

Ref: AVPPL/MoEF/2021-22/1583

Date: 24<sup>th</sup> May 2021

To,  
Additional Principal Chief Conservator of Forests (C),  
Ministry of Environment Forest and Climate Change (MoEF&CC),  
Regional Office (Southern Zone), Kendriya Sadan,  
IV<sup>th</sup> Floor, E&F Wings, 17<sup>th</sup> Main Road, II<sup>nd</sup> Block,  
Koramangala, Bangalore-560034  
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Ph: 080-25635901

**Subject:** Submission of Half Yearly Compliance Report (HYCR) to Conditions of Environmental Clearance (EC) for the Period October 2020 to March 2021 - Reg.

**Reference:** EC for building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala; by M/s. Adani Vizhinjam Port Pvt. Ltd. vide **No. 1200/EC2/2018/SEIAA dated 01.03.2019**

Dear Sir,

This has reference to the Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA issued on 3<sup>rd</sup> March 2019 (vide reference cited) by the State Environmental Impact Assessment Authority (SEIAA), Kerala for the building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala of M/s Adani Vizhinjam Port Private Limited (AVPPL).

The Half Yearly EC Compliance Report (HYCR) of the conditions stipulated in the cited reference for the period from October 2020 to March 2021 is enclosed herewith for record and reference. You are requested to kindly acknowledge the receipt of the same.

Thanking you.  
Yours Sincerely

Rajesh Kumar Jha  
MD & 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

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# **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


**Half Yearly Compliance Report (HYCR)  
for the Period October 2020 to March 2021**

Project Proponent




**Adani Vizhinjam Port Private Ltd. (AVPPL)**

**May 2021**


	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2020 To: March 2021
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District		


Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021		
S. No.	Conditions	Compliance Status as on March 31, 2021
Specific Conditions		
1	The mining should be conducted with Non-Electric Detonator (NONEL) Method thereby minimizing air blast, fly rock and ground vibration.	<b>Complied</b> Mining is being conducted using Non-Electric Detonator (NONEL) method of Blasting only. To minimize the air blast, fly rock and ground vibration. Till date no incident to fly rock has been recorded.
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.	<b>Will be Complied</b> During the compliance period (October 2020 to March 2021), a total of 1.91 Lakh Tons of building stones have been extracted and a total cumulative quantity of 6.28 Lakh Tons of building stones have been extracted from inception of mining on 02.07.2019 till 31.03.2021.  AVPPL had submitted to State Environmental Impact Assessment Authority – Kerala (SEIAA) the requirement of additional quantity of rocks for completion of Vizhinjam Port breakwater construction by 2023; indicating that the estimated quantity of rock required for the phase 1 project as 86.53 Lakh Tons and the total amount of rock that can be sourced from the operational quarries for which have obtained EC up to 2023 is only 25.17 Lakh Tons which is much below the total requirement for the project. Therefore, there is an additional requirement for completing the phase 1 of the Vizhinjam project.  The proposal was placed before the 112 <sup>th</sup> , 113 <sup>th</sup> and 114 <sup>th</sup> meetings of the State Expert Appraisal Committee (SEAC) and the committee decided to recommend the issuance of Environmental Clearance (EC) for mining 10.79 Lakh Tons in addition to the existing clearance for 7 Lakh Tons already given as per the approved mining plan.  The proposal was also examined in the 105 <sup>th</sup> meeting of the SEIAA and the authority decided to issue EC for the extraction of balance quantity of 10.79 Lakh Tons granite rock for the period from 2021-22 to 2023-24 subject

	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2020 To: March 2021
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District		

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021		
S. No.	Conditions	Compliance Status as on March 31, 2021
		<p>original EC conditions vide their order No. 1200/EC2/2018/SEIAA dated 16.11.2020 (SEIAA order or EC is Enclosed as <b>Annexure 1</b>).</p> <p>Additionally, as a precautionary measure Authority decided to constitute a monitoring team consisting of an Expert member from SEAC (Team leader) nominated by Chairman SEAC, District Geologist and a responsible senior functionary nominated by AVPPL to monitor the functioning of the quarry.</p> <p>SEIAA, vide their order No. 1200/EC2/2018/SEIAA dated 31.03.2021 (Enclosed as <b>Annexure 2</b>), constituted the monitoring team comprising of:</p> <ol style="list-style-type: none"> <li>1. Shri. K. Krishna Panicker, Expert Member, SEAC (Team Leader)</li> <li>2. District Geologist, Thiruvananthapuram</li> <li>3. Mr. Palanivelu Kumar, AVPPL</li> </ol> <p>The team will inspect the quarry at least once every 3 months and prepare an inspection report. Team will also suggest corrective measures for irregularities if any. The project proponent will provide logistic support for field inspection.</p>
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.	<p><b>Complied</b></p> <p>AVPPL have submitted to SEIAA an affidavit dated 08.11.2019 duly signed by the MD and CEO vide letter AVPPL/SEIAA/2019-20/945 dated 15.11.2019 that Rs. 15 Lakhs will be spent as a part of Corporate Environment Responsibility (CER) in consultation with the Local Self Government. A copy of the affidavit was submitted along with the HYCR for the period October 2019 to March 2020.</p>
4	The proponent should follow the closure plans (progressive closure and final closure) as per KMMC Rules.	<p><b>Will be Complied</b></p> <p>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. Approved Mining Plan was submitted along with HYCR for the period April 2019 to September 2019).</p>

<b>adani</b>	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: October 2020 To: March 2021</b>
<b>Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District</b>		


<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2021</b>
		The closure procedure (progressive closure and final closures) shall be documented prior to and during the closure of the mine.
<b>General Conditions</b>		
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.	<b>Complied</b> 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 details of the EMMC was submitted along with HYCR for the period April 2019 to September 2019.
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.	<b>Being Complied</b> There is already existing plantation along the tar road. AVPPL have planted avenue trees at suitable locations.
3	Sprinklers shall be installed and used in the project site to contain dust emissions.	<b>Being Complied</b> Regular water sprinkling through water tankers on haul road and other dust prone areas such as loading and unloading of minerals is being carried out. 
4	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent	<b>Will be Complied</b> Eco-restoration including Mine Closure Plan is provided in the Approved Mining Plan. Approved Mining Plan was submitted along with HYCR for the period April 2019 to


	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2020 To: March 2021
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District		

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021		
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		September 2019. The same shall be implemented during the closure 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.	<p><b>Not Applicable</b></p> <p>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.</p> <p>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.</p>
6	Corporate Environment Responsibility agreed upon by the proponent should be implemented.	<p><b>Will be Complied</b></p> <p>A total of Rs. 15 Lakhs will be spent on CER for a period of 5 years. AVPPL is coordinating with the Local Self Government regarding approval of the proposed CER plan with expense heads under specific activities in line with MoEF&amp;CC Office Memorandum (OM) F.No.22-65/2017-IA.III dated 01.05.2018.</p> <p>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 (Proposed plan was submitted along with HYCR for the period October 2019 to March 2020). Correspondence to the President of the Nagaroor Gram Panchayat was submitted along with HYCR for the period April 2019 to September 2019.</p> <p>Considering the requirements of the community and on discussions with the local panchayat, AVPPL has implemented CER activities in the surrounding areas of the quarry site. During the compliance period, following activities have</p>



<b>adani</b>	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: October 2020 To: March 2021</b>
<b>Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District</b>		


