത് മുഖേന വിഴിഞ്ഞം ഇന്റർനാഷണൽ സീ പോർട്ട് ലിമിറ്റഡ് മാനേജിംഗ് ഡയറക്ടർ & ചീഫ് അദാനി വിഴിഞ്ഞം പോർട്സ് എക്സികൃട്ടീവ് ഓഫീസർ ശുപാർശ ചെയ്തിട്ടുള്ളതാണ്. പ്രൈവറ്റ് ലിമിറ്റഡിന് പാറ ലഭൃമാക്കുന്നതിന് ആവശൃമായ നടപടികൾ സ്വീകരിക്കുവാൻ 23-04-2018-ലെ 91/E1/2017/F&PD നമ്പർ കത്ത് പ്രകാരം ഫിഷറീസ് & പോർട്ട്സ് (ഇ) വകപ്പിന്റെ നിർദ്ദേശവം ലഭിച്ചിട്ടള്ളതാണ് . ഈ സാഹചര്യത്തിൽ നഗത്രർ വില്ലേജിലെ ബ്ലോക്ക് 37-ൽ റീസർവ്വെ 555/2 -ൽ ഉൾപ്പെട്ട 4.9065 ഹെക്ടർ പ്രദേശത്തെ സർക്കാർ പാറ ച്ചവടെ ചേർത്തിരിക്കുന്ന നിബന്ധനകൾക്ക് വിധേയമായി നിയമാനുസൃതമായി ഖനനം ചെയ്യുന്നതിന് ചീഫ് എക്ലികൂട്ടീവ് ഓഫീസർ, അദാനി വിഴിഞ്ഞം പോർട്സ് പ്രൈവറ്റ് ലിമിറ്റഡിന് നിരാക്ഷേപ സാക്ഷ്യപത്രം അനുവദിക്കുന്നു

നിബന്ധനകൾ

1) ഈ NOC പ്രകാരം ഖനനം ചെയ്യുന്ന പാറ വിഴിഞ്ഞം ഇറമുഖ നിർമ്മാണത്തിന് മാത്രം -വിനിയോഗിക്കേണ്ടതാണ്. ഖനനം ചെയ്യുന്ന പാറ വിപണനം ചെയ്യാൻ പാടുള്ളത**്ട്ട്, 😝 🐠**

Kantharaj **K** ROPIGOAI1301200014

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- NOC തന്നാപിച്ച തീയത് മുത്ത് 3 രാഗത്തിനുള്ളിൽ പാടിസ്ഥിതിക അനാവാദ് നേടിയിരിക്കേണ്ടതാണ്.
- 3) സർക്കാരിന്റെയോ മറ്റ് പൊതുവായ ആവശ്യങ്ങൾക്കോ സർക്കാർ/ജില്ലാ ഭര്മണ് കൂടം നിശ്ചയിക്കുന്ന നിരക്കിൽ പാറയും പാറ ഉത് പ്ലന്നങ്ങളം നല്ലേണ്ടതാണ്.
- 4) NOC അനുവദിച്ച തീയതി മുതൽ രണ്ട് വർഷത്തിനുള്ളിൽ ഖനനം ചെയ്യുന്ന പ്രവർത്തനങ്ങൾ ആരംഭിച്ചിട്ടില്ലെങ്കിൽ ഈ NOC അസാധ്യവാകുന്നതാണ്.
- 5) ഖനന പ്രവർത്തനങ്ങൾ അദാനി ഗ്രൂപ്പിന്റെ നേരിട്ടുള്ള നിയന്ത്രണത്തിൽ ആയിരിക്കേണ്ടഇം മറ്റള്ളവർ മുഖേന നടത്തുവാൻ പാടില്ലാത്തത്മമാണ്.
- 6) പാരിസ്ഥിതിക അന്ദമതിയും നിയമപരമായ ആവശ്യമുള്ള മറ്റ് എല്ലാ അന്ദമതിയും നേടിയ ശേഷം മാത്രമേ ഖനനം ആരംഭിക്കാൻ പാടുള്ള
- 7) 2015-ലെ കെ.എം.എം.സി ചട്ടങ്ങളിലെയും 1957-ലെ കെ. എൽ.സി ആക്ടിലെയും വൃവസ്ഥകൾ കർശനമായി പാലിക്കേണ്ടതാണ്.
- പാറ ഖനനം നടത്തുന്ന പ്രവർത്തിക്കായി നിയോഗിക്കുന്ന ജോലിക്കാരുടെ വിവരങ്ങൾ അടങ്ങിയ ഒരു രജിസ്റ്റർ സൂക്ഷിക്കേണ്ടതാണ്.
- എക്സ് പ്ലോസീവ് ആക്ട് പ്രകാരമുള്ള നിബന്ധനകൾ കർശനമായി പാലിക്കേണ്ട്തം മറ്റ് അടിസ്ഥാന സൗകര്യങ്ങൾ ടി സ്ഥലത്ത് ലഭ്യമാക്കേണ്ടത്രമാണ്.
- 10) ഖനനം നിമിത്തം ഉണ്ടാകുന്ന കഴികൾ മണ്ണിട്ട് മൂടി അപകടരഹിതമാക്കേണ്ടതും കമ്പി വേലി കെട്ടി സംരക്ഷിക്കേണ്ടതുമാണ്.
- 11) നിരാക്ഷേപ സാക്ഷ്യ പത്രത്തിന്റെ കാലാവധി മൈനിംഗ് & ജിയോളജി വകുപ്പ് ലീസ് നൽകുന്ന തീയതി മുതൽ 10 വർഷത്തേയ്ക്കോ, വിഴിഞ്ഞം പദ്ധതിയുടെ നിർമ്മാണ പ്രവർത്തനങ്ങൾ തീരുന്നത് വരെയോ ഏതാണോ ആദ്യം അതുവരെയായിരിക്കുന്നതാണ്.
- 12) തഹസിൽദാർ അംഗീകരിച്ച് നൽകുന്ന സ്കെച്ച് പ്രകാരമുള്ള ഭൂമിയിൽ മാത്രമേ ഖനനം നടത്താൻ പാടുള്ളൂ



ന്റ് പ്രത്യേശ്യായിൽ വരുന്നതല്ല് ചാരു കുടുത്ത് ഈ നിരാക്ഷേപ് സാക്ഷ് പ്രത്യാള കുടുത്തിൽ വരുന്നതല്ല് ചാരു കുടുത്തിൽ ഈ നിരാക്ഷേപ് സാക്ഷ് പ്രത്യം പ്രത്യാള പ്രത്യവര് പ്രത്യാള പ്രത്യാള പ്രത്യാള പ്രത്യാള പ്രത്യാള പ്രത്യാള പ്രത്

മേൽ വിവരിച്ച നിബന്ധനകൾ ലംഘിക്കപ്പെടുന്ന പക്ഷം ഈ നിരാക്ഷേപ നാരക്യപത്രം റദ്ദാക്കി ഇടർനടപടികൾ സ്വീകരിക്കുന്നതായിരിക്കും

> (ഒപ്പ്) ജില്ലാ കളകൂർ

സികർത്താവ്

്ച്ചീഫ് എക്സിക്യൂട്ടീവ് ഓഫീസർ, അദാനി പോർട്സ് പ്രൈവറ്റ് ലിമിറ്റഡ്.

പകർപ്പ്,

- ഗവൺമെന്റ് പ്രിൻസിപ്പൽ സെക്രട്ടറിം മത്സ്യബന്ധനവും ഇറമുഖവും (ഇ) വകപ്പ് (ആമുഖ കത്ത് സഹിതം)
- 2. ഡയറക്ടർ, മൈനിംഗ് & ജിയോളജി, തിരുവനന്തപുരം.
- 3. തഹസിൽദാർ, ക്കെട്ടോട് ചിറകിൾ കിർ
- 4. വില്ലേജ് ഓഫീസർ, കുപ്പുഴന്നഗരുർ
- 5. ജില്ലാ ജിയോളജിസ്റ്റ്, തിരുവനന്തപുരം.

6, MD & CEO, VISL.

അംഗീകാരത്തോടെ

ഡെപ്യൂട്ടി കളക്ടർ (എൽ.ആർ)

R-7



കേരളം करल KERALA

AFFIDAVIT

26AA 834156

I, Rajesh Jha, aged years, son of Krishna Chandra Jha, 52 Chief Executive Officer, M/s Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvananthapuram Kerala 695014 and residing at Apartment No: 12G and 13G, Heera Golden Hills, Kanakanagar, Near Museum, Vellayambalam, Thiruvananthapuram District- 695005 do hereby solemnly affirm and

NO I state before the Director of Mining and Geology as follows:-

RQP/GOA/130/2000/A

the Chief Executive Officer of M/s Adami Vizhinjam Port

rivete Limited. I am duly empowered to sign and submit the

accuments in connection with the Company. The copy of Boards

Resolution empowering me is enclosed.

Advocate in Revenue District

Vendor, Vanchiyoor Thirwananthapuram



കേരളം करल KERALA 26AA 834157 2. I hereby swear that, fencing will be provided surrounding for preventing accidents by falling of human being, animals and materials into the quarry in an area 4.0965 Ha comprised in Resurvey No. 555/2 Block

ChirayinkeezhuTaluk, Thiruvananthapuram District

3. I also swear that all effective preventive measures will be taken by me for the safety of labours as well as general public.

no.

37,

Nagaroor

Panna R





കേരളം केरल KERALA AFFIDAVIT

26AA 834154

i, Rajesh Jha, aged 52 years, son of Krishna Chandra Jha, Chief Executive Officer, M/s Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvananthapuram Kerala 695014 and residing at Apartment No: 12G and 13G, Heera Golden Hills, Kanakanagar, Near Museum, Vellayambalam, Thiruvananthapuram District- 695005 do hereby solemnly affirm and state before the Director of Mining and Geology as follows:-

1. I am the Chief Executive Officer of M/s Adami Vizhinjam Port Private Limited. I am duly empowered to sign and submit the documents in connection with the Company. The copy of Board

esolution empowering me is enclosed.

Advocate & Notary ananthopurum Revenue Dismo Kerala State Stanfill Blis

Vendor, Fandh Thirmpananthapuram

DISTRICT OF



Care will take proper care in the management of environment AE 274155 and waste disposal required by the concerned authorities while carrying our quarrying operations in an area 4.0965 Ha comprised in Resurvey No. 555/2 Block no. 37, Nagaroor Chirayinkeezhu Taluk, Thiruvananthapuram District.

3. I undertake not to cause any environmental problems due to the mining activity and I will not use the explosives in a hazardous way for giving chance of any complaint from neighbours. I further undertake to reclaim the mining pits by using over burden and top soil available in the land

Mate: 12 06 2018

Signature and address

ASPARA

| Witness



M KERALA

26AA 834158

AFFIDAVIT

Rajesh Jha, aged 52 years, son of Krishna Chandra Jha, Chief Executive Officer, M/s Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvananthapuram Kerala 695014 and residing at Apartment No: 12G and 13G, Heera | |Golden Hills, Kanakanagar, Near Museum, Vellayambalam, Thiruvananthapuram District- 695005 do hereby solemnly affirm and state before the Director of Mining and Geology as follows:-

1. I am the Chief Executive Officer of M/s Adani Vizhinjam Port Private Limited. I am duly empowered to sign and submit the documents in connection with the Company. The copy of Board

Resolution empowering me is enclosed.

Vendor, Vanchiytor Thirufananthapuram pelan Siehan post per the

RQP/GOA/130/2000/A



കേരളം केरल KERALA

26AA 834159

- 2 The firm has filed up to date Income Tax Return
- 34 Paid the Income Tax assessed thereon.
- 4 Paid the Income tax on the basis of Self-assessment as provided in the Income Tax Act, 1961; and

5.6 What is stated above is true to the best of my knowledge and belief.







CERTIFICATE OF RECOGNITION AS QUALIFIED PERSON TO PREPARE MINING PLANS

(Under Rule 22C of Mineral Concession Rules, 1960)

)	Shri	kantharaj k		ng-11-2-21-21-21-21-21-21-21-21-21-21-21-2			esident
of		SURLA - GOA					, sopi
of	KI	empanna k		, har	oing giv	en satis	factory
evidence	of his qua	lifications and	l experience	is hereby	grant	ed reco	gnition
	•	f the Mine					
)		Hining Plans.			*		
)	100 200						
	His reg	istration num	ber is RQP	0S/08/130/20	00/A	_	
)	This re	cognition is	valid for	a period	l of	two	years w
ending	5.1	0.2002	Parlma.		1) :	Mina
U promise	Action and the second second second	1 1/4		CLR	J~ 1 W	14-7	

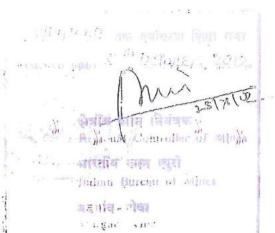
Place : Margao

Date: 6 .10, 2000.

Regional Controller of Mines
Indian Bureau of Mines
Goa Regional Office

KANTHARAJ K.





Recorded upon 5th October 2022

Registed Controller of Mana.





	TABLE SHO	TABLE SHOWING THE DETAILS OF THE	AROOR QUARRY	JARRY OF M/s. ADANI VIZHINJAM I	NAGAROOR QUARRY OF M/s. ADANI VIZHINJAM PORT PVT. LTD.	PVT. LTD.		
			ADOIN	1000			20000	MACTE @ 0 %
		AN ABEA	Sec Int.	VOLUME	Sp. Gr. / Bu. Dn.	TONNAGE	WINEABLE @ 100 X	- 1
BETN, C	BETN, CR. SEC.	AV. ANCA	: 1	00 011 0	2 50	109 375 00	109,375,00	•
0100	E . 2400	875.00	20.00	43,750,00	4.30	201010101		
E: 2050	E. 2100		20.00	123 750 00	2.50	309,375.00	309,375.00	
E . 7100	F:2150	2,475.00	20.00	Service libert		0000	00 000 00	1
2700		00000	50.00	230,000.00	2.50	5/5,000.00		
F - 2150	E:2200	4,600.00	20.00			2000000	580 000 00	9
2007	0.00	00 0V V	20.00	232,000.00	Uc.2	380,000,00		
E:2200	E:2250	4,040,00		00 000 00	250	205,000,00	205,000.00	ř
	טטנטיו	1 640.00	20.00	87,000,00		and		
E:2250	E:2300	7,000		00 001	250	1,778,750,00	1,778,750.00	ŧ
	TOTAL	14,230.00	20.00	/11,500.00		10000		

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		A	ABSTRACI - BEINCH WISE	CH WISK			
	AND ADEA	Sec Int.	VOLUME	Sp. Gr. / Bu. Dn.	TONNAGE	MINEABLE @ 100 %	WASTE @ 0%
BENCH RL	AV. ANEA	00 03	8 250.00	2.50	20,625,00	20,625.00	•
106,00	165.00	00.00	76 750 00	The state of the s	66,875.00	66,875.00	•
100 00	535.00	50,02	20,000		00 014 00	83 750 00	•
The same and the s	670.00	20.00	33,500.00	7.50	83,730,00	And the second s	At a second seco
94.00	00 100	50.00	46,250.00	2.50	115,625.00	115,625.00	
88.00	20.62%		00 001 01	2 50	146.250.00	146,250,00	•
00.00	1,170.00	20,00	58,500.00	And the second s	OC LEG OF	1E0 27E 00	
02.00	1 275 00	50.00	63,750.00	2,50	159,375.00	139,575,000	Annual Contract of
76,00	00.57.2,L	E0.00	63.750,00	2.50	159,375.00	159,375.00	
70.00	1,2/5.00	00.00		03.0	156 875 00	156,875,00	,
00 83	1,255.00	20.00	62,750.00		SOUTH OF THE		
00:40	1 735 00	50.00	61,750.00	2.50	154,375.00		
58.00	1,233.00		66 250 00	2.50	165,625.00	165,625.00	•
52.00	1,325.00	20.00	2007/00		11/1 275 00	144.375.00	,
00 00	1,155.00	20.00	57,750.00		מסים וחילולוד		
49,00	1 075 00	50.00	53,750.00	0 2.50	134,375.00		
40.00	00.000		59 000.00	2.50	147,500.00	147,500.00	
34.00	1,180.00		0.000,00		123 750.00	123,750.00	
28.00	00.066	50.00	49,500.00		100000000000000000000000000000000000000		
-			-11-		S CLP	1 778 750 00	
7	00 000	20.00	711,500.00	0 2.50	1,778,750.00		

WW. SCHTHARAJK.

););

N. M.

TABLE SHOWING THE DETAILS OF CALCULATION OF AREA, VOLUME AND TONNAGE OF PRODUCTION PROGRAMME FOR 1ST YEAR	OF NAGAROOR QUARRY OF M/s. ADANI VIZHINJAM PORT PVT. LTD.	ABSTRACT - CROSS SECTION WISE	NREA Sec Int. VOLUME Sp. Gr. / Bu. Dn. TOMNAGE MINEABLE @ 100% WASTE @ 0 %	12.50 50.00 625.00 2.50 1,562.50 , 1,562.50 -	225.00 50.00 11,250.00 2.50 28,125.00 28,125.00 -	945.00 50.00 47,250.00 2.50 118,125.00 118,125.00 -	372.50 50.00 68,625,00 2.50 171,562.50 171,562.50	640.00 50.00 32,000.00 2.50 89,000.00 80,000.00 -	
ETAILS OF CALCULATION OF AREA,	OF NAGAROOR QUARRY OF	ABSTRACT				945.00 50.00			3.195.00 50.00 1
TABLE SHOWING THE D			BETN. CR. SEC.	E:2100	E:2150	E:2200	E:2250	E:2300	TOTAL
TAI			38	E: 2050	E:2100	E:2150	E:2200	E:2250	

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		ď	ABSTRACT - BENCH WISE	CH WISE			
BENCH RL	AV. AREA	Sec Int.	VOLUIME	Sp. Gr. / Bu. Dn.	TONNAGE	MINEABLE @ 100%	WASTE @ 0 %
106.00	165.00	20.00	8,250.00	2.50	20,625.00	20,625.00	To the second se
100.00	535,00	20.00	26,750.00	2,50	66,875.00	66,875.00	
94.00	620,00	20.00	33,500.00	2.50	83,750.00	83,750.00	
88.00	925.00	50.00	46,250.00	2.50	115,625.00	115,625,00	
82.00	00'006	20.00	45,000.00	2.50	112,500.00	112,500.00	
TOTAL	3,195.00	250.00	159,750.00	12.50	399,375.00	399,375.00	

101810101 0550E

		WASTE @ 0 %	,		,	,		
7.7	YEAR), ji			
	TABLE SHOWING THE DETAILS OF CALCULATION OF AREA, VOLUME AND TONNAGE OF PRODUCTION PROGRAMME FOR 2ND YEAR	MINEABLE @ 100%	24,062.50	59,687.50	95,312.50	90,625.00	30,937.50	300,625.00
	PRODUCTION PRO	TONNAGE	24,062.50	59,687,50	95,312.50	90,625.00	30,937.50	300,625.00
	DE CALCULATION OF AREA, VOLUME AND TONNAGE OF PRODUCTION OF NAGAROOR OF MAS ADAMI WITHINIANA PORT DVT 1TD	VOLUME Sp. Gr. / Bu. Dn.	2.50	2.50	2.50	2.50	2.50	2.50
	EA, VOLUME AI	VOLUME	9,625.00	23,875.00	38,125,00	36,250.00	12,375.00	120,250.00
	CULATION OF AR	Sec Int.	50.00	50,00	50.00	50.00	50.00	20.00
	HE DETAILS OF CALC	AV. AREA	192.50	477.50	762.50	725.00	247.50	2,405.00
	LE SHOWING TH	BETN, CR, SEC.	E:2100	E:2150	E:2200	E:2250	E:2300	TOTAL
	TAB	BETN.	E:2050	E:2100	E:2150	E:2200	E:2250	DT.

6		A	ABSTRACT - BENCH WISE	CH WISE			/ / / / / / / / / / / / / / / / / / /
BENCH RL	AV. AREA	Sec Int.	VOLUME	VOLUME Sp. Gr. / Bu. Dn.	TONNAGE	MINEABLE @ 100%	WASTE @ 0 %
82.00	270.00	50,00	13,500.00	2.50	33,750.00	33,750.00	1
76.00	1,175.00	50.00	58,750.00	2,50	146,875.00	146,875.00	•
70.00	960.00	50,00	48,000.00	2.50	120,000.00	120,000.00	,

								1	
1	TOTAL	2,405.00	50.00	120,250,00	2,50	300,625,00	300,625.00	Şi jill	•
100				The second secon	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	the same of the sa			
H									
1	Total :								

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ANNEXURE NO. 14

TEST REPORT

No.20181273

AMBIENT AIR QUALITY DATA

- 1. Name of the Project
- : Building Stone Quarry at Nagaroor village (Kadavila)

Location Name

- ; Quarry Area 3.6630 Ha
- 3. Name of the project Proponent
- : M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kadavila), Chirayinkeezhi Taluk, Thiruvananthapuram District,
- 4. Month of sampling
- : May-2018.
- 5. Duration of sampling
- : 8 Hours
- Date of reporting
- ; 30,05,2018

Parameter	5O ₂ μg/m³	NO ₂ μg/m³	PM ₁₈ µg/m³	PM _{2.5} μg/m ³	Ammonia μg /m³
Sample no.	08182826	08182825	0118	P1'0589269	
06.05,2018	8,10	11.01	16.18	15.73	
Protocol / Method	IS:5182 (Part 2) ~ Improved West and Gaeke method	15:5182 (Part 6) – Jacob and Hockheiser method	IS:5182 (Part 23) – Oravimetric method	MLPL/SOP/44 - Gravimetric method	MLPL/SOP/41 - Indophenol blue method
NAAQ Standards	80	80	100	60	400

INFERENCE As per C	PCB Standards Report Status: All values are within the prescribed standards.
Sample Collected By M/s. ME	TAMORPHOSIS Laboratory Private Limited, Bengaluru

** End of Report **

Authorized Signatory

Laboratory Head Dr. Shanth A. Thimmaiah Bangalore

Kantharaj K. AUTODAMSTERONIA



"PRAKRUTI BHAVAN", #200, 1st & 2nd Floor, 40th Main, 1st Cross, BTM Layout II Stage, Behind Central Silk Board, Bengaluru - 560068, Karnataka, India, Telefax: +91.80.26783006

Email: mail@metamorphosis-india.com.

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TEST REPORT

No.20181370

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AMBIENT AIR QUALITY DATA

1. Name of the Project

: Building Stone Quarry at Nagaroor village (kadavila)

2. Location Name

: Near Human Settlement @ 330 Mtrs

3. Name of project Proponent

7. 7.

: M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kadavila). Chirayinkeezhi Taluk, Thiruvananthapuram District, Kerala State

4. . Month of sampling

: May-2018

5. Duration of sampling

: 8 Hours

6. Date of reporting

: 30.05,2018

Parameter	SO ₂ µg/m³	NO ₂ μg/m³	РАI ₁₀ µg/m³	РМ _{2.5} µg /m ³	Ammonia µg /m³
Sample no.	0818210B	081820913	0818207В	0818208B	- T-0
06.05.2018	7.56	13.6	24.18	15.6	es.
Protocol / Method	15:5182 (Part 2) – Improved West and Gaeke method	IS:5182 (Part 6) - Jacob and Hochheiser method	IS:5182 (Part 23) – Gravimetric method	MLPL/SOP/44 - Gravimetric method	MLPL/SOP/41 - Indophenol blue method
NAAQ Standards	80	80	100	60	400

INFERENCE	As per CPCB Standards Report Status: All values are within the prescribed standards.
Sample Collected By	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru
The transfer of the same of th	

** End of Report **

Authorized Signatory

-Laboratory Head

Dr. Shanth A. Thimmaiab



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"PRAKRUTI BHAVAN", #200, 1st & 2nd Floor, 40th Main, 1st Cross, BTM Layout II Stage, Behind Central Silk Board, Bengaluru – 560068, Karnataka, India, Telefax: +91.80.26783006 Email: mail@metamorphosis-india.com.



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TEST REPORT

No.20181274

AMBIENT AIR QUALITY DATA

1. Name of the Project

: Building Stone Quarry at Nagaroor village (Kadavila)

Location Name

: Near Human Settlement @ 450 Mtrs (Kadavila Bus stop)

Name of the project Proponent 3.

: M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village

(Kadavila), Chirayinkeezhi Taluk, Thiruvananthapuram District,

Kerala State.

Month of sampling

: May-2018 : 8 Hours

Duration of sampling 5.

: 30.05.2018

Date of reporting

Parameter	SO ₂ μg/m ³	NO ₂ μg/m³	PAL ₁₀ µg/m³	PM _{2.5} μg/m ³	Ammonia µg/m³	
Sample no.	08182828	08182827	0070	PT0570034		
06.05.2018	7.67	12.06	24.12	16.49		
Protocol / Method	IS:5182 (Part 2) – Improved West and Gaeke method	IS:5182 (Part 6) – Jacob and Hochheiser method	IS;5182 (Part 23) - Gravimetric method	MLPL/SOP/44 - Gravimetric method	MLPL/SOP/41 - Indophenol blue method	
NAAQ Standards	80	80	100	60	400	

INFERENCE	As per CPCB Standards Report Status: All values are within the prescribed standards.
	Mis. METAMORPHOSIS Laboratory Private Limited, Bengaluru

** End of Report **

Authorized Signatory

Laboratory flead

Br. Shanth A. Thimmaiah









ivironmental & Industrial Research Laborato



"PRAKRUTI BHAVAN", #200, 1st & 2nd Floor, 40th Main, 1st Cross, BTM Layout II Stage, Behind Central Silk Board, Bengaluru - 560068, Karnataka, India, Telefax: +91.80.26783006 Email: mail@metamorphosis-india.com.



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TEST REPORT

No.20181275

AMBIENT AIR QUALITY DATA

1. Name of the Project

: Building Stone Quarry at Nagaroor village (Kadavila)

2. Location Name

: Near Human Settlement @ 900 Mtrs

3. Name of the project Proponent

: M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village

(Kadavila), Chirayinkeezhi Taluk, Thiruvananthapuram District,

Kerala State.

4. Month of sampling

; May-2018

5. Duration of sampling

; 8 Hours

6. Date of reporting

; 30.05.2018

Parameter	SO ₂ μg /m³	NO ₂ µg /m ³	PM ₁₀ µg/m³	РМ ₁₋₅ µg/m³	Ammonia µg/m³	
Sample no. Date of Sampling	08182830	08182829	0256	PT0628886	**	
06.05.2018	8.10	12.69	23,36	16.18		
Protocol / Method	18:5182 (Part 2) – Improved West and Gaeke method	13:5182 (Purt 6) - Jacob and Hochheiser method	IS:5182 (Part 23) ~ Gravimetric method	MLPL/SOP/44 - Gravimetric method	MLPL/SOP/41 - Indophenol blue method	
NAAQ Standards	80	80	100	60	400	

INFERENCE	As per CPCB Standards Report Status: All values are within the prescribed standards.
Sample Collected By	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru

** End of Report **

Authorized Signatory

_ Laboratory Head

Dr. Shanth A. Thimmaiah





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TEST REPORT

No.20181276

AMBIENT AIR QUALITY DATA

1. Name of the Project

: Building Stone Quarry at Nagaroor village (Kadavila)

Location Name

; Near Human Settlement @ 825 Mtrs

3. Name of the project Proponent

11 /

: M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village

(Kadavila), Chirayinkeezhi Taluk, Thiruvananthapuram District.

Kerala State,

4. Month of sampling

: May-2018

5. Duration of sampling

: 8 Hours

6. Date of reporting

: 30.05.2018

Parameter	SO ₂ µg/m³	NO ₂ μg/m'	PAL ₁₀ µg/m³	PM _{2.5} µg/m ³	Ammonia µg/m³
Sample no.	08182832	08182831	0123	PT0569932	To the state of th
06.05.2018	8,52	11.85	22,74	15.72	Art.
Protocol / Method	IS:5182 (Part 2) – Improved West and Gaeke method	IS:5182 (Part 6) – Jacob and Hochheiser method	18:5182 (Part 23) – Gravimetric method	MLPL/SOP/44 • Gravimetric method	MLPL/SOPAL = Indophenal blue method
NAAQ Standards	80	80	100	60	400

INFERENCE	As per CPCB Standards Report Status; All values are within the prescribed standards.
	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru

** End of Report **

Authorized Signatory

Laboratory Head

Dr. Shanth A. Thimmaiah











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TEST REPORT

ANNEXURE NO. 15

No.20181265

ANALYSIS REPORT OF WATER QUALITY

Name of the Project

Location Name

in

Z.

3.

Name of Project Proponent

Date of Sampling 4. 5. Particulars of Sample Collected

G, Sample Number 7. Date of Sample Receipt Analysis Started On 8. Date of Reporting

Building Stone Quarry at Nagaroor village (Kadavila)

Near Human Settlement @ 450 Mtrs (Kadavila Bus stop)- Open well

h

M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kadavila), Chirayinkeezhi Taluk, Thiruvananthapuram District, Kerala State.

10.05.2018

Ground water 08182970 16.05.2018 16.05,2018

Sr. No.					Standard IS 10500: 2012 (2 nd Revision)mdt.1		
	Parameters	Protocol	Unit	Result	Acceptable Limit	Permissible limit in the absence of alternate source	
A.	PHYSICAL PARAMETER	lS	B100 B2 TO	P. S. S. P. J. S.	THE PARTY OF THE P		
1.	Colour	IS:3025 (Part 4)	Hazen		3	15	
2.	pH@ 25°C	IS:3025 (Part 11)		6,33	6.5 to 8.5	No Relaxation	
2. 3.	Turbidity	IS:3025 (Part 10)	NTU	BDL		3	
B.	CHEMICAL PARAMETE	RS					
4.	Conductivity(ii; 25°C	IS:3025 (Part 14)	µS/em	328,0	Not Specified	Not Specified	
5.	Total Dissolved solids	IS:3025 (Part-16)	mg/L	183,6	500	2000	
6.	Total Suspended Solids	IS 3025 (Part 17)	mg/L		Not Specified	Not Specified	
7.	Total Hardness as CaCO ₃	1S: 3025 (Part 21)	mg/L	95,12	200	600	
8.	Calcium as Ca	IS 3025 (Part 40)	mg/1_	31.58	75	200	
9.	Magnesium as Mg	IS 3025 (Part 46)	mg/L	3.93	30	100	
10.	Total Alkalinity as CaCO3	IS:3025 (Part 23)	mg/L	95.88	200	600	
11.	Fluorides as F	IS 3025 (Part 60)	mg/L	0.67	T I	1.5	
12.	Chlorides as Ci	1S:3025 (Part 32)	mg/L	19.0	250.	1000	
13.	Sulphate as SO ₄	IS 3025 (Part 24)	mg/L	4.42	200	400	
14,	Nitrate as NO ₃	IS 3025 (Part 60)	mg/L	3.04	45	No Relaxation	
15.	Dissolved Oxygen	IS3025 (Part 38)	mg/L	-	Not Specified	Not Specified	
16.	Chemical Oxygen Demand(COD)	IS 3025 (part 58): 2006 (RA 2012)	mg/L	BDI.	Not Specified	Not Specified	
17.	Biochemical Oxygen Demand 3 d 27°C (BOD)	APHA 22nd Edition, 4500-H+,B	mg/L	BIDI	Not Specified	Not Specified	
18.	Iron as Fe	IS 3025 (Part 53)	mg/L	BDL	0.3	No Relaxation	
C.	MICROBIOLOGICAL PA	RAMETERS					
19.	Coliform organism/100ml*	1 IS:1622-1981	MPN	NA	Shall not be dete	cted in any 100 ml	
20	E.Coli Bacteria/100ml*	IS:1622-1981		NA	sample.		

the client, BDL: Below Detection Limit; NA= Not Analysed

INFERENCE Sample Collected by As per 15 Standards Report Status: All tested parameters are within acceptable limits, M/s. METAMORPHOSIS^{SS} Laboratory Private United, Bengaluru

** End of Report **

Authorised Signatory

Lahoratory Head

Dr. Shanth A. Thimmaiah

RGP/GOA/130/2000/A

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"PRAKRUTI BHAVAN", #200, 1st & 2nd Floor, 40th Main, 1st Cross, BTM Layout II Stage, Behind Central Silk Board, Bengaluru - 560068, Karnataka, India, Telefax: +91.80.26783006

Email: mail@metamorphosis-india.com.

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TEST REPORT

No.20181266

ANALYSIS REPORT OF WATER QUALITY

- Name of the Project
- 2. Location Name
- Name of Project Proponent 3.
- Date of Sampling 4,
- Particulars of Sample Collected 5.
- Sample Number 6.
- Date of Sample Receipt 7.
- Analysis Started On 8.
- 9. Date of Reporting

- Building Stone Quarry at Nagaroor village (Kadavila)
- Near Human Settlement @ 900 Mtr towards West- Open well water
- M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kadavila),
- Chirayinkeezhi Taluk, Thiruvananthapuram District, Kerala State,
- 10.05.2018
- Ground water
- 08182971
- 16.05.2018
- 16.05.2018
- 30.05,2018

Sr. No.	Parameters		a pirkipili o la porte i dicale provincia parte	Padalla natura (Militaria and Aria)	Standard IS 10500: 2012 (2nd Revision)mdt.1			
		Protocul	Unit	Result	Acceptable Limit	Permissible limit in the absence of alternate source		
A.	PHYSICAL PARAMETER	S			Aprel 100 mars of the contract			
ī.	Colour	15:3025 (Part 4)	Hazen	7	5	15		
2,	рН@ 25°C	IS:3025 (Part II)		6,44	6.5 to 8.5	No Relaxation		
3.	Turbidity	IS:3025 (Part 10)	NTU	BDL		5		
B.	CHEMICAL PARAMETERS							
4.	Conductivity@ 25°C	15:3025 (Part 14)	µS/em	79.0	Not Specified	Not Specified		
5.	Total Dissolved solids	1\$:3025 (Part-16)	mg/L	62.0	500	2000		
6.	Total Suspended Solids	IS 3025 (Part 17)	mg/L	ħ.,	Not Specified	Not Specified		
7.	Total Hardness as CaCO:	15: 3025 (Part 21)	mg/L	10.12	200	600		
8.	Caleium as Ca	IS 3025 (Part 40)	mg/L	2.42	75	200		
9.	Magnesium as Mg	IS 3025 (Part 46)	mg/L	1.0	30	100		
10.	Total Alkalinity as CaCO ₃	IS:3025 (Part 23)	mg/L	14.28	200	600		
11.	Fluorides as F	IS 3025 (Part 60)	mg/L	0.69	1	1.5		
12.	Chlorides as Cl	IS:3025 (Part 32)	mg/L	7.60	250	1000		
13.	Sulphate as SO ₄	IS 3025 (Part 24)	mg/L	4,52	200	400		
14.	Nitrate as NO ₃	IS 3025 (Part 60)	mg/L	0.60	45	No Relaxation		
15.	Dissolved Oxygen	1S3025 (Part 38)	mg/L	-	Not Specified	Not Specified		
16.	Chemical Oxygen Demand(COD)	1S 3025 (part 58): 2006 (RA 2012)	mg/L	BDL	Not Specified	Not Specified		
17.	Biochemical Oxygen Demand 3 d 27°C (BOD)	APHA 22nd Edition, 4500-H+,B	mg/L	BDL	Not Specified	Not Specified		
18.	Iron as Fe	IS 3025 (Part 53)	mg/L	BDL	0.3	No Relaxation		
C.	MICROBIOLOGICAL PA							
19.	Coliform organism/100ml*	IS:1622-1981	MPN	NA		ected in any 100 ml		
20	E.Coli Bacteria/100ml*	18:1622-1981	n-	NA	sample,			
m.W.C.	The second remarkable and the second		C	a on the venuals	ested only and parameters as per the requisition			

Note: The tests murked with an * are not accredited by NABL. The result & inference pertains to the sample tested only and parameters as per client, BDL: Below Detection Limit; NA= Not Analysed

INFERENCE

As per 18 Standards Report Status: All tested parameters are within acceptable limits M/s. METAMORPHOSIS^{2M} Laboratory Private Limited, Bengaluru

** End of Report **

Ü

Authorised Signatory

Laboratory Head

Dr. Shanth A. Thimmaiah



Sample Collected by



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TEST REPORT

No.20181267

ANALYSIS REPORT OF WATER QUALITY

Name of the Project I.

2. Location Name

3. Name of Project Proponent

4. Date of Sampling 5. Particulars of Sample Collected

Sample Number 6. 7. Date of Sample Receipt Analysis Started On

Building Stone Quarry at Nagaroor village (Kadavila)

Near Human Settlement @ 330 Mtr towards NNW - open well water M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kadavila),

Chirayinkeezhi Taluk, Thiruvananthapuram District, Kerala State.

10.05.2018 Ground water 08182972

16.05.2018 16.05.2018

Sr. No.					Standard IS 10500: 2012 (2nd Revision)mdt,1		
	Parameters	Protocol	Unit	Result	Acceptable Limit	Permissible limit in the absence of alternate source	
A.	PHYSICAL PARAMETER	\$S					
1.	Colour	IS:3025 (Port 4)	Hazen	-	3	15	
2.	pH@ 25"C	15:3025 (Part 11)	-	6.94	6.5 to 8.5	No Relaxation	
3.	Turbidity	15:3025 (Part 10)	NTU	1.2	1	5	
₿.	CHEMICAL PARAMETE						
4.	Conductivity@ 25°C	1S:3025 (Part 14)	μS/em	32.9	Not Specified	Not Specified	
5.	Total Dissolved solids	IS:3025 (Part-16)	mg/L	26.8	500	2000	
6.	Total Suspended Solids	IS 3025 (Part 17)	mg/L		Not Specified	Not Specified	
7.	Total Hardness us CaCO2	IS: 3025 (Part 21)	mg/L	10.12	200	600	
8.	Calcium as Ca	IS 3025 (Part 40)	mg/L	3.24	75	200	
9.	Magnesium as Mg	15 3025 (Part 46)	mg/L	BDL	30	100	
10,	Total Alkalinity as CaCO ₃	IS:3025 (Part 23)	mg/L	14.28	200	600	
11.	Fluorides as F	IS 3025 (Part 60)	mg/L	BDL	l l	1.5	
12.	Chlorides as Cl	IS:3025 (Part 32)	mg/L	9.50	250	1000	
13.	Sulphate as SO ₄	IS 3025 (Part 24)	mg/L	1,36	200	400	
14.	Nitrate as NO ₃	IS 3025 (Part 60)	mg/L	1.06	45	No Relaxation	
15.	Dissolved Oxygen	1\$3025 (Part 38)	mg/l,	•	Not Specified	Not Specified	
le.	Chemical Oxygen Demand(COD)	IS 3025 (part 58): 2006 (RA 2012)	mg/L	BDL	Not Specified	Not Specified	
17.	Biochemical Oxygen Demand 3 d 27°C (BOD)	APHA 22nd Edition, 4500-11+,B	mg/L	BDL	Not Specified	Not Specified	
18.	Iron as Fe	IS 3025 (Part 53)	mg/L	BDL	0.3	No Relaxation	
C.	MICROBIOLOGICAL PA	RAMETERS					
19,	Coliform organism/100ml*	IS:1622-1981	MPN	NA.	Shall not be dete	cted in any 100 ml	
20	E.Coli Bacteria/100ml*	11S:1622-1981	- 1	NA	sample.		