<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2021</b>
		<p>been taken up as a part of CER:</p> <p>AVPPL is supplying drinking water to the local people in the vicinity of the project site. Work was awarded to a local contractor to supply water through tankers.</p> <p>Govt. Upper Primary School (UPS) Vanchiyoor is the only school in Karavaram Grama Panchayath with about 350 students studying. Many of whom are economically backward and they are using public buses for transportation. The school Parents Teachers Association (PTA) decided to buy a bus and to collect contributions from the local people. As a part of CER, AVPPL decided to contribute an amount of Rs. 1 Lakh towards acquiring a school bus for the children of Govt. UPS.</p>
7	The project proponent shall comply the conditions stipulated by the statutory authorities concerned	<p><b>Being Complied</b></p> <p>AVPPL is complying with all applicable conditions stipulated by respective competent statutory authorities.</p>
8	Tarring /multiple options on the access roads shall be undertaken so as to reduce dust pollution during movement of vehicle.	<p><b>Complied</b></p> <p>AVPPL has developed a tar road of around 0.9 km from the quarry project site gate to Kadavilla Junction (which is connected to SH46 and onto NH66) for movement of vehicles; thereby reducing the dust pollution.</p>  <p><b>Tar Road at Project Site</b></p>

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S. No.	Conditions	Compliance Status as on March 31, 2021
9	Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions	<b>Not Applicable</b> The quarry has been mined earlier by another party 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
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.	<b>Being Complied</b> 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.
11	Ground level should be fixed in individual cases separately	<b>Complied</b> 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. Approved Mining Plan was submitted along with HYCR for the period April 2019 to September 2019.
12	No mining operations should be carried out at places having a slope greater than 45.	<b>Being Complied</b> 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	<b>Not Applicable</b> 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.	<b>Being Complied</b> All employees are provided with relevant Personal Protective Equipment (PPEs) like Helmets, Shoes, Fluorescent Reflective Jackets, etc.




**Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021**


S. No.	Conditions	Compliance Status as on March 31, 2021
		 <p><b>Employees with PPEs</b></p>
15	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	<p><b>Will be Complied</b></p> <p>Mining operations are being carried out in the top level during the compliance period. However, garland drainage has been developed in the lower slopes to channelize storm water.</p>  <p><b>Garland Drain</b></p>

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

<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2021</b>
16	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.	<p><b>Being Complied</b></p> <p>The transportation of minerals in trucks is being undertaken covered with tarpaulin cover.</p>  <p><b>Truck with Tarpaulin Cover</b></p> <p>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.</p>
17	Explosives should be stored in magazines in isolated place specified and approved by Explosives Department	<p><b>Being Complied</b></p> <p>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 and No Objection Certificate (NoC) from the Trivandrum District Collector for storage of explosives in the magazine.</p> <p>AVPPL have obtained permission from Dy. Chief Controller of Explosives, Ernakulum to possess and use of the Explosives directly in our Quarry on the basis of Form 22 of Indian Explosives Act, 1884.</p>
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	<p><b>Complied</b></p> <p>As per the Government of Kerala (GoK) State Gazette Notification G.O. (P) No. 25/2017/ID dated 22.06.2017, permit holder shall not carry on or allow to be carried on any quarrying</p>


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	be provided.	<p>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.</p> <p>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.</p> <p>Further, DMG had communicated to SEIAA vide its letter No. 9363/M3/2018 dated 23.03.2019 (A copy of the letter was submitted along with the HYCR for the period October 2019 to March 2020) that as per Rule 40 1(i) of the KMMC Rules, the lessee is permitted to carry out mining at a distance of 50 m from the residential houses.</p> <p>As per the map prepared by the village officer, the nearest house is ~60 m from the boundary of the quarry.</p>
19	50 m buffer distance should be maintained from forest boundaries.	<p><b>Not Applicable</b></p> <p>There are no forests in the vicinity of the project site.</p>
20	Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.	<p><b>Complied</b></p> <p>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 was submitted along with HYCR for the period April 2019 to September 2019.</p> <p>Further, The CTO was renewed vide Consent No. PCB/TVM-DO/CHZ/ICO(R)/QRY/128/2020 dated 18.12.2020 valid up to 28.02.2024. Copy of the renewed CTO is enclosed as <b>Annexure 3</b>.</p>
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.	<p><b>Complied</b></p> <p>AVPPL have obtained all applicable statutory clearances from the respective competent authorities. The following clearances have been obtained:</p> <ul style="list-style-type: none"> <li>No Objection Certificate (NoC) from Trivandrum District Collector vide Letter No. B7-40269/2017 dated 30.04.2018 for Govt.</li> </ul>


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S. No.	Conditions	Compliance Status as on March 31, 2021
		<p>land.</p> <ul style="list-style-type: none"> <li>Letter of Intent from DMG vide Letter No. 9363/M3/2018 dated 04.09.2018</li> <li>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. Further, The CTO was renewed vide Consent No. PCB/TVM-DO/CHZ/ICO(R)/QRY/128/2020 dated 18.12.2020 valid up to 28.02.2024.</li> <li>Purchase and Use of Explosives Approval from Petroleum &amp; Explosives Safety Organization (PESO), Ernakulam vide Letter No. E/Misc/Expl dated 27.03.2019</li> <li>Dangerous and Offensive Trade (D&amp;O) License from Nagaroor Gram Panchayat vide License Number A2.1836\2019 dated 01.04.2019</li> <li>NoC for Use of Explosives from District Collector, Thiruvananthapuram vide File No.DCTVM/2436/2019-A17 dated 09.05.2019</li> <li>Approved Mining Plan by District Geologist, Trivandrum vide Letter No. 1716/DOT/ML/18 dated 20.05.2019</li> <li>Lease Order from DMG vide Letter No. 9363/M3/2018 dated 20.05.2019</li> <li>Lease Execution from Additional Director of Mining and Geology vide Letter No. 79/2019-20/9363/M3/2018/DMG dated 20.05.2019</li> <li>Quarrying Lease Registration Agreement in Form H at Chirayinkeezhu Register Office dated 22.05.2019</li> </ul> <p>Copies of the above mentioned approvals were submitted along with HYCR for the period April 2019 to September 2019. Copy of the renewed CTO is enclosed as <b>Annexure 3</b>.</p>
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	<p><b>Complied</b></p> <p>AVPPL had submitted to SEIAA, Kerala the requirement of additional quantity of rocks for completion of Vizhinjam Port breakwater construction by 2023; indicating that the</p>




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	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	<p>estimated quantity of rock required for the phase 1 project as 86.53 Lakh Tons and the total amount of rock that can be sourced from the operational quarries for which have obtained EC up to 2023 is only 25.17 Lakh Tons which is much below the total requirement for the project. Therefore, there is an additional requirement for completing the phase 1 of the Vizhinjam project.</p> <p>The proposal was placed before the 112<sup>th</sup>, 113<sup>th</sup> and 114<sup>th</sup> meetings of the State Expert Appraisal Committee (SEAC) and the committee decided to recommend the issuance of Environmental Clearance (EC) for mining 10.79 Lakh Tons in addition to the existing clearance for 7 Lakh Tons already given as per the approved mining plan.</p> <p>The proposal was also examined in the 105<sup>th</sup> meeting of the SEIAA and the authority decided to issue EC for the extraction of balance quantity of 10.79 Lakh Tons granite rock for the period from 2021-22 to 2023-24 subject original EC conditions vide their order No. 1200/EC2/2018/SEIAA dated 16.11.2020 (Enclosed as <b>Annexure 1</b>).</p>
23	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.	<p><b>Being Complied</b></p> <p>As an additional precautionary safeguard measure, Authority decided to constitute a monitoring team consisting of an Expert member from SEAC (Team leader) nominated by Chairman SEAC, District Geologist and a responsible senior functionary nominated by AVPPL to monitor the functioning of the quarry.</p> <p>SEIAA, vide their order No. 1200/EC2/2018/SEIAA dated 31.03.2021 (Enclosed as <b>Annexure 2</b>), constituted the monitoring team comprising of:</p> <ol style="list-style-type: none"> <li>1. Shri. K. Krishna Panicker, Expert Member, SEAC (Team Leader)</li> <li>2. District Geologist, Thiruvananthapuram</li> <li>3. Mr. Palanivelu Kumar, AVPPL</li> </ol>

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

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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2021</b>
		The team will inspect the quarry at least once 3 months and prepare an inspection report. Team will also suggest corrective measures for irregularities if any. The project proponent will provide logistic support for field inspection.
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.	<b>Noted</b>
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 <a href="http://www.seiaakerala.org">www.seiaakerala.org</a> . 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.	<p><b>Complied</b></p> <p>EC for the project was issued on 01.03.2019. Advertisements, that the project has been accorded EC were published within 10 (Ten) days in two widely circulated local newspapers: The Hindu (English) on 09.03.2019 and Mathrubhumi (Malayalam – vernacular language) on 10.03.2019. Also, copy of the EC is available with the SEIAA office and it is also available on the website of the Authority at <a href="http://www.seiaakerala.in">www.seiaakerala.in</a>. Screenshot of the website showing the details of the EC was submitted along with HYCR for the period October 2019 to March 2020.</p> <p>Extracts of these newspaper clippings with the advertisements were submitted along with HYCR for the period April 2019 to September 2019.</p> <p>Copy of the advertisements signed on all pages were submitted to SEIAA vide Letter No. AVPPL/SEIAA/2019-20/731 dated 01.04.2019 was submitted along with HYCR for the period April 2019 to September 2019.</p> <p>The copy of EC is uploaded to the company website: <a href="https://www.adaniports.com/ports-">https://www.adaniports.com/ports-</a></p>




	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2020 To: March 2021
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District		


Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021		
S. No.	Conditions	Compliance Status as on March 31, 2021
		<a href="#">downloads?port=Vizhinjam-Port</a> Screenshot of the same was submitted along with HYCR for the period April 2019 to September 2019.
26	The Environmental Clearance shall be put on the website of the company by the proponent.	<b>Complied</b> The copy of EC is uploaded to the company website: <a href="https://www.adaniports.com/ports-downloads?port=Vizhinjam-Port">https://www.adaniports.com/ports-downloads?port=Vizhinjam-Port</a> Screenshot of the same was submitted along with HYCR for the period April 2019 to September 2019.
27	Proponent shall submit half yearly reports in soft copy and SEIAA will upload it on the website.	<b>Being Complied</b> HYCRs on the status of compliance of the stipulated clearance conditions are being submitted to all the concerned agencies. As per the Notification of Ministry of Environment and Forests & Climate Change (MoEF&CC) dated 26.11.2018, wherein submission of HYCRs by email/soft copy is declared acceptable, soft copy of HYCR for the period April 2020 to September 2020 has been submitted vide email dated 28.11.2020 (a copy of the email is enclosed as <b>Annexure 4</b> ).
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	<b>Complied</b> The details of EC have been displayed at the site next to the entrance of the quarry, visible to the public.

<b>adani</b>	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: October 2020 To: March 2021</b>
<b>Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District</b>		


<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2021</b>
		 <p><b>EC Details Displayed on Board at Site</b></p>
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.	<b>Complied</b> AVPPL have submitted Notarized Affidavit dated 03.04.2019 to SEIAA stating that all the conditions stipulated in the EC shall be scrupulously followed. Copy of the affidavit and the cover letter vide No. AVPPL/SEIAA/2019-20/731 dated 01.04.2019 have been submitted along with HYCR for the period April 2019 to September 2019.
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	<b>Noted for Compliance</b>
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	<b>Not Applicable</b> There are no natural water courses and/or water resources of first order streams in and around the mine lease area.

	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2020 To: March 2021
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Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021		
S. No.	Conditions	Compliance Status as on March 31, 2021
	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. 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.	<b>Not Applicable</b> 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 shall be regularly desilted particularly after monsoon and maintained properly.	<b>Will be Complied</b> 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 run-off is not required at the project site.  However, siltation pond of appropriate size will be created by constructing a check dam (up to 10m X 1.5m size) at the bottom of the Quarry area to prevent run-off of water and flow of sediments. The water so collected will be utilized for watering the mine area, roads, greenbelt development, etc.


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Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021																													
S. No.	Conditions	Compliance Status as on March 31, 2021																											
		The drains will be regularly desilted particularly after monsoon and maintained properly.																											
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	<p><b>Being Complied</b></p> <p>Regular water sprinkling through water tankers on haul road and other dust prone areas such as loading and unloading of minerals is being carried out.</p> <p>Environment Monitoring at the site has been carried out by NABL accredited laboratory; M/s. Standards Environmental &amp; Analytical Laboratories. Summary of the Ambient Air Quality Monitoring (AAQM) during the compliance period at 5 monitoring locations is mentioned below.</p> <table><tr><th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit</th></tr><tr><td>PM<sub>10</sub></td><td>µg/m<sup>3</sup></td><td>51.6</td><td>42.8</td><td>100</td></tr><tr><td>PM<sub>2.5</sub></td><td>µg/m<sup>3</sup></td><td>25.2</td><td>20.6</td><td>60</td></tr><tr><td>SO<sub>2</sub></td><td>µg/m<sup>3</sup></td><td>BDL</td><td>-</td><td>80</td></tr><tr><td>NO<sub>2</sub></td><td>µg/m<sup>3</sup></td><td>BDL</td><td>-</td><td>80</td></tr></table> <p>The Ambient Air Quality Monitoring Report is enclosed as <b>Annexure 5</b>. All the monitored parameters were found within the prescribed limits.</p>			Parameter	Unit	Max	Min	Perm. Limit	PM <sub>10</sub>	µg/m <sup>3</sup>	51.6	42.8	100	PM <sub>2.5</sub>	µg/m <sup>3</sup>	25.2	20.6	60	SO <sub>2</sub>	µg/m <sup>3</sup>	BDL	-	80	NO <sub>2</sub>	µg/m <sup>3</sup>	BDL	-	80
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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	<p><b>Being Complied</b></p> <p>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.</p> <p>Also, regular water sprinkling through water tankers on haul road and other dust prone areas such as loading and unloading of minerals is being carried out.</p>																											
36	Measures should be taken for control of noise levels below 85 dBA in the work environment.	<p><b>Being Complied</b></p> <p>The following measures are being taken for the control of noise levels:</p> <ul style="list-style-type: none"><li>• Drilling: The good captive silencers are being used in drilling equipment.</li><li>• Blasting: AVPPL is using NONEL method - bottom initiation to reduce the noise of</li></ul>																											

	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2020 To: March 2021
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District		


Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021																				
S. No.	Conditions	Compliance Status as on March 31, 2021																		
		<p>blasting.</p> <ul style="list-style-type: none"> <li>Machineries &amp; Tippers: It is ensured that equipment's are fitted with effective silencers, mufflers, acoustic linings, or shields, as necessary.</li> <li>It is ensured that vehicles transporting the materials follow the speed limit in order to maintain the noise level.</li> <li>Vehicles are serviced regularly and maintained properly to avoid any unwanted generation of noise or vibration from them</li> </ul> <p>Ambient Noise is being monitored by NABL and MoEF&amp;CC accredited laboratory; M/s. Metamorphosis laboratory Private Limited as per Noise Pollution (Regulation &amp; Control) Rules, 2000 (Rules 3 (1) and 4(1)) at 5 locations. Summary of the Ambient Noise Monitoring during the compliance period at 5 monitoring locations is mentioned below:</p> <table border="1"> <thead> <tr> <th>Location</th><th>Leq Day time</th><th>Leq Night time</th></tr> </thead> <tbody> <tr> <td>Quarry Area (Project Site)</td><td>46.4</td><td>35.2</td></tr> <tr> <td>Near Operators Rest Room (North Side)</td><td>44.5</td><td>34.8</td></tr> <tr> <td>Vanchiyoore UP School (West Side)</td><td>43.8</td><td>35.9</td></tr> <tr> <td>St. Joseph of Cluny Public School (South Side)</td><td>44.1</td><td>35.3</td></tr> <tr> <td>Viswanadhapuram Shiva Temple (East Side)</td><td>42.8</td><td>34.6</td></tr> </tbody> </table> <p>The results obtained were compared with Noise Pollution (Regulation &amp; Control) Rule, 2000 (Rule 3(1) and 4(1)) and it is observed that the noise readings were within limits at all monitoring locations. The Noise Monitoring report is enclosed as <b>Annexure 6</b>.</p>	Location	Leq Day time	Leq Night time	Quarry Area (Project Site)	46.4	35.2	Near Operators Rest Room (North Side)	44.5	34.8	Vanchiyoore UP School (West Side)	43.8	35.9	St. Joseph of Cluny Public School (South Side)	44.1	35.3	Viswanadhapuram Shiva Temple (East Side)	42.8	34.6
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Viswanadhapuram Shiva Temple (East Side)	42.8	34.6																		
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	<p><b>Being Complied</b></p> <p>AVPPL has entered into a Concession Agreement with GoK for the construction and operation of Vizhinjam Port whereby it is mandated under Article 32 (copy submitted along with HYCR for the period April 2019 to September 2019) that an Escrow Account has</p>																		