Note: The texts marked with an * are not accredited by NABL. The result & inference pertains to the sample tested only and parameters as per the requisition of the client, BDL: Below Detection Limit: NA= Not Analysed

** End of Report **

INFERENCE Sample Collected by As per IS Standards Report Status; All tested parameters are within acceptable limits M/s, METAMORPHOSIS²⁶¹ Laboratory Private Limited. Bengaluru

Authorised Signatory

Laboratory Head

vironmental & Industrial Research Laboratory

Dr. Shanth A. Thimmaiah

JAS-ANZ

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TEST REPORT

No.20181268

ANALYSIS REPORT OF WATER QUALITY

- Name of the Project 1.
- Location Name 2.
- 3, Name of Project Proponent
- Date of Sampling 4.
- Particulars of Sample Collected 5.
- Sample Number 6.
- Date of Sample Receipt 7.
- Analysis Started On 8.
- Date of Reporting

- Building Stone Quarry at Nagaroor village (Kadavila)
- Near Human Settlement @ 825 Mtr towards NNE- Open well water
- M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kodavila). Chirayinkeezhi Taluk, Thiruvananthapuram District, Kerala State,
- 10.05.2018
- Ground water
- 08182973
- 16,05,2018
- 16.05.2018
- 30,05,2018

				Standard IS 10500: 2012 (2nd Revision)mdt,[
Parameters	Protocol	Unit	Result	Acceptable Limit	Permissible limit in the absence of alternate source
PHYSICAL PARAMETER	5		V/***		
Colour	1S:3025 (Part 4)	Hazen		5	15
pH@ 25°C	18:3025 (Part 11)		8,06	6.5 to 8.5	No Relaxation
Turbidity	IS:3025 (Part 10)	NTU	9.2	1	5
CHEMICAL PARAMETER	RS				
Conductivity@: 25thC	1S:3025 (Part 14)	µ\$/em	The second secon		Not Specified
	IS:3025 (Part-16)	me/l.	94.4	The second secon	2000
	IS 3025 (Part 17)	mg/l_	-		Not Specified
Total Hardness as CaCO ₃	IS: 3025 (Part 21)	ma\r			600
Calcium as Ca	1\$ 3025 (Part 40)	mw/L			200
Magnesium as Mg	IS 3025 (Part 46)	me/L.	2,45	The second secon	100
	IS:3025 (Part 23)	me/L	59.16	200	600
	1S 3025 (Part 60)	mg/L	BDL	1	1.5
	IS:3025 (Part 32)	mg/L	7.60	The same of the sa	1000
Sulphate as SQ.	IS 3025 (Part 24)	mg/L	8.31		400
	1S 3025 (Part 60)	mg/L	BDL		No Relaxation
The state of the s	1\$3025 (Part 38)	mg/L	-	Not Specified	Not Specified
Chemical Oxygen	1S 3025 (part 58): 2006 (RA 2012)	mg/L	BDL	Not Specified	Not Specified
Biochemical Oxygen	APHA 22nd Edition. 4500-H÷.B	mg/L	BDL	Not Specified	Not Specified
	15 3025 (Part 53)	mg/L	DDL	0.3	No Relaxation
		Secure and Secure Secur			
Coliforn organism/100ml*	1S:1622-1981	MPN	NA	Shall not be dete	ected in any 100 ml
	IS:1622-1981	74	NA	sample.	
	Colour pH@ 25°C Turbidity CHEMICAL PARAMETE Conductivity@ 25°C Total Dissolved solids Total Suspended Solids Total Hardness as CaCO ₃ Culcium as Ca Magnesium as Mg Total Alkalinity as CaCO ₃ Fluorides as F Chloride as CI Sulphate as SO ₄ Nitrate as NO ₃ Dissolved Oxygen Chemical Oxygen Demand(COD) Biochemical Oxygen Demand 3 d 27°C (BOD) Iron as Fe	DH@ 25°C IS:3025 (Part 11)	Colour	Colour	Limit

Note: The tests marked with an * are not accordited by NADL. The vesua & inference paradus to the sample tested only and parameters as per the regulsition of the

** End of Report **

client, BBL: Below Detection Limit; NA= Not Analysed

As per IS Standards Report Status: All tested parameters are within acceptable limits M/s, METAMORPHOSISSM Laboratory Private Limited, Bengabara INFERENCE Sample Collected by

i.

Authorised Signatory

Laboratory Head

Dr. Shanth A. Thimmaiah

JAS-ANZ



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TEST REPORT

No.20181269

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ANALYSIS REPORT OF WATER QUALITY

- Name of the Project
- Location Name 2.

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- Name of Project Proponent 3.
- 4. Date of Sampling
- Particulars of Sample Collected 5.
- Sample Number 6. Date of Sample Receipt
- 7. Analysis Started On
- Date of Reporting

- Building Stone Quarry at Nagaroor village (Kadavila)
- Vamanapuram River water (Near Sri. Krishna Temple)-Surface water
- M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kadavila),
 - Chirayinkeezhi Taluk, Thiruvananthapuram District, Kerala State.
- 10.05.2018
- Surface water
- 08182974
- 16.05.2018
- 16.05.2018 30.05,2018

9,	Parameters	. 30,03,20			Standard IS 10500: 2012 (2 nd Revision)mdt.1		
Sr. No.		Protocol	Unit	Result	Acceptable Limit	Permissible limit in the absence of alternate source	
A.	PHYSICAL PARAMETER	S			agaign and a property of the section	· · · · · · · · · · · · · · · · · · ·	
L	Colour	15:3023 (Port 4)	Hazen		55	15	
2.	pH@ 25°C	1S:3025 (Part 11)		7.83	6.5 to 8,5	No Relaxation	
3.	Turbidity	IS:3025 (Part 10)	NTU	BDL	l l	5	
В.	CHEMICAL PARAMETER	3 S				4-1	
4.	Conductivity@ 25°C	1\$:3025 (Part 14)	μS/em	90.0	Not Specified	Not Specified	
5.	Total Dissolved solids	IS:3025 (Part-16)	ng/L	36.4	500	2000	
6.	Total Suspended Solids	1S 3025 (Part 17)	mg/L		Not Specified	Not Specified	
7.	Total Hardness as CaCO	IS: 3025 (Part 21)	mg/L	20.24	200	600	
8.	Calcium as Ca	IS 3025 (Part 40)	mg/L	6.47	75	200	
9.	Magnesium as Mg	18 3025 (Part 46)	mg/L	1.0	30	100	
10.	Total Alkalinity as CaCOs	1S:3025 (Part 23)	mg/L	42.84	200	600	
11.	Fluorides as F	1S 3025 (Part 60)	mg/L	0.92	1	1.5	
12.	Chlorides as Cl	15:3025 (Fort 32)	mg/L	11.40	250	1000	
13.	Sulphate as SQ	IS 3025 (Part 24)	mg/L	1.26	200	400	
14.	Nitrate as NO ₁	1S 3025 (Part 60)	mg/L	0.89	45	No Relaxation	
15.	Dissolved Oxygen	IS3025 (Part 38)	mg/L	-	Not Specified	Not Specified	
16.	Chemical Oxygen Demand(COD)	IS 3025 (part 58): 2006 (RA 2012)	mg/L	BIXL	Not Specified	Not Specified	
17.	Biochemical Oxygen Demand 3 d 27°C (BOD)	APHA 22nd Edition, 4500-H+,B	mg/L	BDL	Not Specified	Not Specified	
18.	Iron as Fe	IS 3025 (Part 53)	mg/L	BDL	0.3	No Relaxation	
C.	MICROBIOLOGICAL PA	RAMETERS					
19.	Coliform organism/100ml*	IS:1622-1981	MPN	NA		ected in any 100 ml	
20	E.Coli Bacteria/100ml* The tests marked with an * are not neco	1S:1622-1981	p.p.	NA	sample.		

client, BDL: Below Detection Limit; NA= Not Analysed

INFERENCE

As per IS Standards Report Status: All tested parameters are within acceptable limits.

M/s. METAMORPHOSIS⁵⁵¹ Laboratory Private Limited, Bengalutu

Sample Collected by

** End of Report **

Authorised Signatory

Laboratory Head

of, Shanth A. Thimmalah

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Environmental & Industrial Research Laboratory



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TEST REPORT

ANNEXURE NO. 16.

No.20181277

AMBIENT NOISE MEASUREMENT

1. Name of the project

: Building Stone Quarry at Nagaroor village (Kadavila)

2. Location name

: Quarry Area - 3.6630 Ha

3. Name of the project proponent

: M/s. Adani Vizhinjam Port PM. Ltd., Nagaroor Village

(Kadavila), Chirayinkeezhi Taluk, Thiruvananthapuram District,

Kerala State.

4. Date of Measurement

: 14.05.2018

5. Name of instrument

Digital sound level meter Equinox & EQ-107

6. Date of reporting

: 30,05,2018

Sampling point			Result (dB (A))						
	Sample no.	Protocol	Day			Night			
			LMin	LMax	Leg	LMin	LMax	Leg	
Quarry Area - 3.6630 Ha	08182987	IS:9989 ~1981	68,2	75.6	70.0	-	-	5	

Limits in dB(A) Leq							
Area Code	Category of Area/ Zone	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a. m.)				
(A)	Industrial Area	75	70				
(B)	Commercial Area	65	55				
(C)	Residential Area	55	45				
(D)	Sensitive Zone	50	40				

Note: The result & inference pertoins to the sample tested only and parameters as per the requisition of the client.

	the permissible limits applicable to industrial area. Employees exposed /working advised to wear PPE's.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bengaluru.

Authorized Signatory

Laboratory Head

Dr. Shanth A. Thimmaiah

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TEST REPORT

No.20181278

AMBIENT NOISE MEASUREMENT

- 1. Name of the project
- Location name

4.

- Name of the project proponent
- : Building Stone Quarry at Nagaroor village (Kadavila)
- : Near Human Settlement @ 450 Mtrs (Kadavila Bus stop)
- : M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor (Kadavila), Chirayinkeezhi Taluk, Thiruvananthapuram District, Kerala
- Date of Measurement
- Name of instrument
- Date of reporting

- : 14.05.2018
- : Digital sound level meter Equinox & EQ-107
- : 30.05.2018

Sampling point		T	1		Result ((dB (A))		
	Sample no.	Protocol	Day Night					
	DRIMPIT III		LMin	LMax	Leq	LMin	LMax	Leq
Near Human Settlement @ 450 Mtrs (Kaduvila Bus stop)	08182986	18:9989 -1981	69.8	79.3	74.3	-		*

	Limit	s in dB (A) Leq		
Area Code	Category of Area/ Zone	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a. m.)	
(A)	Industrial Area	75	70	
(B)	Commercial Area	65	55	
(C)	Residential Area	55	45	
(D)	Sensitive Zone	50	40	

Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	Report Status as per KSPCB Standards: - Values are found to be higher than the permissible limits applicable to industrial area. Employees exposed /working advised to wear PPE's.
Sample Collected By	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru.
Sample Conected by	**End of Report**

Authorized Signatory

Laboratory Head

Dr. Shanth A. Thimmaiah



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TEST REPORT

No.20181279

AMBIENT NOISE MEASUREMENT

1. Name of the project

2. Location name

Name of the project proponent 3.

Date of Measurement 5. Name of instrument

Date of reporting

: Building Stone Quarry at Nagaroor village (Kadavila)

: Near Human Settlement @ 900 Mtrs

: M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village

(Kadavila), Chirayinkeezhi Taluk, Thiruvananthapuram District,

Kerala State.

: 14.05.2018

: Digital sound level meter Equinox & EQ-107

: 30.05.2018

Sampling point					Result	(dB (A))		- with his of filler process
	Sample no.	Protocol	Day Night					(Califold on Northless on part on 1860 or
			LMin	LMax	Leg	LMin	1 2 2 4	Lea
Neur Human Settlement @ 900 Mitrs	08182985	15:9989 -1981	64.3	78.3	70.3		F	

Brane Paparetore actino il actino del	Limit	s in dB (A) Leg	The second secon		
Area Code	Category of Area/ Zone	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a. m.		
(A)	Industrial Area	75	70		
(B)	Commercial Area	65	55		
(C)	Residential Area	55	45		
(D)	Sensitive Zone	50	40		

Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	Report Status as per KSPCB Standards: - Values are found to be higher than the permissible limits applicable to industrial area. Employees exposed /working advised to wear PPE's.
Sample Collected By	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru.

End of Report

Authorized Signatory

Laboratory Head

Dr. Shunth A. Thimmaiah













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TEST REPORT

No.20181280

AMBIENT NOISE MEASUREMENT

- Name of the project
- Location name

4.

- Name of the project proponent
- : Building Stone Quarry at Nagaroor village (Kadavila)
- : Near Human Settlement @ 330 Mtr
- : M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village

(Kadavila). Chirayinkeezhi Taluk. Thiruvananthapuram District. Kerala State.

- Date of Measurement
- 5. Name of instrument
- Date of reporting

- : 14.05.2018
- : Digital sound level meter Equinox & EQ-107
- : 30.05.2018

			Result (dB (A))						
Sampling point	Sample no.	Protocof		Day			Night		
			LMin	LMax	Leq	LMin	LMax	Leq	
Near Human Settlement @ 330 Mtr	08182984	IS:9989 -1981	60.0	76.4	70.8	-		-	

and the state of t	Limit	s in dB (A) Leq			
Area Code	Category of Area/ Zone	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a. m.)		
(A)	Industrial Area	75			
(B)	Commercial Area	65	55		
(C)	Residential Area	55	45		
(D)	Sensitive Zone	50	40		

Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	Report Status as per KSPCB Standards: - Values are found to be higher than the permissible limits applicable to industrial area. Employees exposed /working advised to wear PPE's.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bengaluru.
,	**End of Report**

Authorized Signatory

Laboratory Head

Dr. Shanth A. Thimmaiah

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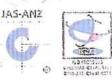


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TEST REPORT

No.20181281

AMBIENT NOISE MEASUREMENT

Name of the project

Location name

2

3. Name of the project proponent

11

: Building Stone Quarry at Nagaroor village (Kadavila)

: Near Human Settlement @ 825 Mirs

: M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kadavila), Chirayinkeezhi Taluk, Thiruvananthapuram

District, Kerala State.

Date of Measurement

5. Name of instrument

Date of reporting

: 14.05.2018

: Digital sound level meter Equinox & EQ-107

: 30.05.2018

	The state of the s				Result ((dB (A))		
Sampling point	Sample no.	Protocol		Day			Night	
	•		LMin	LMax	Leq	LMin	LMax	Leq
Near Human Settlement @ 825 Mtrs	08182983	IS:9989 -1981	60.1	78.9	74.1		,	

Limits in dB (A) Leq				
Area Code	Category of Area/ Zone	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a. m.)	
(A)	Industrial Area	75	70	
(B)	Commercial Area	65	55	
(C)	Residential Area	55	45	
(D)	Sensitive Zone	50	40	

Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	Report Status as per KSPCB Standards: - Values are found to be higher than the permissible limits applicable to industrial area. Employees exposed /working advised to wear PPE's.
Sample Collected By	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru.

Authorized Signatory

Laboratory Head

Dr. Shanth A. Thimmaiah









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"PRAKRUTI BHAVAN", #200, 1st & 2nd Floor, 40th Main, 1st Cross, BTM Layout II Stage, Behind Central Silk Board, Bengaluru - 560068, Karnataka, India, Telefax: +91.80.26783006 Email: mail@metamorphosis-india.com

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TEST REPORT

ANNEXURE NO. 17.

No.20181270

ANALYSIS REPORT OF SOIL SAMPLE

- Name of the Project
- Location Name 2.

- Name of Project Proponent 3.
- Date of Sampling
- Particulars of Sample Collected 5. 6. Sample Number
- Date of Sample Receipt 7. Analysis Started On

- Building Stone Quarry at Nagaroor village (Kadavila)
- Soil @ Quarry Area -3.6630 Ha
- M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kadavila). Chiravinkeezhi Taluk, Thiruvananthapuram District, Kerala State.
- 10,05,2018
- Soil Sample 08182978

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- 16.05.2018
- 16.05.2018

9. Date of Reporting : 30.05.2018			and the second s	termina a residente de la constitución de la consti
Sr. No.	Parameters	Protocol	Unit	Result
Samp	le Number			
1	pH @ 25°C	IS:2720 (Part 26)	**	5,70
2	Conductivity @ 25°C	IS:1476:2000	µs/em	20.4
3	Total Organic Matter	IS:2720 (Part 22)	%	1.13
4.	Moisture.	IS:2720 (Part II)	%	20,95
5	Available Nitrogen as N	15:14686:1999	96	5,04
6	Available potassium as K	MLPL/SOP/32	Kg/ha	6
7	Available Phosphorus as PO4	IS:10158-1982	9/0	BDL
8	Sand*	IS:1498-1970	%	•
9	Stite	15:1498-1970	%	k.
01	Clay	IS:1498-1970	%	P. C.
11	Soil Type	Nil	Nil	

Note: The tests marked with an * are not accredited by NABL. The result & inference pertains to the sample tested only and parameters as per the requisition of the client. BDL= Below Detection Limit; NA= Not Analysed

INFERENCE Sample Collected by Report Status: All parameters meet the requirements and are within acceptable limits.

M/s. METAMORPHOSISSM Laboratory Private Limited, Bengaluru

Authorised Signatory

Laboratory Head

Dr. Shanth A. Thimmalah



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TEST REPORT

No.20181271

ANALYSIS REPORT OF SOIL SAMPLE

- Name of the Project 1.
- 2.
- Location Name
- Name of Project Proponent 3.
- Date of Sampling 4. Particulars of Sample Collected 5.
- Sample Number 6, Date of Sample Receipt 7.
- Analysis Started On

- Building Stone Quarry at Nagaroor village (Kadavila)
- Soil Near Human Settlement @ 450 Mtrs(Kadavila Bus stop)
- M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kadavila), Chirayinkeezhi Taluk, Thiruvananthapuram District, Kerala State.
- 10.05.2018
- Soil Sample 08182979
- 16.05.2018
- 16.05.2018

9.	Date of Reporting	: 30.05.2018		
Sr. No.	Parameters	Protocol	Unit	Result
Samp	le Number	the same and the s		
1	pH @ 25°C	IS:2720 (Part 26)	pp.	5,61
2	Conductivity @ 25°C	IS:1476:2000	µs/cm	70.0
3	Total Organic Matter	IS:2720 (Port 22)	%	0.60
4	Moisture	1\$:2720 (Part II)	%	16.51
5	Available Nitrogen as N	IS:14686:1999	96	3,36
6	Available potussium as K	MLPL/SQP/32	Kg/ha	•
7	Available Phosphorus as PO4	15:10158-1982	96	BDL
8	Sand*	IS:1498-1970	%	ь
9	Silt*	IS:1498-1970	96	
10	Clay	IS:1498-1970	96	P.
11	Soil Type	Nil	NII	Trust Court of French Court of

Note: The tests marked with an * are not accredited by NABL. The result & inference pertains to the sample tested only and parameters as per the requisition of the client. BDL= Below Detection Limit; NA= Not Analysed

INFERENCE	Report Status: All parameters meet the requirements and are within acceptable limits.
Sample Collected by	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bengaluru
	** Lind of Report **

Authorised Signatory

aboratory Head

Dr. Shanth A. Thimmainh







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"TEST REPORT

No.20181272

ANALYSIS REPORT OF SOIL SAMPLE

Building Stone Quarry at Nagaroor village (Kadavila)

M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor Village (Kadavila),

Soil Near Human Settlement @ 330 Mtr

Name of the Project 1.

Location Name

2.

Name of Project Proponent 3.

Date of Sampling 4. Particulars of Sample Collected

5. 6. Sample Number Date of Sample Receipt

7. Analysis Started On Chirayinkeezhi Taluk, Thiruvananthapuram District, Kerala State, 10.05,2018

Soil Sample 08182980

16.05.2018 16,05,2018

Sr.	Parameters	Protocol	Unit	Result
No.				
Samp	le Number			
1	pH @ 25°C	IS:2720 (Part 26)		6.11
2	Conductivity @ 25°C	IS:1476 :2000	μs/cm	28.8
3	Total Organic Matter	IS:2720 (Part 22)	96	0.99
4	Moisture	IS:2720 (Part II)	%	25.77
5	Available Nitrogen as N	IS:14686:1999	96	2,52
6	Available potassium as K	MLPL/SOP/32	Kg/ha	•
7	Available Phosphorus as PO,	IS:10158-1982	%	0.08.
8	Sand*	IS:1498-1970	%	•
9	Silt*	IS:1498-1970	%	•
10	Clay*	IS:1498-1970	%	
TI	Soil Type	Nil	Nil	•

Note: The tests marked with an * are not accredited by NABL. The result & inference pestains to the sample tested only and parameters as per the requisition of the client. BDL= Below Detection Limit; NA= Not Analysed

INFERENCE	Report Status: All parameters meet the requirements and are within acceptable limits.
Sample Collected by	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bengaluru

** End of Report **

Authorised Signatory

aboratory Head Dr. Shanth A. Thimmalah



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No: 1099/18

'അപേക്ഷാ സ്ഥലം ഹിൽഡിൽ പ്രത്യേകം അടയാളപ്പെടുത്തിയിരിക്കുന്നു എന്ന വില്ലേജ് ഓഹീസറുടെ സർട്ടിഫിക്കറ്റ് (Demarcation Certificate)

ശ്രീ/ശ്രീമതി CEO അദാനി വിഴിഞ്ഞം പോർട്ട് പ്രൈവറ്റ് ലിമിറ്റഡ് (പേതും വിലാ സവും രേഖപ്പെടുത്തുക) എന്നയാളുടെ സ്ഥാപനത്തിന്റെ/കമ്പ നിയുടെ മാനേജിങ് പാർട്ണറുടെ/ മന്ദേജിങ് ഡയറക്ടറുടെ പേരിൽ നാണ്ട് രജിസ്ട്രാഫീസിൽ നാനൂർ വില്ലേജിൽ 555/2 സർവ്വേ നമ്പർ പ്രകാരമുള്ള വാം 279 പട്ടികയിൽ നാനൂർ വില്ലേജിൽ 555/2 സർവ്വേ നമ്പർ പ്രകാരമുള്ള വാം 279 പട്ടികയിൽ വിവരിച്ചിട്ടുള്ള ഭൂമി എന്ന് രേഖപ്പെടുത്തി വിവരങ്ങൾ രേഖപ്പെടുത്താനു ണ്ടെങ്കിൽ താഴെ പട്ടികയിൽ കൊടുക്കുക) ഭൂമിയിൽ കാറിയിങ് ലീസിനായി അപേ ക്ഷിക്കാൻ ഉദ്ദേശിച്ചിരിക്കുന്ന 3.6830 ഹെക്ടർ ഭൂമി പ്രത്യേകം അളന്ന് /വേർതിരിച്ച് ആയതിന്റെ അതിർത്തികളിൽ കോൺക്രിറ്റ്/കരിങ്കല്ല്/അയേൺ പില്ലവുകൾ സ്ഥാപിച്ച് പ്രത്യേകം വേർതിരിച്ചിട്ടുണ്ടെന്ന് സാക്ഷ്യപ്പെടുത്തുന്നു.

ഈ സർട്ടിഫിക്കറ്റ് മൈനിങ് & ജിയോളജി, തിരുവനന്തപുരം ഹാജരാക്കാൻ വേണ്ടി മാത്രം.

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ശ്രീ/ശ്രീമതി CEO അദാനി വിഴിഞ്ഞം പോർട്ട് പ്രൈവറ്റ് ലിമിറ്റഡ് (പേരും വിലാ സവും രേഖപ്പെടുത്തുക) എന്നയാളുടെ ______ സ്ഥാപനത്തിന്റെ/കമ്പ്വ നിയുടെ മാനേജിങ് പാർട്ണറുടെ/ മാനേജിങ് ഡയറക്ടറുടെ പേരിൽ ______ സബ്ബ് രജിസ്ട്രാഫീസിൽ _____ നമ്പറിൽ രജിസ്റ്റർ ചെയ്ത ആധാരപ്രകാരം പ്രച്യൂർ ചെയ്ത ആധാരപ്രകാരം ചിറയിൻക്കീഴ് താലൂക്കിൽ നഗരൂർ വില്ലേജിൽ 555/2 സർവ്വേ നമ്പർ പ്രകാരമുള്ള 24.877-3 ഫെക്ടർ സർക്കാർ ഭൂമി (കൂടുതൽ സർവ്വെ നമ്പറുകൾ എഴുതാനുണ്ടെങ്കിൽ താഴെ പട്ടികയിൽ വിവരിച്ചിട്ടുള്ള ഭൂമി എന്ന് രേഖപ്പെടുത്തി വിവരങ്ങൾ രേഖപ്പെടുത്താനു ണ്ടെങ്കിൽ താഴെ പട്ടികയിൽ കൊടുക്കുക). റവന്യൂ വകുപ്പ് മറ്റ് പ്രത്യേക ആവശ്യങ്ങൾക്ക് പതിച്ചു കൊടുത്തതല്ലെന്നും റിസർവ് വനത്തിൽ ഉൾപ്പെടുന്നതല്ലെന്നും ടി വകക ളിൻമേൽ കോടത്രി/ബാങ്ക് അറ്റാച്ച്മെന്റ് ഇല്ലായെന്നും ടി ഭൂമി ആദിവാസി വിഭാഗങ്ങൾക്ക് അവകാശപ്പെട്ടതല്ലായെന്നും ടി ഭൂമിയുടെ 50 മീറ്റർ പരിധിയിൽ /സമീപത്തെങ്ങും ആദി വാസി സെറ്റിൽമെന്റുകൾ ഇല്ലായെന്നും സാക്ഷ്യപ്പെടുത്തുന്നു.

ഈ സർട്ടിഫിക്കറ്റ് മൈനിങ് & ജിയോളജി, തിരുവനന്തപുരം ഹാജരാക്കാൻ വേണ്ടി മാത്രം.



KANTHARAJ K.

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No. 1716/DOT/ML/2018

DEPARTMENT OF MINING & GEOLOGY District Office, Thiruvananthapuram

email: geo.thi.dmg@kerala.gov.in

Phone: 0471-2442055

Dated: 26-09-2018

From

The Geologist

To

M/s. Adani Vizhiniam Port Pvt Limited. 2nd Floor, Vipanchika Tower, Thycaud Thiruvananthapuram

Sir,

Sub:- Mining and Geology - Mines & Minerals - Approval of Eco-Friendly Mining Plan - Granite Building Stone Quarry at Survey 555/2, Government land Nagaroor of Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala State

The mining plan for the building stone quarry project at Survey Nos. 555/2, Government land of Nagaroor Village, Chiravinkeezhu Taluk, Thiruvananthapuram District, Kerala State is hereby approved vide the powers delegated to the District Geologist for the approval of mining plan for the minor minerals vide Kerala Minor Mineral Concession Rules, 2015 with the following conditions:-

- 1. That you will follow the prescribed Rules & Regulations of Central Government and State Government issued from time to time in regard to mining.
- 2. That you will follow the Mine Safety Rules and Regulations.
- 3. That you will store the mining waste in the earmarked location/dumping yard only as specified in the plan.
- 4. That you will carry out the plantation as committed in the plan.
- 5. That provision shall be made for the housing facility for the labour with all basic infrastructure facilities including safe drinking water, toilets etc. within the site.

Yours Faithfully GEOLOGIST KENTHARAJ W ROPIGOAMS0/2000 ijĹ ÜĹ

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Validity expires on 28.02.2024

Proceedings of the State Environment Impact Assessment Authority Kerala

Present: Dr.H.Nagesh Prabhu, IFS (Rtd.), Chairman, Dr. K.Jayachandran, Member & Dr. Usha Titus I.A.S Member Secretary.

Sub: SEIAA- Environmental Clearance for the proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvanathapuram District, Kerala by Mr.Rajesh Jha, Chief Executive Officer, M/s Adani Vizhinjam Port Private Limited - Granted - Orders issued.

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA

No. 1200/EC2/2018/SEIAA

Dated, Thiruvananthapuram 01.03.2019

- Ref: 1. Application received on 31.12.2018 from Mr.Rajesh Jha, Chief Executive Officer, M/s Adani Vizhinjam Port Private Limited, 2nd floor, Vipanchika Tower, Thycaud, Thiruvanathapuram – 695014
 - 2. Minutes of the 90th meeting of SEAC held on 4th January, 2019
 - 3. Minutes of the 92nd meeting of SEAC held on 22.01.2019
 - 4. Minutes of the 89th meeting of SEIAA held on 27th February 2019.
 - Affidavit received on 28.02.2019 from Sri Manoranjan Tripathy, Deputy General Manager- Projects, Adani Vizhinjam Port Pvt.Ltd.

ENVIRONMENTAL CLEARANCE NO.02/2019

Mr.Rajesh Jha, Chief Executive Officer, M/s Adani Vizhinjam Port Private Limited, 2nd floor, Vipanchika Tower, Thycaud, Thiruvanathapuram – 695014, vide the hardcopy of application received on 31.12.2018, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvanathapuram District, Kerala for an area of 3.6630 Ha. The project comes under Category B2, Activity 1(a), (i) as per the Schedule of EIA Notification 2006.

2. The proposed project site falls within Latitude 8⁰43'42.88" N to 8⁰33'51.74" N Longitude 76⁰50'15.26" E to 76⁰50'23.24" E. The lease area consists of 3.6630 hectares,

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which belongs to Government (Purambooke) land. The proposed project is for quarrying of 5,12,500 tonnes per annum. The daily water demand will be about 4 KLD, in which 2 KLD for domestic, 1KLD for plantation and 1KLD for dust suppression. The total project cost is 750 lakhs.

- 3. The proposal was placed in the 90th meeting of SEAC held on 4th January, 2019 and in the 92nd meeting of SEAC held on 22.01.2019. The Committee decided to recommend to issue EC subject to the following observations and conditions in addition to the general conditions.
 - The NE and SW portion of the proposed quarry area is already mined to the localized baseline. Therefore, the area remaining to be mined out is the eastern portion of the proposed land.
 - 2. On completion of the proposed mining activity, one quarter of the hillock under government land will vanish.
 - 3. The geological reserve estimated is 51,96,250 tons out of which the mineable reserve is 17,78,750 tone (up to the bench level of 28m AMSL) and blocked reserve is 34,17,500 tons. The mineable reserve up to 40m AMSL is 15,07,500 tons. It means that if the total mineable quantity is allowed to be extracted, the mine will go below the present ground level of 40m AMSL by a depth of 12m creating a pit.
 - 4. The reclamation and rehabilitation plan indicates that after the extraction over five years, there will a pit of 3 Ha out of which 0.95 Ha will be converted as a water pond and balance area of 2.05 Ha will be retained as pit.
 - 5. The proposal for year-wise mining indicates that the extraction will be to the tune of 1,52,500 tons (1st year), 4,99,375 tons (2nd year), 5,12,500 tons (3rd year), 5,11,875 tons (4th year) and 1,02,500 tons (5th year). However, the proposal does not mention about the requirement for the next two years, during which it is understood that the breakwater construction will be over.
 - 6. If we consider that the breakwater construction will be completed in two years and the quantity of stone projected for extraction in the first two years is the actual requirement for the proponent, then the quantity extracted will be 6,51,875 tons, i.e., 37% of the mineable reserve. If the mining is allowed upto the bench level of 70m as per the mine plan, the quantity extractable is 7,51,875 tons, i.e. 15% more than the requirement.

Page 2 of 6

7. Kerala experiences intermittent micro earthquakes such as the ones in Nedumkandam in 1988 with 4.5 magnitude, Vadakkencherry in 1994 with 4.3 magnitude, Erattupetta in 2000 and 2001 with magnitudes 5 and 4.8 respectively, off the coast of Thiruvananthapuram in 2001 with magnitude 4.5 etc. Based on the studies on the causative factors of micro tremors in Kerala, it is understood that variation in hydraulic pressure in the near-surface joints and fractures, increased pore-pressure and its uncertain variations etc lead to disturbance in the subsurface rock formations. Studies also indicated that from among the micro-tremors recorded in the seismograph installed in Peechi between 2000 and 2008, 45% occurred between July and October and 29% between November and January when there is significant rainfall and groundwater recharge. It indicates that the landuse changes, hydraulic pressure build up, pore-pressure variations etc. could influence occurrence of microtremors. There have been micro-tremors centered around Vamanapuram in September 1988, Parippalli in December 1994, Kilimanur in August 2006 and Attingal in January 2008. It is suspected that the subsurface rock formations do not have adequate strength to absorb the high magnitude variations in the landuse pattern, landform changes, hydraulic pressure variations etc.. Therefore, there need to be utmost restraints in disturbing the natural landforms of the region.

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- 8. The earlier quarrying of the hillock has left a vertical fall of 70m which is very dangerously poised. If mining is allowed as per mining rules, the vertical fall will become a bench cut which will improve the safety aspect of the frontal portion of the quarry.
- Since the proposal is to extract stone from one portion of the hillock, there will not be complete removal of the hillock, thus overcoming the implications on micro-climate of the region.
- 10. There are other quarries in the vicinity of the proposed quarry, but not within 500m as per a document produced by the proponent. It may be verified whether the proponent has submitted the relevant documents along with the application for EC, so as to ensure that there are no quarries within the radius of 500m.
- 11. The mining is proposed with Non-electric detonator (NONEL) method thereby minimizing air blast, fly rock and ground vibration.
- 12. The proponent should be directed to constitute a Local Area Monitoring Committee, involving the Grama Panchayat.

Page 3 of 6

- 13. No environmental management intervention could adequately mitigate the impacts caused due to the activities linked to quarrying/mining. However, the demand for building stones for essential developmental activities need to be met. Therefore, it is desirable to restrict mining to the minimum essential requirement so as to minimize the environmental impact as well as to protect the resource for future demand of development activities. Hence, mining should not be allowed for extracting the whole of mineable quantity but be permitted to meet the essential requirement. This approach will also minimize the change in landform.
- 14. The proponent may be permitted to extract a maximum of 7 lakh tons of building stone within a period of two years. Further permission for mining may be considered based on the requirement then and environmental assessment.
- 15. The proponent should be asked to comply with all mandatory environmental management conditions that are stipulated while giving EC for such mining projects.
- 16. The social and environmental needs of the locality should be assessed in consultation with the Local Governments based on which the Corporate Social & Environmental Responsibility should be exercised.
- 4. The proposal was placed in the 89th meeting of SEIAA held on 27th February 2019. Authority decided to recommend for issuance of EC with general conditions in tune with KMMC Rules 2015 and its amendments and subject to the following specific conditions.
 - 1. The mining should be conducted with Non-electric detonator (NONEL) method thereby minimizing air blast, fly rock and ground vibration.
 - 2. Extract a maximum of 7 lakh tons of building stone within a period of two years.

 Further permission for mining may be considered based on the requirement then and environmental assessment.
 - 3. The proponent shall file an affidavit that he will expend Rs.15 lakhs as part of CER in consultation with Local Self Government.
 - 4. The proponent should follow the closure plans (progressive closure and final closure) as per KMMC Rules.

The proponent has submitted notarised affidavit committing the CSR activities vide reference 5th cited.

5. Environmental Clearance as per the EIA Notification 2006 is hereby accorded for the quarry project of Mr.Rajesh Jha, Chief Executive Officer, M/s Adani Vizhinjam Port Private

Page 4 of 6

Limited, 2nd floor, Vipanchika Tower, Thycaud, Thiruvanathapuram – 695014 in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvanathapuram District, Kerala for an area of 3.6630 Ha, subject to the specific conditions as in para 4th above, all the environmental impact mitigation and management measures undertaken by the project proponent in the Form I, EMP, PFR and Mining plan submitted to SEIAA. The assurances and clarifications given by the proponent will be deemed to be a part of these proceedings as if incorporated herein. Also the general conditions for projects stipulated for mining (items 1 to 48), appended hereto will be applicable and have to be strictly adhered to.

- 6. The Clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures as assured in the Environment Management Plan and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and the undertakings in Chapter 2 (Mining) & (Blasting), Chapter 3 (Mines Drainage), Chapter 4 (Stacking of Mineral rejects and Disposal of waste) Chapter 8 (Progressive Mine Closure Plan) & EMP of the Mining Plan as submitted will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.
- 7. Validity of the Environmental Clearance will be five years from the date of this clearance, subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.
- 8. Compliance of the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices and also by the regional office of the Ministry of Environment & Forests, Govt. of India, Bangalore.
 - Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.
 - ii. Instances of violation if any shall be reported to the District Collector,
 Thiruvananthapuram.

Page 5 of 6

iii. The given address for correspondence with the authorised signatory of the project is Mr.Rajesh Jha, Chief Executive Officer, M/s Adani Vizhinjam Port Private Limited, 2nd floor, Vipanchika Tower, Thycaud, Thiruvanathapuram – 695014.

Sd/-Dr.Usha Titus I.A.S Member Secretary, SEIAA

Tó,

Mr.Rajesh Jha,
Chief Executive Officer,
M/s Adani Vizhinjam Port Private Limited,
2nd floor, Vipanchika Tower, Thycaud,
Thiruvanathapuram – 695014

Forwarded/By order

Administrator, SEIAA

Copy to,

- MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.
- The Principal Secretary to Government, Environment Department, Government of Kerala.
- 3. District Collector, Thiruvananthapuram
- 4. Director, Mining & Geology, Thiruvananthapuram -4.
- 5. The Member Secretary, Kerala State Pollution Control Board
- 6. District Geologist, Thiruvananthapuram
- 7. Tahsildhar, Chirayinkeezhu Taluk, Thiruvananthapuram district
- 8. Village Officer, Nagaroor Village (Kadavila), Thiruvananthapuram
- 9. Chairman, SEIAA.
- 10. Website.
- 11. S/f
- 12. O/c



Page 6 of 6

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA GENERAL CONDITIONS (for mining projects)

- A separate environmental management and monitoring cell with qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- 2. Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
- Sprinklers shall be installed and used in the project site to contain dust emissions.
- 4. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- 5. In view of the deep pits left after the excavation, stacking at maximum top level should be carried out.
- Corporate Environment Responsibility agreed upon by the proponent should be implemented.
- The project proponent shall comply the conditions stipulated by the statutory authorities concerned.
- Tarring /multiple options on the access roads shall be undertaken so as to reduce dust pollution during movement of vehicle.
- Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions.
- 10. Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is no mention in the mining plan/specific condition.
- 11. Ground level should be fixed in individual cases separately
- 12. No mining operations should be carried out at places having a slope greater than 45.
- Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB. This condition is applicable only in such cases if a crusher is adjacent to the quarry.
- 14. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- 15. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
- The transportation of minerals should be done in covered trucks to contain dust emissions.

 The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project. SEAC should assess the number of trees in each project site before the issuance of EC so as to ensure the promptness in planting
- 17. Explosives should be stored in magazines in solated place specified and approved by the Explosives Department.
- 18. A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.
- 19. 50 m buffer distance should be maintained from forest boundaries.
- Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.
- 21. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
- 22. 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 E.C 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.
- The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention 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.

DISTRICT STATE

The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.

26. The Environmental Clearance shall be put on the website of the company by the proponent.

27. Proponent shall submit half yearly reports in soft copy and SEIAA will upload it on the website.

The details of Environmental Clearance should be prominently displayed in a metallic board of

28. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public

29. 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.

30. No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.

31. 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.

32. The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m 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.

33. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.

monsoon and maintained properly.

Biffective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul Road, loading and unloading points and transfer points—it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

35. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

Measures should be taken for control of noise levels below 85 dBA in the work environment.

37. The funds earmarked for environmental protection measures and CER activate 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.

38. 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.

39. 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.

40. 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.

The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of a vironment protection.

The this right

42. 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.

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.

43.

44. The mining operation shall be restricted to above ground water table and it should not intersect ground water table.

45. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area'

46. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.

47. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.

48. Occupational health surveillance program of the workers should be under taken periodically to

observe any contractions due to exposure to dust and take corrective measures, if needed.

For Member Secretary, SEIAA Kerala



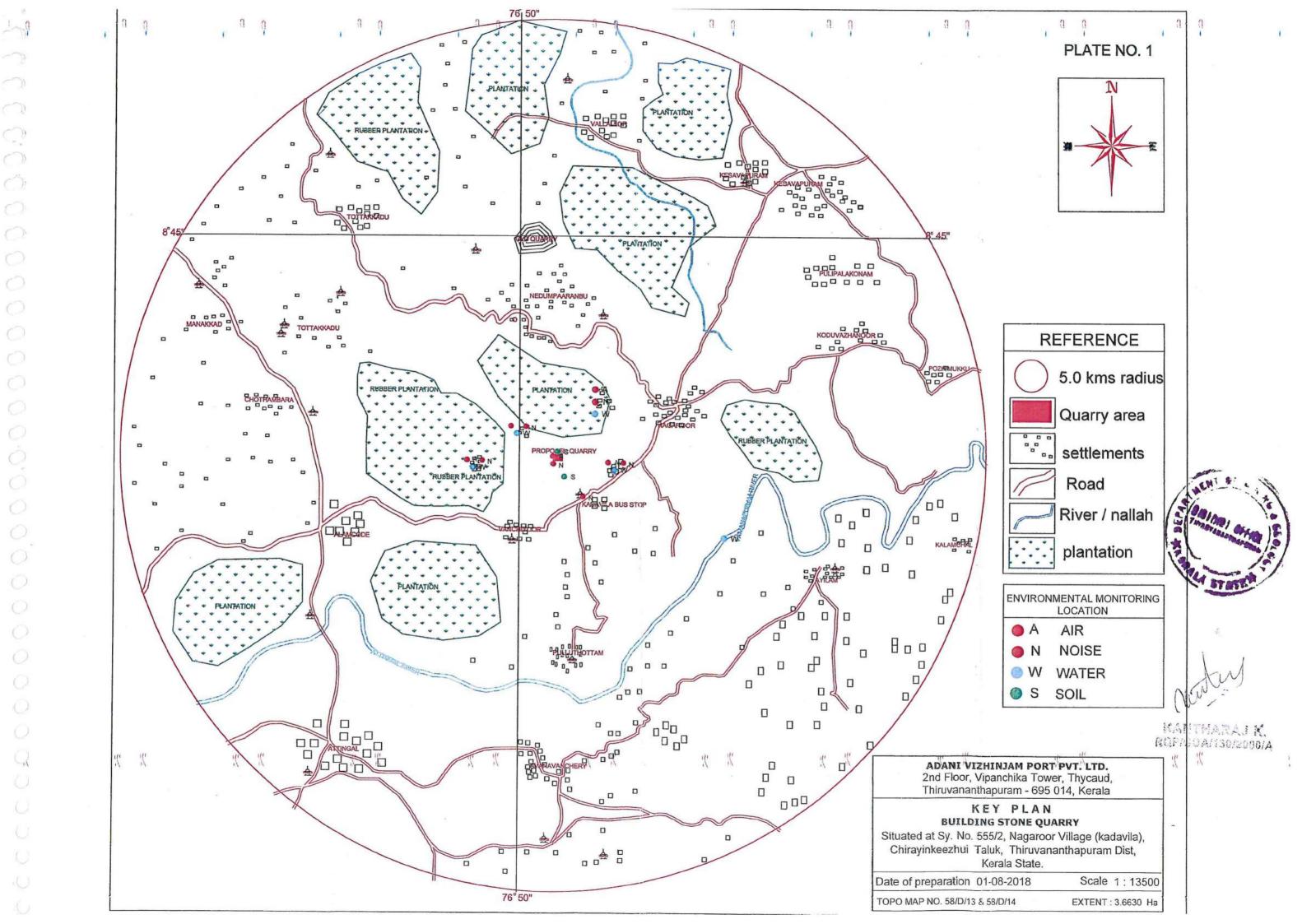


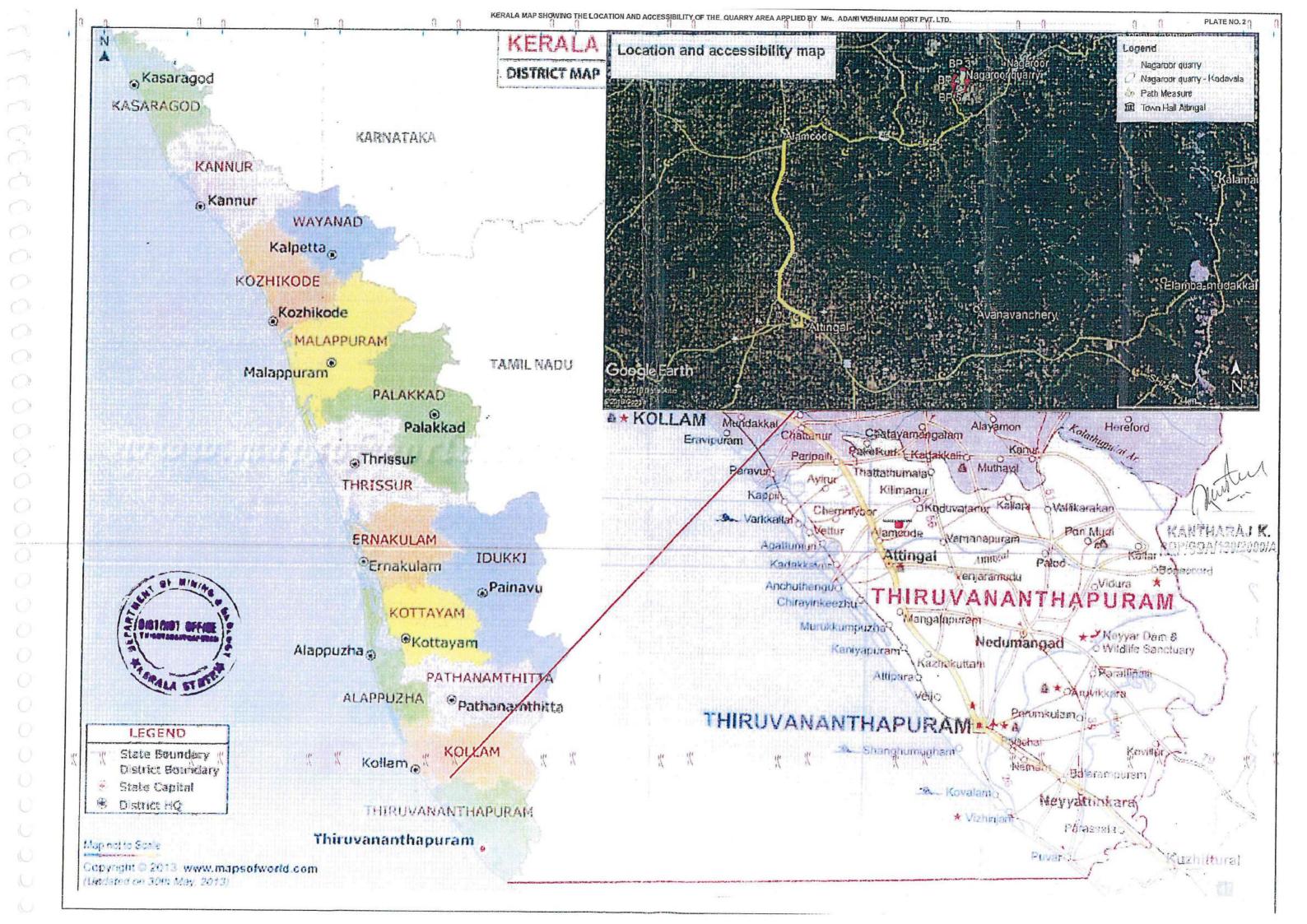
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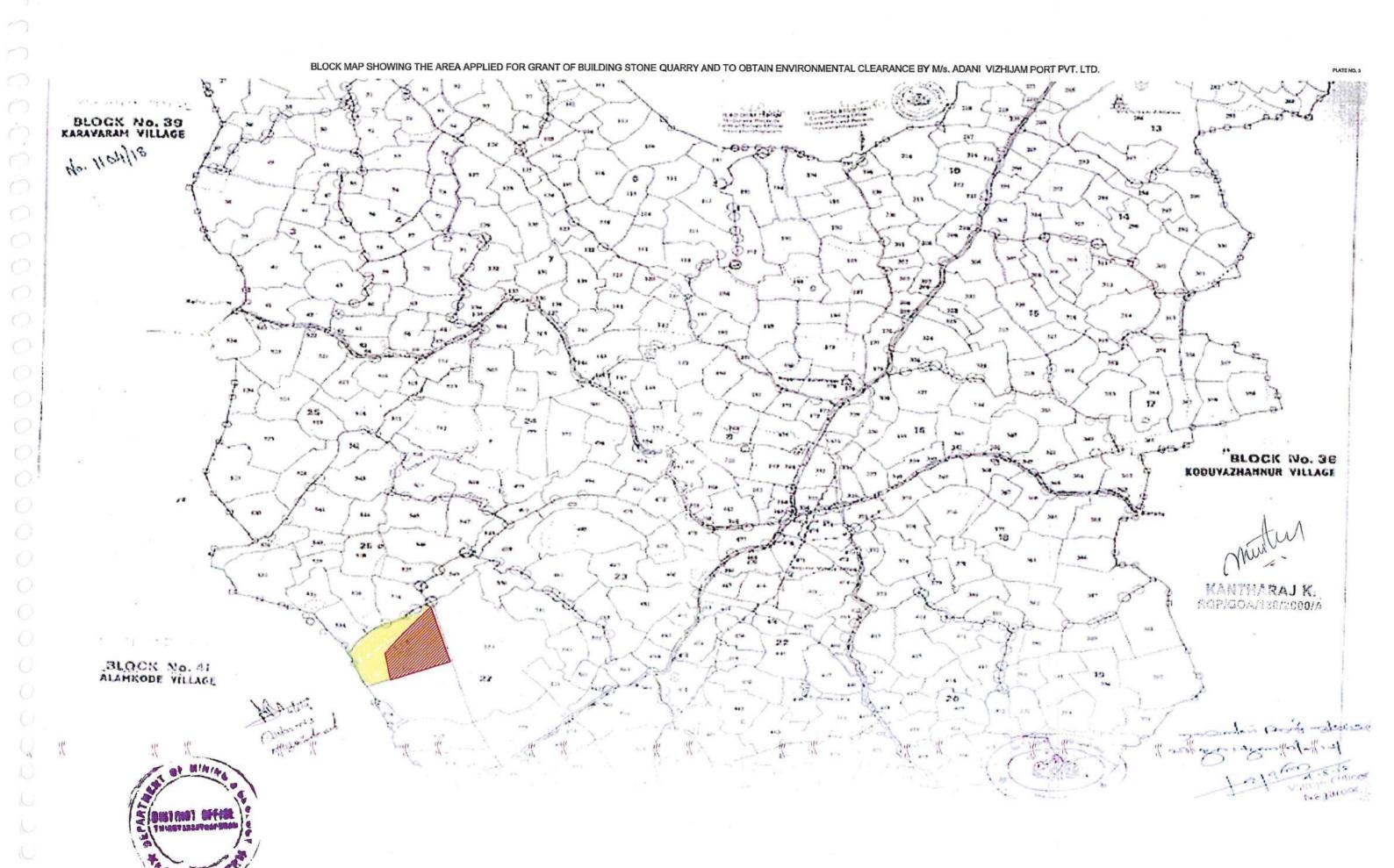


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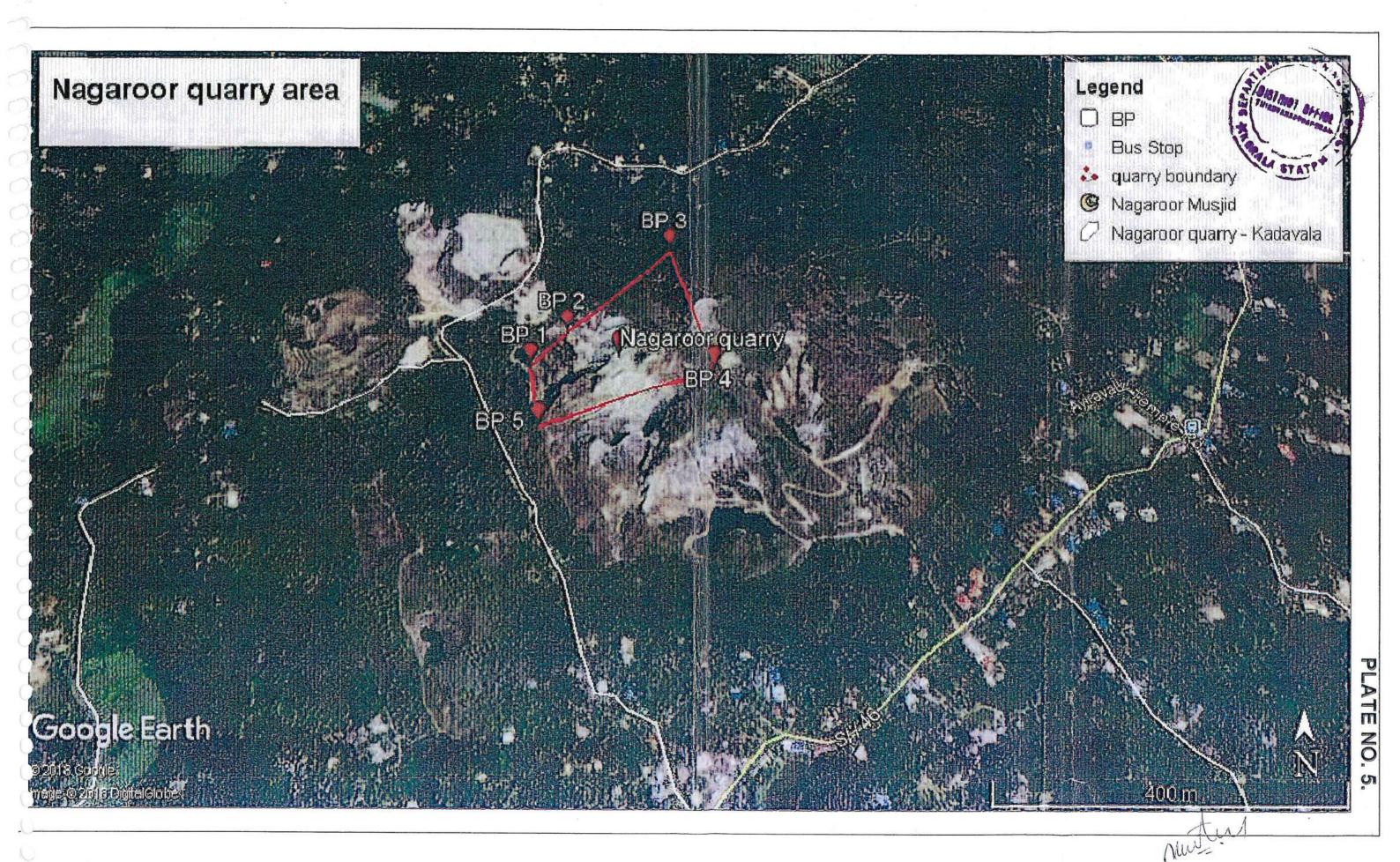
89/9590/1876 MAP-NAGARDOR VILLAGE (PROPOSED QUARRY OF M/SC. E. O ADANI VIZHINJAM PORT PVI. LID THIRUVANANTHAPURAM 560 FILE NO: 554/7 MECEO ABANI VIZHINIAM PORT PALLAL ചനനാനുമതിക്കായി ആവശ്യപ്പെടുന്നസ്ഥലത്തിൽ മുൻപ് ഏകദേശം 26 M താഴ്ചയിൽ ഖനനം ചെയ്തതായി കാനെപ്പെടുന്ന സ്ഥലം,വിസ്തീർണ്ണം ≈ Lasta H. . ഖനനാനുമതിയ്ക്കായി ആവശ്യപ്പെടുന്ന സ്ഥലത്തിന്നു പുറത്ത് ഖനനം ചെയ്തു കാണുന്ന സ്ഥലം വിസ്തീർണ്ണം= 443-48 H സ്ഥാപിച്ചിട്ടുള്ള സ്റോഷനുകൾ 554/6 GoveLand : 555/2 Lease Area =3.6630Ha ൂ 2] ചനനാനുമതിക്കായി ആവശ്യക്യെടുന്നസ്ഥലത്തിൽ മുൻപ് ഏകദേശം 12 M താഴ്ചയിൽ ഖനനം ചേയ്തതായി കാണപ്പെടുന്ന സ്ഥലം, വിസ്തീർണ്ണം പ്രദേഷ 554/5 GovcLand Scale Icm =20 m ു ചെനനാനുമതിക്കായി ആവശ്യപ്പെടുന്നസ്ഥലത്തിൽ മുൻപ് ഏകദേശം േ M ച താഴ്ചയിൽ ഖനനം ചെയ്തതായി കാണപ്പെടുന്ന സ്ഥലം, വിസ്ത്വർണ്ണം പോഷ H Re Sy No. റീസർവെ 555/2 ൽ വനനാനമതിക്കായി. ആവശ്യപ്പെടുന്ന സ്ഥലത്തിന്റെ ചുറ്റുമുള്ള ബഫർ എരിയ ര.588 ങ ആവശ്യമപ്പിടുന്ന സ്ഥലം റീസർഐ 555/2 ൽ ഖനനാനുമതിക്കായി ആവശ്യക്യേടുന്ന സ്ഥല 549 റീ സർവ്വെ ടട്ട്/2 ൽ ഖനനാനുമതിക്കായി ആവശ്യപ്പെടുന്ന റീസർവ്യെ 555/2 ന്റെ ആകെ വിസ്തീർണ്ണം 48879 Ha 555/B GaveLand പാറ മാർക്ക് കാണുന്ന സ്റ്റേഷനുകൾ റീസർവെ ടടേ/2 ൽ ഖനനാനമതിക്കാ ഖനനസ്ഥലത്തിലേക്കുള്ള വഴി പരിസമ പ്രദേശത്തുള്ള വീട് CHIRAYINKEEZH പഞ്ചൊയത്ത് രോഡ് NAGAROOR BLOCK No VILLAGE DISTRICT TALUK 11 Will William 1

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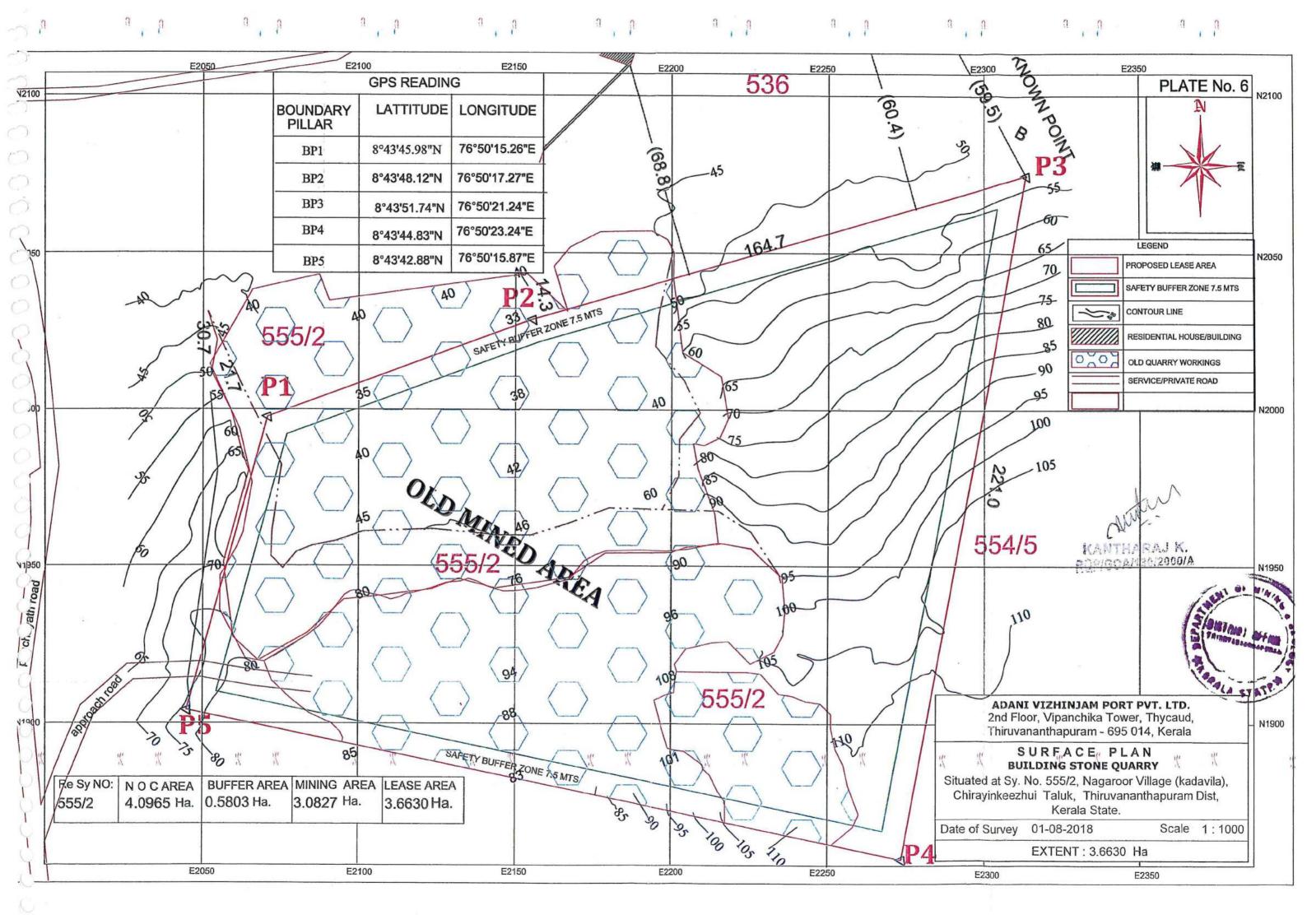
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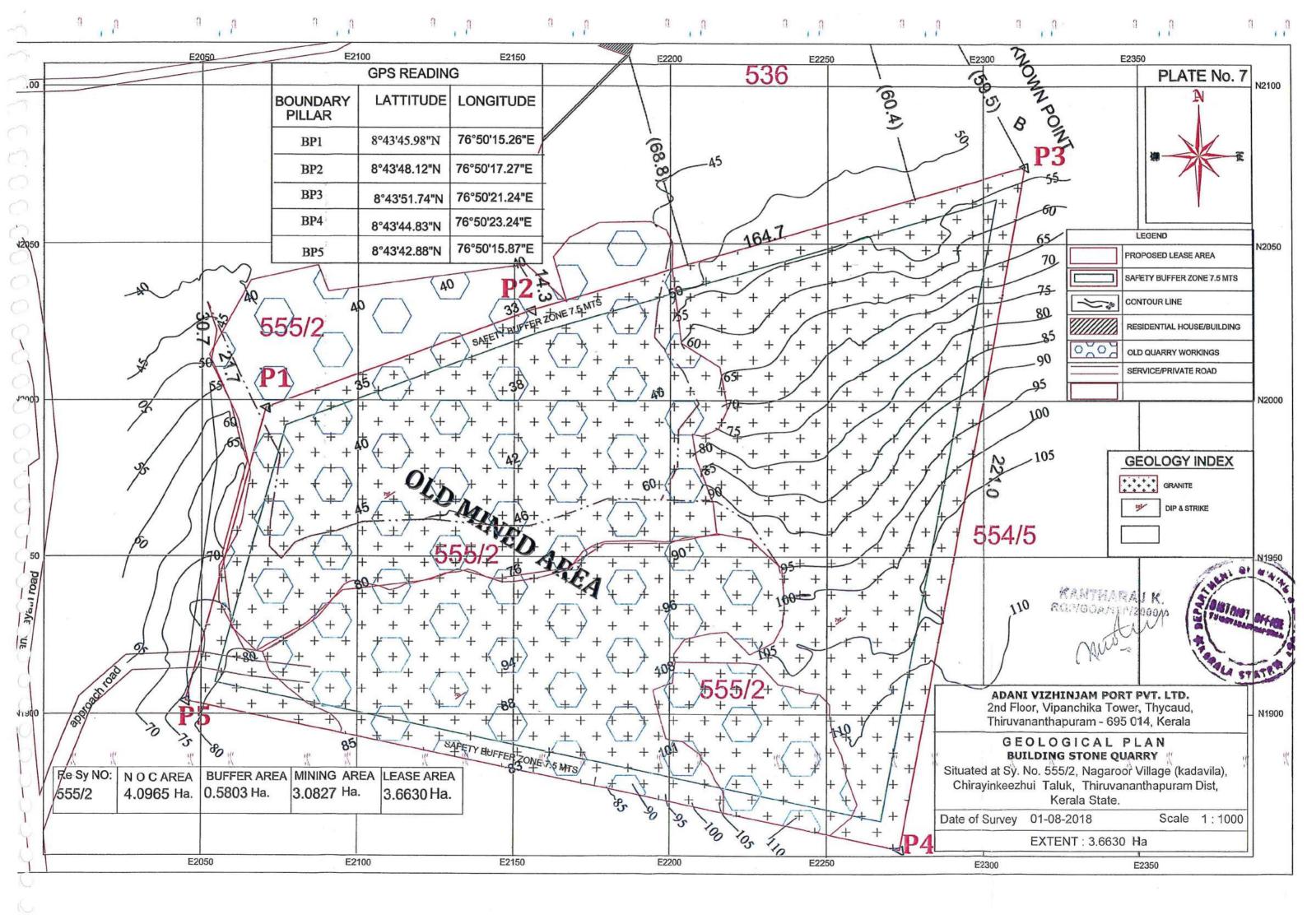
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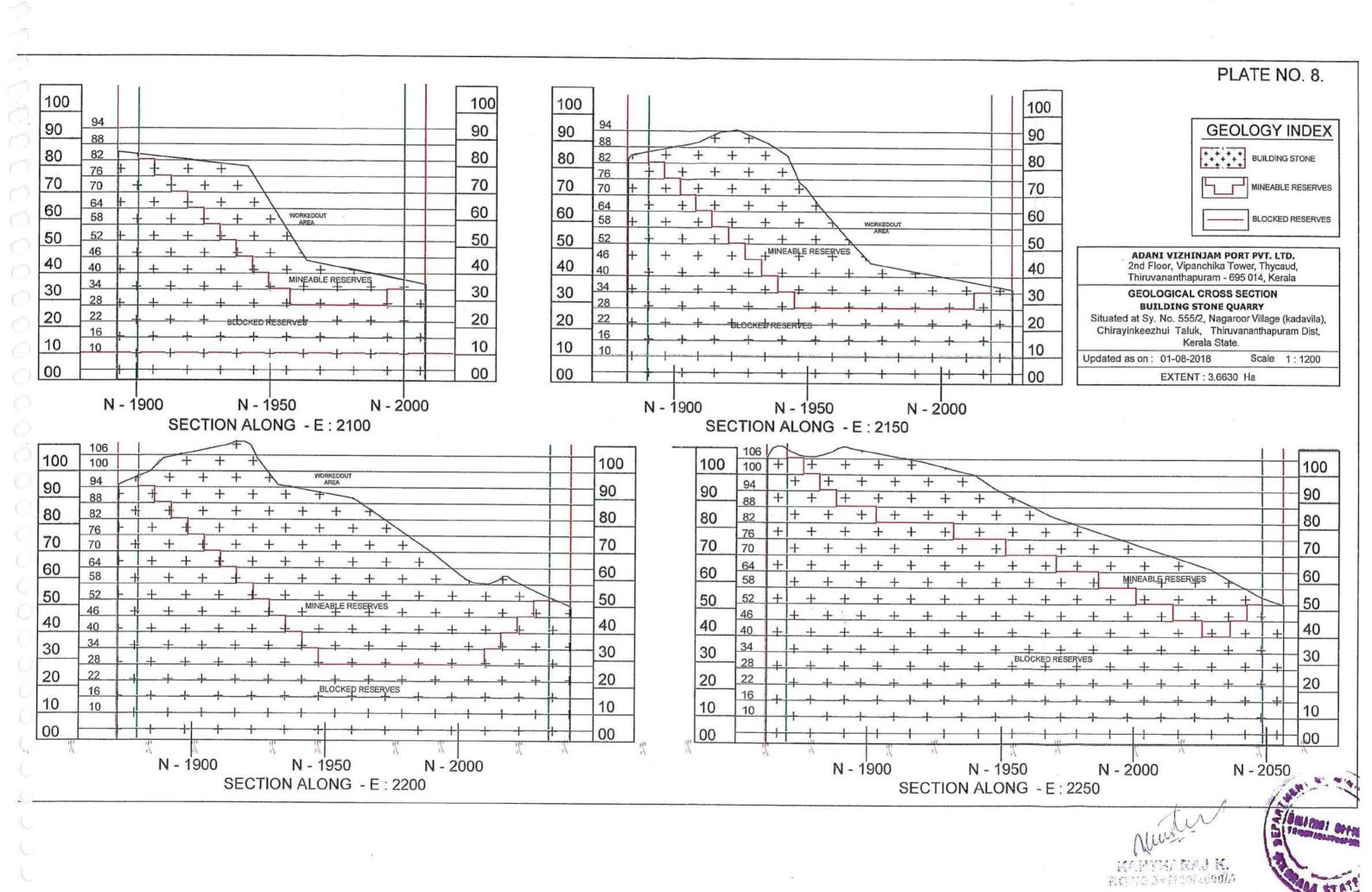
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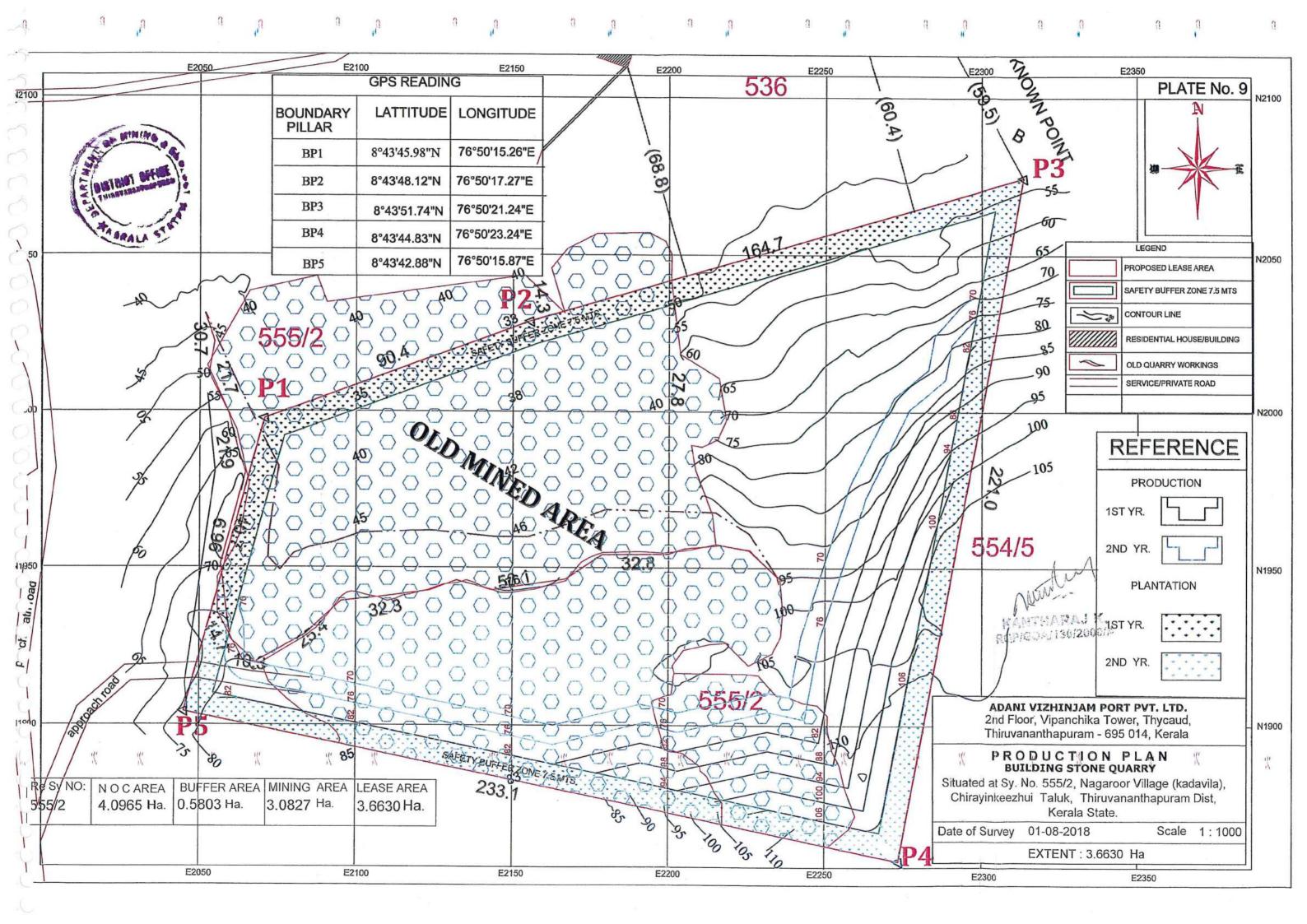


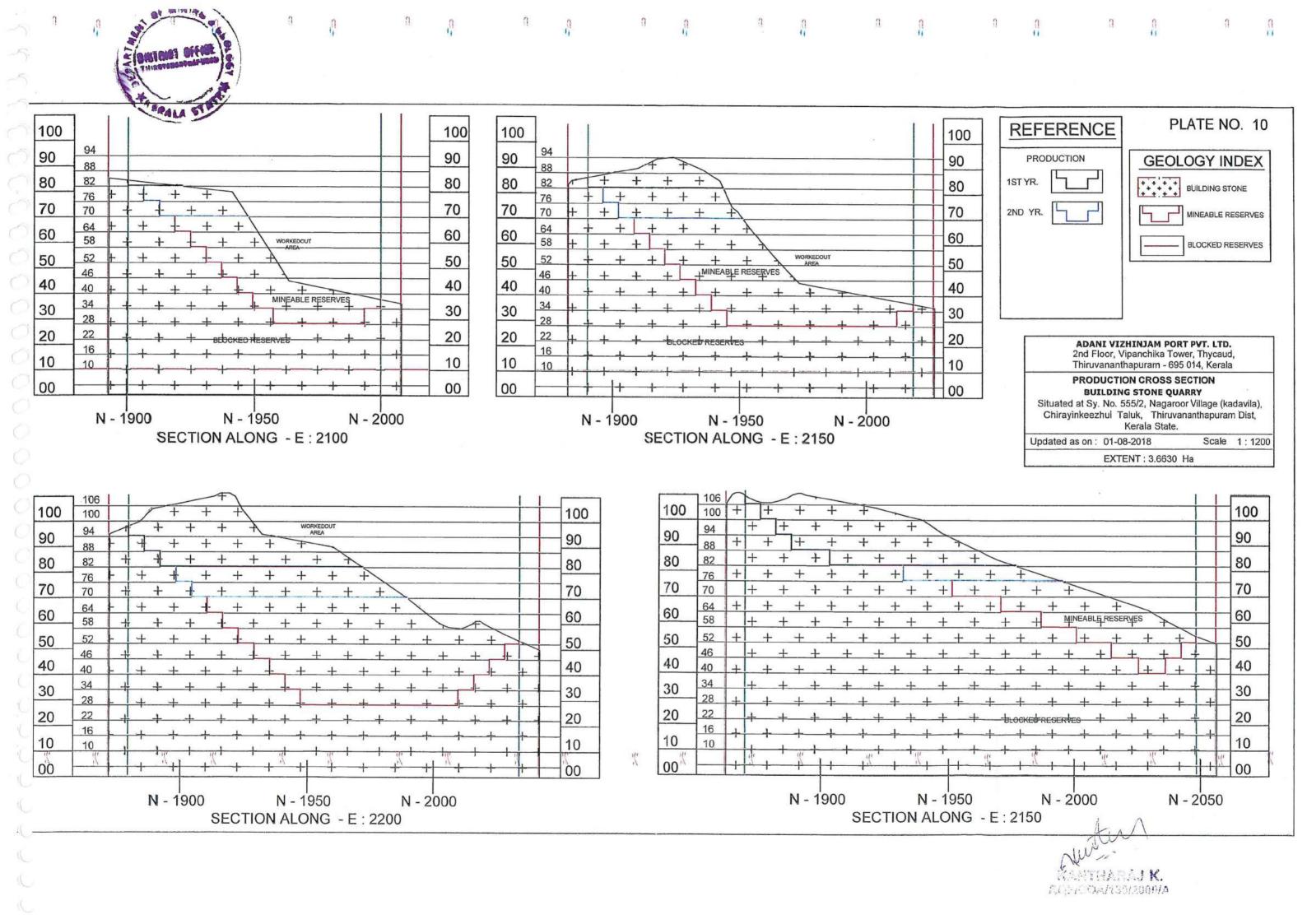
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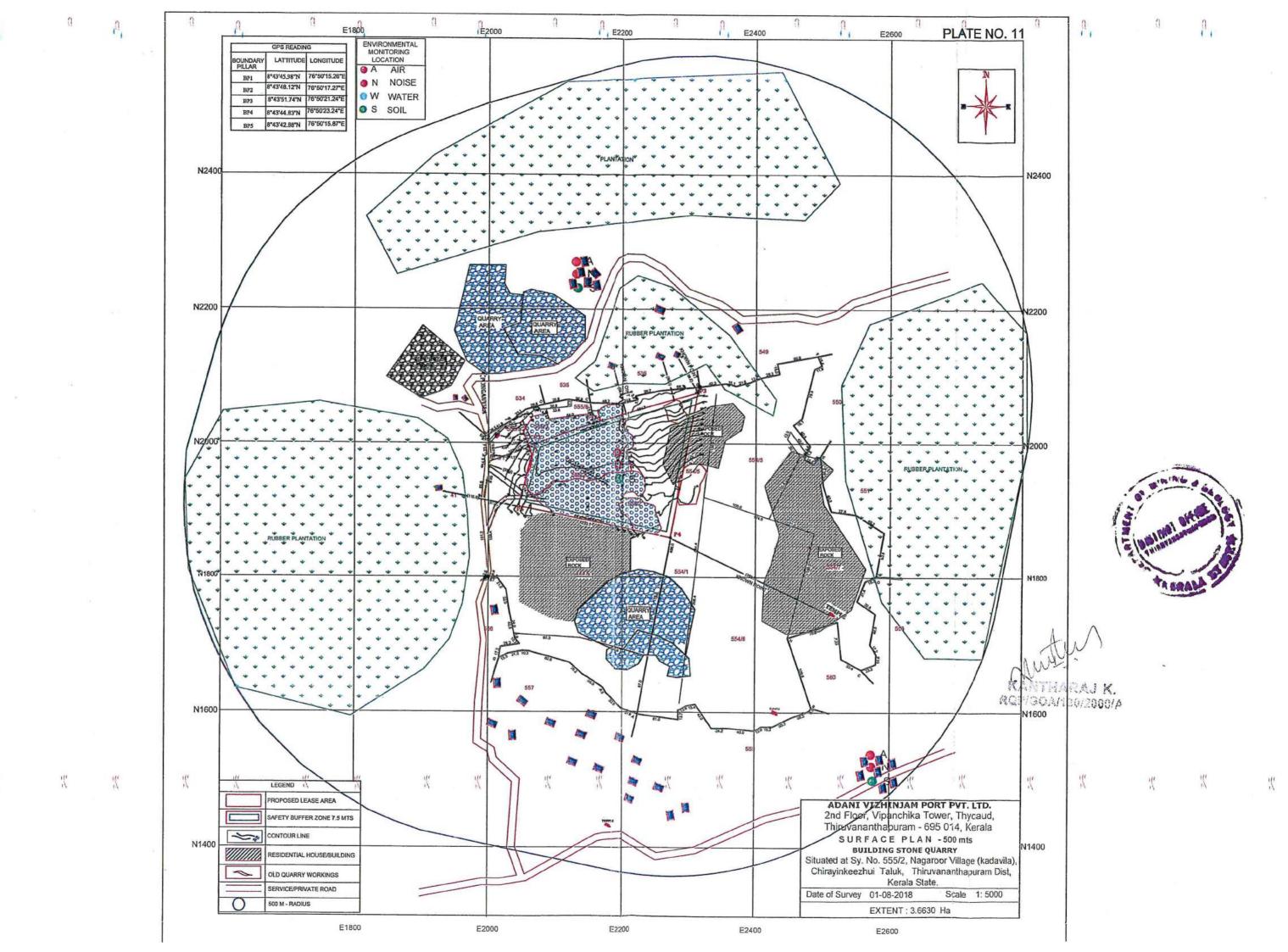