	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2020 To: March 2021
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District		

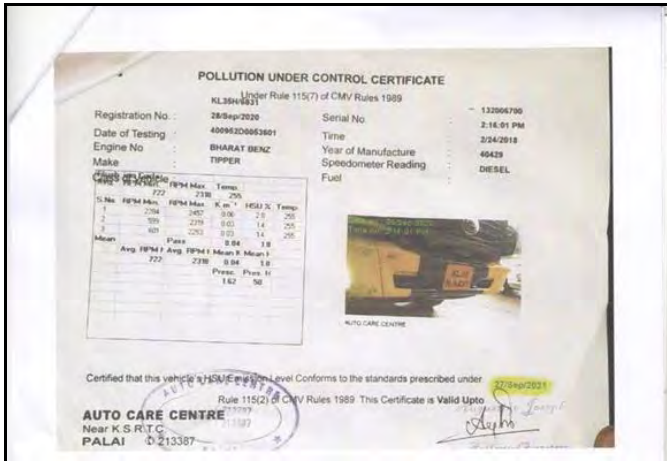
Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021		
S. No.	Conditions	Compliance Status as on March 31, 2021
	reported to the State Environment Impact Assessment Authority (SEIAA) office.	<p>to be opened by AVPPL. All deposits have to be made into this account and all payments have to be routed through this account for the construction of the port. This account is directly under the monitoring of both the Central and State governments through the Senior Lenders.</p> <p>Therefore, it is requested that the provision of opening of separate account be absolved as there will be a direct contradiction to the Concession Agreement. As the owner of the quarry, AVPPL guarantees that the amount of Rs. 15.00 Lakhs earmarked for CER and funds earmarked for environmental protection measures will be kept as a balance in the current Escrow Account. Furthermore, as provided above the account will be monitored by the government.</p> <p>Expenditure for CER and environmental protection measures for the Financial Year (FY) 2020-2021 is enclosed as <b>Annexure 7</b>.</p>
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.	<p><b>Will be Complied</b></p> <p>All necessary support will be extended to the Regional Office of MoEF&amp;CC located at Bangalore for the monitoring of the compliance of the stipulated conditions Office by furnishing the requisite data/information/monitoring reports.</p>
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.	<b>Noted</b>
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	<b>Noted</b>



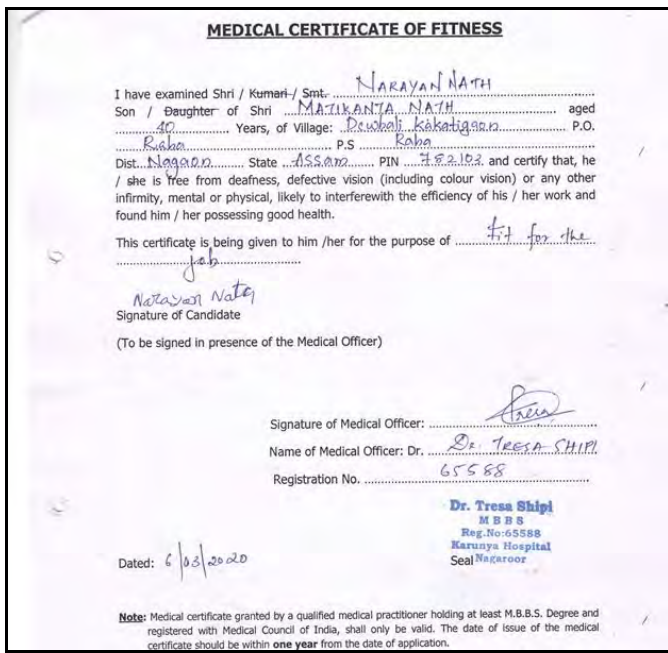
	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2020 To: March 2021
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District		

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021		
S. No.	Conditions	Compliance Status as on March 31, 2021
	of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	
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	<p><b>Being Complied</b></p> <p>As an additional precautionary safeguard measure, SEIAA decided stipulate further condition in the interest of environment protection by constituting a monitoring team consisting of an Expert member from SEAC (Team leader) nominated by Chairman SEAC, District Geologist and a responsible senior functionary nominated by AVPPL to monitor the functioning of the quarry.</p> <p>SEIAA, vide their order No. 1200/EC2/2018/SEIAA dated 31.03.2021 (Enclosed as <b>Annexure 2</b>), constituted the monitoring team comprising of:</p> <ol style="list-style-type: none"> <li>1. Shri. K. Krishna Panicker, Expert Member, SEAC (Team Leader)</li> <li>2. District Geologist, Thiruvananthapuram</li> <li>3. Mr. Palanivelu Kumar, AVPPL</li> </ol> <p>The team will inspect the quarry at least once 3 months and prepare an inspection report. Team will also suggest corrective measures for irregularities if any. The project proponent will provide logistic support for field inspection.</p>
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.	<b>Noted</b>
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.	<b>Noted</b>
44	The mining operation shall be restricted to above ground water table and it should not intersect	<p><b>Complied</b></p> <p>Based on observations made in and around the quarry area, it was found that the general</p>

<b>adani</b>	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: October 2020 To: March 2021</b>
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<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2021</b>
	ground water table	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	<p><b>Complied</b></p> <p>It is ensured that all vehicles used for transportation are having valid Pollution Under Control (PuC) certificate from authorized center.</p>  <p><b>PuC Certificate</b></p>
46	Project proponent should obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project	<p><b>Not Applicable</b></p> <p>AVPPL are not withdrawing the surface water or ground water for any purposes.</p>
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	<p><b>Not Applicable</b></p> <p>There are no springs and perennial nallahs 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.</p>

<b>adani</b>	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: October 2020 To: March 2021</b>
<b>Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District</b>		

<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period October 2020 to March 2021</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2021</b>
	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	<p><b>Being Complied</b></p> <p>The medical health test checkup of the employees, workers and laborers as per Director General of Mines (DGM) prescribed statutory format are being taken up periodically by the contractor involved in the mining operations to observe any contractions due to exposure to dust and take corrective measures.</p>  <p><b>Medical Health Fitness Certificate</b></p>

**Enclosures:**

<b>Annexure Number</b>	<b>Details of Annexure</b>
Annexure 1:	SEIAA Order for Mining Quantity Enhancement
Annexure 2:	SEIAA Order for Constituting Monitoring Team
Annexure 3:	Renewed CTO
Annexure 4:	Email Submission of HYCR for the period October 2019 to March 2020
Annexure 5:	AAQM Report
Annexure 6:	Noise Monitoring Report
Annexure 7:	CER and EMP Expenditure Statements