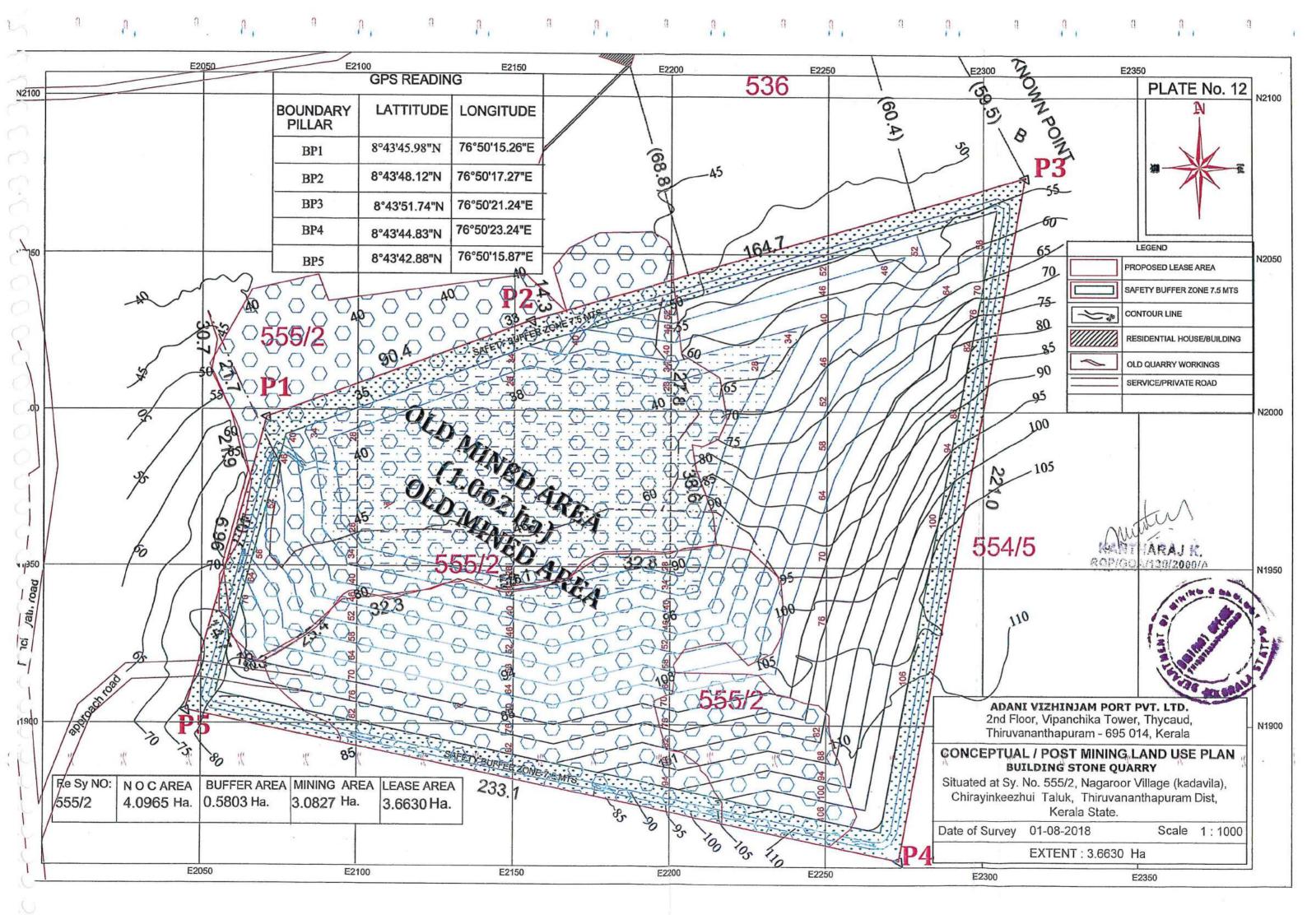


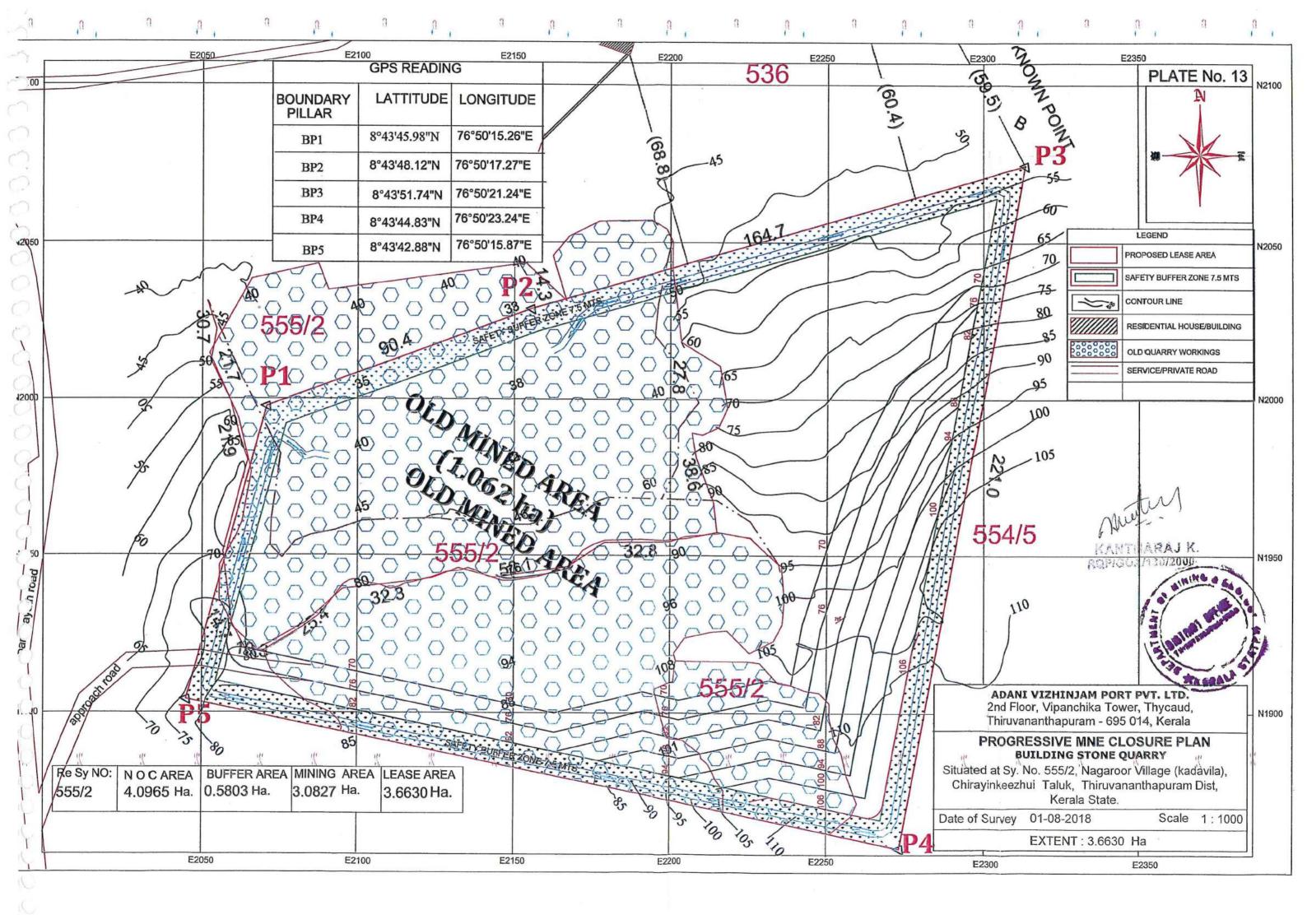


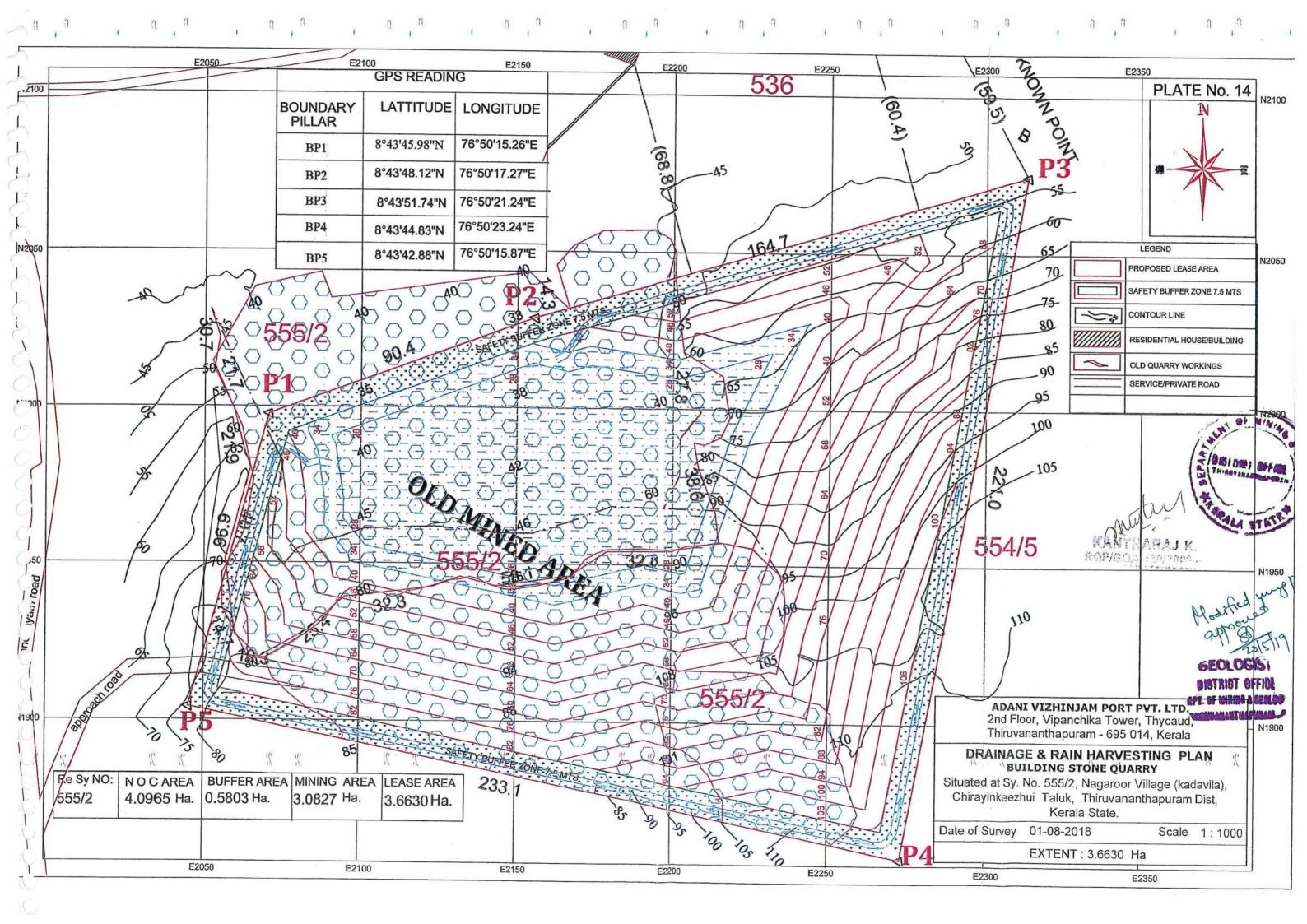


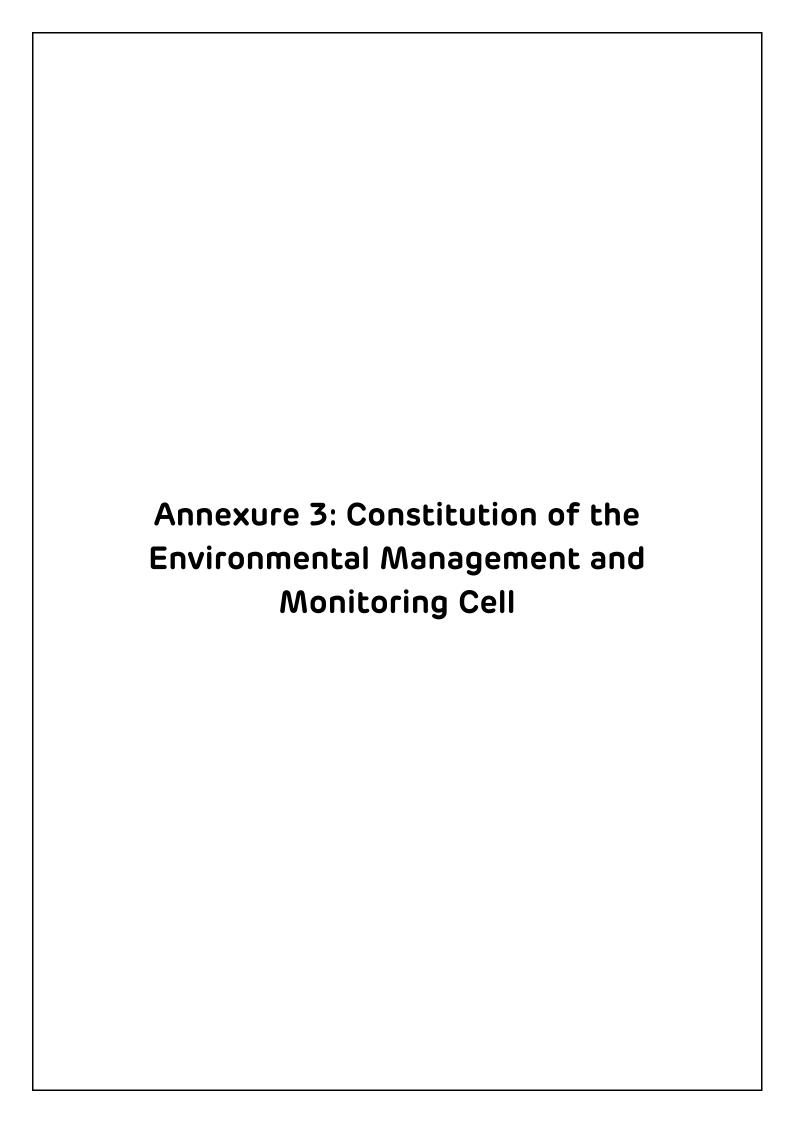












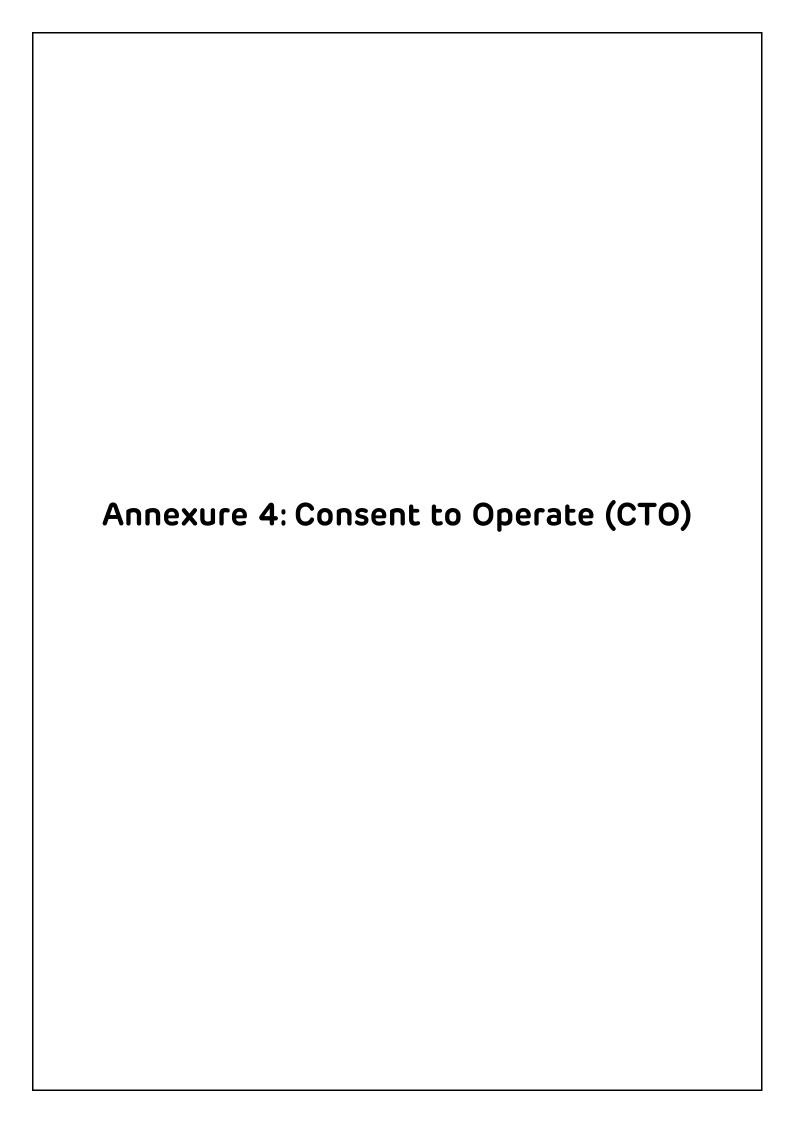
Constitution of the Environmental Management and Monitoring Cell

As per the Environmental Clearance granted for Building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, General Conditions Point No. 1 States that: a separate environmental management and monitoring cell with qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.

Therefore, an environmental management and monitoring cell was constituted by Adani Vizhinjam Port Pvt. Ltd. (AVPPL) with the following members:

- 1. Mr. Hebin C. (Committee In-Charge)
- 2. Mr. P. kumar (Mine Manger)
- 3. Mr. Saravanan (Asst. Mine Manager)
- 4. Mr. Athul Gopal (Mining Team)
- 5. Mr. Vaddi Venkat (Techno-Commercial Team)
- 6. Mr. Nilanjan Battacharya (Finance Team)
- 7. Mr. Manoranjan Tripathy (Projects Team)
- 8. Dr. Anil Balakrishnan (CSR Team)
- 9. Mr. Jesse Fullonton (Environment team)
- 10. Mr. Kanwar Malik (Horticulture Team)

Meeting of the environmental management and monitoring cell will be held once a month in the Conference room of AVPPL at Second Floor, Vipanchika Tower, Thycaud, Trivandrum, Kerala-695 014.



FILE NO: PCB/TVM-DO/ICE/10171298/2019

Date of issue: 05/03/2019



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. :10171298 Dated:02-03-2019

TO

M/s BUILDING STONE QUERY OF ADANI VIZHINJAM PORT PRIVATE LIMITED
Nagaroor Village
CHIRAYINKEEZHU

Consent No.: PCB/TVM-DO/ICO/QRY/103/2019

Valid Upto :27/02/2021

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	27/02/2021
2	Name and Address of the establishment	BUILDING STONE QUERY OF ADANI VIZHINJAM PORT PRIVATE LIMITED AT NAGAROOR VILLAGE 695601
3	Communication	Telephone :0-9099938893 Fax :079-25555602 E-mail:shalinm.shah@adani.com
4	Occupier Details	Rajesh Jha CEO Adani Vizhinjam Port Private Limited Adani House, Near Mithakhali Six Roads, Navrangpura, Ahmedabad-380009
5	Local Body	Nagaroor Village, Chirayinkeez taluka, Thiruvanathapuram district
6	Survey Number	555/2
7	Village	Nagroor
8	Taluk	CHIRAYINKEEZHU
9	District	THIRUVANANTHAPURAM
10	Capital Investment(Rs in Lakhs)	750 LAKHS
11	Scale	Medium
12	Category	RED
13	Annual fee(Rs)	Rs.60000/-
	Total Fee remitted(Rs)	Rs.125000/-
14	RAW MATERIAL	PRODUCTS
	Stones Quarrying	Quarrying of maximum 7 Lakh tons of building stone with in 2 year
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: NIL
- 2.3 Effluent generation:

2.4	The characteristics of	r cei a ca a a	4 1 11 6"	4 41 C 11 '	, 1 1' ',

SI.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:

SI.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:

SI.No.	Hazardous Waste	S	chedule 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 Quarrying is restricted to the land bearing Sy nos: 555/2
- 5.2 This consent is granted subject to the power of the Board to review and make variations in all or any of the conditions as per section 21 of the Air (Prevention and Control of Pollution) Act 1981 and section 25 of the Water (Prevention and Control of pollution) Act 1974.
- 5.3 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.
- 5.4 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 50 m from the nearby residential buildings, places of worship, public buildings, public road having vehicular traffic, river or lake, railway line and bridges.
- 5.5 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.
- 5.6 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 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.
- 5.8 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 PM 10 in ambient air at the boundary shall not exceed 100 microg/m3
- b) The PM 2.5 in ambient air at 1m outside the boundary shall not exceed 60 microg/m3.
- 5.11 The sound level measured at 1.0 m outside the boundary shall not exceed the limit as per the Ambient Air Quality Standards in respect of Noise.
- 5.12 The operation of the unit shall be commenced/done only after obtaining clearances from all concerned authorities.
- 5.13 The quarry shall be operated only from 6am to 6pm.
- 5.14 Quarrying shall be limited to a maximum of 7 Lakh tons of building stone with in 2 year.
- 5.14 For renewal of the consent in case of continuance of operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board http://krocmms.nic.infor renewing the Consent on or before two month in advance to expiry date. Late application will be accepted with 10% (for application before expiry date) & 50% of yearly fee as late fee for application after due date.
- 5.15 This Consent is granted on the basis of minutes of the State Environment Impact Assessment Authority (SEIAA) Kerala Held on 27/02/2019 (Item No:89.02), Affidavit and other documents furnished by the applicant. If any document is found false, the consent issued will be cancelled/revoked.
- 5.16 The Environmental Clearance shall be submitted to this Office with in ten days, failing which the consent will be automatically cancelled.

DATE:05/03/2019

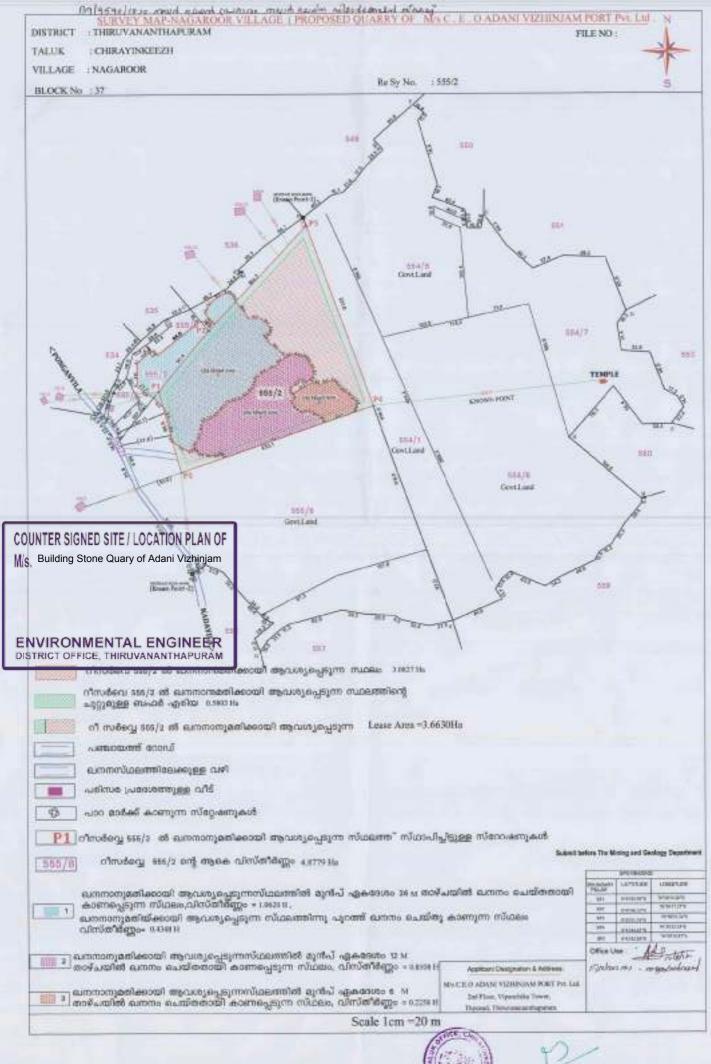
SIGNATURE & SEAL OF ISSUING AUTHORITY ENVIRONMENTAL ENGINEER, DISTRICT OFFICE, THIRUVANANTHAPURAM



To

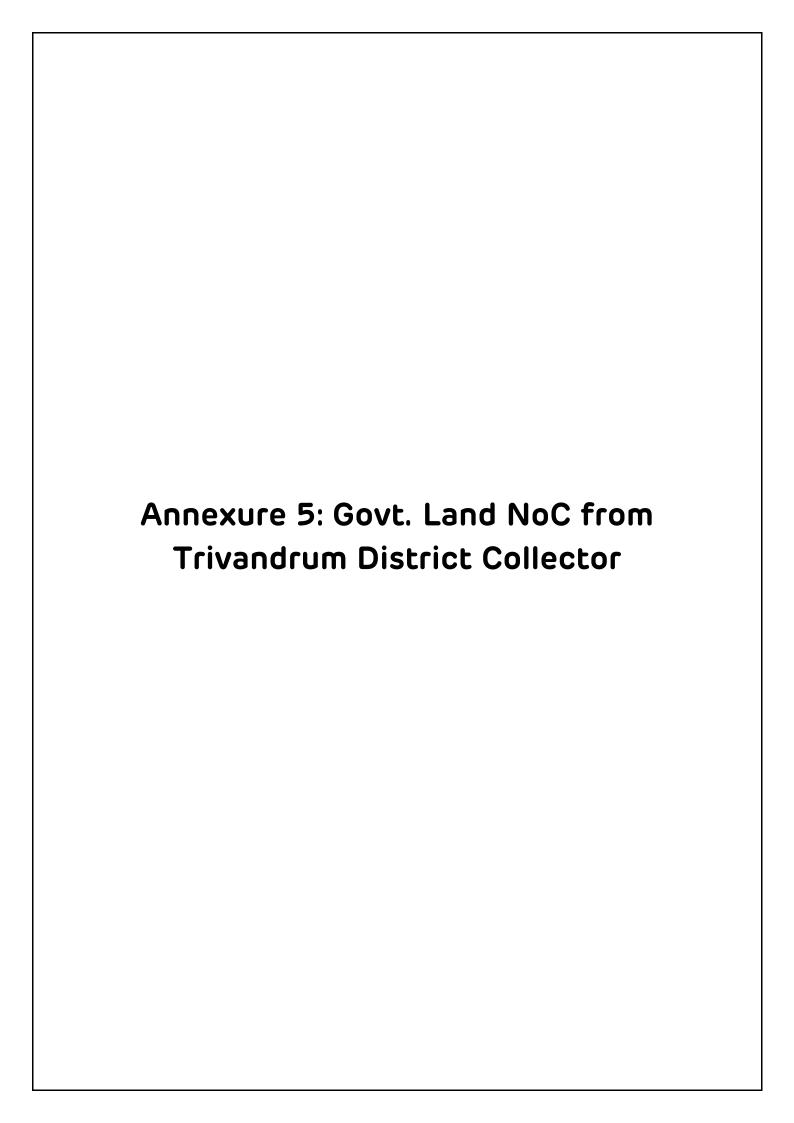
Building Stone Query of ADANI VIZHINJAM PORT PRIVATE LIMITED AT Nagaroor Village

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









നം. ബീ7-40269/2017

കളക്ടറേറ്റ്, സിവിൽ സ്റ്റേഷൻ, കടപ്പനക്കുന്ന്, തിരുവനന്തപുരം,

തിയതി: 30-04-2018.

നിരാക്ഷേപ സാക്ഷ്യപത്രം.

തിരുവനന്തപുരം ജില്ലയിൽ ചിറയിൻകീഴ് താലൂക്കിൽ നഗത്രർ വില്ലേജിൽ ബ്ലോക്ക് നമ്പർ 37-ൽ റീസർവ്വെ 555/2-ൽ ഉൾപ്പെട്ട സർക്കാർ പാറ ലീസിന് എടുത്ത് ഖനനം ചെയ്യന്നതിന് NOC അനുവദിയ്യന്നതിലേയ്യായി ശ്രീ. വിഷ്ണ ജി. നായർ, ശ്രീ. ദേവദാസ്. ശ്രി. രഞ്ജിത് ഭാസി, സതേൺ മൈൻസ് & മിനറൽസ്, M/s ബികോൺസ് ലിമിറ്റഡ് എന്നിവർ അപേക്ഷ സമർപ്പിച്ചിട്ടുള്ളതാണ്. എന്നാൽ വിഴിഞ്ഞം ഇറമുഖ നിർമ്മാണത്തിന് ആവശ്യമായ പാറയും പാറ ഉല്പന്നങ്ങളം ലഭ്യമല്ലാത്ത സാഹചര്യത്തിൽ ടി പാറ ഖനനം ചെയ്യന്നതിന് NOC യ്കായി ശ്രീ. സുഷിൻ നായർ, ഹെഡ് കോർപ്പറേറ്റ് അഫയേഴ്ക്, അദാനി 16-03-2018-ൽ AVPPL/Gok/2018-19/398 നമ്പർ കത്ത് പ്രകാരം അപേക്ഷ സമർപ്പിച്ചിട്ടുള്ളതാണ്. വിഴിഞ്ഞം തുറമുഖ നിർമ്മാണത്തിനായി പാറ ഖനനം ചെയ്യന്നതിന് NOC അനുവദിയ്യുന്നതിനായി 20-04-2018-ലെ VISL/2015-16/EE & E1-4/83-ാം നമ്പർ കത്ത് മുഖേന വിഴിഞ്ഞം ഇന്റർനാഷണൽ സീ പോർട്ട് ലിമിറ്റഡ് മാനേജിംഗ് ഡയറകൾ & ചീഫ് എക്സിക്യൂട്ടീവ് ഓഫീസർ ശുപാർശ ചെയ്യിട്ടുള്ളതാണ്. അദാനി വിഴിഞ്ഞം പോർട്സ് പ്രൈവറ്റ് ലിമിറ്റഡിന് പാറ ലഭ്യമാക്കുന്നതിന് ആവശ്യമായ നടപടികൾ സ്വീകരിക്കുവാൻ 23-04-2018-ലെ 91/E1/2017/F&PD നമ്പർ കത്ത് പ്രകാരം ഫിഷറീസ് & പോർട്ട്സ് (ഇ) വകപ്പിന്റെ നിർദ്ദേശവും ലഭിച്ചിട്ടുള്ളതാണ്. ഈ സാഹചര്യത്തിൽ നഗത്രർ വില്ലേജിലെ ബ്ലോക്ക് 37-ൽ റീസർവ്വെ 555/2 -ൽ ഉൾപ്പെട്ട 4.9065 ഹെകൂർ പ്രദേശത്തെ സർക്കാർ പാറ ച്ചവടെ ചേർത്തിരിക്കുന്ന നിബന്ധനകൾക്ക് വിധേയമായി നിയമാനുസ്തമായി ഖനനം ചെയ്യുന്നതിന് ചീഫ് എക്സിക്യൂട്ടീവ് ഓഫീസർ, അദാനി വിഴിഞ്ഞം പോർട്സ് പ്രൈവറ്റ് ലിമിറ്റഡിന് നിരാഷേഷപ സാക്ഷ്യപത്രം അനുവദിക്കുന്നു

നിബന്ധനകൾ

 ഈ NOC പ്രകാരം ഖനനം ചെയ്യുന്ന പാറ വിഴിഞ്ഞം ഇറമുഖ നിർമ്മാണത്തിന് മാത്രം വിനിയോഗിക്കേണ്ടതാണ്, ഖനനം ചെയ്യുന്ന പാറ വിപണനം ചെയ്യാൻ പാട്ടള്ളതല്ല.

- NOC അനുവദിച്ച തീയതി മുതൽ 6 മാസത്തിനുള്ളിൽ പാരിസ്ഥിതിക അനുമതി നേടിയിരിക്കേണ്ടതാണ്.
- സർക്കാരിന്റെയോ മറ്റ് പൊഇവായ ആവശ്യങ്ങൾക്കോ സർക്കാർ/ജില്ലാ ഭരണ കൂടം നിശ്ചയിക്കുന്ന നിരക്കിൽ പാറയും പാറ ഉത് പ്പന്നങ്ങളം നല്ലേണ്ടതാണ്.
- NOC അനുവദിച്ച തീയതി മുതൽ രണ്ട് വർഷത്തിനുള്ളിൽ ഖനനം ചെയ്യുന്ന പ്രവർത്തനങ്ങൾ ആരംഭിച്ചിട്ടില്ലെങ്കിൽ ഈ NOC അസാധുവാകുന്നതാണ്.
- ഖനന പ്രവർത്തനങ്ങൾ അദാനി ഗ്രൂപ്പിന്റെ നേരിട്ടുള്ള നിയന്ത്രണത്തിൽ ആയിരിക്കേണ്ടതും മറ്റുള്ളവർ മുഖേന നടത്തുവാൻ പാടില്ലാത്തതുമാണ്.
- 6) പാരീസ്ഥിതിക അനുമതിയും നിയമപരമായ ആവശുമുള്ള മറ്റ് എല്ലാ അനുമതിയും നേടിയ ശേഷം മാത്രമേ ഖനനം ആരംഭിക്കാൻ പാടുള്ളൂ
- 2015-ലെ കെ.എം.എം.സി ചട്ടങ്ങളിലെയും 1957-ലെ കെ. എൽ.സി ആക്ടിലെയും വ്യവസ്ഥകൾ കർശനമായി പാലിക്കേണ്ടതാണ്.
- പാറ ഖനനം നടത്തുന്ന പ്രവർത്തികായി നിയോഗിക്കുന്ന ജോലിക്കാരുടെ വിവരങ്ങൾ അടങ്ങിയ ഒരു രജിസ്റ്റർ സൂക്ഷിക്കേണ്ടതാണ്.
- എക്സ് പ്ലോസീവ് ആക്ക് പ്രകാരമുള്ള നിബന്ധനകൾ കർശനമായി പാലിക്കേണ്ടതും മറ്റ് അടിസ്ഥാന സൗകര്യങ്ങൾ ടി സ്ഥലത്ത് ലഭ്യമാക്കേണ്ടതുമാണ്.
- 10) ഖനനം നിമിത്തം ഉണ്ടാകുന്ന കഴികൾ മണ്ണിട്ട് മൂടി അപകടരഹിതമാക്കേണ്ടതും കമ്പി വേലി കെട്ടി സംരക്ഷിക്കേണ്ടത്രമാണ്.
- 11) നിരാക്ഷേപ സാക്ഷ്യ പത്രത്തിന്റെ കാലാവധി മൈനിംഗ് & ജിയോളജി വകപ്പ് ലീസ് നൽകന്ന തീയതി മുതൽ 10 വർഷത്തേയ്ക്കോ, വിഴിഞ്ഞം പദ്ധതിയുടെ നിർമ്മാണ പ്രവർത്തനങ്ങൾ തീരുന്നത് വരെയോ ഏതാണോ ആദ്യം അതുവരെയായിരിക്കുന്നതാണ്.
- 12) തഹസിൽദാർ അംഗീകരിച്ച് നൽകുന്ന സ്കെച്ച് പ്രകാരമുള്ള ഭൂമിയിൽ മാത്രമേ ഖനനം നടത്താൻ പാടുള്ള

13) പ്രസ്തൃത സ്ഥലം പാറ ഖനനത്തിന് അനുയോജ്യമല്ലായെന്ന് മൈനിംഗ് 3 ലിയോളജി ഡയറക്ടർക്ക് ബോദ്ധ്യപ്പെടുകയാണെങ്കിൽ ഈ നിരാക്ഷേപ സാക്ഷ്യപത്രം പ്രാബല്യത്തിൽ വരുന്നതല്ലു.

മേൽ വിവരിച്ച നിബന്ധനകൾ ലംഘിക്കപ്പെടുന്ന പക്ഷം ഈ നിരാക്ഷേപ സാക്ഷ്യപത്രം റദ്ദാക്കി തുടർനടപടികൾ സ്ഥീകരിക്കുന്നതായിരിക്കും

> (ഒപ്പ്) ജില്ലാ കളകൂർ

സികർത്താവ്

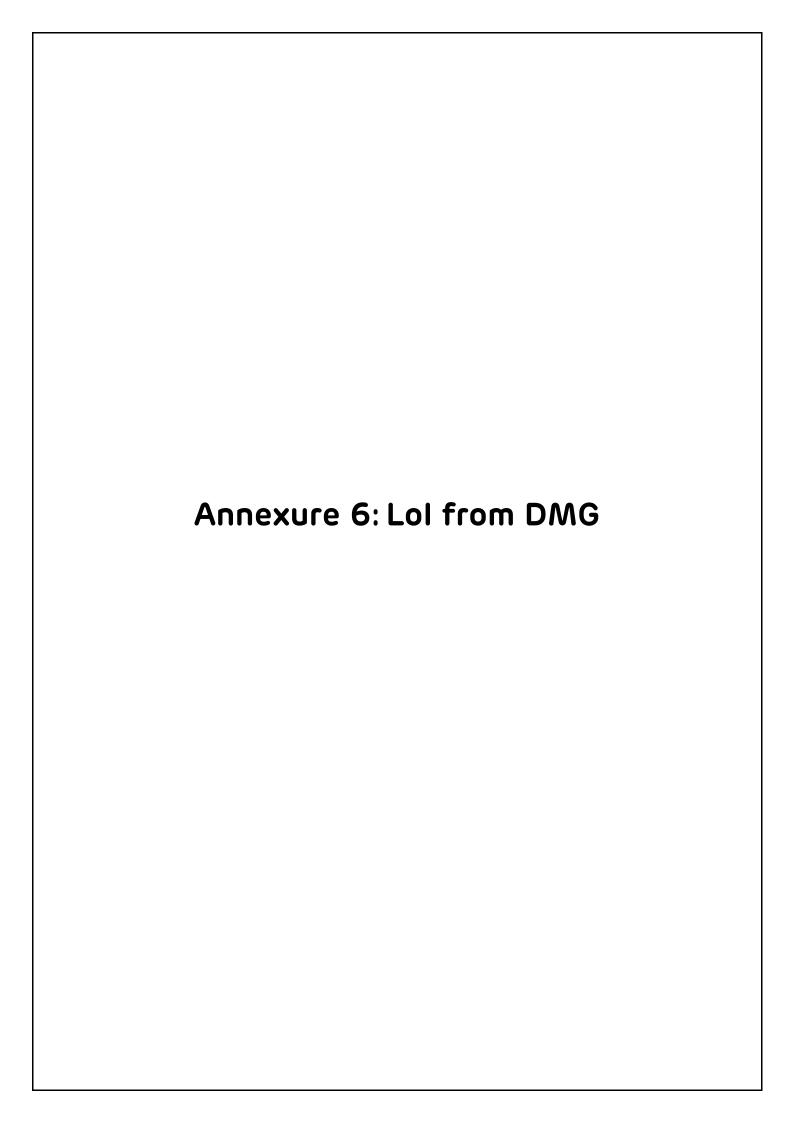
്യൂര് എക്ലിക്യൂട്ടീവ് ഓഫീസർ, അദാനി പോർട്സ് പ്രൈവറ്റ് ലിമിറ്റഡ്. പകർപ്പ്.

- ഗവൺമെന്റ് പ്രിൻസിപ്പൽ സെക്രട്ടറി.
 മത്സ്യബന്ധനവും ഇറമുഖവും (ഇ) വകപ്പ് (ആമുഖ കത്ത് സഹിതം)
- ഡയറക്ടർ, മൈനിംഗ് & ജിയോളജി, തിരുവനന്തപുരം.
- 3. തഹസിൽദാർ, നെടുക്കോട് ചിറകിൾ ക്കീഴ്
- 4. വില്ലേജ് ഓഫീസർ, ക്ലെഴനഗരുക
- 5. ജില്ലാ ജിയോളജിസ്റ്റ്, തിരുവനന്തപുരം
- 6. MD & CEO, VISL.

അംഗീകാരത്തോടെ

ഡെപ്യൂട്ടി കളച്ചർ (എൽ.ആർ)

2.7



No. 9363/M3/2018

Directorate of Mining & Geology Kesavadasapuram, Pattam Palace .P.O, Thiruvananthapuram - 4 Tel Fax: 0471 2447429

e-mail: director.dir.dmg@kerala.gov.in

From

The Director of Mining & Geology

To

M/s. Adani Vizhinjam Port Private Limited,

2nd Floor, Vipanchika Tower,

Thycaud, Thiruvananthapuram District – 695 014

(Registered Office at: Adani House, Near Mithakhali Six Roads,

Navrangpura, Ahmedabad, Gujrat State – 380 009)

(Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha)

Sir,

Subt- Mines and Minerals - Minor Mineral - Granite (Building Stone) -Application for quarrying lease under KMMC Rules 2015 - Letter of Intent - forwarding of- reg.

Ref:- 1. Your application for quarrying lease dated 13.06.2018.

 NOC No. B7-40269/2017 dt. 30.04.2018 issued by District Collector, Thiruvananthapuram.

 Letter No. 1716/DOT/ML/2018 dtd. 18/08/2018 of the Geologist, District Office, Thiruvananthapuram.

Kerala Minor Mineral Concession Rules 2015.

Please refer to the references cited above. As per the reference 1st cited, you have applied for a quarrying lease for a period of 10 years from this office for the extraction of granite building stone from an area of 3.6630 Hectares in Re-Survey Block No. 37, Re - Survey No. 555/2 of Nagaroor Village of Chiryinkeezhu Taluk of Thiruvananthapuram District [as shown in the Survey Map No. B9/9590/18 issued by Tahsildar, Chirayinkeezhu enclosed]. Vide reference cited 2 above, District Geologist, Thiruvananthapuram forwarded your application to this office with recommendations to issue Letter of Intent. On scrutiny of application and other documents received from the Geologist, it is seen that a quarrying lease can be granted to the precise area shown in the map under the provisions contained in the KMMC Rules 2015. However, for granting quarrying lease you have to produce following documents through District Geologist to the satisfaction of this office in accordance with the relevant statutes.

a

DOCUMENTS TO BE PRODUCED

苦生

 Mining plan approved by the District Geologist as stipulated in the KMMC Rules 2015, for the precise area as per the survey map.

Environmental Clearance as stipulated in EIA Notification 2006 for the precise area.

Consent to operate quarry from the Kerala State Pollution Control Board for the precise area.

 Explosive licence from the authorities concerned for appropriate quantity of explosives required for extraction of mineral as mentioned in the approved mining plan.

D & O Licence from the Local Self Government authorities concerned for operating quarry in the precise area.

In addition, you shall make arrangements for the survey and demarcation by errection of boundary pillars of the said area by the revenue authority not below the rank of a Tahsildar or Asst. Director of the Department of Survey and Land Records and shall produce a certificate in this regard issued by authorities concerned.

It is further informed that the duration of lease as well as annual production of mineral will be decided based on the approved mining plan and documents submitted.

It is also informed that as per the provisions contained in the KMMC Rules 2015 this letter of intent shall be sufficient for the purpose of issuing necessary licenses/consents/Clearances/NOCs etc. by the other statutory authorities concerned. In the event of granting of quarrying lease you may also need to produce new Possession & Enjoyment Certificate at the time of grant of quarrying lease.

It is further informed that this letter of intent is valid for a period of one year from the date of issue. In case you have any valid reason for seeking extension of period of this LOI, the same may be obtained before the expiry of this LOI. Your application for Quarrying Lease shall deemed to have been rejected, if you fail to produce above mentioned documents before the expiry of LOI.

Yours faithfully,

ADDITIONAL DIRECTOR OF MINING & GEOLOGY

Encl: Photocopy of Survey Map showing precise area

Copy to:-

1. The District Collector & Chairman, DEIAA, Thiruvananthapuram.

2. The Deputy Chief Controller of Explosives, CSEZ, CGO Complex, Kakkanad, Ernakulam

3. Kerala State Pollution Control Board, District Office, Thiruvananthapuram District.



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4. The Secretary, Nagaroor Grama Panchayath, Thiruvananthapuram District

For kind attention of statutory authorities

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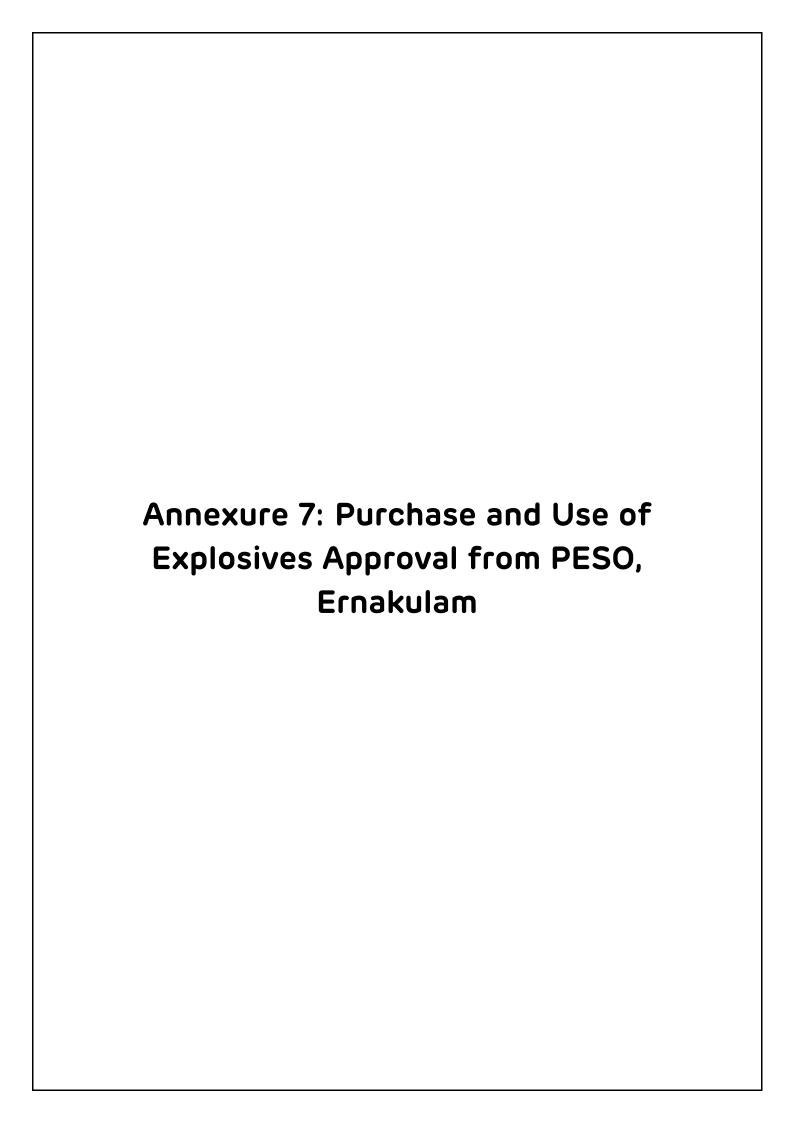
[The statutory authorities while issuing licence/consents/NOCs based on this letter of intent may refer this letter of intent in the respective licence/consent/
clearance/NOC while issuing the same. The statutory authorities may refer the survey map and consider the extent of applied area, quantity of mineral proposed to extract and the period of lease applied for while issuing such documents. The authorities may note that the operation as per their licence shall start only after execution and registration of quarrying lease granted by this office. All the Survey Nos./Re-Survey numbers with Block No. included in the survey map submitted in this connection shall be included in all the aforesaid documents.]

5. The Tahsildar, Taluk Office, Chirayinkeezhu

The Geologist, District Office, Thiruvananthapuram (The Geologist shall forward all the above said documents to this office for grant of quarrying lease with recommendations).









शास्त सरकार

Government of India

वाणिज्य और उदयोग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेंसो)

Petroleum & Explosives Safety Organisation (PESO)

केन्द्रीय भवन, ब्लाक सी-2, तीसरी मंजिल, CSEZ पी.ओ.कन्कानाड कोच्ची- 682037

Kendriya Bhavan, Block C-2, 3rd Floor, CGO Comple Kakkanad, Ernakulam – 682037

Phone: 0484-2427286/96 Fax: 0484-2427276

No.E/Misc/Expl

Date: 27.3.19

To

Shri. Rajesh Kumer Jha, CEO M/s Adani Vizhinjam Ports Pvt Ltd 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram

Sub:- Use of explosives in quarry situated at R.S.No.555/2, Negaroor Village, Chirayinkaezhu Taluk, Thiruvananthapuram District for building the break water structure for construction of deep water multipurpose port at Vizhinjam - regarding.

Ref

- Your letter No. Nil dated 25/03/2019.
- (2) Letter of Intent issued by Director of Mining & Geology, Thiruvananthapuram vide No. 9363/M3/2018 dated 4.9.18
- (3) Approval of Mining plan issued by the Geologist, Thiruvananthapuram District vide No.1716/DOT/ML/2018 dated 26.9.2018
- (4) Environmental clearance issued by SEIAA, Thiruvananthapuram vide No.02/2019 dated 1.3.19
- (5) NOC issued by District Magistrate, Thiruvananthapuram vide No.B7-40269/2017 dated 30.4.18
- (6) D&O licence issued by Nagaroor Gram Panchayath vide No.A2.1379/19 dated 11.3.19
- (7) Consent given by KSPCB vide File No.PCB/TVM-DO/ICE/10171298/2019 dated 5.3.19
- (8) Deed of Agreement dated 22.3.19 between you and Shri. Binu. V, Managing Partner, M/s Galaxy Rock Sand Industries, Vattakeitha House, Narickel P.O, Punalur, Kollam District.

Sir.

This has reference to your letter cited under ref (1) in regard to quarrying at R.S.No.555/2, Negaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District for supply of granite stones for break water construction at Vizhinjam Port Thiruvananthapuram District. On scrutiny of the documents submitted along with the above letter, it is noted that,

 Vide ref (2), the Director of Mining & Geology, Thiruvananthapuram vide No. 9363/M3/2018 dated 4.9.18 has issued the latter of Intent in your favour for the quarry situated at R.S.No.555/2, Negaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District and vide ref (3), Mining plan approved by the Geologist, Thiruvananthapuram District for the subject quarry vide NO.1716/DOT/ML/2018 dated 26.9.2018

- Vide ref (4), the State Environment Impact Assessment Authority, Thiruvananthapuram vide No.02/2019 dated 1.3.19 has issued the Environmental clearance in your favour for the quarry situated at R.S.No.555/2, Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District.
- Vide ref (5), the District Magistrate, Thiruvenanthapuram has issued the NOC to operate the quarry situated R.S.No.555/2, Nagaroor Village, Chirayinkeezhu, Taluk, Thiruvananthapuram District
- Vide ref (6), D&O licence issued by Nagaroor Gram Panchayath has issued the D&O licence in your favour vide No.A.1379/19 dated 11.3.19 for the subject quarry.
- Vide ref (7), the KSPCB has issued the consent to operate the subject quarry vide File No.PCB/TVM-DO/ICE/10171298/2019 dated 5.3.19
- 6. Vide ref (8), Shri. Binu. V, Managing Partner, M/s Galazy Rock Sand Industries, Vattakaitha House, Narickel P.O., Punalur, Kollam District has made an agreement with you to supply high explosives required for blasting operations at your subject quarry from his explosives magazine explosives required for blasting operations at your subject quarry from his explosives magazine situated at S.No.289/7, Koodal Village, Konni Taluk, Pathanamthitta District licensed in Form LE-situated at S.No.289/7, Koodal Village, Konni Taluk, Pathanamthitta District licensed in Form LE-3 of Explosives Rules, 2008 having licence No. E/SE/KL/25/37(E29016), Reg.No. KL 02 V 3900.

On scrutiny of documents it was observed that the D&O licence issued by Nagaroor Gram Panchayth is valid upto 31.3.2019. Hence you are requested to obtain a valid licence from them for further period as per rules.

It is also noted from your documents, you have employed Director General of Mines Safety, Bangalore, certified personnel viz., Shri. Palantveta Kumar, First Class Mines Manager, Shri. Rajesh Chandramappa Golsangi, First Class Mines Manager, Shri. Meril Jesudas. A, Second Class Mines Chandramappa Golsangi, First Class Mines Manager, Shri. Meril Jesudas. A, Second Class Mines Chandramappa Golsangi, First Class Mines Manager, Shri. Meril Jesudas. A, Second Class Mines Manager, Shri. Peddamailu Jaganmohan Raddy, Mines Foreman and Shri. Ayyappan. S, Mining Mate, for conducting blasting operations at your subject quarry site.

In view of the above, you are requested to approach the District Magistrate, Thiruvananthapuram District for getting permission in regard to purchase and transportation of the explosives from Shri. Blnu. V. Managing Partner. M/s Galaxy Rock Sand Industries, Vattakaitha House, Narickal P.O. Punalur, Kollam District, as per your deed of agreement vide ref (8) and submit the same in this office for taking necessary action.

On considering the construction of Vizhinjam Port as nation building measure, you are advised to submit application with relevant documents for obtaining licence in your favour in Form LE-3 for possess and use of explosives from an explosive megazine as per the provision of Explosives Rules, 2008.

Yours faithfully

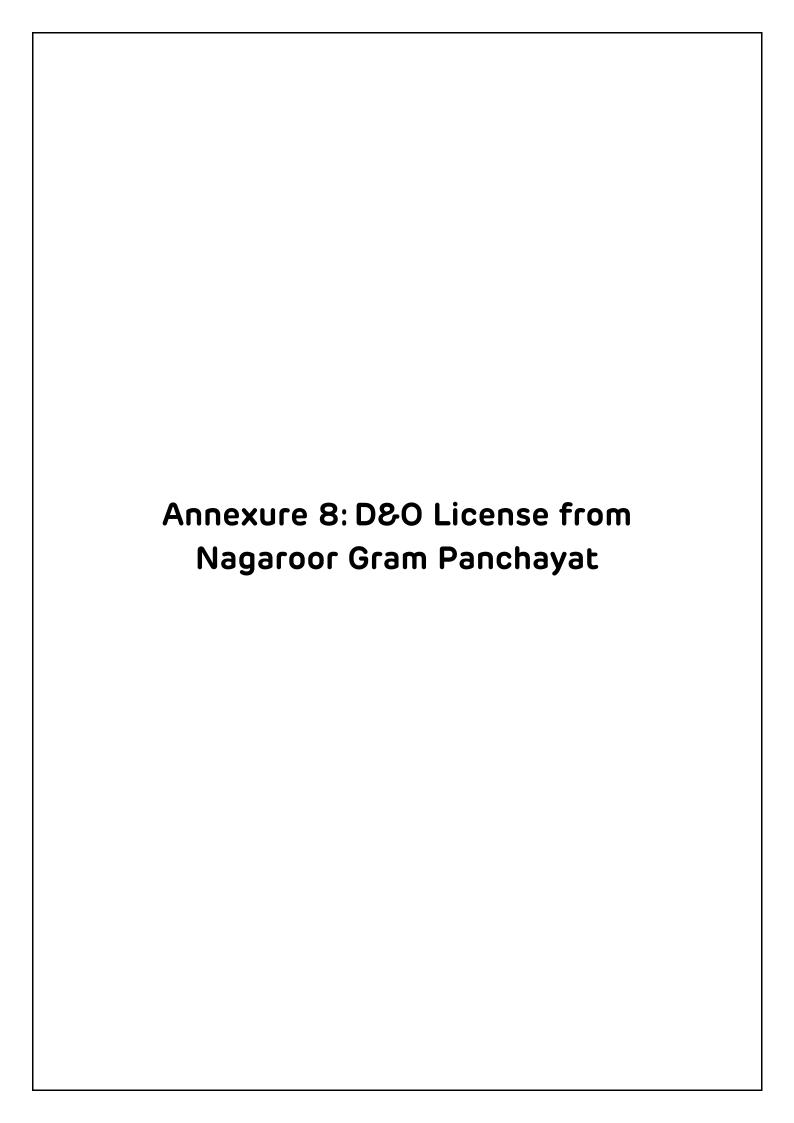
(S. KANDASAMY)-

Dy. controller of Explosives,
For Dy. Chief controller of Explosives,

For Deputy Chief Controller or Lugarences

The District Magistrate, Thiruvenenthapurem - For necessary action for permission in this regard.

For Dy. Chief controller of Explosives, Emakulam





** A2.1836 2019

m1001.04.2019

<u>സഗസൂർ</u> ഗ്രാമ പഞ്ചായത്തിൽ നിന്നും

1994 ലെ കേരളാ പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു നൽകുന്ന

ഡി & ഒ ലൈസൻസ്

	ഡ്രാ ഒ ലൈസന്ത്ര		
ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	എo.ഡി അതി. ഇ.ഒ പോർട്ട് പ്രിമിമസ്, 2 തെതൊട്ട്, തിരുവം	, അഭാനി വിട്രണോ ^{29ർ} പ്രോർ, വിപഞ്ചിക്യവർ	
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	അദാധി വുദ്രമ്പോര ഭേറായും ചെങ്കുവുള് ആദ്യമ്പ്		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	പാറ ഖനതര	നടത്തുന്നു	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡു നമ്പരും	555/2 OVADA	യയുന്ന വാഷ്ട്രവിൽ	
ലൈസൻസ് കാലയളവ്	01-04-2019 apres 31-03-2020 apres		
ഈടാക്കിയ മൈസൻസ് ഫീസ്	£10,000/- 010	118040106213 29-03-2019	
ലൈസൻസ് അനുവദിക്കു ന്നതിനായി ഹാജമാക്കിയ നിമാക്ഷേപ പത്രങ്ങളുടെ വിശഭാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽ കിയ അധികാരസ്ഥാനം)	QRY 1000 2019 mor. 0 2. のから 2000 mor. 0 2. のから 2000 mor. 0 2. のののののののののののののののののののののののののののののののののののの	வை PCB/TVM-DO/TCO/ N) ஆவு பருவிற்றவி 27.02.2021 வ பிரை இவ் 1200/6c2/2018/ விரைவை 1200/6c2/2018/ விரைவை வவரி திருவு வைறை வவரி திருவு குவு கேவை வர்க்குப் குவை குவு கேவை வர்க்குப் குவு கிரைக்கைய் வர்க்குப்கும்.	

1,

സന്തർ

BIJUKUMAR. M

GLM-30-Y-2014

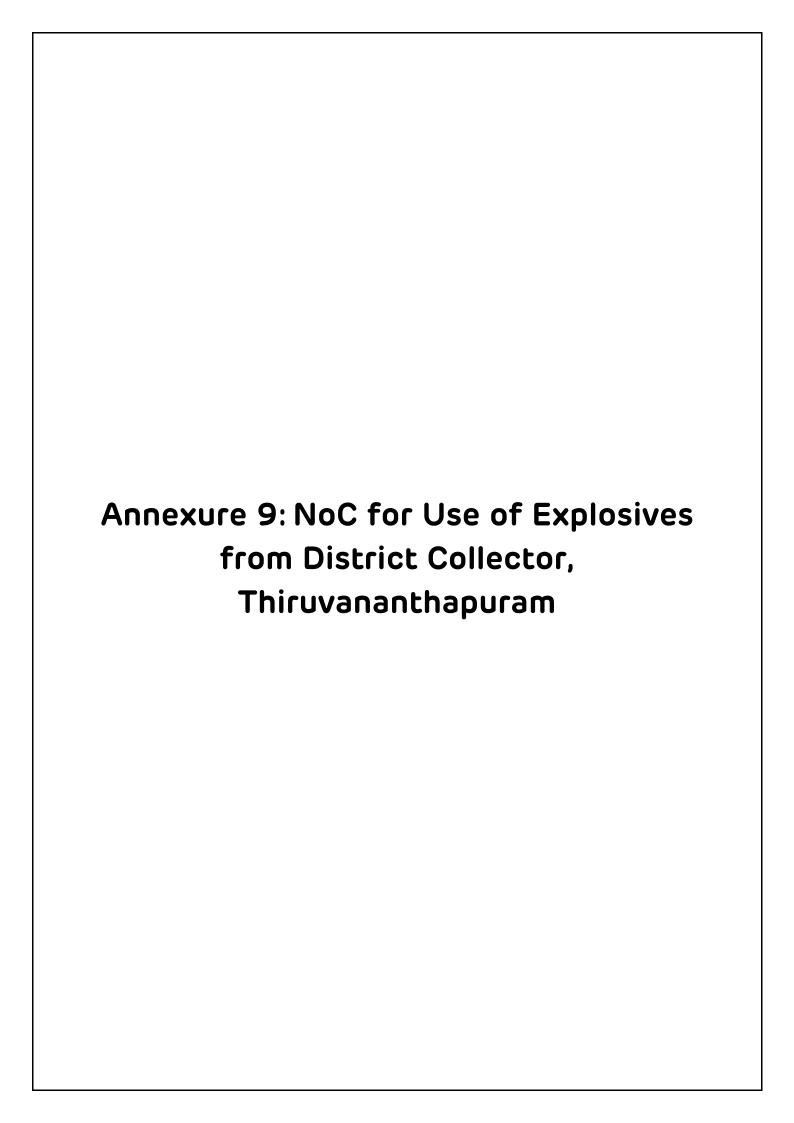
- കേരളാ പഞ്ചായത്ത് രാജ് ആകും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും ബൈലകളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.
- തൊഴിൽ സ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്തധികാരികൾക്കോ / സെക്രട്ടറി താധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസി വേണ്ട സൗകര്യം നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് ക്രാണിക്കേണ്ടതുമാകുന്നു.
- എത് സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്ക വിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും, ലൈസൻസിന്റെ നമ്പരും ഉദ്ദേശവും കാണിക്കുന്ന ഒരു അടയാളപ്പലക വച്ചിരിക്കേണ്ടതാണ്.
- പഞ്ചായത്തിൽ നിന്നും അനുവാദം ലഭിച്ചശേഷമല്ലാതെ തൊഴിൽ സ്ഥലം മാറ്റാൻ പാടില്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകുട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
- ട. തൊഴിൽ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയായും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാകാത്ത വിധത്തിലും പൊതുജനോപദ്രവരാകാത്ത വിധത്തിലും വ്യാപാരത്തിനു വച്ചിട്ടുള്ള ക്ഷേണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സുക്ഷിക്കേണ്ടതാണ്.
- ഓരോ പ്രവർത്തി ദീവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
- 7. ആ സ്ഥലത്തിന്റെയോ പരിസത്തിന്റെയോ, എതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കപ്പെടുകയോ പെയ്യുന്ന പപ്പുചവറോ, മൂഗങ്ങളുടെ അവശിഷ്ടങ്ങളോ മറ്റ് പദാർത്ഥമോ ശേഖരിച്ച് , സെക്രട്ടറിക്ക് തൃപ്തികരമായ മീതിയിൽ നീക്കം ചെയ്യിക്കേണ്ടതാണ്.
- േ ലൈസൻസി ഏതൊരു കെട്ടിടത്തിന്റേയും ചുവരുകളുടെ അകവശത്തിന്റെ ഏതൊരു ഭാഗവും മേൽപറഞ്ഞ പരിസരത്തിലുള്ള തറയും നടപ്പാതയും അവിടെ തെറിച്ചുവീഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിനുമോ, ചപ്പുചവറോ,അസഹൃവും, ഉപദ്രവകരവുമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ലയിക്കുന്നത് തടയത്തക്കവിയം എപ്പോഴും നന്നായി കേടുപാട് തീർത്ത് നിലനിർത്തേണ്ടതാണ്.
- ലൈസൻസി മേൽപറഞ്ഞ സ്ഥലത്തോ, പരിസമത്തോ അതോടും ചേർന്നോ ഉള്ള ഏതൊരു ഓവുചാലും, ത്തഴുക്കുജലം കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാടുതീർത്ത് വയ്പിക്കേണ്ടതാണ്.
- 10. അയിത്തം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദുചേയ്യുന്നതാണ്.
- 11. ഏതെങ്കിലും തരത്തിലുള്ള താക്ക് രോഗമോ കൂഷ്ഠ രോഗമോ വ്രണമോ പകർച്ച വ്യാധികളോ ഉള്ള യരേതാരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.
- 12. 40 മൈക്രോണിൽ കുറവുള്ള പ്ലാസ്റ്റിക്കുകളും മറ്റ് നിരോധിത പ്ലാസ്റ്റിക്ക് ഇനങ്ങളും ഉൽപ്പാദിപ്പിക്കുകയോ ശേഖരിക്കുകയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ ചെയ്യാൻ പാടില്ല.
- 13. സ്ഥാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാമം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേണ്ടതാണ്.
- 14. 20 സീറ്റിൽ കൂടുതലുള്ള എല്ലാ ഹോട്ടലുകൾക്കും റെസ്റ്റോറന്റുകൾക്കും ടോയ്ലെറ്റ് സൗകരും ഏർപ്പേടുത്തേണ്ടതാണ്.
- നിരോധിത ഉൽപന്നങ്ങളായ പാൻമസാഖ, ഗുഡ്ഖ തുടങ്ങിയവ സംഭരിച്ചുവയ്ക്കുവാനോ വിൽക്കൂവാനോ പാടില്ല.
- 16. ബാലവേല അനുവദിക്കാൻ പാടില്ല.

OR EHAM

17. മൂകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ ' ഓംഘനം ഈ ലൈസൻസ് ചെയ്യപ്പെടുന്നതിന് കാളണമാകാവുന്നതാണ്.

> BIJUKUMAR, M സ് അവസാതിക്കുന്ന തീയതിയ്ക്ക് 30 ദിവസം മുമ്പ് ലൈസൻസ് പുതു^{ക്}രുന്നതിനുളള്*വാ*്വ Nagaroor Gama Panchayat

ർപ്പിക്കേണ്ടതാണ്.





Collectorate, Civil Station, Kudappanakunnu, Thiruvananthapuram-43, Phone No:0471-2731210 Fax No:0471-2731166 E-mail:dctvm.ker@nic.in Dated:09/05/2019

The District Collector, Thiruvananthapuram.

The Deputy Chief Controller Of Explosives Ernakulam Sir,

Sub:- Use of Explosives in quarry situated at Re-survey No.555/2, Nagaroor Village, Chirayinkeezhu Taluk Thiruvanthapuram an Thiruvananthapuram District- reg

Ref:- Letter No.AVPPL/GOK/2019-19/730 dtd.29.03.2019 of Chief Executive Officer Adani Vizhinjam Port Pvt Ltd.

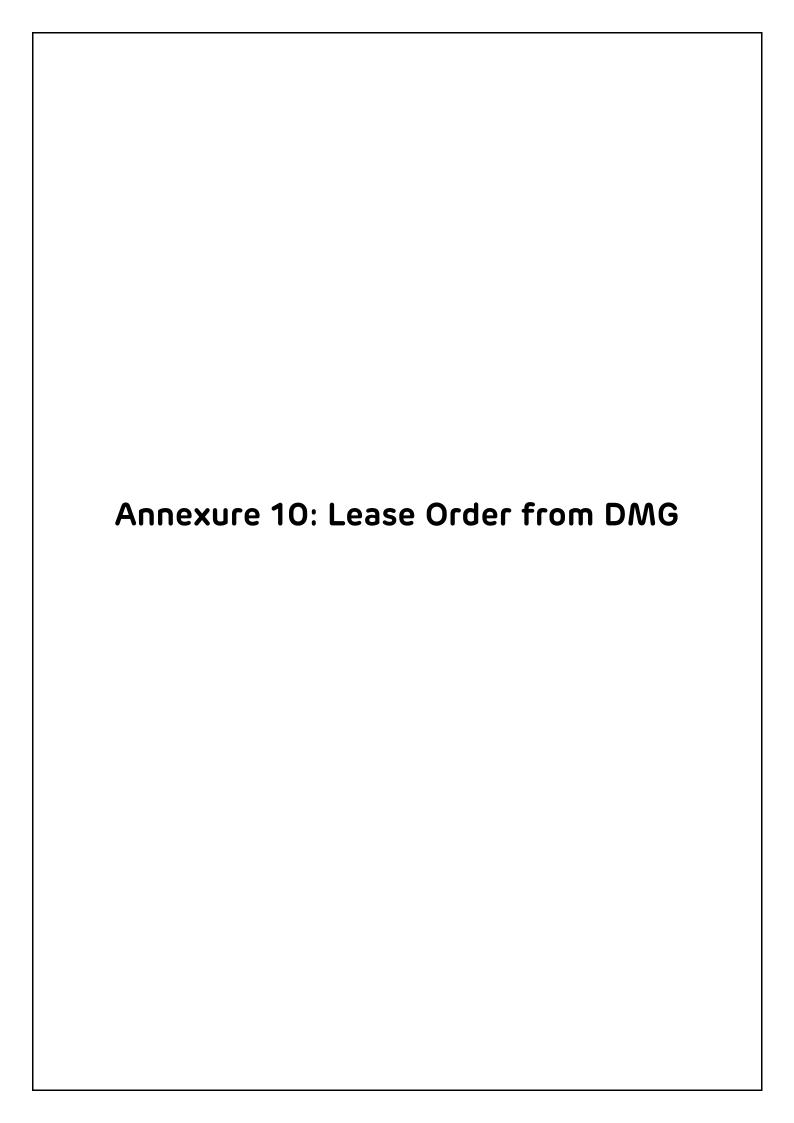
The Chief Executive officer, Adani, Vizhinjam Port Pvt Ltd vide his letter cited has requested permission to purchase and transport Explosives from Mr. Binu V, Managing Partner, M/s Galaxy Rock Sand Industries, Vattakaitha House, Narickal P.O, Punalur, (license No.E/SE/KL/22/129(E95316) for blasting in quarry situated at Re-survey No.555/2 Nagaroor Village Chirayinkeezhu Taluk Thiruvananthapuram District. On going through the Explosives Rules 2008 it is revealed that there in no provision to grant permission for the said purpose as requested.

In this circumstance this is to inform that this office has no objection in granting permission to the said purpose after getting NOC if any from other Departments.

Signature valid
Digitally signed by SPRAHAM P T
Date: 2019-05-29 V.24-01 IST
Reason: Approxy

Yours Faithfully, ABRAHAM P T DEPUTY COLLECTOR For District Collector.

Copy to:1. The Chief Executive Officer, Adani, Vizhinjam Port Pvt Ltd.



No. 9363/M3/2018

Directorate of Mining & Geology Kesavadasapuram, Pattom P.O. Thiruvananthapuram-4

Tel: 0471-2447429 Fax: 0471-2447429

E.mail: director.dir.dmg @ kerala.gov.in

Web: www.dmg.kerala.gov.in Dated: 20/05/2019

From

The Director of Mining & Geology

To

M/s. Adani Vizhinjam Port Private Limited,

2nd Floor, Vipanchika Tower,

Thycaud, Thiruvananthapuram District – 695 014

(Registered Office at: Adani House, Near Mithakhali Six Road,
Navrangpura, Ahmedabad, Gujrat State – 380 009)

(Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha)

Sir,

Sub: Mining & Geology - Mines and Minerals - Minor Minerals- Granite Building Stone -Preparation and execution of quarrying lease deed – reg.

Ref.

- Pro. Order No. 79/2019-20/9363/M3/2018/DMG Dated: 20/05/2019
- 2. Kerala Minor Mineral Concession Rules, 2015
- Kerala Minerals (Prevention of illegal Mining, Storage & Transportation) Rules, 2015.
- 4. Mines & Minerals (Development & Regulation) Act, 1957.

Please refer to the Proceedings Order cited above wherein a quarrying lease for Granite (Building Stone) is granted to M/s. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District - 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State - 380 009) (Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha). A draft copy of quarrying lease deed in Form H is enclosed. I request you to prepare three copies of the quarrying lease deed, original on plain paper and two copies of the same in stamped paper worth Rs. 500/- and produce the same before the Geologist, District Office, Thiruvananthapuram for scrutiny and execution. The date of execution will be filled by the Geologist at the time of execution or you fill in the date after getting confirmation from the District Geologist. After scrutiny of the quarrying lease deed, the Geologist will inform you the date of execution convenient to him. You have to be present in person at the District Office on such date with two witnesses for execution of deed. It may be noted that the survey map based on which lease is granted to you forms a part of the deed and same has to be included in the lease deed. The signature of the lessee and lessor has to be affixed in the survey map also. After execution of deed, as per the request of the District Geologist stamp duty shall be fixed by District Registrar. On remittance of stamp duty, a certificate of remittance of stamp duty will be entered in the lease deed by the Registrar. The lease deed has to be registered by the office of the Registration Department concerned. After registration, the documents have to be produced before the District Geologist.

A chalan for Rs. 36,630/- (Rupees thirty six thousand six hundred and thirty only) being the security deposit is enclosed herewith duly countersigned. Please affix your signature at the appropriate places before remittance of money in the treasury. The original treasury receipted chalan may also be produced along with the typed copies of the lease deed before the Geologist, District Office, Thiruvananthapuram at the time of execution.

Please note that the quarrying lease deed has to be executed within a period of six months from the date on which quarrying lease has been granted and got registered in accordance with the Registration Act, 1908 vide Rules 44 of the Kerala Minor Mineral Concession Rules, 2015.

Before starting quarrying operations you have to send 2 copies of notice in attached Form D to the Director (Mining), Directorate General of Mines Safety, No. 5, 14th Main (100ft) Road, 4th B Block, Koramangla, Bangaluru – 560 034 and one copy to District Magistrate concerned.

Yours faithfully

DIRECTOR OF MINING & GEOLOGY

Encl (applicant):

- 1. Proceedings order
- 2. Draft Form H
- 3. Form D
- 4. Countersigned Chalan

Copy to:

The Geologist, District Office, Thiruvananthapuram for further necessary action.

(Ref your letters No. 1716/DOT/ML/2018 dated. 18/08/2018, 16/03/2019)

You are instructed to execute the lease deed as and when it is received. The Proceedings Order cited as reference I, original survey map and draft Form H are enclosed herewith. The survey map forms a part of lease deed and the signatures of both lessor and lessee. A copy of the lease deed may be forwarded to this office soon after registration. Please ensure that the area under this grant is demarcated and boundary stones maintained properly before execution of the lease deed.

You may ensure remittance of security deposit, surface rent etc. for the amount specified in the lease order. You may also obtain financial guarantee from the lessee for the amount specified in the lease order.

You are also instructed to obtain and forward the Form D to this office. Since Form D is a statutory document, no movement permits shall be issued to lessee if lessee fails to prove that he had sent notice in Form D to the Director of Mines Safety, Office of the DDGMS, (Bangalore Region) Southern Zonal Office, No. 5, 100ft Road, 17th Main, Koramangala, Bangalore – 560 034 and District Magistrate.

You are further instructed to forward photocopies of the registered lease deed to the Director of Mines Safety, Bangaluru & District Collector. Please ensure that the lessee is observing the requirements as per mining plan, lease grant order, form H and KMMC Rules, 2015.

Encl: (District Geologist)

- 1. Original Survey Map
- 2. Draft Form H
- 3. Proceedings order





Kerala Minor Mineral Concession Rules 2015 FORM D

[See clause (a) of rule 10 and clause (m) of sub-rule (1) of rule 40]

NOTICE

1.	(a) Name of mine	3	
	(b) Name of minerals	1	
	(c) Situation of mine (Survey Number, Village, Taluk, District, State)	ż	
	(d) Date when work was first started	1	
2,	(a) Name and postal address of present owner (s)	3	
	(b) Name and postal address of agent, if any	*	
3.	(a) Name and postal address of manager, if any	35	
	(b) His age		
	(c) His qualification	*	
	(d) His experience in mining	\$	55
4.	Whether workings are likely to be extended below Ground		24
5.	(a) Maximum depth of open cast excavation measured From its highest to its lowest point	188	
	(b) Date when depth first exceeded 6 metres	Ď.	16
6.	(a) Nature, amount and kind of explosives used, if any	51	
	(b) Date when explosives were first used	1	
Da	Sec.		Signature of Owner/Agent/Manager.
	550		

To be sent to:

- The Director (Mining), Directorate General of Mines Safety, No. 5, 14th Main (100ft) Road, 4th B Block, Koramangla, Bangaluru – 560 034 (two copies)
- 2. The District Magistrate of the District.

PROCEEDINGS OF THE ADDITIONAL DIRECTOR OF MINING & GEOLOGY, THIRUVANANTHAPURAM, KERALA

(Present Shri. T K Ramakrishnan)

Sub:

Department of Mining & Geology, Government of Kerala - Mines & Minerals - Minor Minerals - Granite (Building Stone) - Quarrying Lease to M/s. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District - 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State - 380 009) (Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha) - sanctioned-orders-issued.

Ref.