# **Annexure 1: SEIAA Order for Mining Quantity Enhancement**





**PROCEEDINGS OF THE ADMINISTRATOR, STATE  
ENVIRONMENT IMPACT ASSESSMENT AUTHORITY,  
THIRUVANANTHAPURAM  
(Present. Anil P. Antony)**

**Sub:- SEIAA – Application for Additional quantity of rocks for completion of  
Vizhinjam Port breakwater construction by 2023, by M/s Adani Vizhinjam  
Port Pvt. Ltd – Granted - Orders issued.**

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**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

**No. 1200/EC2/2018/SEIAA**

**dated, Thiruvananthapuram : 16.11.2020**

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- Read: 1. O.M.No.L-11011/47/2011-1AII(M) dated 24.06.2013 of the Ministry of  
Environment & Forests, Government of India.  
2. Proceedings of SEIAA No. 1200/EC2/2018/SEIAA dt. 01.03.2019  
3. Letter No. 1200/EC2/2018/SEIAA dt. 08.04.2019  
4. Letter No. 1200/EC2/2018/SEIAA dt. 10.06.2019  
5. Request letter from CEO, Adani Ports and Logistics on 06.05.2020  
6. Govt of Kerala vide. Letter 134/E1/20/F&PD dated 18.08.2020  
7. Minutes of the 112<sup>th</sup> SEAC meeting held during 12<sup>th</sup> - 14<sup>th</sup> August 2020  
8. Minutes of the 113<sup>th</sup> SEAC meeting held during 15<sup>th</sup> - 17<sup>th</sup> September 2020  
9. Minutes of the 114<sup>th</sup> SEAC meeting held during 6<sup>th</sup> – 8<sup>th</sup> October 2020  
10. Minutes of the 105<sup>th</sup> SEIAA meeting held on 22<sup>nd</sup> and 23<sup>rd</sup> October 2020  
11. G.O(Rt.) No.29/2019/Envtdated.12.04.2019

**ORDER**

Environment Clearance was accorded to Mr. Rajesh Kumar Jha, Chief  
Executive Officer, M/s Adani Port Private Limited, 2<sup>nd</sup> Floor, Vipanchika Tower,  
Thycaud, Thiruvananthapuram - 695014, vide Order read as 2<sup>nd</sup> paper above. Now the  
proponent has requested the enhancement of quantity of rocks and expansion of time up  
to the year 2023, as per application read as 5<sup>th</sup> paper above. The proponent has pointed

out that heavy rain, Covid-19 pandemic and further delay in resource mobilisation affected the mining.

After the issuance of EC, the Director, Mining & Geology then informed that the company had submitted a mining plan approved by Geologist and curtailing the production of material is contrary to Rule 68(1) of KMMCR 2015 (while issuing EC, as per the recommendation of SEAC, the production was curtailed to 7,51,875 MT from 17,78,750 MT.)

This was then discussed by the SEIAA and decided to keep EC in abeyance till the proponent revises the Mining plan considering the local environmental / geological conditions vide paper 3<sup>rd</sup> cited above.

Then M/s Adani Vizhinjam Port Pvt. Ltd submitted the revised mining plan and requested to re-instate the EC given earlier.

The proposal was placed in the 104<sup>th</sup> SEIAA meeting and the Authority decided to reinstate the EC already given for a quantity of 700000 MT for a period of first two years as given in Mining Plan. The decision was communicated to the proponent vide paper 4<sup>th</sup> cited above. Further, the proponent submitted an affidavit stating that, he will expend Rs. 15 lakhs as part of the CER in consultation with the local self Government; in accordance with the EC letter dated 01.03.2019.

Then the proponent had requested vide paper 5<sup>th</sup> cited above, to

1. allow them to mine 5.05 lakh ton during 2020-21 against the 3.01 lakh specified in the approved mining plan, and
2. allow them to mine the total mineable quantity at 17.79 lakh Metric ton during the period upto 2022-23.

The proposal was placed in the 112<sup>th</sup> SEAC meeting held during 12<sup>th</sup>- 14<sup>th</sup> August 2020 and the committee decided to recommend the request of the proponent for taking the allotted quantity mentioned in the EC already issued, and the request for extension of validity upto 2023 will be appraised separately after production of documents supporting the extension of the Project by the Government and other required details.



Then, Fisheries and Ports Department, Govt of Kerala vide. Letter 134/E1/20/F&PD dated 18.08.2020 stated that Vizhinjam International Seaport Project is a priority project of the State of Kerala and the concessionaire could complete only an extent of 600m out of 3600m of breakwater as 18.08.2020. Also, AVPPL is facing major challenges in sourcing rocks required for breakwater construction and they sought Government intervention in sourcing rocks for the project. Further, it is requested to re-examine the application of the concessionaire and a decision be taken in the best interests of completing the project at an early date.

The proponent vide. Letters dated 24.08.2020 and 7.09.2020, again requested to grant permissions to extract total 17.79 lakh MT of mineable quantity of rock from Kadavila-1 mine to complete the breakwater of Vizhinjam International Seaport.

The proposal was placed in the 113<sup>th</sup> SEAC meeting and the decision was as follows:

“As per the Proponent’s requirement of building stones for completing the project by 2021, 7 lakh MT of hard rock quarrying was permitted. As per the submission from the project proponent now, the project is not completed and is extended upto 2023. The Secretary, Fisheries & Port Department, Govt. of Kerala vide Letter No. 134/E1/20/F&PD dated 18.08.2020 has requested that the application of the proponent may be re-examined and a decision be taken in the best interest of completing the project. Since the requirement of 7 lakh MT of stones originally requested from that particular site (Nagaroor) for completion of the project by 2021 need not be enhanced if the reason is mere extension of the period of completion to 2023. Therefore, the actual reason for the requirement of additional quantity with documentary evidence should be given by the proponent. Since it is a priority project of the Govt. of Kerala as per the Govt. letter above, the proponent has to address these immediately.”

Further, the proponent had submitted the details regarding requirement of additional quantity of rocks for the breakwater construction and the proposal was placed in the 114<sup>th</sup> SEAC meeting. The Committee found that, the proponent has produced a letter from the consultant indicating the estimated quantity of rock required for the phase 1 project as 86.53L MT. In the letter from the proponent, it has been submitted



that the total amount of rock that can be obtained from the quarries for which they have obtained EC upto 2023 is only 25.17 L MT which is much below the total requirement for the project. Therefore, there is an additional requirement for completing the phase 1 of the Vizhinjam project. In these circumstances, the Committee decided to recommend the issuance of EC for mining 10.79 lakh MT in addition to the existing clearance for 7 lakh MT already given as per the mining plan approved vide letter no 1716/DOT/ML/2018 dated 26-09-2018. The proponent will regulate the transportation so as to avoid traffic congestion in the approach road to the quarry as well as other roads used for transportation of the rock mined, especially during the peak traffic hours.

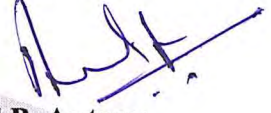
Further the proposal was placed in the 105<sup>th</sup> meeting of SEIAA held on 22<sup>nd</sup> and 23<sup>rd</sup> October 2020 and Authority decided to:

1. *Issue EC for the extraction of balance quantity of 10.79lakh MT granite rock for the period from 2021-22 to 2023-24 subject original EC conditions.*
2. *As the quantity involved is huge and there are complaints on the functioning of this quarry, as a precautionary measure Authority decided to constitute a monitoring team consisting of an Expert member from SEAC (Team leader) nominated by Chairman SEAC , District Geologist and a responsible senior functionary nominated by M/S Adani Vizhinjam Private Ltd, to monitor the functioning of the quarry. The team will inspect the quarry at least once 3 months and prepare an inspection report. Team will also suggest corrective measures for irregularities if any. The project proponent will provide logistic support for field inspection.*

In the circumstance, the Environmental Clearance for the extraction of balance quantity of 10.79 lakh MT granite rock for the period from 2021-22 to 2023-24 in Sy. No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District Kerala under Notification S.O. No.1533 (E) dated 14.09.2006 read with O.M. of the Ministry of Environment & Forest, Government of India read as first paper above, is hereby accorded to Mr. Rajesh Kumar Jha, Chief Executive Officer, M/s Adani Port

Private Limited, 2<sup>nd</sup> Floor, Vipanchika Tower, Thycaud, Thiruvananthapuram – 695014, subject to original EC conditions.

Violation of any of the general/specific conditions as applicable to the particular case will entail cancellation of the EC, in addition to legal action under the provisions of the Environment (Protection) Act, 1986. Non-compliance if any shall be reported to the District Collector, Thiruvananthapuram by the State Environment Impact assessment Authority.

  
**Anil P. Antony**  
**Administrator, SEIAA**

To,

Mr. Rajesh Kumar Jha,  
Chief Executive Officer,  
M/s Adani Vizhinjam Port Private Limited,  
2<sup>nd</sup> Floor, Vipanchika Tower, Thycaud,  
Thiruvananthapuram - 695014

Copy to:

1. District Collector, Thiruvananthapuram
2. Tahsildar, Chirayinkeezhu Taluk, Thiruvananthapuram District
3. Director, Mining & Geology, Trivandrum
4. District Geologist, Thiruvananthapuram
5. Village Officer, Nagaroor Village, Chirayinkeezhu Taluk
6. Chairman, SEIAA
7. Stock File
8. Website
9. O/C





## **Annexure 2: SEIAA Order for Constituting Monitoring Team**





RECEIVED  
Date: 03/04/2021

**PROCEEDINGS OF THE STATE ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY – KERALA,  
THIRUVANANTHAPURAM**

*(Present : Dr.H.Nagesh Prabhu IFS (Retd.), Chairman, Dr.Jayachandran.K, Member,  
Dr.V.Venu IAS, Member Secretary)*

Sub :- SEIAA –Constitution of Monitoring Team as per the decision of the 105<sup>th</sup> SEIAA meeting held on 22<sup>nd</sup> & 23<sup>rd</sup> October, 2020 - Orders issued.

**State Environment Impact Assessment Authority, Kerala**

**No. 1200/EC2/ 2018/SEIAA**

**dated, Thiruvananthapuram 31.03.2021**

- Read :-1.Minutes of the 105<sup>th</sup> SEIAA meeting held on 22<sup>nd</sup> & 23<sup>rd</sup> October, 2020  
2. Minutes of the 116<sup>th</sup> SEAC meeting held on 2nd, 3rd and 7th December, 2020  
3.Letter dated 23.12.2020 from Rajesh Jha., MD & CEO, M/s Adani Vizhinjam Port Pvt.Ltd.  
4. Email dated.29.03.2021 from the Director, Mining and Geology

**ORDER**

The Authority vide reference (1) cited above decided to constitute a monitoring team consisting of an Expert member from SEAC (Team leader) nominated by Chairman SEAC, District Geologist and a responsible senior functionary nominated by M/S Adani Vizhinjam Private Ltd, to monitor the functioning of the quarry , as the quantity involved is huge and there are complaints on the functioning of this quarry..

State Expert Appraisal Committee (SEAC) vide reference (2) cited above, nominated Shri.K.Krishna Panicker as Team Leader from SEAC. Adani Vizhinjam Port Pvt.Ltd vide reference (3) cited above, nominated Mr.Palanivelu Kumar, who is working in the capacity of Manager, Mines Department and the Director, Mining and Geology vide reference (4) cited,



nominated the District Geologist Thiruvananthapuram for monitoring the functioning of the quarry.

In the above circumstance, Monitoring Team is constituted as per the decision of the 105<sup>th</sup> SEIAA meeting held on 22<sup>nd</sup> & 23<sup>rd</sup> October, 2020, comprising of

1. Shri.K.Krishna Panicker, Expert Member, SEAC (Team Leader)
2. District Geologist Thiruvananthapuram
3. Mr.Palanivelu Kumar, M/s Adani Vizhinjam Port Pvt.Ltd

The team will inspect the quarry at least once in 3 months and prepare an inspection report. Team should also suggest corrective measures for irregularities if any. The project proponent should provide logistic support for field inspection

**Anil P. Antony**  
**Administrator, SEIAA**  
**For Member Secretary, SEIAA**

To

1. Shri.K.Krishna Panicker, Expert Member, SEAC  
Athira, KRWA 113  
Kavalloor Lane, Vattiyoorkavu, Thiruvananthapuram – 695 013
2. The Director, Mining & Geology, Thiruvananthapuram -4.
3. The District Geologist, Thiruvananthapuram
4. Mr.Rajesh Jha, CEO, M/s Adani Vizhinjam Port Pvt.Ltd,  
2<sup>nd</sup> Floor, Vipanchika Tower,  
Thycaud, Thiruvananthapuram- 695014
5. Mr.Palanivelu Kumar, M/s Adani Vizhinjam Port Pvt.Ltd,  
2<sup>nd</sup> Floor, Vipanchika Tower,  
Thycaud, Thiruvananthapuram- 695014

Copy to,

1. PA to Principal Secretary, Environment Department
2. The District Treasury Officer, Thiruvananthapuram
3. Accounts, SEIAA
4. Office copy/Stock file

## **Annexure 3: Renewed CTO**



## KERALA STATE POLLUTION CONTROL BOARD

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

Date of issue :18/12/2020

### INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/TVM-DO/CHZ/ICO(R)/QRY/128 /2020

Ref : Application no: 14408299;Dated:7/12/2020

Consent no:PCB/TVM-DO/ICO/QRY/103 /2019,Valid Upto :27/02/2021

The ' Integrated Consent to Operate' issued as per reference above to M/s Building Stone Quarry of Adani vizhinjam Port Pvt Ltd,Nagaroor Village, Chirayinkeez Taluk, Thiruvananthapuram district is hereby renewed up to 28/02/2024 and issued to M/s Building Stone Quarry of Adani vizhinjam Port Pvt Ltd,Nagaroor Village, Chirayinkeez Taluk, Thiruvananthapuram district The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

#### I. GENERAL

S.No.	Items	Description
1	VALIDITY	28/2/2024
2	CATEGORY	RED
3	CAPITAL INVESTMENT	750 LAKHS
4	ANNUAL FEES	62,500/-
5	FEES REMITTED	1,87,500/-

#### II. Stack Details

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

#### III. CONDITIONS

5.1 Quarrying shall be restricted to the land bearing Sy no: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 or revoke the condition as the Board deems fit.

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 the area 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/m<sup>3</sup> b) The PM 2.5 in ambient air at 1m outside the boundary shall not exceed 60 microg/m<sup>3</sup>.

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 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.in> for 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 ENVIRONMENTAL CLEARANCE NO: 02/2019 ;DATED:1/3/2019, and other documents furnished by the applicant. If any document is found false, the consent issued will be cancelled/ revoked.

5.16 This consent is issued subject to the final decision of the Hon'ble High court in W.P.( C) no:11512/2020 Filed by Sri Ajith.P

All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

DATE :18/12/2020

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





**To**

Rajesh Jha ,CEO Adani Vizhinjam Port Pvt Limited | Second Floor, Vipanchika Tower, Thycad,  
Trivandrum,

- 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](http://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.