Application dated. 13/06/2018 from M/s. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District – 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State – 380 009) (Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha)

2 Letter No. 1716/DOT/ML/2018 dated. 18/08/2018, 16/03/2019 from the Geologist, District Office, Thiruvananthapuram.

- 3 Letter of Intent No. 9363/M3/2018 dtd. 04/09/2018 issued by Director of Mining and Geology
- 4 Environmental clearance No. 02/2019 issued vide Pro. order No. 1200/EC2/2018/ SEIAA dtd. 01/03/2019 by the State Environment Impact Assessment Authority, Kerala (valid till 28/02/2024)
- 5 Integrated consent to operate No. PCB/TVM-DO/ICO/QRY/103/2019 dt. 05/03/2019 issued by Kerala State Pollution Control Board, Thiruvananthapuram (valid till 27/02/2021)
- 6 Explosive License No. E/SE/KL/22/129(E95316) dated, 16/05/2019 issued by Petroleum and Explosive Safety Organization, Ernakulam (valid till 31.03.2022)
- 7 Dangerous and Offensive Trade Licence No. A2 1836/2019 dated. 01/04/2019 issued by Nagaroor Grama Panchayat (valid till 31.03.2020)
- 8 Mines and Minerals (Development & Regulation) Act, 1957.
- 9 Kerala Minor Mineral Concession Rules, 2015
- 10 Kerala Minerals (Prevention of Illegal Mining, Storage & Transportation) Rules 2015

No. 79/2019-20/9363/M3/2018/DMG

Dated, Thiruvananthapuram

20/05/2019

ORDER

M/s. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District – 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State – 380 009) a Private Limited Company having Corporate Identity No. U61200GJ2015PTC083954, represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha (Aadhaar No. 2712 6816 7724) submitted an application vide reference first cited to obtain quarrying lease to quarry Granite (Building Stone) over an area of 3.6630 Hectares of land (as per the survey map No. B9/9590/18 issued by Tahsildar, Chirayinkeezhu) comprised in Re - Survey Block No. 37, Re - Survey No. 555/2 of Nagaroor





Village, Chirayinkeezhu Taluk. The District Geologist, Thiruvananthapuram has intimated that the applied area was previously quarried with the strength of quarrying permits issued by the Revenue Department.

Based on the merit of the application and the enclosed mandatory documents including survey map, possessions certificates, demarcation certificate and land assignment certificate issued by Revenue Authorities and based on the recommendation of the District Geologist, a letter of intent was issued to the applicant vide reference cited 3 intimating the intention of the department to grant quarrying lease subject to production of approved mining plan and other statutory licenses. The District Geologist forwarded the mining plan (prepared by Shri. Kantharaj, K, Recognized Qualified Person – Reg. No. RQP/GOA/130/2000/A) approved by him and other statutory licenses submitted by the applicant to this office. In the approved mining plan it is mentioned that mineable mineral reserve of granite (building stone) in the applied area is 17,78,750 tonnes and that it is proposed to mine 17,78,750 tonnes of granite (building stone) within a period of 5 (Five) years. It is also proposed to mine 3,99,375 MT in the first year, 3,00,625 MT in the 2nd year and 10,78,750 MT in the 3rd, 4th and 5th year. In the approved mining plan it is also mentioned that a total quantity of 9,06,500 MT of building stones has already been excavated from the area. Since the applicant has produced all statutory documents as per the Letter of Intent, it is decided to grant a quarrying lease in the said land and hence the following orders are issued:

A quarrying lease is hereby granted to M/s. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District — 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State — 380 009) a Private Limited Company having Corporate Identity No. U61200GJ2015PTC083954, represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha (Aadhaar No. 2712 6816 7724) to quarry Granite (Building Stone) over an area of 3.6630 Hectares of land (as per the survey map No. B9/9590/18 issued by the Tahsildar, Chirayinkeezhu) comprised in Re - Survey Block No. 37, Re - Survey No. 555/2 of Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District for 5 (Five) years as per the Kerala Minor Mineral Concession Rules, 2015, subject to the conditions mentioned below.

- The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015 and the quarrying leases deed shall be registered in accordance with the provisions of the Indian Registration Act, 1908.
- The lessee shall commence quarrying operation only after the deed is executed and registered.
- The lessee shall not assign, sublet or transfer his lease or any right or interest therein to any person without previous written permission of the Director of Mining & Geology.
- 4. Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules. In case the lessee opts for consolidated royalty payment system by registering attached metal





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crusher units as per Rule 89, then consolidated royalty at the rate specified in Schedule III said Rules shall be paid instead of royalty specified in Schedule I.

- Dead rent is realizable under 40(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
- Surface rent realizable under 40(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
- 7. The lessee shall also deposit an amount of Rs. 36,630/- (Rupees thirty six thousand six hundred and thirty only) being the security deposit at the rate of Rs 10,000/- per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules.
- The lessee shall produce financial guarantee for Rs. 1,00,000/- (Rupees one lakh only) as stipulated in rule 62 of KMMC Rules 2015, before execution of lease deed.
- The lessee shall pay tax related to Revenue Department, if any, as directed by them and the details should be furnished to the District Geologist periodically.
- 10. The lessee shall pay 10% of the amount of royalty/consolidated royalty as the case may be paid by them, being the quarry safety fund in addition to the royalty/consolidated royalty, as per rule 63 of KMMC rules, 2015.
- 11. In addition to the royalty, rents, funds, fees etc. that are required to be remitted by the lessee as per the Mines and Minerals (Development and Regulation) Act, 1957 and Rules made thereunder, the lessee shall pay all other fees, rents, taxes etc. as required by other agencies including Goods and Service Tax (GST) for royalty.
- 12. The quarrying shall be carried out as per the conditions stipulated in Kerala Minor Mineral Concession Rules 2015 and storage and transportation of mineral shall be carried out as per Kerala Minerals (Prevention of Illegal Mining, Storage and Transportation) Rules 2015.
- The lessee shall renew Environmental Clearance on or before 28/02/2024 for the operation of the quarry for the remaining period.
- 14. The quarrying operations shall be strictly as per the approved mining plan and schemes of mining.
- 15. The lessee shall review the progressive quarry closure plan every five years from the date of opening of the quarry and shall submit to the competent authority for its approval. The lessee shall submit to the competent authority in this behalf any early report before 1st July of every year describing protective works including reclamation and rehabilitation work



d

carried out as envisaged in the approved quarry closure plan and if there is any deviation, reasons thereof.

16. The lessee shall submit a scheme of mining for the next five years or remaining period of the lease to the competent authority for approval at least one hundred and twenty days before the expiry of the first five year period for which it was approved on the last occasion.

17. The lessee shall submit final quarry closure plan one year prior to the proposed closure of the quarry and close the quarry as per the approved

quarry closure plan.

18. The production of Granite (Building Stone) from the area covered under this grant shall be subject to the year-wise quantity specified in the approved Mining Plan and scheme of mining.

19. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been

sanctioned on the strength of this order.

 The Lessee shall comply with any and all laws, ordinances, rules and orders related to quarrying operations of any and all governmental or quasigovernmental authorities.

21. The lessee shall obtain all other statutory licences required from the authorities concerned during the period of operation of the quarry and comply with all the conditions mentioned in other statutory license required

for carrying out quarrying operations.

- 22. The lessee shall stop all quarrying activities in the event of expiry of any other statutory licenses which is required for carrying out quarrying activities in the State as per the prevailing Acts and Rules. Any quarrying activity undertaken violating the above condition will be treated as illegal and lessee will be solely responsible for such act and lessee will be liable to pay the penalty imposed by any officer competent to enforce such Acts and Rules.
- 23. In case the lessee makes any breaches in the conditions of the lease deed or violates the conditions stipulated in relevant Act and Rules based on which all Statutory Licenses are issued for quarrying, then the lessee will be solely responsible for any such breaches and violation and in such cases, the lessee will be solely liable to pay such sum of money as fixed by competent authorities as due and penalty.
- 24. The Lessee shall indemnify and keep indemnified the State Government against all actions, proceedings, suits, claims, demands, losses, damages, costs, charges, and expenses incurred or suffered by them as a reason of any non-observance or non-performance of rules and regulations





- 25. This lease is granted in good faith based on the documents/licenses submitted by the lessee. The lessee is solely responsible for the authenticity of the documents/licenses submitted. At any stage, if it is observed that the documents submitted are incorrect or fake or forged or if it is found that some information was omitted or suppressed, then this lease is liable to be cancelled. In such an event the quarrying carried out with the strength of this lease will be treated as quarrying conducted without any lawful authority.
- The lessee shall properly maintain the boundary pillars erected as per the demarcation certificate issued by the Village Officer till the expiry of lease.
- 27. The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the lessee, mineral concession number and date, validity of concession, the name of the mineral quarried, proposed annual production etc. In addition, details of other statutory licenses shall also be displayed.
- 28. The lessee shall erect by the side of the road leading to quarry (preferably 100 m away from quarry), a warning board with danger sign regarding operation of the quarry and use of explosives.
- 29. The lessee should take effective preventive measures for the safety of labourers as well as the general public. In due course of quarrying, if any part of the quarry becomes unsafe, then the lessee shall properly fence that area for preventing accidents by falling of human beings, animals, vehicles or any objects into the pit formed by quarrying.
- The lessee shall not carry out any quarrying operations within 7.5 meters from the boundary
 of the lease area and quarrying operations shall be carried out in benches.
- 31. The lessee shall send a notice in form D appended to KMMC Rules 2015 to the Director (Mining), Directorate General of Mines Safety, No.5, 14th Main (100ft) Road, 4th B Block, Koramangla, Bengaluru - 560034 and to the District Magistrate concerned before commencing the quarrying operation and shall intimate the same to the District office of the Department of Mining and Geology concerned.
- The lessee shall keep book of accounts of production and dispatch of granite (building stone) and shall file monthly and annual returns in Form F and Form G appended to KMMC Rules 2015.
- The quarrying permit granted from the district office, if any, in the area of this quarrying lease is hereby stands cancelled from the date of this order.
- 34. In this case, the anticipated royalty to be remitted for the mineral extracted per year at the present rate of royalty of Rs. 24/- per tonne with average annual production of 3,55,750 tonne is Rs. 85,38,000/- (Rupees eighty five lakhs thirty eight thousand only). In this case, the surface rent to be remitted per year at the present rate of Rs. 5 per Are per year is Rs. 1,832/- (Rupees one thousand eight hundred and thirty two only) and in the event



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of non - functioning of quarry the Dead Rent to be realized for the 1st year - NIL IInd year - Rs. 300/- (Rupees three hundred only) and IIIrd year onwards - Rs. 1,200/- (Rupees one thousand and two hundred only) per hectare subject to revision from time to time.

The terms and conditions stated in this order will be subject to such further modifications as may be made by the State Government from time to time.

Sd/T. K. RAMAKRISHNAN ADDITIONAL DIRECTOR OF MINING & GEOLOGY

To

M/s. Adani Vizhinjam Port Private Limited,

2nd Floor, Vipanchika Tower, Thycaud,
Thiruvananthapuram District – 695 014
(Registered Office at: Adani House,
Near Mithakhali Six Roads, Navrangpura,
Ahmedabad, Gujrat State – 380 009)
(Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha)

Copy to:

- 1 The Director (Mining), Directorate General of Mines Safety, No.5, 14th Main (100ft) Road, 4th B Block, Koramangla, Bengaluru 560034
- 2 Member Secretary, SEIAA, Thampanoor Bus Terminal, Thiruvananthapuram
- 3 The Chairman, SEIAA, Thampanoor Bus Terminal, Thiruvananthapuram.
- 4 The Deputy Chief Controller of Explosives, PESO, C2-III Floor, CGO Complex, Kakkanad, Ernakulam
- 5 The Environmental Engineer, Kerala State Pollution Control Board, District Office, Thiruvananthapuram.
- 6 The Secretary, Nagaroor Grama Panchayath, Thiruvananthapuram District.
- 7 The Tahsildar, Chirayinkeezhu Taluk Office, Thiruvananthapuram District.
- 8 The Village officer, Nagaroor Village, Thiruvananthapuram District.
- 9 Shri. Kantharaj. K, #200, 2nd Floor, 40th Main, 1st Cross, Behind Silk Board, BTM Layout, 2nd Stage, Kuvempu Nagar, Bangalore 560 068
- 10 The Geologist, District Office of the Dept. of Mining and Geology, Thiruvananthapuram.
- 11 Stock File
- 12 File Copy

(By Order)

Senior Superintendent

A SONT OF ASSOCIATION OF ASSOCIATION

Page 6 of 6

No. 9363/M3/2018

Directorate of Mining & Geology Kesavadasapuram, Pattom P.O. Thiruvananthapuram-4

Tel: 0471-2447429 Fax: 0471-2447429

E.mail: director.dir.dmg @ kerala.gov.in

Web: www.dmg.kerala.gov.in Dated: 20/05/2019

From

The Director of Mining & Geology

To

M/s. Adani Vizhinjam Port Private Limited,

2nd Floor, Vipanchika Tower,
Thycaud, Thiruvananthapuram District – 695 014
(Registered Office at: Adani House, Near Mithakhali Six Road,
Navrangpura, Ahmedabad, Gujrat State – 380 009)
(Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha)

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Yours faithfully,

DIRECTOR OF MINING & GEOLOGY

Encl (applicant):

- 1. Proceedings order
- 2. Draft Form H
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Encl: (District Geologist)

- 1. Original Survey Map
- 2. Draft Form H
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Kerala Minor Mineral Concession Rules 2015 FORM D

[See clause (a) of rule 10 and clause (m) of sub-rule (1) of rule 40]

NOTICE

1	I. (a) Name of mine	2	
	(b) Name of minerals	±.	
	(c) Situation of mine (Survey Number, Vi Taluk, District, State)	llage, :	
	(d) Date when work was first started	¥	
2.	. (a) Name and postal address of present of	owner (s) ;	
	(b) Name and postal address of agent, if	any :	
3.	. (a) Name and postal address of manager	; if any ;	
	(b) His age	£	
	(c) His qualification	:	
	(d) His experience in mining		
4.	. Whether workings are likely to be extende Ground	d below	
5.	(a) Maximum depth of open cast excavation From its highest to its lowest point	on measured :	
	(b) Date when depth first exceeded 6 met	res :	
6.	. (a) Nature, amount and kind of explosives	s used, if any :	
	(b) Date when explosives were first used	3	
Da	ste:	Signature of Owner/Agent/Man	ager.
	1001		

To be sent to:

- The Director (Mining), Directorate General of Mines Safety, No. 5, 14th Main (100ft) Road, 4th B Block, Koramangla, Bangaluru – 560 034 (two copies)
- 2. The District Magistrate of the District.

PROCEEDINGS OF THE ADDITIONAL DIRECTOR OF MINING & GEOLOGY, THIRUVANANTHAPURAM, KERALA

(Present Shri. T K Ramakrishnan)

Sub:

Department of Mining & Geology, Government of Kerala - Mines & Minerals - Minor Minerals - Granite (Building Stone) - Quarrying Lease to M/s. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District - 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State - 380 009) (Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha) - sanctioned-orders-issued.

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- 5 Integrated consent to operate No. PCB/TVM-DO/ICO/QRY/103/2019 dt. 05/03/2019 issued by Kerala State Pollution Control Board, Thiruvananthapuram (valid till 27/02/2021)
- 6 Explosive License No. E/SE/KL/22/129(E95316) dated. 16/05/2019 issued by Petroleum and Explosive Safety Organization, Ernakulam (valid till 31.03.2022)
- 7 Dangerous and Offensive Trade Licence No. A2 1836/2019 dated. 01/04/2019 issued by Nagaroor Grama Panchayat (valid till 31.03.2020)
- 8 Mines and Minerals (Development & Regulation) Act, 1957.

9 Kerala Minor Mineral Concession Rules, 2015

10 Kerala Minerals (Prevention of Illegal Mining, Storage & Transportation) Rules 2015

No. 79/2019-20/9363/M3/2018/DMG

Dated, Thiruvananthapuram

20/05/2019

ORDER

M/s. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District – 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State – 380 009) a Private Limited Company having Corporate Identity No. U61200GJ2015PTC083954, represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha (Aadhaar No. 2712 6816 7724) submitted an application vide reference first cited to obtain quarrying lease to quarry Granite (Building Stone) over an area of 3.6630 Hectares of land (as per the survey map No. B9/9590/18 issued by Tahsildar, Chirayinkeezhu) comprised in Re - Survey Block No. 37, Re - Survey No. 555/2 of Nagaroor



Page 1 of 6



Village, Chirayinkeezhu Taluk. The District Geologist, Thiruvananthapuram has intimated that the applied area was previously quarried with the strength of quarrying permits issued by the Revenue Department.

Based on the merit of the application and the enclosed mandatory documents including survey map, possessions certificates, demarcation certificate and land assignment certificate issued by Revenue Authorities and based on the recommendation of the District Geologist, a letter of intent was issued to the applicant vide reference cited 3 intimating the intention of the department to grant quarrying lease subject to production of approved mining plan and other statutory licenses. The District Geologist forwarded the mining plan (prepared by Shri. Kantharaj. K, Recognized Qualified Person – Reg. No. RQP/GOA/130/2000/A) approved by him and other statutory licenses submitted by the applicant to this office. In the approved mining plan it is mentioned that mineable mineral reserve of granite (building stone) in the applied area is 17,78,750 tonnes and that it is proposed to mine 17,78,750 tonnes of granite (building stone) within a period of 5 (Five) years. It is also proposed to mine 3,99,375 MT in the first year, 3,00,625 MT in the 2nd year and 10,78,750 MT in the 3rd, 4th and 5th year. In the approved mining plan it is also mentioned that a total quantity of 9,06,500 MT of building stones has already been excavated from the area. Since the applicant has produced all statutory documents as per the Letter of Intent, it is decided to grant a quarrying lease in the said land and hence the following orders are issued:

A quarrying lease is hereby granted to M/s. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District — 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State — 380 009) a Private Limited Company having Corporate Identity No. U61200GJ2015PTC083954, represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha (Aadhaar No. 2712 6816 7724) to quarry Granite (Building Stone) over an area of 3.6630 Hectares of land (as per the survey map No. B9/9590/18 issued by the Tahsildar, Chirayinkeezhu) comprised in Re - Survey Block No. 37, Re – Survey No. 555/2 of Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District for 5 (Five) years as per the Kerala Minor Mineral Concession Rules, 2015, subject to the conditions mentioned below.

- The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015 and the quarrying leases deed shall be registered in accordance with the provisions of the Indian Registration Act, 1908.
- The lessee shall commence quarrying operation only after the deed is executed and registered.
- The lessee shall not assign, sublet or transfer his lease or any right or interest therein to any person without previous written permission of the Director of Mining & Geology.
- 4. Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules. In case the lessee opts for consolidated royalty payment system by registering attached metal



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crusher units as per Rule 89, then consolidated royalty at the rate specified in Schedule III said Rules shall be paid instead of royalty specified in Schedule I.

- Dead rent is realizable under 40(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
- Surface rent realizable under 40(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
- 7. The lessee shall also deposit an amount of Rs. 36,630/- (Rupees thirty six thousand six hundred and thirty only) being the security deposit at the rate of Rs 10,000/- per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules.
- The lessee shall produce financial guarantee for Rs. 1,00,000/- (Rupees one lakh only) as stipulated in rule 62 of KMMC Rules 2015, before execution of lease deed.
- The lessee shall pay tax related to Revenue Department, if any, as directed by them and the details should be furnished to the District Geologist periodically.
- The lessee shall pay 10% of the amount of royalty/consolidated royalty as the case may be paid by them, being the quarry safety fund in addition to the royalty/consolidated royalty, as per rule 63 of KMMC rules, 2015.
- 11. In addition to the royalty, rents, funds, fees etc. that are required to be remitted by the lessee as per the Mines and Minerals (Development and Regulation) Act, 1957 and Rules made thereunder, the lessee shall pay all other fees, rents, taxes etc. as required by other agencies including Goods and Service Tax (GST) for royalty.
- The quarrying shall be carried out as per the conditions stipulated in Kerala Minor Mineral Concession Rules 2015 and storage and transportation of mineral shall be carried out as per Kerala Minerals (Prevention of Illegal Mining, Storage and Transportation) Rules 2015.
- The lessee shall renew Environmental Clearance on or before 28/02/2024 for the operation of the quarry for the remaining period.
- The quarrying operations shall be strictly as per the approved mining plan and schemes of mining.
- 15. The lessee shall review the progressive quarry closure plan every five years from the date of opening of the quarry and shall submit to the competent authority for its approval. The lessee shall submit to the competent authority in this behalf any early report before 1st July of every year describing protective works including reclamation and rehabilitation work



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Page 3 of 6

- carried out as envisaged in the approved quarry closure plan and if there is any deviation, reasons thereof.
- 16. The lessee shall submit a scheme of mining for the next five years or remaining period of the lease to the competent authority for approval at least one hundred and twenty days before the expiry of the first five year period for which it was approved on the last occasion.
- 17. The lessee shall submit final quarry closure plan one year prior to the proposed closure of the quarry and close the quarry as per the approved quarry closure plan.
- 18. The production of Granite (Building Stone) from the area covered under this grant shall be subject to the year-wise quantity specified in the approved Mining Plan and scheme of mining.
- 19. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order.
- The Lessee shall comply with any and all laws, ordinances, rules and orders
 related to quarrying operations of any and all governmental or quasigovernmental authorities.
- 21. The lessee shall obtain all other statutory licences required from the authorities concerned during the period of operation of the quarry and comply with all the conditions mentioned in other statutory license required for carrying out quarrying operations.
- 22. The lessee shall stop all quarrying activities in the event of expiry of any other statutory licenses which is required for carrying out quarrying activities in the State as per the prevailing Acts and Rules. Any quarrying activity undertaken violating the above condition will be treated as illegal and lessee will be solely responsible for such act and lessee will be liable to pay the penalty imposed by any officer competent to enforce such Acts and Rules.
- 23. In case the lessee makes any breaches in the conditions of the lease deed or violates the conditions stipulated in relevant Act and Rules based on which all Statutory Licenses are issued for quarrying, then the lessee will be solely responsible for any such breaches and violation and in such cases, the lessee will be solely liable to pay such sum of money as fixed by competent authorities as due and penalty.
- 24. The Lessee shall indemnify and keep indemnified the State Government against all actions, proceedings, suits, claims, demands, losses, damages, costs, charges, and expenses incurred or suffered by them as a reason of any non-observance or non-performance of rules and regulations





- 25. This lease is granted in good faith based on the documents/licenses submitted by the lessee. The lessee is solely responsible for the authenticity of the documents/licenses submitted. At any stage, if it is observed that the documents submitted are incorrect or fake or forged or if it is found that some information was omitted or suppressed, then this lease is liable to be cancelled. In such an event the quarrying carried out with the strength of this lease will be treated as quarrying conducted without any lawful authority.
- The lessee shall properly maintain the boundary pillars erected as per the demarcation certificate issued by the Village Officer till the expiry of lease.
- 27. The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the lessee, mineral concession number and date, validity of concession, the name of the mineral quarried, proposed annual production etc. In addition, details of other statutory licenses shall also be displayed.
- The lessee shall erect by the side of the road leading to quarry (preferably 100 m away from quarry), a warning board with danger sign regarding operation of the quarry and use of explosives.
- 29. The lessee should take effective preventive measures for the safety of labourers as well as the general public. In due course of quarrying, if any part of the quarry becomes unsafe, then the lessee shall properly fence that area for preventing accidents by falling of human beings, animals, vehicles or any objects into the pit formed by quarrying.
- The lessee shall not carry out any quarrying operations within 7.5 meters from the boundary
 of the lease area and quarrying operations shall be carried out in benches.
- 31. The lessee shall send a notice in form D appended to KMMC Rules 2015 to the Director (Mining), Directorate General of Mines Safety, No.5, 14th Main (100ft) Road, 4th B Block, Koramangla, Bengaluru 560034 and to the District Magistrate concerned before commencing the quarrying operation and shall intimate the same to the District office of the Department of Mining and Geology concerned.
- The lessee shall keep book of accounts of production and dispatch of granite (building stone) and shall file monthly and annual returns in Form F and Form G appended to KMMC Rules 2015.
- 33. The quarrying permit granted from the district office, if any, in the area of this quarrying lease is hereby stands cancelled from the date of this order.
- 34. In this case, the anticipated royalty to be remitted for the mineral extracted per year at the present rate of royalty of Rs. 24/- per tonne with average annual production of 3,55,750 tonne is Rs. 85,38,000/- (Rupees eighty five lakhs thirty eight thousand only). In this case, the surface rent to be remitted per year at the present rate of Rs. 5 per Are per year is Rs. 1,832/- (Rupees one thousand eight hundred and thirty two only) and in the event



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of non - functioning of quarry the Dead Rent to be realized for the 1st year - NIL IInd year - Rs. 300/- (Rupees three hundred only) and IIIrd year onwards - Rs. 1,200/- (Rupees one thousand and two hundred only) per hectare subject to revision from time to time.

The terms and conditions stated in this order will be subject to such further modifications as may be made by the State Government from time to time.

Sd/-T. K. RAMAKRISHNAN ADDITIONAL DIRECTOR OF MINING & GEOLOGY

To

M/s. Adani Vizhinjam Port Private Limited,

2nd Floor, Vipanchika Tower, Thycaud,
Thiruvananthapuram District – 695 014
(Registered Office at: Adani House,
Near Mithakhali Six Roads, Navrangpura,
Ahmedabad, Gujrat State – 380 009)
(Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha)

Copy to:

- 1 The Director (Mining), Directorate General of Mines Safety, No.5, 14th Main (100ft) Road, 4th B Block, Koramangla, Bengaluru 560034
- 2 Member Secretary, SEIAA, Thampanoor Bus Terminal, Thiruvananthapuram
- 3 The Chairman, SEIAA, Thampanoor Bus Terminal, Thiruvananthapuram.
- 4 The Deputy Chief Controller of Explosives, PESO, C2-III Floor, CGO Complex, Kakkanad, Ernakulam
- 5 The Environmental Engineer, Kerala State Pollution Control Board, District Office, Thiruvananthapuram.
- 6 The Secretary, Nagaroor Grama Panchayath, Thiruvananthapuram District.
- 7 The Tahsildar, Chirayinkeezhu Taluk Office, Thiruvananthapuram District.
- 8 The Village officer, Nagaroor VIllage, Thiruvananthapuram District.
- 9 Shri. Kantharaj. K, #200, 2nd Floor, 40th Main, 1st Cross, Behind Silk Board, BTM Layout, 2nd Stage, Kuvempu Nagar, Bangalore 560 068
- 10 The Geologist, District Office of the Dept. of Mining and Geology, Thiruvananthapuram.
- 11 Stock File

12 File Copy

(By Order)

Senior Superintendent



Page 6 of 6

GOVERNMENT OF KERALA GÖVERNMENT OF KERALA FORM T. R. FORM T. R. (See Rules 102 (c) and 124 of Keyala Treasury Code) (See Rules 102 (c) and 124 of Cofsia Treamy Code) Chalan for Payment de Money Chalan for Payment of Money into the District Treasury/Spo Tre District Treasury/Sun Treasury State Bank of India/State Bank State Bank of India/State Bank Computer Seq. No. Computer Seq. No. Head of Account Head of Account Smi *DDO Code: 400% (DDD) *DDO Code (Dept) 45011 (DDQ) "SDO Code : *SDO Code By whom paid and name and Purpose of By whom paid and name and Purpose of Order address of the person on remittance and Amount in address of the person on remittance and Amount in to the whose behalf money, authority. whose behalf money authority. Bank. is paid all any is poid if any Correct C Receive DEPOSIT DEPL and grant DEPOSIT receipt D SECURITY CUR CIVIL Treasury W Officer O 8443 8443 8 103 Signature & Designation of the Departmental of the Departmental Officer countersigning Officer countersigning Total the remittance Total the remittance Total in words begand blood la Demind Total in words Rygen Brook Signature of Remitter Signature of Remitter Received ? (Rupees Received ₹ (Rupees Date/....... Seal Signature of Treasurer/Cashier Treasury Officer/Bank Ma Signature of Treasurer/Cashier Treasury Officer/Bank Manager Note: 1. The seal/stamp of the Treasury/Bank of collection sh Note: 1. The seaf/stamp of the Treasury/Bank of collection shall be affixed. affixed. 2. If remittance to in official capacity (*SDO/DDO). conseponding code in the street and identify to the corresponding code in the column provides 3. If loan repsyment of Spot Toole Section and Sumber if loan repayment of SDO, write instability purpose column purpose column. P.TO Director of Mining and Goolegy Trivandrum Trivandrum

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GOVERNMENT OF KERALA

CHALAN
FORM T. R. 12

[See Rules 102 (c) and 124 of Kerala Treasury Code]
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Director of Mining and Geology

REVERSE OF FORM T. R. 12

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REVERSE OF FORM T. R. 12

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FORM H (See Rule 43) QUARRYING LEASE

This deed of lease made on this the...... day of 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. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thiruvananthapuram District - 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State - 380 009) a Private No. U61200GJ2015PTC083954. Limited Company having Corporate Identity represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha, aged 53 years, S/o. Krishna Chandra Jha, residing at House No. - H7 - H8, Nishant Vihar, Near Aashiana Trade Centre, Jamshedpur, Adityapur, Seraikela - Kharsawan, Jharkhand -831 013 (Aadhaar No. 2712 6816 7724) (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.

Lessor

- The lessee/lessees shall have the right in and upon the said lands to extract
 Granite Building Stone (here in after called the said mineral/minerals) and
 to do all acts necessary for the extraction of the said mineral/minerals
 including the erection on the said lands, buildings and plant required for
 the purposes and also to take lead and carry away over the said lands and
 to dispose of the said minerals extracted as aforesaid.
- 2. The lessee/lessees shall during the subsistence of this lease have the liberty to work the said mineral/minerals and remove the same from the leasehold on permits issued by the State Government/competent authority or any other officer authorized by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the rates specified in Schedule I to these Rules. The royalty rates shall be subject to revision from time to time as the State Government may order.
- 3. The lessee/lessees shall pay to the State Government a yearly surface rent equal to the land revenue if any, assessable under the rules for the time being in force, or if the land be the property of Government or in reserve forest then equal to the land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee/lessees for any of the purposes of this deed and so in proportion for any area less than one hectare. The said surface rent shall be paid by yearly payments; the first of such payments to be made on or before the last day of the first year of occupation provided always that no such rent shall be paid or demanded in respect of any roads or ways now in existence.
- 4. The lessee/lessees shall at all times during the currency of this lease keep correct and intelligible books of account showing accurately the quantity of the said minerals extracted and the weight and value of the said mineral sold or exported together with the names of the purchasers or consignees. The lessee shall also maintain a register of employees showing therein separately men, women employed daily and shall at reasonable times allow the competent authority appointed under the rules (hereinafter referred to as "competent authority") or the officer authorised by him to examine the said books of account and the register of employees and to take copies and extracts there from. The lessee/lessees shall submit reports in Forms F and G on the specified dates.

Lessor Lessee

5. All sums found due under or by virtue of this deed from the lessee/lessees may be recovered from him jointly and severally from them and his/their properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue or in any other manner as the State Government may deem fit.

The lessee/lessees shall at the lessee's/lessees' own expense erect and at all times maintain and keep in repair boundary marks and pillars along the boundaries of the said lands according to the demarcation shown in the plan

here to annexed.

7. The lessee shall not carry on or allow to be carried on any quarrying operations at or to any points within a distance of 100 metres from any railway line except with the previous written permission of the railway administration concerned and any bridge on National Highway or 50 metres from any reservoir, tanks, canals, rivers, bridges, public roads, other public works, residential buildings, the boundary walls of places of worship, burial grounds, burning ghats or one kilometer from the boundaries of National Park or Wildlife Sanctuaries except with the previous permission of the authorities concerned or the Government or competent authority.

8. The sides of open workings shall be sloped, stepped or secured by the lessee in such a manner as to prevent slope failure, when an open working is worked in steps, steps shall be of sufficient breadth in relation to their height to secure safety. In open workings trees liable to fall and all loose ground and material shall be removed by the lessee sufficiently far from the edge or otherwise made source in order to prevent danger to persons

employed in the quarry.

9. If a working place is found to be unsafe all persons shall be withdrawn by the lessee/lessees immediately from the dangerous area and all access to such working place except for the purpose of removing the danger of saving life shall be prevented by securely fencing the full width of all entrances to

the place.

10. The lessee/lessees shall at all reasonable times allow any officer authorised by the Central Government or by the State Government in that behalf to inspect the said lands and the buildings and plants erected thereon and the lessee/lessees shall assist such persons in conducting the inspection and afford them all information they may reasonably require, and shall conform

Lessee

to and observe all orders which the Central and State Governments as the result of such inspection or otherwise, may from time to time pass.

11. The lessee shall be responsible for implementing the provisions of the Various labour laws applicable, from time to time, to the quarry.

12. The lessee/lessees shall not assign or underlet the said lands or any part thereof or the rights or privileges, therein hereby granted or any of them without the previous permission in writing of the State Government / competent authority.

13. Where the lease or any right, title or interest therein has been assigned, sublet or transferred as provided in rule 45 read with condition 12, then the person in whose favour such assignment, sublease or transfer has been made shall be responsible for implementing the provisions of the various

labour laws applicable, from time to time, to the quarry.

14. The lease may be surrendered by the lessee/lessees at any time after 3 months notice in writing to the State Government/competent authority provided the lessee/lessees has/have paid all sums due on account of the lease: Provided that if the lessee/lessees elects/elect to determine this lease before the expiry of the term of the lease, shall pay in addition to other dues a sum equal to the dead rent payable for the remaining part of the term of the lease deed.

15. If the lessee/lessees shall be desirous of taking a further lease of the said lands he/they shall give three months' previous notice in writing of such desire to the State Government/competent authority and if the lessee/lessees has/have duly observed all the conditions of this lease, the State Government/competent authority may agree to renew the lease for such further term and on such terms and conditions as the State Government/competent authority may determine which shall be in accordance with the provisions of these rules.

16. If the lessee/lessees shall at any time during the said term use the said lands or any part thereof in any manner other than as authorised by this lease or fail to carry on quarrying operations continuously without sufficient cause of which the State Government/competent authority shall be the judge or shall commit a breach of any of the conditions of this lease it shall be lawful for the State Government/competent authority to cancel this lease and take possession of the said lands or the alternative to receive from the

Lessor Lessee

lessee/lessees such penalty not exceeding Rs. 25,000/- (Rupees twenty five thousand only) for the breach as the State Government/competent authority

may fix.

17. If at the expiration of three calendar months after the expiry of the lease or its sooner determination, there shall remain in or the said lands, any engines, machinery, plant buildings, structures and other works, erections and conveniences, the said minerals or other property which the lessee is/lessees are entitled to remove from the said lands, the same shall, if not removed by the lessee/lessees within one calendar month after notice in writing requiring their removal be given to the lessee/lessees by the State Government/competent authority be deemed to become the property of the State Government in such manner as they may deem fit without liability to pay any compensation or to account to the lessee/lessees in respect thereof.

18. This lease subject to all rules and regulations which may from time to time be issued by the State Government regulating the working of the quarries and other matters affecting safety, health and convenience of the lessee's/lessees' employees or of the public, whether under the Indian

Mines Act or otherwise.

19. The lessee/lessees shall without delay send to the District Collector and the competent authority or the officer authorised by him in this regard report of any accident causing loss of life or serious bodily injuries or seriously affecting or endangering life or property which may at any time occur at or in the said lands in the course of operations under this lease.

20. The lessee/lessees shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may

prescribe.

21. The lessee/lessees shall make and pay such reasonable compensation as may be assessed by lawful authority in accordance with the law in force on the subject for all damage, injury or disturbance which may be done by him/them in exercise of the powers granted by this lease and shall indemnify and shall keep indemnified fully and completely the State Government against all claims which may be made by any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith.

Lessee

Any condition prescribed in the Kerala Minor Mineral Concession Rules,
 2015 but left out in this lease which may be found applicable to the lessee /

lessees shall be treated as binding on the lessee/lessees.

23. In this case, the anticipated royalty to be remitted for the mineral extracted per year at the present rate of royalty of Rs. 24/- per tonne with proposed average annual production of 3,55,750 tonne is Rs. 85,38,000/- (Rupees eighty five lakhs and thirty eight thousand only) and may enhance the quantity of production and period of lease with the prior permission of the lessor and registration of the lease deed accordingly.

24. In this case, the surface rent to be remitted per year at the present rate of Rs. 5/- per Are per year is Rs. 1,832/- (Rupees one thousand eight hundred and thirty two only) and the refundable Security Deposit is Rs. 36,630/- (Rupees thirty six thousand six hundred and thirty only).

SCHEDULE OF DESCRIPTION OF LAND

District

: Thiruvananthapuram

Taluk

: Chirayinkeezhu

Village	Re – Survey Block No.	Re - Survey No.	Lease Area in Hectares
Magagaar	37	555/2	3.6630
Nagaroor	Total Area in Hectar	10.0	3.6630

Bounded by Survey No:

On the North by

: Re - Survey No. 555/2

On the East by

: Re - Survey No. 554/1

On the South by

: Re - Survey No. 555/8

On the West by

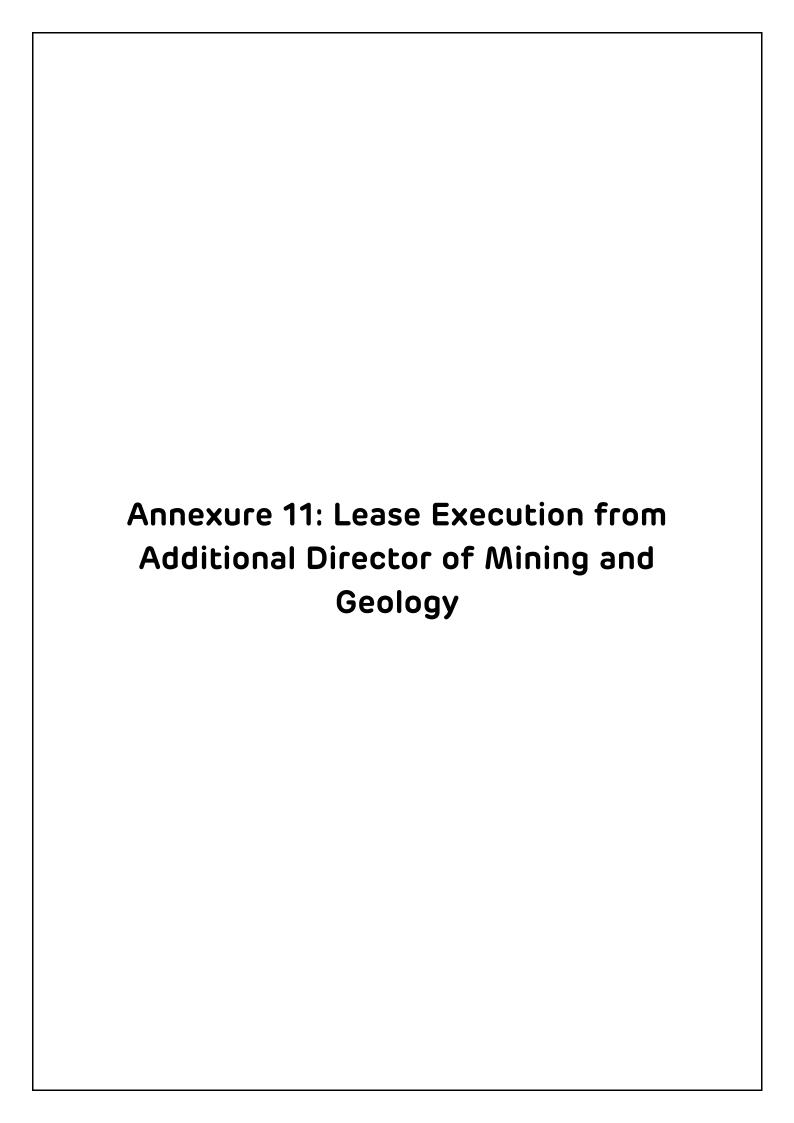
: Re - Survey No. 555/2

Director of Mining & Geology

Lessor

Lessee

In witness whereof the parties hereto have set their hands here unto or
e day and year first above written.
or and on behalf of the Governor of Kerala.
the presence of
2)
igned byor and on behalf of the lessee/lessees in the presence of
Thiruvananthapuram
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PROCEEDINGS OF THE ADDITIONAL DIRECTOR OF MINING & GEOLOGY, THIRUVANANTHAPURAM, KERALA

(Present Shri, T K Ramakrishnan)

Sub: Department of Mining & Geology, Government of Kerala - Mines & Minerals - Minor Minerals - Granite (Building Stone) - Quarrying Lease to M/s. Adami Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District - 695 014 (Registered Office at: Adami House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State - 380 009) (Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha) - sanctioned-orders-issued.

Ref. 1 Application dated. 13/06/2018 from M/s. Adami Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District – 695 014 (Registered Office at: Adami House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State – 380 009) (Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha)

2 Letter No. 1716/DOT/ML/2018 dated. 18/08/2018, 16/03/2019 from the Geologist, District Office, Thiruvananthapuram.

- 3 Letter of Intent No. 9363/M3/2018 dtd. 04/09/2018 issued by Director of Mining and Geology
- 4 Environmental clearance No. 02/2019 issued vide Pro. order No. 1200/EC2/2018/ SEIAA dtd. 01/03/2019 by the State Environment Impact Assessment Authority, Kerala (valid till 28/02/2024)
- 5 Integrated consent to operate No. PCB/TVM-DO/ICQ/QRY/103/2019 dt. 05/03/2019 issued by Kerala State Pollution Control Board, Thiruvananthapuram (valid till 27/02/2021)
- 6 Explosive License No. E/SE/KL/22/129(E95316) dated. 16/05/2019 issued by Petroleum and Explosive Safety Organization, Emakulam (valid till 31.03.2022)
- 7 Dangerous and Offensive Trade Licence No. A2 1836/2019 dated. 01/04/2019 issued by Nagaroor Grama Panchayat (valid till 31.03.2020)
- 8 Mines and Minerals (Development & Regulation) Act, 1957.
- 9 Kerala Minor Mineral Concession Rules, 2015
- 10 Kerala Minerals (Prevention of Illegal Mining, Storage & Transportation) Rules 2015

No. 79/2019-20/9363/M3/2018/DMG

Dated, Thiruvananthapuram

20/05/2019

ORDER

M/s. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District – 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State – 380 009) a Private Limited Company having Corporate Identity No. U61200GJ2015PTC083954, represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha (Aadhaar No. 2712 6816 7724) submitted an application vide reference first cited to obtain quarrying lease to quarry Granite (Building Stone) over an area of 3.6630 Hectares of land (as per the survey map No. B9/9590/18 issued by Tahsildar, Chirayinkeezhu) comprised in Re - Survey Block No. 37, Re - Survey No. 555/2 of Nagaroor



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Village, Chirayinkeezhu Taluk. The District Geologist, Thiruvananthapuram has intimated that the applied area was previously quarried with the strength of quarrying permits issued by the Revenue Department.

Based on the merit of the application and the enclosed mandatory documents including survey map, possessions certificates, demarcation certificate and land assignment certificate issued by Revenue Authorities and based on the recommendation of the District Geologist, a letter of intent was issued to the applicant vide reference cited 3 intimating the intention of the department to grant quarrying lease subject to production of approved mining plan and other statutory licenses. The District Geologist forwarded the mining plan (prepared by Shri. Kantharaj. K, Recognized Qualified Person – Reg. No. RQP/GOA/130/2000/A) approved by him and other statutory licenses submitted by the applicant to this office. In the approved mining plan it is mentioned that mineable mineral reserve of granite (building stone) in the applied area is 17,78,750 tonnes and that it is proposed to mine 17,78,750 tonnes of granite (building stone) within a period of 5 (Five) years. It is also proposed to mine 3,99,375 MT in the first year, 3,00,625 MT in the 2nd year and 10,78,750 MT in the 3nd, 4th and 5th year. In the approved mining plan it is also mentioned that a total quantity of 9,06,500 MT of building stones has already been excavated from the area. Since the applicant has produced all statutory documents as per the Letter of Intent, it is decided to grant a quarrying lease in the said land and hence the following orders are issued:

A quarrying lease is hereby granted to M/s. Adani Vizhinjam Port Private Limited, 2nd Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram District – 695 014 (Registered Office at: Adani House, Near Mithakhali Six Road, Navrangpura, Ahmedabad, Gujrat State – 380 009) a Private Limited Company having Corporate Identity No. U61200GJ2015PTC083954, represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha (Aadhaar No. 2712 6816 7724) to quarry Granite (Building Stone) over an area of 3.6630 Hectares of land (as per the survey map No. B9/9590/18 issued by the Tahsildar, Chirayinkeezhu) comprised in Re - Survey Block No. 37, Re – Survey No. 555/2 of Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District for 5 (Five) years as per the Kerala Minor Mineral Concession Rules, 2015, subject to the conditions mentioned below.

- The lessee shall execute a quarrying lease deed within a period of six months from the date
 of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015
 and the quarrying leases deed shall be registered in accordance with the provisions of the
 Indian Registration Act, 1908.
- The lessee shall commence quarrying operation only after the deed is executed and registered.
- The lessee shall not assign, sublet or transfer his lease or any right or interest therein to any person without previous written permission of the Director of Mining & Geology.
- 4. Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules. In case the lessee opts for consolidated royalty payment system by registering attached metal



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crusher units as per Rule 89, then consolidated royalty at the rate specified in Schedule III said Rules shall be paid instead of royalty specified in Schedule I.

- Dead rent is realizable under 40(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
- 8. Surface rent realizable under 40(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
- 7. The lessee shall also deposit an amount of Rs. 36,630/- (Rupees thirty six thousand six hundred and thirty only) being the security deposit at the rate of Rs 10,000/- per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules.
- The lessee shall produce financial guarantee for Rs. 1,00,000/- (Rupees one lakh only) as stipulated in rule 62 of KMMC Rules 2015, before execution of lease deed.
- The lessee shall pay tax related to Revenue Department, if any, as directed by them and the details should be furnished to the District Geologist periodically.
- The lessee shall pay 10% of the amount of royalty/consolidated royalty as the case may be paid by them, being the quarry safety fund in addition to the royalty/consolidated royalty, as per rule 63 of KMMC rules, 2015.
- 11. In addition to the royalty, rents, funds, fees etc. that are required to be remitted by the lessee as per the Mines and Minerals (Development and Regulation) Act, 1957 and Rules made thereunder, the lessee shall pay all other fees, rents, taxes etc. as required by other agencies including Goods and Service Tax (GST) for royalty.
- 12. The quarrying shall be carried out as per the conditions stipulated in Kerala Minor Mineral Concession Rules 2015 and storage and transportation of mineral shall be carried out as per Kerala Minerals (Prevention of Illegal Mining, Storage and Transportation) Rules 2015.
- The lessee shall renew Environmental Clearance on or before 28/02/2024 for the operation
 of the quarry for the remaining period.
- 14. The quarrying operations shall be strictly as per the approved mining plan and schemes of mining.
- 15. The lessee shall review the progressive quarry closure plan every five years from the date of opening of the quarry and shall submit to the competent authority for its approval. The lessee shall submit to the competent authority in this behalf any early report before 1st July of every year describing protective works including reclamation and rehabilitation work.



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- carried out as envisaged in the approved quarry closure plan and if there is any deviation, reasons thereof.
- 16. The lessee shall submit a scheme of mining for the next five years or remaining period of the lease to the competent authority for approval at least one hundred and twenty days before the expiry of the first five year period for which it was approved on the last occasion.
- 17. The lessee shall submit final quarry closure plan one year prior to the proposed closure of the quarry and close the quarry as per the approved quarry closure plan.
- 18. The production of Granite (Building Stone) from the area covered under this grant shall be subject to the year-wise quantity specified in the approved Mining Plan and scheme of mining.
- 19. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order.
- 20. The Lessee shall comply with any and all laws, ordinances, rules and orders related to quarrying operations of any and all governmental or quasi-governmental authorities.
- 21. The lessee shall obtain all other statutory licences required from the authorities concerned during the period of operation of the quarry and comply with all the conditions mentioned in other statutory license required for carrying out quarrying operations.
- 22. The lessee shall stop all quarrying activities in the event of expiry of any other statutory licenses which is required for carrying out quarrying activities in the State as per the prevailing Acts and Rules. Any quarrying activity undertaken violating the above condition will be treated as illegal and lessee will be solely responsible for such act and lessee will be liable to pay the penalty imposed by any officer competent to enforce such Acts and Rules.
- 23. In case the lessee makes any breaches in the conditions of the lease deed or violates the conditions stipulated in relevant Act and Rules based on which all Statutory Licenses are issued for quarrying, then the lessee will be solely responsible for any such breaches and violation and in such cases, the lessee will be solely liable to pay such sum of money as fixed by competent authorities as due and penalty.
- 24. The Lessee shall indemnify and keep indemnified the State Government against all actions, proceedings, suits, claims, demands, losses, damages, costs, charges, and expenses incurred or suffered by them as a reason of any non-observance or non-performance of rules and regulations





Page 4 of 6

- 25. This lease is granted in good faith based on the documents/licenses submitted by the lessee. The lessee is solely responsible for the authenticity of the documents/licenses submitted. At any stage, if it is observed that the documents submitted are incorrect or fake or forged or if it is found that some information was omitted or suppressed, then this lease is liable to be cancelled. In such an event the quarrying carried out with the strength of this lease will be treated as quarrying conducted without any lawful authority.
- 26. The lessee shall properly maintain the boundary pillars erected as per the demarcation certificate issued by the Village Officer till the expiry of lease.
- 27. The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the lessee, mineral concession number and date, validity of concession, the name of the mineral quarried, proposed annual production etc. In addition, details of other statutory licenses shall also be displayed.
- The lessee shall erect by the side of the road leading to quarry (preferably 100 m away from quarry), a warning board with danger sign regarding operation of the quarry and use of explosives.
- 29. The lessee should take effective preventive measures for the safety of labourers as well as the general public. In due course of quarrying, if any part of the quarry becomes unsafe, then the lessee shall properly fence that area for preventing accidents by falling of human beings, animals, vehicles or any objects into the pit formed by quarrying.
- The lessee shall not carry out any quarrying operations within 7.5 meters from the boundary
 of the lease area and quarrying operations shall be carried out in benches.
- 31. The lessee shall send a notice in form D appended to KMMC Rules 2015 to the Director (Mining), Directorate General of Mines Safety, No.5, 14th Main (100ft) Road, 4th B Block, Koramangla, Bengaluru - 560034 and to the District Magistrate concerned before commencing the quarrying operation and shall intimate the same to the District office of the Department of Mining and Geology concerned.
- The lessee shall keep book of accounts of production and dispatch of granite (building stone) and shall file monthly and annual returns in Form F and Form G appended to KMMC Rules 2015.
- 33. The quarrying permit granted from the district office, if any, in the area of this quarrying lease is hereby stands cancelled from the date of this order.
- 34. In this case, the anticipated royalty to be remitted for the mineral extracted per year at the present rate of royalty of Rs. 24/- per tonne with average annual production of 3,55,750 tonne is Rs. 85,38,000/- (Rupees eighty five lakhs thirty eight thousand only). In this case, the surface rent to be remitted per year at the present rate of Rs. 5 per Are per year is Rs. 1,832/- (Rupees one thousand eight hundred and thirty two only) and in the event



Page 5 of 6

of non - functioning of quarry the Dead Rent to be realized for the 1st year - NIL Hnd year - Rs. 300/- (Rupees three hundred only) and Hlrd year onwards - Rs. 1,200/- (Rupees one thousand and two hundred only) per hectare subject to revision from time to time.

The terms and conditions stated in this order will be subject to such further modifications as may be made by the State Government from time to time.

Sd/-T. K. RAMAKRISHNAN ADDITIONAL DIRECTOR OF MINING & GEOLOGY

To

M/s. Adani Vizhinjam Port Private Limited,

2nd Floor, Vipanchika Tower, Thycaud,
Thiruvananthapuram District – 695 014
(Registered Office at: Adani House,
Near Mithakhali Six Roads, Navrangpura,
Ahmedabad, Gujrat State – 380 009)
(Represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha)

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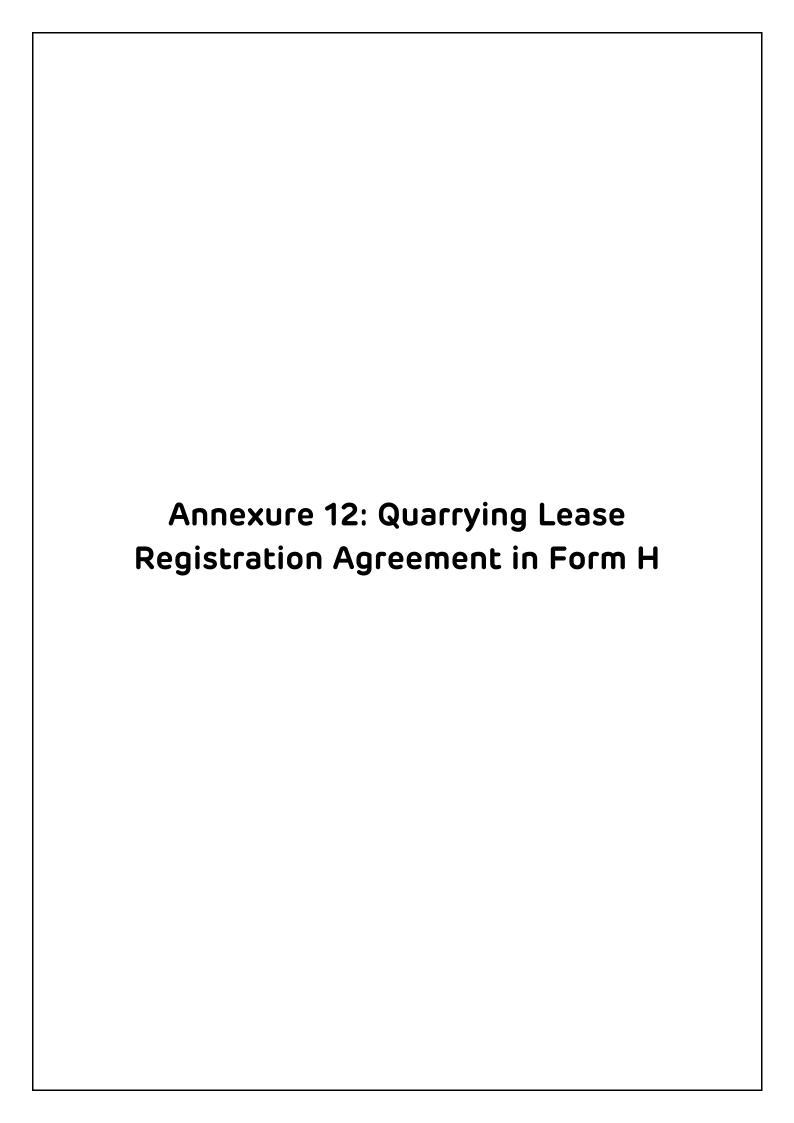
- 1 The Director (Mining), Directorate General of Mines Safety, No.5, 14th Main (100ft) Road, 4th B Block, Koramangla, Bengaluru – 560034
- 2 Member Secretary, SEIAA, Thampanoor Bus Terminal, Thiruvananthapuram
- 3 The Chairman, SEIAA, Thampanoor Bus Terminal, Thiruvananthapuram.
 4 The Deputy Chief Controller of Explosives, PESO, C2-III Floor, CGO Complex, Kakkanad, Ernakulam
- 5 The Environmental Engineer, Kerala State Pollution Control Board, District Office, Thiruvananthapuram.
- 6 The Secretary, Nagaroor Grama Panchayath, Thiruvananthapuram District.
- 7 The Tahsildar, Chirayinkeezhu Taluk Office, Thiruvananthapuram District.
- 8 The Village officer, Nagaroor Village, Thiruvananthapuram District.
- 9 Shri, Kantharaj, K, #200, 2nd Floor, 40th Main, 1st Cross, Behind Silk Board, BTM Layout, 2nd Stage, Kuvempu Nagar, Bangalore 560 068
- The Geologist, District Office of the Dept. of Mining and Geology.
 Thiruvananthapuram.
 - 11 Stock File
 - 12 File Copy

(By Order)

Senior Superintendent

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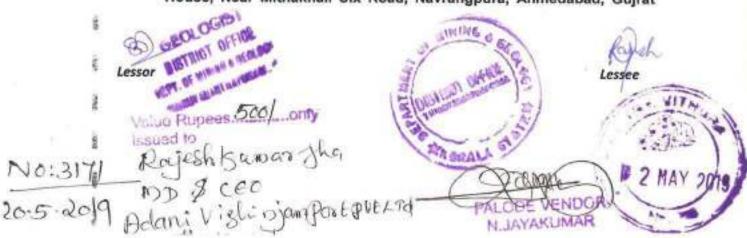


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FORM H (See Rule 43) QUARRYING LEASE





representatives and permitted assigns) of the other part. the context so admits, include his/their heirs, executors, administrators, Adityapur, Seraikela - Kharsawan, Jharkhand - 831 013 (Aadhaar No. 2712 6816 No. - H7 - H8, Nishant Vihar, Near Aashiana Trade Centre, Jamshedpur, U61200GJ2015PTC083954, represented by its Chief Executive Officer, Shri. Rajesh Kumar Jha, aged 53 years, S/o. Krishna Chandra Jha, residing at House State - 380 009) a Private Limited Company having Corporate Identity 7724) (hereinafter called the "lessee/lessees" which expression shall where

the .2.2....0.5...29.19...and ending on the .21...05.:2024 for the purposes plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of 5 (Five) years commencing from 3.6630 hectares described in the schedule hereunder and delineated on the lessee's/Lessees' covenants, hereinafter reserved and contained the State hereinafter appearing conditions contained in the Kerala Minor Mineral Concession Rules, 2015 Government hereby give on lease to the lessee/lessees the land measuring (hereinafter referred to as "the Rules") and to the terms and conditions Witnesseth that extracting minor mineral/minerals and subject to the terms in consideration of the rents and royalties

- mineral/minerals including the erection on the said lands, buildings and mineral/minerals) and to do all acts necessary for the extraction of the said from time to time as the State Government may order. issued only on the basis of pre-paid royalty at the rates specified in or any other officer authorized by him in this regard. The permits shall be leasehold on permits issued by the State Government/competent authority liberty to work the said mineral/minerals and remove the same from the the said lands and to dispose of the said minerals extracted as aforesaid. plant required for the purposes and also to take lead and carry away over Schedule I to these Rules. The royalty rates shall be subject to revision The lessee/lessees shall have the right in and upon the said lands to The lessee/lessees shall during the subsistence of this lease have the Granite Building Stone (here in after called the
- shall be paid or demanded in respect of any roads or ways now in yearly payments; the first of such payments to be made on or before the any area less than one hectare. The said surface rent shall be paid by of the land the surface whereof shall be reserve forest then equal to the land revenue plus cess, if any, per hectare time being in force, or if the land be the property of Government or in existence. last day of the first year of occupation provided always that no such rent lessee/lessees for any of the purposes of this deed and so in proportion for The lessee/lessees shall pay to the State Government a yearly surface equal to the land revenue if any, assessable under the rules for the occupied or used by the





Lessee Page 2 of 6

- reports in Forms F and G on the specified dates. reasonable times allow the competent authority appointed under the rules showing therein separately men, women employed daily and said mineral sold or exported together with the names of the purchasers or quantity of the said minerals extracted and the weight and value of the keep correct and intelligible books of account showing accurately the 4. The lessee/lessees shall at all times during the currency of this lease and to take copies and extracts there from. The lessee/lessees shall submit by him to examine the said books of account and the register of employees (hereinafter referred to as "competent authority") or the officer authorised The lessee shall also maintain a register of employees
- sums are arrears of land revenue or in any other manner as the State the Revenue Recovery Act for the time being in force as though such and his/their properties movable and immovable under the provisions of lessee/lessees may be recovered from him jointly and severally from them Government may deem fit. All sums found due under or by virtue of this deed from the
- all times maintain and keep in repair boundary marks and pillars along the The lessee/lessees shall at the lessee's/lessees' own expense erect and at plan here to annexed. boundaries of the said lands according to the demarcation shown in the
- worship, burial grounds, burning ghats or one kilometer from the boundaries of National Park or Wildlife Sanctuaries except with the administration concerned and any bridge on National Highway or 50 railway line except with the previous written permission of the railway operations at or to any points within a distance of 100 metres from any competent authority. previous permission of the authorities concerned or the Government or other public works, residential buildings, the boundary walls of places of metres from any reservoir, tanks, canals, rivers, bridges, public roads, 7. The lessee shall not carry on or allow to be carried on any quarrying
- the edge or otherwise made source in order to prevent danger to persons ground and material shall be removed by the lessee sufficiently far from height to secure safety. In open workings trees liable to fall and all loose is worked in steps, steps shall be of sufficient breadth in relation to their lessee in such a manner as to prevent slope failure, when an open working employed in the quarry. The sides of open workings shall be sloped, stepped or secured by the
- saving life shall be prevented by securely fencing the full width of all If a working place is found to be unsafe all persons shall be withdrawn entrances to the place. to such working place except for the purpose of removing the danger of by the lessee/lessees immediately from the dangerous area and all access
- authorised by the Central Government or by the State Government in that The lessee/lessees shall at all reasonable times allow any officer





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and shall conform to and observe all orders which the Central and State inspection and afford them all information they may reasonably require, thereon and the lessee/lessees shall assist such persons in conducting the behalf to inspect the said lands and the buildings and plants erected Governments as the result of such inspection or otherwise, may from time

Various labour laws applicable, from time to time, to the quarry 11. The lessee shall be responsible for implementing the provisions of the

them without the previous permission in writing of the State Government / part thereof or the rights or privileges, therein hereby granted or any of The lessee/lessees shall not assign or underlet the said lands or any

sublet or transferred as provided in rule 45 read with condition 12, made shall be responsible for implementing the provisions of the various the person in whose favour such assignment, sublease or transfer has been 13. Where the lease or any right, title or interest therein has been assigned, labour laws applicable, from time to time, to the quarry.

months notice in writing to the State Government/competent authority term of the lease deed. dues a sum equal to the dead rent payable for the remaining part of the before the expiry of the term of the lease, shall pay in addition to other provided the lessee/lessees has/have paid all sums due on account of the 14. The lease may be surrendered by the lessee/lessees at any time after 3 lease: Provided that if the lessee/lessees elects/elect to determine this lease

accordance with the provisions of these rules such further term and on such terms and conditions State Government/competent authority may agree to renew the lease for lessee/lessees has/have duly observed all the conditions of this lease, the said lands he/they shall give three months' previous notice in writing of 15. If the lessee/lessees shall be desirous of taking a further lease of the Government/competent authority desire to the State Government/competent authority and if may determine which shall be as the State

this lease and take possession of the said lands or the alternative to receive it shall be lawful for the State Government/competent authority to cancel be the judge or shall commit a breach of any of the conditions of this lease sufficient cause of which the State Government/competent authority shall lease or fail to carry on quarrying operations continuously without Government/competent authority may fix. from the lessee/lessees such penalty not exceeding Rs. 25,000/- (Rupees lands or any part thereof in any manner other than as authorised by this 16. If the lessee/lessees shall at any time during the said term use the said thousand only) for the breach

any engines, machinery, plant buildings, structures and other works, lease or its sooner determination, there shall remain in or the said lands, 17. If at the expiration of three calendar months after the expiry of the





Lessee Page 4 of 6

notice in writing requiring their removal be given to the lessee/lessees by erections and conveniences, the said minerals or other property which the property of the State Government in such manner as they may deem fit the State Government/competent authority be deemed to become the if not removed by the lessee/lessees within one calendar month after lessee is/lessees are entitled to remove from the said lands, the same shall, lessee/lessees in respect thereof. liability to pay any compensation or to account to the

quarries and other matters affecting safety, health and convenience of the time be issued by the State Government regulating the working of the lessee's/lessees' employees or of the public, whether under the Indian 18. This lease subject to all rules and regulations which may from time to

Mines Act or otherwise.

occur at or in the said lands in the course of operations under this lease. seriously affecting or endangering life or property which may at any time report of any accident causing loss of life or serious bodily injuries or and the competent authority or the officer authorised by him in this regard The lessee/lessees shall without delay send to the District Collector

output, labourers employed and other matters as the State Government 20. The lessee/lessees shall furnish such reports and returns relating to

as may be assessed by lawful authority in accordance with the law in force and expenses in connection therewith. persons in respect of any such damage, injury or disturbance and all costs him/them in exercise of the powers granted by this lease and shall on the subject for all damage, injury or disturbance which may be done by Government against all claims which may be made by any person or indemnify and shall keep indemnified fully and completely the State The lessee/lessees shall make and pay such reasonable compensation

lessee / lessees shall be treated as binding on the lessee/lessees. Rules, 2015 but left out in this lease which may be found applicable to the 22. Any condition prescribed in the Kerala Minor Mineral Concession

prior permission of and may enhance the quantity of production and period of lease with the 85,38,000/- (Rupees eighty five lakhs and thirty eight thousand only) proposed average annual production of extracted per year at the present rate of royalty of Rs. 24/- per tonne with 23. In this case, the anticipated royalty to be remitted for the mineral the lessor and registration of the lease deed 3,55,750 tonne

36,630/- (Rupees thirty six thousand six hundred and thirty only). hundred and thirty two only) and the refundable Security Deposit is Rs. of Rs. 5/- per Are per year is Rs. 1,832/- (Rupees one thousand eight 24. In this case, the surface rent to be remitted per year at the present rate



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SCHEDULE OF DESCRIPTION OF LAND

Taluk District

Thiruvananthapuram

Chirayinkeezhu

3.6630	es	Total Area in Hectares	000
3.6630	555/2	37	Nagaroor
in Hectares	Re - Survey No.	Re – Survey Block No.	Village

Bounded by Survey No:

On the South by On the East by On the North by Re - Survey No. 555/2 Re - Survey No. 554/1 Re - Survey No. 555/8 555/8

On the West by Re - Survey No. 555/2

day and year first above written. In witness whereof the parties hereto have set their hands here unto on the GITA S.R.

Signed by.... Geologist
District Office
Department of Wining & Geology
Thiruvananthapuram-695004

for and on behalf of the Governor of Kerala.

In the presence of

Assistant Geologist
Department of Mining and Geology
District Office Thiruvananthapuram SHYJU. P

3 For ADAMI VIZHINJAMI PORT PRIVATE LTD J.V. Jainy mound Brunn REMEMA 220 inspector, heelegy.

Signed by..... MD & CEO

for and on behalf of the lessee/lessees

In the presence of

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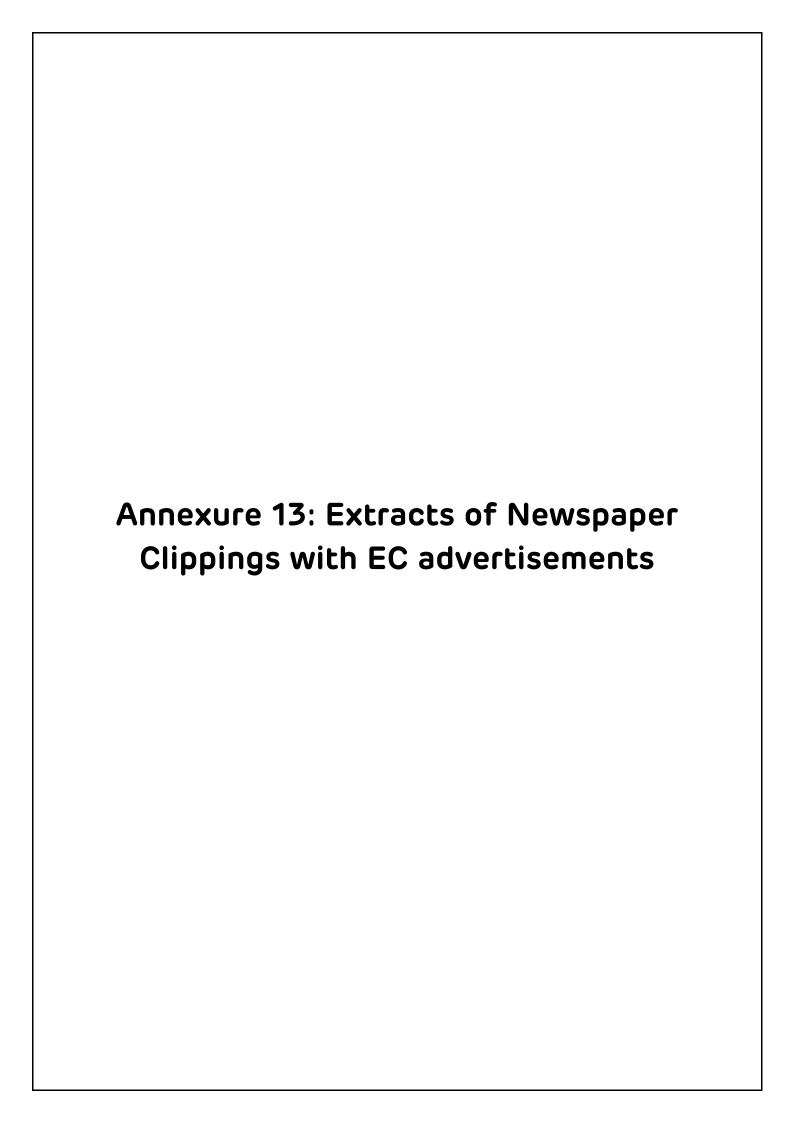
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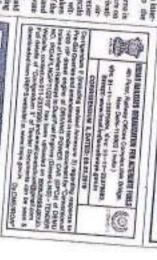
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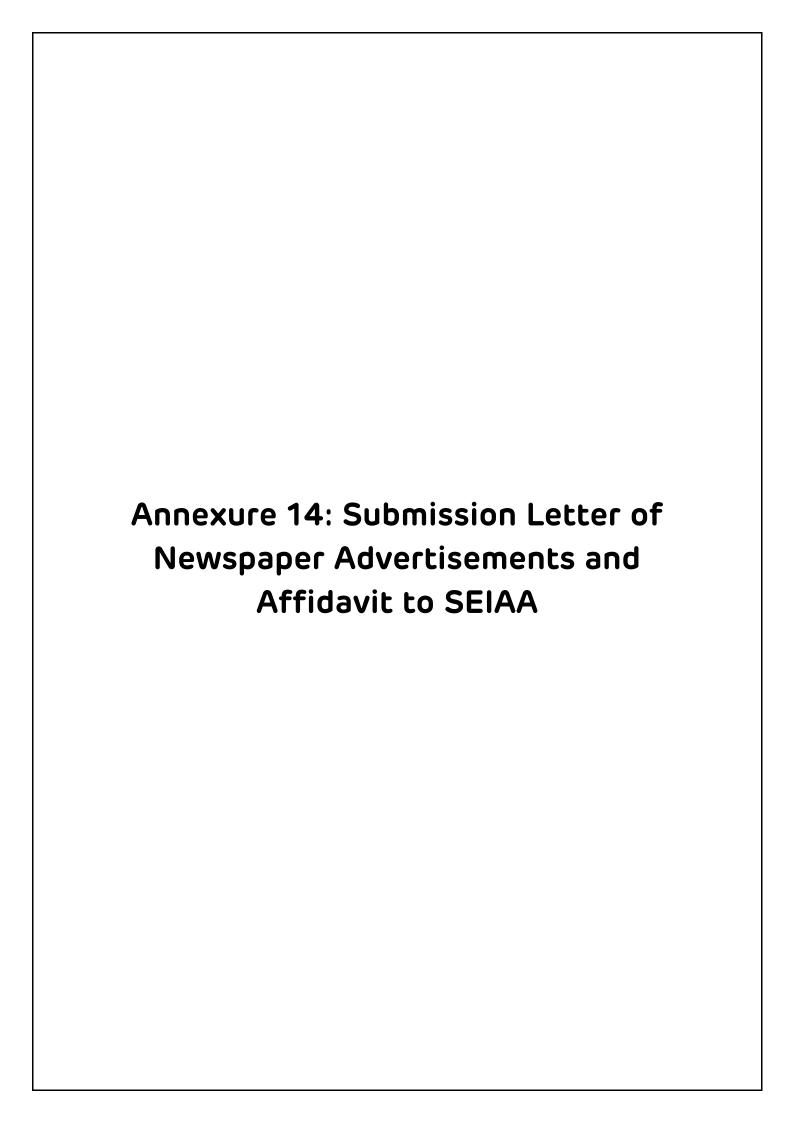
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Ref: AVPPL/SEIAA/2019-20/731

Date: 01-04-2019

Te,
The Administrator
State Environment Impact Assessment Authority (SEIAA),
K.S.R.T.C Bus Terminal Complex, 4th Floor, Thampanoor,
Trivandrum

Subject: Submission of Signed Environment Clearance (EC), Newspapers advertisements and Notarized Affidavit - Reg.

Reference: SEIAA-Environmental Clearance for the proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvanathapuram District, Kerala by Mr. Rajesh Jha, Chief Executive Officer, M/s Adani Vizhinjam Port Private Limited, No. 1200/EC2/2018/SEIAA dated 01.03.2019

Dear Sir.

As per the Environment Clearance (referenced above), wherein general condition 25 and 29 state that:

- "The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.".
- "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."

In this regard, we are herewith enclosing the advertisements published in local newspapers on 9th & 10th March 2019 as **Annexure 1**, Environmental Clearance letter signed on all pages as **Annexure 2**, and the notarized affidavit as **Annexure 3**.

You are requested to kindly acknowledge the receipt of the same. Thanking you,

Yours Sincerely

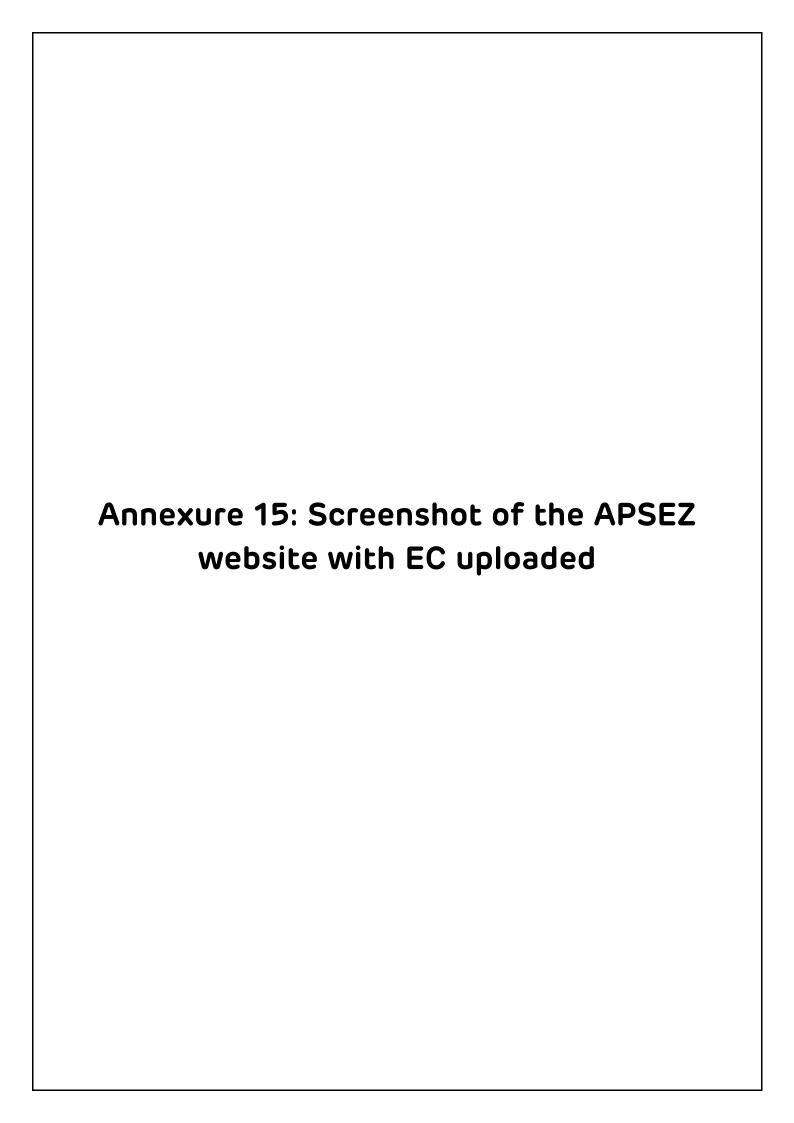
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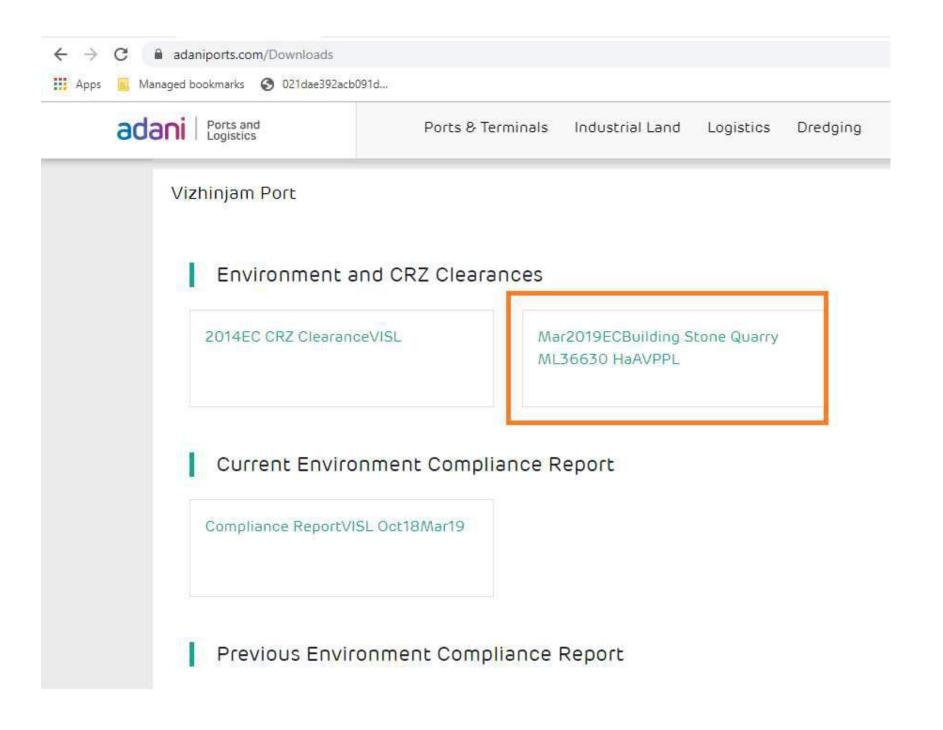
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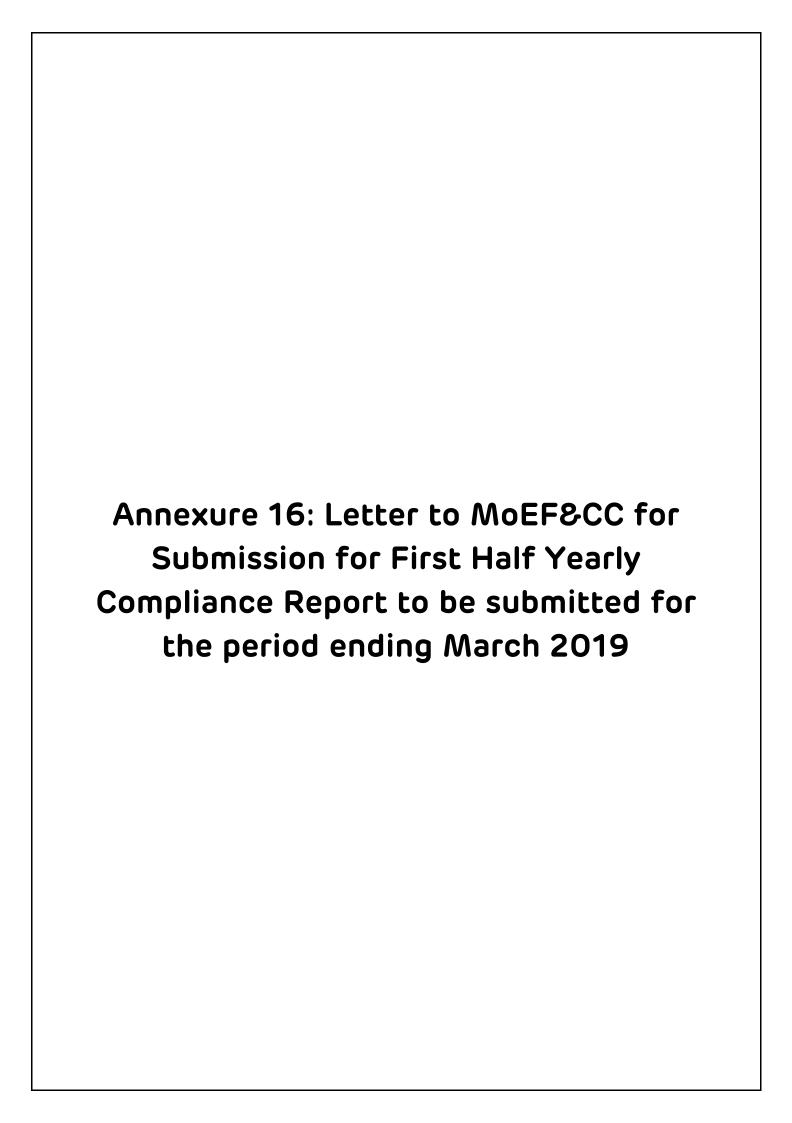
Encl: As Stated Above

Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvanathapuram Kerala-695014 A John Control of the Control of the

www.adani.com CIN -U61200GJ2015PTC083954









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Ref: AVPPL/MOEF/2019-20/752

To,
Ministry of Environment and Forests & Climate Change (MoEF&CC),
Regional Office, Southern Zone,
Kendriya Sadan, 4th Floor, E&F Wing, II Block,
Koramangla, Bangalore 560034

Sub:

Compliances of the Environmental Clearance Issued for the proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala – Reg.