**Annexure 4: Email Submission of HYCR  
for the period April 2020 to  
September 2020**

## Jesse Benjamin Fullonton

---

**From:** Rajesh Kumar Jha  
**Sent:** Saturday, 28 November, 2020 12:52 PM  
**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 2020 to Sep 2020 - Kadavilla-1 - Reg  
**Attachments:** EC No.1200\_EC2\_2018\_SEIAA dated 01.03.2019-HYCR-Apr20-Sep20\_27.11.2020.pdf

Dear Sir/Madam,

This has reference to the Environmental Clearance (EC) Order **No. 1200/EC2/2018/SEIAA issued on 3<sup>rd</sup> March 2019** issued by State Environmental Impact Assessment Authority (SEIAA), Kerala to Adani Vizhinjam Port Private Limited (AVPPL) for our **Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District.**

The Half Yearly Compliance Report (HYCR) of the conditions stipulated in the EC for the period **April 2020 to September 2020** is attached; for record and reference please.

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

Thanks & Regards,

**Rajesh Jha**  
MD & CEO  
**Adani Vizhinjam Port Pvt. Ltd.**

2<sup>nd</sup> Floor, Vipanchika Tower, PO-Thycaud, Trivandrum- 695014, Kerala, India  
Direct Line: 0471 277 2116 | [www.adani.com](http://www.adani.com)



## **Annexure 5: AAQM Report**

## TEST REPORT

ULR No: TC540221000002003F	Date: 26.03.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt 19.03.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21030350
Sample Name	Project Site	Sample Received on	20.03.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	21.03.2021
Sampled by	Lab Authorized Sampler	Test Completed on	24.03.2021


DETAILS OF SAMPLING			
Sampling Location	Project Site	Date of Sampling	19.03.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	66%
Latitude	N 08° 43'42.4"	Longitude	E 76° 50'16.6"

SAMPLING SITE DETAILS			
Re - Survey No	555/2, Block No.37		
Village	Nagaroor	Taluk	Chirayinkeezhu
District	Thiruvananthapuram	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	51.6	100 (Max)
2	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	25.2	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)

Remarks: The Air sample complies with National Ambient Air Quality Standards with respect to above parameters tested.

\*\*\*End of Report\*\*\*

  
Shency Joy  
TM Chemical  
Checked by:

  
Rija Joseph  
Technical Manager  
Authorized Signatory

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

**Standard<sup>S</sup> Environmental & Analytical Laboratories**

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017  
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

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



## TEST REPORT

ULR No: TC540221000002004F	Date: 26.03.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt 19.03.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21030351
Sample Name	Near Operators Rest Room - North Side	Sample Received on	20.03.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	21.03.2021
Sampled by	Lab Authorized Sampler	Test Completed on	24.03.2021

DETAILS OF SAMPLING			
Sampling Location	Near Operators Rest Room - North Side	Date of Sampling	19.03.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	66%
Latitude	N 08° 43'47.9"	Longitude	E 76° 50'12.6"

SAMPLING SITE DETAILS			
Re - Survey No	555/2, Block No.37		
Village	Nagaroor	Taluk	Chirayinkeezhu
District	Thiruvananthapuram	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	45.9	100 (Max)
2	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	23.6	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)

Remarks: The Air sample complies with National Ambient Air Quality Standards with respect to above parameters tested.

\*\*\*End of Report\*\*\*

Shency Joy  
Dy. TM Chemical

Checked by:

Rija Joseph  
Technical Manager  
Authorized Signatory

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vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

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



## TEST REPORT

ULR No: TC540221000002005F	Date: 26.03.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt 19.03.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21030352
Sample Name	Vanchiyoore UP School West Side	Sample Received on	20.03.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	21.03.2021
Sampled by	Lab Authorized Sampler	Test Completed on	24.03.2021

DETAILS OF SAMPLING			
Sampling Location	Vanchiyoore UP School West Side	Date of Sampling	19.03.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	66%
Latitude	N 08° 43'17.3"	Longitude	E 76° 50'08.1"

SAMPLING SITE DETAILS			
Re - Survey No	555/2, Block No.37		
Village	Nagaroor	Taluk	Chirayinkeezhu
District	Thiruvananthapuram	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	47.6	100 (Max)
2	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	24.3	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)

Remarks: The Air sample complies with National Ambient Air Quality Standards with respect to above parameters tested.

\*\*\*End of Report\*\*\*

Shency Joy  
Dy. TM Chemical

Checked by:

Rija Joseph  
Technical Manager

Authorized Signatory

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

Standard<sup>S</sup> Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017  
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

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



## TEST REPORT

ULR No: TC540221000002006F	Date: 26.03.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt 19.03.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21030353
Sample Name	St. Joseph of Cluny Public School - South side	Sample Received on	20.03.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	21.03.2021
Sampled by	Lab Authorized Sampler	Test Completed on	24.03.2021

DETAILS OF SAMPLING			
Sampling Location	St. Joseph of Cluny Public School - South side	Date of Sampling	19.03.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	66%
Latitude	N 08° 43'35.1"	Longitude	E 76° 50'48.4"

SAMPLING SITE DETAILS			
Re - Survey No	555/2, Block No.37		
Village	Nagaroor	Taluk	Chirayinkeezhu
District	Thiruvananthapuram	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	42.8	100 (Max)
2	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	20.6	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)

Remarks: The Air sample complies with National Ambient Air Quality Standards with respect to above parameters tested.

\*\*\*End of Report\*\*\*

Shency Joy  
Lab. TM Chemical

Checked by:

Rija Joseph  
Technical Manager

Authorized Signatory

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

Standard<sup>S</sup> Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017

vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43

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



## TEST REPORT

ULR No: TC540221000002007F	Date: 26.03.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt 19.03.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21030354
Sample Name	Viswanadhapuram Shiva Temple - East Side	Sample Received on	20.03.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	21.03.2021
Sampled by	Lab Authorized Sampler	Test Completed on	24.03.2021

DETAILS OF SAMPLING			
Sampling Location	Viswanadhapuram Shiva Temple - East Side	Date of Sampling	19.03.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	66%
Latitude	N 08° 44'09.7"	Longitude	E 76° 50'18.4"

SAMPLING SITE DETAILS			
Re - Survey No	555/2, Block No.37		
Village	Nagaroor	Taluk	Chirayinkeezhu
District	Thiruvananthapuram	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	43.2	100 (Max)
2	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	22.9	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)

Remarks: The Air sample complies with National Ambient Air Quality Standards with respect to above parameters tested.

\*\*\*End of Report\*\*\*

Shency Joy  
Dy. TM Chemical

Rija Joseph  
Technical Manager

Checked by:

Authorized Signatory

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vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by KSPCB.

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

## **Annexure 6: Noise Monitoring Report**



## TEST REPORT

ULR No: TC540221000002008F	Date: 29.03.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt 19.03.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN21030355
Sample Name	Ambient Noise	Monitoring Commenced on	19.03.2021 / 06:00
Monitoring Location	Project Site	Monitoring Completed on	20.03.2021 / 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler
Latitude	N 08° 43'41.5"	Longitude	E 76° 50'16.9"

SAMPLING SITE DETAILS			
Re - Survey No	555/2, Block No.37		
Village	Nagaroor	Taluk	Chirayinkeezhu
District	Thiruvananthapuram	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	35.8	14:00	48.0	22:00	34.7
07:00	38.4	15:00	48.3	23:00	32.5
08:00	42.4	16:00	49.4	24:00	34.8
09:00	45.8	17:00	49.8	01:00	35.5
10:00	48.0	18:00	44.6	02:00	35.2
11:00	50.9	19:00	41.3	03:00	35.8
12:00	48.3	20:00	37.6	04:00	34.8
13:00	47.6	21:00	37.2	05:00	36.5

TEST RESULTS- CHEMICALPARAMETERS				
Sl. No.	PARAMETERS	UNIT	RESULT	NAAQ STANDARDS (RESIDENTIAL AREA)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	46.4	55 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	35.2	45 dB (A)

Remarks: The Noise level Monitoring complies with the Noise Pollution (Regulation and Control) Rules, 2000.