Ref:

- 1. Environmental Clearance Order No. 1200/EC2/2018/SEIAA dated 01.03.2019
- FILE NO: PCB/TVM-DO/ICE/10171298/2019 dated 05.03.2019
 Our Letter Number AVPPL/SEIAA/2019-20/731 dated 01.04.2019

Dear Sir/Madam.

This is with reference to the Environmental Clearance issued for the proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala.

The general conditions of the Environmental Clearance, point no. 27 states that "The Proponent shall submit half yearly reports in soft copy and SEIAA will upload it on to the website". Since the orders for Environmental Clearance was granted on 01.03.2019 and Adani Vizhinjam Port Private Limited (AVPPL) as on date have not initiated any work at the site and therefore the compliance for the half yearly period ending 31.03.2019 is not substantial.

It is requested that the first half yearly Compliance Report will be submitted for the Period April 2019 to September 2019. In the meantime AVPPL have complied with all the conditions that are applicable prior to commencement of operations as detailed below:

- Point No. 20: Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before mining activity – AVPPL have already obtained CTO from Kerala State Pollution Control Board and was awarded the same on 05.03.2019 (Annexure 1).
- Point No. 25: The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made

Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvananthapuram Kerala-695014

www.adani.com CIN -U61200GJ2015PTC0B3954

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India



1

Date: 25th April 2019



within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation – Details of the advertisements that were published in local newspapers on 9th 8 10th March 2019 and the signed Environmental Clearance were intimated and submitted vide Our Letter Number AVPPL/SEIAA/2019-20/731 dated 01.04.2019 (Annexure 2).

- Point No. 26: The Environmental Clearance shall be put on the website of the company by the proponent – The Environmental Clearance has been uploaded to the Adani Ports website: https://www.adaniports.com/ports-downloads?port=Vizhinjam-Port (Annexure 3).
- Point No. 29: 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 - The notarized affidavit was also submitted vide Our Letter Number AVPPL/SEIAA/2019-20/731 dated 01.04.2019 (Annexure 4).

This is for your kind information and records.

Thanking you, yours sincerely

Rajesh Jha MD & CEO

Adani Vizhinjam Port Pvt. Ltd. (AVPPL)

Enclosed: As Stated Above

Copy to:

- (1) The Director (Monitoring-IA II Division), Ministry of Environment and Forests & Climate Change, Indra Paryavaran Bhavan, Jor Bagh, New Delhi 110003
- (2) The Zonal Officer, Central Pollution Control Board (CPCB), Zonal Office, 1st 8-2nd Floors, Nisarga Bhavan, A Block, Thimmiah Main Road, 7th D Cross Shivanagar, Opp. Pushpanjalai Theatre, Bengaluru – 560 010.
- (3) Member Secretary, State Environment Impact Assessment Authority (SEIAA), K.S.R.T.C Bus Terminal Complex, 4th Floor, Thampanoor, Trivandrum – 695014
- (4) The Member Secretary, Kerala State Pollution Control Board (KSPCB), Thiruvananthapuram Regional Office, Plamoodu, Pattom P.O., Thiruvananthapuram - 695 004

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Adani Vizhinjam Port Private Limited 2nd Floor, Vipanchika Tower, Thycaud Thiruvananthapuram Kerala-695014

www.adani.com CIN -U61200GJ2015PTC083954

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India

Jesse Benjamin Fullonton

From: Hebin Chenthamarakshan

Sent: Wednesday, 8 May, 2019 07:13 PM

To: MOEF Bangalore

Cc: seacseiaakerala@gmail.com; CPCB; MOEF Delhi; Zonal office bangalore; 2. Member Secretary- KSPCB

Subject: Environmental Clearance Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 **Attachments:** 1. 08.05.2019 EC Compliance for the period October 2018 to March 2019.pdf

Dear Sir,

This is with reference to the **Environmental Clearance Order No. 1200/EC2/2018/SEIAA dated 01.03.2019** issued to Adani Vizhinjam Port Private Limited (AVPPL) for the proposed building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala.

Project Proponent - Mr Rajesh Jha, Chief Executive officer, Adani Vizhinjam Port Pvt Ltd

EC granted for - Building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala.

Dates 01.03.2019

EC Issued by

- State Environment Impact Authority (SEIAA), Kerala

Since the Environmental Clearance was granted on 01.03.2019 and AVPPL as on date have not initiated any work at the site and therefore the compliance for the half yearly period ending 31.03.2019 is not substantial. Hence, in the meantime AVPPL have complied with all the conditions that are applicable prior to commencement of operations as detailed in the attached letter (Ref: AVPPL/MOEF/2019-20/752 dated 25.04.2019).

Regards

Hebin C

Manager-Environment

Adani Vizhinjam Port Pvt Limited | Second Floor, Vipanchika Tower, Thycaud, Trivandrum, Kerala-695 014.

EXT. No: 91-47122-68823

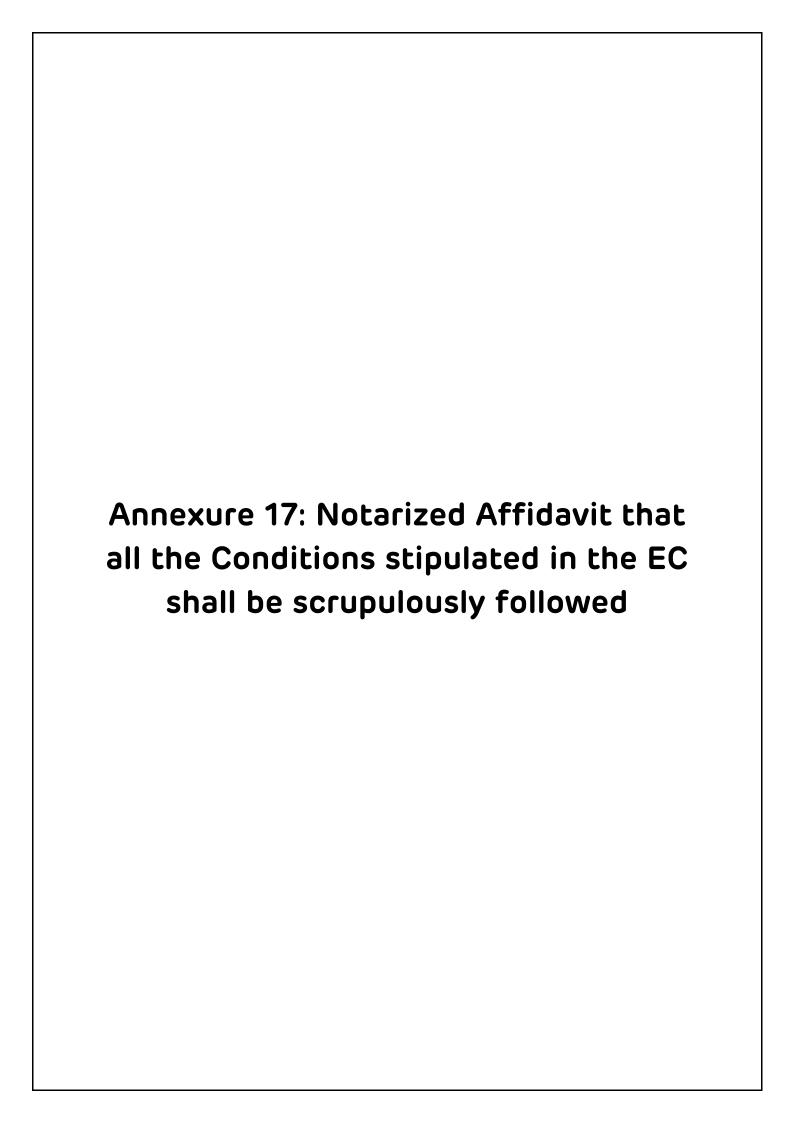
Mob +91 9099056757/9048404798 | Hebin.C@adani.com | www.adani.com





Our Values: Courage | Trust | Commitment







കേരളo केरल KERALA

CE 767184

TO WHOMSOEVER IT MAY CONCERN

Declaration for scrupulously following Environmental Clearance conditions for Building Stone Quarry Situated in Block No-37, Re-Survey No.555/2 of Magaroor Village.

Rajesh Kumar Jha, aged 54 years. S/o Late Krishna Chandra Jha, Chief Executive Officer of Adani Vizhinjam Port Private Limited having office at 2nd Floor, Vipanchika Towers, Thycaud, Thiruvananthapuram do hereby solemnly affirm and state as follows:-





കേരളം केरल KERALA

CE 767185

The company, Adani Vizhinjam Port Pvt. Ltd., was accorded Environmental Clearance with letter No. 1200/EC2/2018/SEIAA dated 01.03.2019 valid till 28.02.2024 for the mine situated in survey No. 555/2 of Nagaroor Village in Chirayinkeezhu taluk of Thiruvananthapuram District. I solemnly affirm that Adani Vizhinjam Port Private Limited will scrupulously follow all the conditions stipulated in the Environmental Clearance accorded by State Environment Impact Assessment Authority.

1777

All the facts stated above are true and correct to the best of our knowledge information and belief.

For ADANI VIZHINJAM PORT PRIVATE LTD

Deponerst Kumar Jha

Solemnly affirmed and signed by the deponent in my presence who is personally known to me, at my office at Vanchiyoor, Thiruvananthapuram, on this the 3rd day of April, 2019.

JAHANGEER. A.
THIRUVARIANTHAPURAM
OISTRICT
Reg. 10. 7362
Espay Gail: 14-12-2023

NOTARIAL REGISTER
Vol.No. 111 Page No. 08
SI.No. 400 Page No. 08

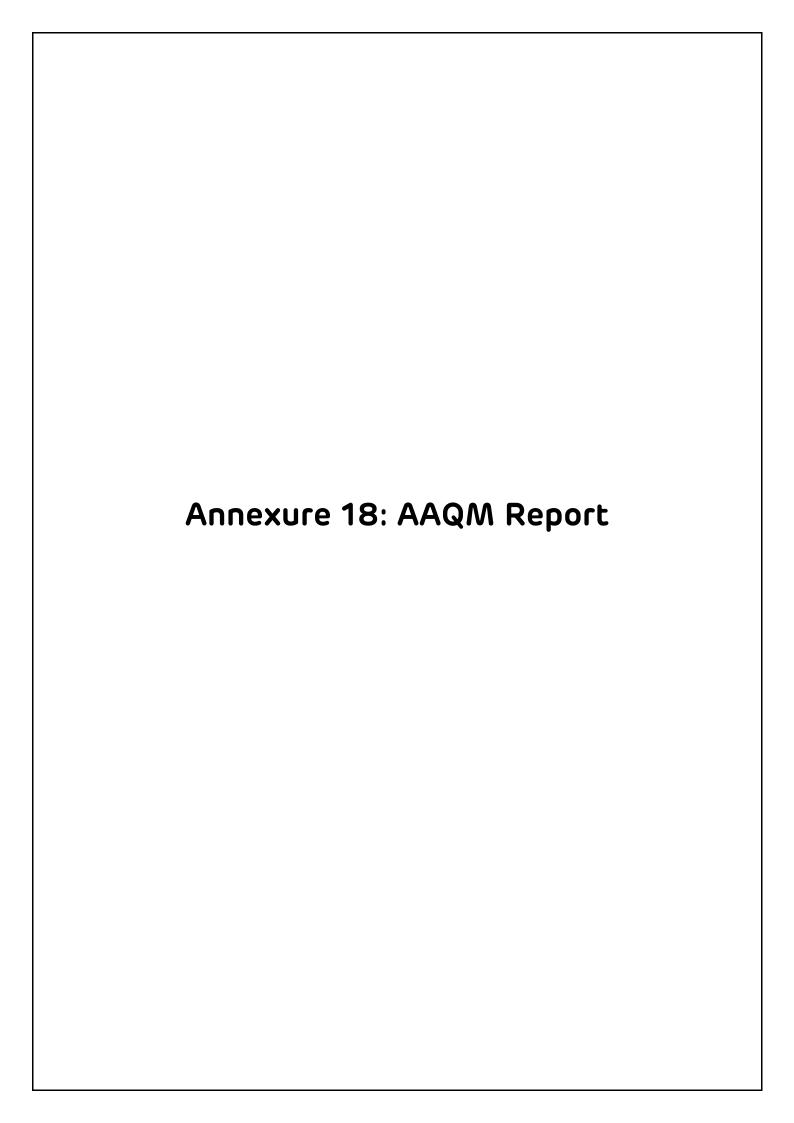
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- thought....process....reality!!

Recognized by MoEF & CC and Accredited by NABL

TEST REPORT

AMBIENT AIR QUALITY DATA

1. Name of the Project : M/s. Adani Vizhinjam Port Pvt. Ltd.,

2. Location Name : Quarry Area

3. Name of the project Proponent : Building Stone Quarry of M/s. Adani Vizhinjam Port Pvt. Ltd.,

Nagaroor village (Kadavila), Chirayinkeez Taluk, Thiruvananthapuram District, Kerala.

4. Month of sampling5. Duration of sampling8 - Hours

5. Duration of sampling : 8 - Hours6. Date of reporting : 05.10.2019

Parameter	PM ₁₀ μg /m ³	$\frac{PM_{2.5}}{\mu g/m^3}$	NO ₂ μg /m ³	SO ₂ μg/m ³	Ammonia μg/m³	
Sample no. Date of Sampling	MGF648853	PT0718729 04191146		04191147		
19.09.2019	60.2	32.5 20.0		12.4		
	IC:5192 (Dowt	MLPL/SOP/44	IS:5182 (Part	IS:5182	MLPL/SOP/41	
Protocol / Method	IS:5182 (Part 23) – Gravimetric method		- Gravimetric method 6) – Jacob and Hochheiser method		– Indophenol blue method	
NAAQ Standards	100	60	80	60	400	

INFERENCE	As per CPCB Standards Report Status: All values are within the prescribed standards.
Sample Collected By	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru

^{**} End of Report **

Authorized Signatory

Laboratory Head Dr. Shanth A. Thimmaiah



"PRAKRUTI BHAVAN", #200, 1st & 2nd Floor, 40th Main, 1st Cross, BTM Layout II Stage, Behind Central Silk Board, Bengaluru – 560068, Karnataka, India, Telefax: +91.80.26783006 Email: mail@metamorphosis-india.com.



- thought....process....reality!!

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TEST REPORT

AMBIENT AIR QUALITY DATA

Name of the Project : M/s. Adani Vizhinjam Port Pvt. Ltd.,

: Nearest settlement towards Near (Kadavila bus stop) @ 450 mts >> SE 2. **Location Name**

Name of the project Proponent : Building Stone Quarry of M/s. Adani Vizhinjam Port Pvt. Ltd.,

Nagaroor village (Kadavila), Chirayinkeez Taluk, Thiruvananthapuram District, Kerala.

Month of sampling : September 2019 4.

5. Duration of sampling : 8 - Hours Date of reporting : 05.10.2019

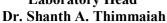
Parameter	PM ₁₀ μg/m ³	PM _{2.5} μg /m ³	NO ₂ μg/m ³	SO ₂ μg/m ³	Ammonia μg/m³	
Sample no. Date of Sampling	0419276B	0419277B	0419278B	0419279B		
19.09.2019	52.1	30.4	25.2	12.9		
Protocol / Method	IS:5182 (Part 23) - Gravimetric method	MLPL/SOP/44 - Gravimetric method	IS:5182 (Part 6) – Jacob and Hochheiser method	IS:5182 (Part 2) – Improved West and Gaeke method	MLPL/SOP/41 – Indophenol blue method	
NAAQ Standards	100	60	80	60	400	

INFERENCE	As per CPCB Standards Report Status: All values are within the prescribed standards.
Sample Collected By	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru

^{**} End of Report **

Authorized Signatory

Laboratory Head







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TEST REPORT

AMBIENT AIR QUALITY DATA

Name of the Project
 M/s. Adani Vizhinjam Port Pvt. Ltd.,
 Location Name
 Nearest settlement @ 900 mts >> W

3. Name of the project Proponent : Building Stone Quarry of M/s. Adani Vizhinjam Port Pvt. Ltd.,

Nagaroor village (Kadavila), Chirayinkeez Taluk, Thiruvananthapuram District, Kerala.

4. **Month of sampling** : September 2019

5. Duration of sampling6. Date of reporting8 - Hours05.10.2019

Parameter	$\begin{array}{c c} PM_{10} & PM_{2.5} \\ \mu g \ /m^3 & \mu g \ /m^3 \end{array}$		$\frac{NO_2}{\mu g/m^3}$	SO ₂ μg/m ³	Ammonia μg /m³	
Sample no. Date of Sampling	0419280B	0419281B	0419282B	0419283B		
19.09.2019	53.1	29.1	16.4	12.4		
Protocol / Method	IS:5182 (Part 23) - Gravimetric method	MLPL/SOP/44 - Gravimetric method	IS:5182 (Part 6) – Jacob and Hochheiser method	IS:5182 (Part 2) – Improved West and Gaeke method	MLPL/SOP/41 – Indophenol blue method	
NAAQ Standards	100	60	80	60	400	

INFERENCE	As per CPCB Standards Report Status: All values are within the prescribed standards.
Sample Collected By	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru

** End of Report **

Authorized Signatory

Laboratory Head Dr. Shanth A. Thimmaiah





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TEST REPORT

AMBIENT AIR QUALITY DATA

Name of the Project
 M/s. Adani Vizhinjam Port Pvt. Ltd.,
 Location Name
 Nearest settlement @ 330 mts >> NNW

3. Name of the project Proponent : Building Stone Quarry of M/s. Adani Vizhinjam Port Pvt. Ltd.,

Nagaroor village (Kadavila), Chirayinkeez Taluk, Thiruvananthapuram District, Kerala.

4. Month of sampling5. Duration of sampling8 - Hours

Date of reporting : 05.10.2019

Parameter	$\begin{array}{ccc} PM_{10} & PM_{2.5} \\ \mu g \ /m^3 & \mu g \ /m^3 \end{array}$		$\frac{NO_2}{\mu g/m^3}$	SO ₂ μg/m ³	Ammonia μg /m³	
Sample no. Date of Sampling	0419284B	0419285B	0419286B 0419287B			
19.09.2019	43.6	22.8	18.2	13.1		
Protocol / Method	IS:5182 (Part 23) - Gravimetric method	MLPL/SOP/44 - Gravimetric method	IS:5182 (Part 6) – Jacob and Hochheiser method	IS:5182 (Part 2) – Improved West and Gaeke method	MLPL/SOP/41 – Indophenol blue method	
NAAQ Standards	100	60	80	60	400	

INFERENCE	As per CPCB Standards Report Status: All values are within the prescribed standards.
Sample Collected By	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru

^{**} End of Report **

Authorized Signatory

Laboratory Head Dr. Shanth A. Thimmaiah



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TEST REPORT

AMBIENT AIR QUALITY DATA

1. Name of the Project : M/s. Adani Vizhinjam Port Pvt. Ltd.,

2. Location Name : Nearest settlement towards (near Altharamudu bus stop) @ 825 mts >> NNE

3. Name of the project Proponent : Building Stone Quarry of M/s. Adani Vizhinjam Port Pvt. Ltd.,

Nagaroor village (Kadavila), Chirayinkeez Taluk, Thiruvananthapuram District, Kerala.

4. Month of sampling : September 2019

5. Duration of sampling : 8 hours6. Date of reporting : 05.10.2019

Parameter	$PM_{10} \mu g / m^3$	PM _{2.5} μg/m ³	NO ₂ μg/m ³	SO ₂ μg/m ³	Ammonia μg /m³	
Sample no. Date of Sampling	0419360B	0419361B	0419362B	0419363B		
19.09.2019	50.9	27.6	20.0	14.6		
Protocol / Method	IS:5182 (Part 23) – Gravimetric method	MLPL/SOP/44 - Gravimetric method	IS:5182 (Part 6) – Jacob and Hochheiser method	IS:5182 (Part 2) – Improved West and Gaeke method	MLPL/SOP/41 - Indophenol blue method	
NAAQ Standards	100	60	80	60	400	

INFERENCE	As per CPCB Standards Report Status: All values are within the prescribed standards.
Sample Collected By	M/s. METAMORPHOSIS Laboratory Private Limited, Bengaluru

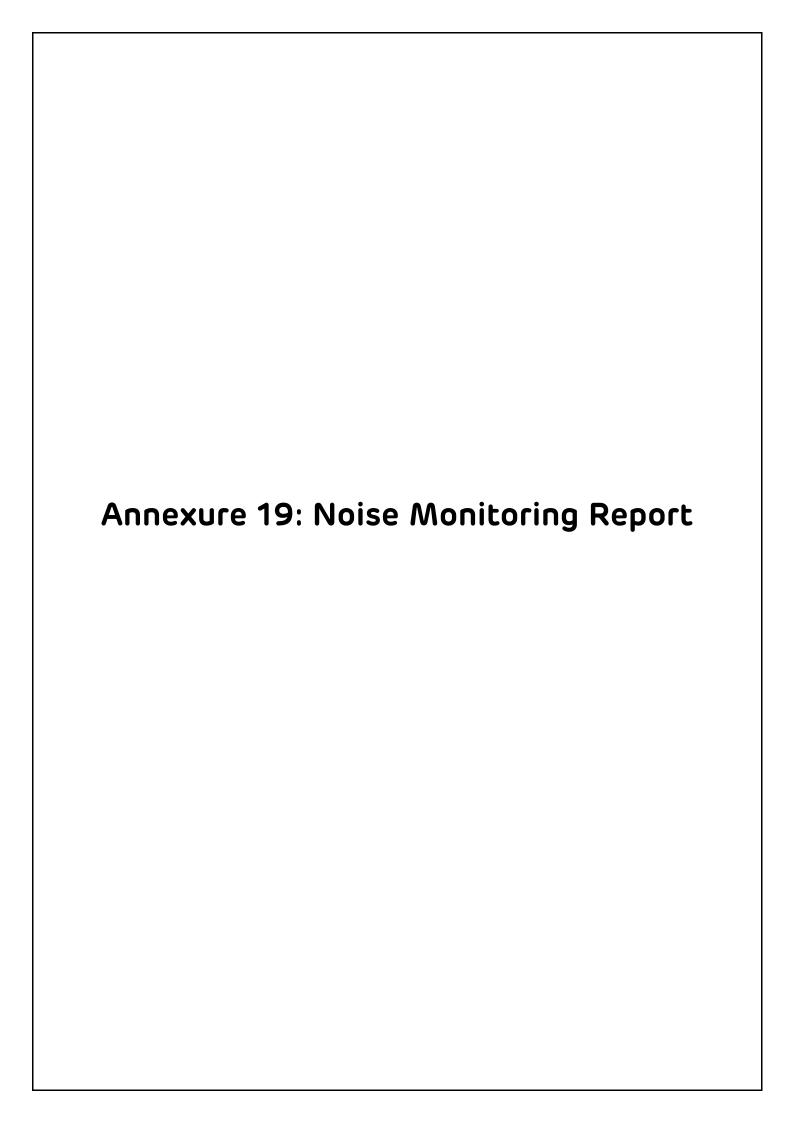
^{**} End of Report **

Authorized Signatory

Laboratory Head Dr. Shanth A. Thimmaiah



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TEST REPORT

AMBIENT NOISE MEASUREMENT

Name of the project : M/s. Adani Vizhinjam Port Pvt. Ltd., 2

Location name : Quarry Area

: Building Stone Quarry of M/s. Adani Vizhinjam Port Pvt. Ltd., Name of the project Proponent

Nagaroor village (Kadavila), Chirayinkeez Taluk, Thiruvananthapuram District,

Kerala.

Date of Measurement : 19.09.2019

Name of instrument : Digital sound level meter Equinox & EQ-107 5.

Date of reporting : 05.10.2019

			Result (dB (A))					
Sampling point	Sample no.	Protocol	Day			Night		
			LMin	LMax	Leq	LMin	LMax	Leq
Quarry Area	04191095	IS:9989 -1981	69.9	76.8	72.6	53.4	59.9	55.7

	Limits in dB (A) Leq								
Area Code	Category of Area/ Zone	Night (10 p.m. to 6 a. m.)							
(A)	Industrial Area	75	70						
(B)	Commercial Area	65	55						
(C)	Residential Area	55	45						
(D)	Sensitive Zone	50	40						

Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	Report Status as per KSPCB Standards:- Values are found to be within the						
	permissible limits applicable to industrial area.						
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bengaluru.						

End of Report

Authorized Signatory

Laboratory Head Dr. Shanth A. Thimmaiah



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TEST REPORT

AMBIENT NOISE MEASUREMENT

1. Name of the project

Location name

Name of the project Proponent

: M/s. Adani Vizhinjam Port Pvt. Ltd., : Nearest settlement towards Near (Kadavila bus stop) @ 450 mts >> SE

: Building Stone Quarry of M/s. Adani Vizhinjam Port Pvt. Ltd.,

Nagaroor village (Kadavila), Chirayinkeez Taluk, Thiruvananthapuram District,

Kerala.

4. **Date of Measurement**

Name of instrument

Date of reporting

: 19.09.2019 : Digital sound level meter Equinox & EQ-107

: 05.10.2019

			Result (dB (A))					
Sampling point	Sample no.	Protocol		Day			Night	
	_		LMin	LMax	Leq	LMin	LMax	Leq
Nearest settlement towards Near (Kadavila bus stop) @ 450 mts >> SE	04191096	IS:9989 -1981	60.0	70.0	69.9	45.9	52.1	48.5

Limits in dB (A) Leq								
Area Code	Category of Area/ Zone	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a. m.)					
(A)	Industrial Area	75	70					
(B)	Commercial Area	65	55					
(C)	Residential Area	55	45					
(D)	Sensitive Zone	50	40					

Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	Report Status as per KSPCB Standards: - Day time values are found to be higher
	than the permissible limits applicable to residential area due to the day activities.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bengaluru.

End of Report

Authorized Signatory

Laboratory Head Dr. Shanth A. Thimmaiah



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TEST REPORT

AMBIENT NOISE MEASUREMENT

1. Name of the project

2. Location name

3. Name of the project Proponent

: M/s. Adani Vizhinjam Port Pvt. Ltd.,

: Nearest settlement towards @ 900 mts >> W

: Building Stone Quarry of M/s. Adani Vizhinjam Port Pvt. Ltd.,

Nagaroor village (Kadavila), Chirayinkeez Taluk, Thiruvananthapuram District,

Kerala.

4. Date of Measurement

5. Name of instrument6. Date of reporting

: 19.09.2019

: Digital sound level meter Equinox & EQ-107

: 05.10.2019

			Result (dB (A))					
Sampling point	Sample no.	Protocol		Day			Night	
			LMin	LMax	Leq	LMin	LMax	Leq
Nearest settlement towards @ 900 mts >> W	04191097	IS:9989 -1981	59.9	68.4	62.8	45.9	50.8	52.4

Limits in dB (A) Leq							
Area Code	Category of Area/ Zone	Night (10 p.m. to 6 a. m.)					
(A)	Industrial Area	75	70				
(B)	Commercial Area	65	55				
(C)	Residential Area	55	45				
(D)	Sensitive Zone	50	40				

Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	Report Status as per KSPCB Standards:- Values are found to be higher than the
	permissible limits applicable to residential area.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bengaluru.

End of Report

Authorized Signatory

Laboratory Head Dr. Shanth A. Thimmaiah



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TEST REPORT

AMBIENT NOISE MEASUREMENT

Name of the project

Location name

Name of the project Proponent

2.

: Nearest settlement towards @ 330 mts >> NNW : Building Stone Quarry of M/s. Adani Vizhinjam Port Pvt. Ltd., Nagaroor village (Kadavila), Chirayinkeez Taluk, Thiruvananthapuram District,

: M/s. Adani Vizhinjam Port Pvt. Ltd.,

Kerala.

Date of Measurement

Name of instrument 5. Date of reporting

: 19.09.2019 : Digital sound level meter Equinox & EQ-107

: 05.10.2019

			Result (dB (A))					
Sampling point	Sample no.	Protocol		Day			Night	
			LMin	LMax	Leq	LMin	LMax	Leq
Nearest settlement towards @ 330 mts >> NNW	04191098	IS:9989 -1981	61.6	70.8	62.3	48.6	54.4	53.5

Limits in dB (A) Leq									
Area Code Category of Area/ Zone Day (6 a.m. to 10 p.m.) Night (10 p.m. to 6 a. m.)									
(A)	Industrial Area	75	70						
(B)	Commercial Area	65	55						
(C)	Residential Area	55	45						
(D)	Sensitive Zone	50	40						

Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	Report Status as per KSPCB Standards: - Day time values are found to be higher than
	the permissible limits applicable to residential area due to the day activities.
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bengaluru.

End of Report

Authorized Signatory

Laboratory Head Dr. Shanth A. Thimmaiah



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TEST REPORT

AMBIENT NOISE MEASUREMENT

1. Name of the project

2. Location name

3. Name of the project Proponent

Date of Measurement

Name of instrument Date of reporting

: M/s. Adani Vizhinjam Port Pvt. Ltd.,

: Nearest settlement towards (near Altharamudu bus stop) @ 825 mts >> NNE

: Building Stone Quarry of M/s. Adani Vizhinjam Port Pvt. Ltd.,

Nagaroor village (Kadavila), Chirayinkeez Taluk, Thiruvananthapuram District,

Kerala.

: 19.09.2019

: Digital sound level meter Equinox & EQ-107

: 05.10.2019

			Result (dB (A))					
Sampling point	Sample no.	Protocol		Day			Night	
			LMin	LMax	Leq	LMin	LMax	Leq
Nearest settlement towards (near Altharamudu bus stop) @ 825 mts >> NNE	04191164	IS:9989 -1981	59.9	70.0	64.6	49.9	56.1	54.1

Limits in dB (A) Leq				
Area Code	Category of Area/ Zone	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a. m.)	
(A)	Industrial Area	75	70	
(B)	Commercial Area	65	55	
(C)	Residential Area	55	45	
(D)	Sensitive Zone	50	40	

Note: The result & inference pertains to the sample tested only and parameters as per the requisition of the client.

INFERENCE	Report Status as per KSPCB Standards: - Day time values are found to be higher	
	than the permissible limits applicable to residential area due to the day activities.	
Sample Collected By	M/s. METAMORPHOSIS SM Laboratory Private Limited, Bengaluru.	

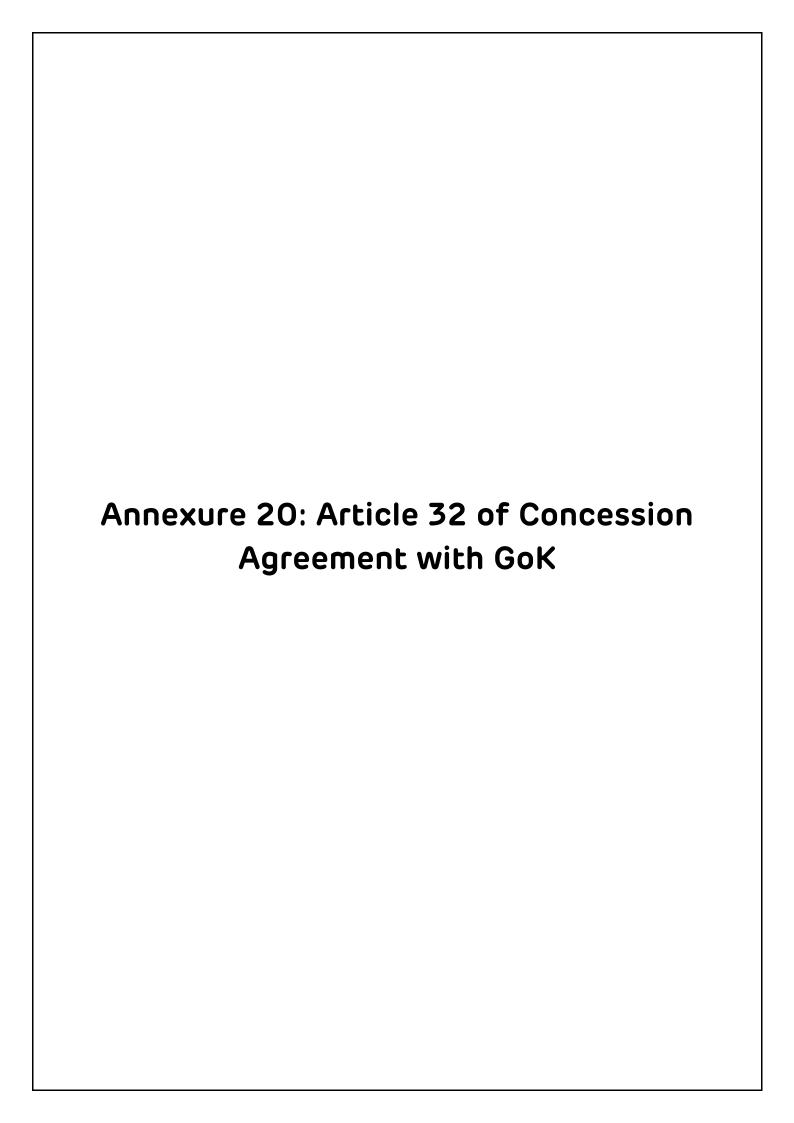
End of Report

Authorized Signatory

Laboratory Head Dr. Shanth A. Thimmaiah



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ARTICLE 32

ESCROW ACCOUNT

32.1 Escrow Account

- 32.1.1 The Concessionaire shall, prior to the Appointed Date, open and establish an Escrow Account with a Bank (the "Escrow Bank") in accordance with this Agreement read with the Escrow Agreement.
- 32.1.2 The nature and scope of the Escrow Account are fully described in the agreement (the "Escrow Agreement") to be entered into amongst the Concessionaire, the Authority, the Escrow Bank and the Senior Lenders through the Lenders' Representative, which shall be substantially in the form set forth in Schedule-S.

32.2 Deposits into Escrow Account

The Concessionaire shall deposit or cause to be deposited the following inflows and receipts into the Escrow Account:

- (a) all funds constituting the Financial Package;
- (b) all Fee and any other revenues from or in respect of the Port, including the proceeds of any rentals, deposits, capital receipts or insurance claims; and
- (c) all payments by the Authority, after deduction of any outstanding Concession Fee:

Provided that the Senior Lenders may make direct disbursements to the EPC Contractor in accordance with the express provisions contained in this behalf in the Financing Agreements.

32.3 Withdrawals during Concession Period

- 32.3.1 The Concessionaire shall, at the time of opening the Escrow Account, give irrevocable instructions, by way of an Escrow Agreement, to the Escrow Bank instructing, inter alia, that deposits in the Escrow Account shall be appropriated in the following order every month, or at shorter intervals as necessary, and if not due in a month then appropriated proportionately in such month and retained in the Escrow Account and paid out therefrom in the month when due:
 - all taxes due and payable by the Concessionaire for and in respect of the Port, excluding Port Estate Development;
 - (b) all payments relating to construction of the Port, subject to and in accordance with the conditions, if any, set forth in the Financing Agreements;

O&M Expenses, subject to the ceiling, if any, set forth in the Financing

Agreements

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- (d) O&M Expenses and other costs and expenses incurred by the Authority in accordance with the provisions of this Agreement, and certified by the Authority as due and payable to it;
- (e) Concession Fee due and payable to the Authority;
- (f) monthly proportionate provision of Debt Service due in an Accounting Year:
- (g) all payments and Damages certified by the Authority as due and payable to it by the Concessionaire, including repayment of Revenue Shortfall Loan;
- (h) monthly proportionate provision of debt service payments due in an Accounting Year in respect of Subordinated Debt;
- (i) any reserve requirements set forth in the Financing Agreements; and
- (j) balance, if any, in accordance with the instructions of the Concessionaire.
- 32.3.2 The Concessionaire shall not in any manner modify the order of payment specified in Clause 32.3.1, except with the prior written approval of the Authority.

32.4 Withdrawals upon Termination

- 32.4.1 Notwithstanding anything to the contrary contained in this Agreement, all amounts standing to the credit of the Escrow Account shall, upon Termination, be appropriated in the following order:
 - (a) all taxes due and payable by the Concessionaire for and in respect of the Port, excluding Port Estate Development;
 - (b) 90% (ninety per cent) of Debt Due excluding Subordinated Debt;
 - (c) outstanding Concession Fee;
 - (d) all payments and Damages certified by the Authority as due and payable to it by the Concessionaire, including Premium and repayment of Revenue Shortfall Loan;
 - (e) retention and payments relating to the liability for defects and deficiencies set forth in Article 40;
 - (f) outstanding Debt Service including the balance of Debt Due;
 - (g) outstanding Subordinated Debt;
 - (h) incurred or accrued O&M Expenses;

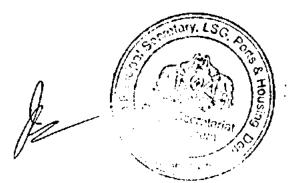
any other payments required to be made under this Agreement; and

balance, if any condance with the instructions of the Concessionaire

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Provided that no appropriations shall be made under Sub-clause (j) of this Clause 32.4.1 until a Vesting Certificate has been issued by the Authority under the provisions of Article 39.

32.4.2 The provisions of this Article 32 and the instructions contained in the Escrow Agreement shall remain in full force and effect until the obligations set forth in Clause 32.4.1 have been discharged.





EC Compliance Report April 2019 to September 2019
Building Stone Quarry Project: Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District
adani
Adani Vizhinjam Port Private Ltd. (AVPPL)