\*\*\*End of Report\*\*\*

  
Shency Joy  
Dy. TM Chemical  
Checked by:

  
Rija Jose  
Technical Manager  
Authorized Signatory

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



## TEST REPORT

ULR No: TC540221000002009F	Date: 26.03.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt 19.03.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN21030356
Sample Name	Ambient Noise	Monitoring Commenced on	19.03.2021 / 06:00
Monitoring Location	Near Operators Rest Room North Side	Monitoring Completed on	20.03.2021 / 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler
Latitude	N 08° 43'47.9"	Longitude	E 76° 50'12.5"

SAMPLING SITE DETAILS			
Re - Survey No	555/2, Block No.37		
Village	Nagaroor	Taluk	Chirayinkeezhu
District	Thiruvananthapuram	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	34.3	14:00	46.0	22:00	33.3
07:00	36.8	15:00	46.4	23:00	32.1
08:00	40.7	16:00	47.4	24:00	34.4
09:00	43.9	17:00	47.8	01:00	35.1
10:00	46.0	18:00	42.8	02:00	34.8
11:00	48.9	19:00	39.6	03:00	35.4
12:00	46.4	20:00	36.1	04:00	34.4
13:00	45.7	21:00	35.7	05:00	36.1

TEST RESULTS- CHEMICALPARAMETERS				
Sl. No.	PARAMETERS	UNIT	RESULT	NAAQ STANDARDS (RESIDENTIAL AREA)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	44.5	55 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	34.8	45 dB (A)

Remarks: The Noise level Monitoring complies with the Noise Pollution (Regulation and Control) Rules, 2000.

\*\*\*End of Report\*\*\*

*Shency Joy*  
Shency Joy  
Op. TM Chemical

*Rija Jose*  
Rija Jose  
Technical Manager

Checked by:

Authorized Signatory

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



## TEST REPORT

ULR No: TC540221000002010F	Date: 26.03.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt 19.03.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN21030357
Sample Name	Ambient Noise	Monitoring Commenced on	19.03.2021/ 06:00
Monitoring Location	Vanchiyoor UP School West Side	Monitoring Completed on	20.03.2021/ 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler
Latitude	N 08° 43'16.5"	Longitude	E 76° 50'11.1"

SAMPLING SITE DETAILS			
Re - Survey No	555/2, Block No.37		
Village	Nagaroor	Taluk	Chirayinkeezhu
District	Thiruvananthapuram	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	33.9	14:00	45.4	22:00	32.8
07:00	36.3	15:00	45.7	23:00	33.2
08:00	40.1	16:00	46.8	24:00	35.6
09:00	43.3	17:00	47.1	01:00	36.3
10:00	45.4	18:00	42.2	02:00	35.9
11:00	48.2	19:00	39.1	03:00	36.6
12:00	45.7	20:00	35.6	04:00	35.6
13:00	45.0	21:00	35.2	05:00	37.3

TEST RESULTS- CHEMICALPARAMETERS				
Sl. No.	PARAMETERS	UNIT	RESULT	NAAQ STANDARDS (RESIDENTIAL AREA)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	43.8	55 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	35.9	45 dB (A)

Remarks: The Noise level Monitoring complies with the Noise Pollution (Regulation and Control) Rules, 2000.

\*\*\*End of Report\*\*\*

Shency Joy  
Dy. TM Chemical

Dya  
K.J. Joy  
Technical Manager

Checked by:

Authorized Signatory

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



## TEST REPORT

ULR No: TC540221000002011F	Date: 26.03.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt 19.03.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN21030358
Sample Name	Ambient Noise	Monitoring Commenced on	19.03.2021 / 06:00
Monitoring Location	St Joseph Colony Public School	Monitoring Completed on	20.03.2021 / 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler
Latitude	N 08° 43'35.1"	Longitude	E 76° 50'48.4"

SAMPLING SITE DETAILS			
Re - Survey No	555/2, Block No.37		
Village	Nagaroor	Taluk	Chirayinkeezhu
District	Thiruvananthapuram	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	34.0	14:00	45.6	22:00	33.0
07:00	36.5	15:00	46.0	23:00	32.6
08:00	40.4	16:00	47.0	24:00	34.9
09:00	43.5	17:00	47.4	01:00	35.6
10:00	45.6	18:00	42.5	02:00	35.3
11:00	48.4	19:00	39.3	03:00	36.0
12:00	46.0	20:00	35.8	04:00	34.9
13:00	45.3	21:00	35.4	05:00	36.6

TEST RESULTS- CHEMICALPARAMETERS				
Sl. No.	PARAMETERS	UNIT	RESULT	NAAQ STANDARDS (RESIDENTIAL AREA)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	44.1	55 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	35.3	45 dB (A)

Remarks: The Noise level Monitoring complies with the Noise Pollution (Regulation and Control) Rules, 2000.

\*\*\*End of Report\*\*\*

  
Shency Joy  
Dy. TM Chemical

Checked by:

  
Rija Joseph  
Technical Manager  
Authorized Signatory

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



## TEST REPORT

ULR No: TC540221000002012F	Date: 26.03.2021	Page 1 of 1
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### CUSTOMER DETAILS

Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt 19.03.2021

### DETAILS OF MONITORING

Product Category	Atmospheric Pollution	Sample Code	EN21030359
Sample Name	Ambient Noise	Monitoring Commenced on	19.03.2021 / 06:00
Monitoring Location	Viswanadhapuram Shiva Temple - East Side	Monitoring Completed on	20.03.2021 / 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler
Latitude	N 08° 44'09.7"	Longitude	E 76° 50'18.4"

### SAMPLING SITE DETAILS

Re - Survey No	555/2, Block No.37		
Village	Nagaroor	Taluk	Chirayinkeezhu
District	Thiruvananthapuram	State	Kerala

### MONITORING RESULTS - Leq

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	33.1	14:00	44.3	22:00	32.1
07:00	35.5	15:00	44.7	23:00	31.8
08:00	39.2	16:00	45.7	24:00	34.1
09:00	42.3	17:00	46.0	01:00	34.8
10:00	44.3	18:00	41.3	02:00	34.4
11:00	47.1	19:00	38.2	03:00	35.1
12:00	44.7	20:00	34.8	04:00	34.1
13:00	44.0	21:00	34.4	05:00	35.8

### TEST RESULTS- CHEMICALPARAMETERS

Sl. No.	PARAMETERS	UNIT	RESULT	NAAQ STANDARDS (RESIDENTIAL AREA)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	42.8	55 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	34.6	45 dB (A)

Remarks: The Noise level Monitoring complies with the Noise Pollution (Regulation and Control) Rules, 2000.

\*\*\*End of Report\*\*\*

Shency Joy  
Dr. TM Chemical

Checked by:

Rija Joseph  
Technical Manager

Authorized Signatory

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



## **Annexure 7: CER and EMP Expenditure Statements**

	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2020 To: March 2021
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District		

## Annexure 7

### Expenditure Statement for CER and EMP for the FY 2020-2021:

S. No.	CER Activity	Expenditure (Rs. Lakhs)
1.	Water Supply to Local Community	2.73
2.	Onam Kit (Groceries & Provisions) Distribution to BPL Families	1.80
3.	COVID-19 support	1.96
4.	School Bus to Govt. Upper Primary School Vanchiyoar	1.00
5.	Medical Expenses to Sathyaseelan M. and Chellama	0.06
6.	Donation for Uthirattathi Festival	0.50
<b>Total FY 2020-2021</b>		<b>8.05</b>
<b>Cumulative Total till date</b>		<b>8.05</b>

S. No.	EMP Expenditure	Expenditure (Rs. Lakhs)
1.	Water Sprinkling	6.54
2.	Environmental Monitoring	0.80
<b>Total FY 2020-2021</b>		<b>7.34</b>
<b>Cumulative Total till date</b>		<b>12.29</b>

**Half Yearly Compliance Report (HYCR)  
October 2020 to March 2021**

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



**Adani Vizhinjam Port Private Ltd. (AVPPL)**