

# **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 2021 to March 2022**

Project Proponent



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

**May 2022**



Ports and  
Logistics

AVPPL/MoEF/2022-23/1969

Date: 26<sup>th</sup> May 2022

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  
[rosz.bng-mefcc@gov.in](mailto:rosz.bng-mefcc@gov.in)  
Ph: 080-25635901

**Subject:** Submission of **Half Yearly Compliance Report (HYCR)** to Conditions of Environmental Clearance (EC) for the Period October 2021 to March 2022 - Reg.

**Reference:** EC for Building Stone Quarry 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 1<sup>st</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 2021 to March 2022** is enclosed herewith for record and reference. You are requested to kindly acknowledge the receipt of the same.

Thanking you.


Yours Sincerely  
Rajesh Jha  
MD & CEO – Authorized Signatory  
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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Registered Office:  
Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad-382421


	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2021 To: March 2022
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala		

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 2021 to March 2022		
S. No.	Conditions	Compliance Status as on March 31, 2022
Specific Conditions		
1	The mining should be conducted with Non-Electric Detonator (NONEL) Method thereby minimizing air blast, fly rock and ground vibration.	<p><b>Complied</b></p> <p>Mining is being conducted using Non-Electric Detonator (NONEL) method of controlled blasting only; to minimize the air blast, fly rock and ground vibration. Till date no incident to fly rock has been recorded.</p> <p>Adani Vizhinjam Port Pvt. Ltd. (AVPPL) had engaged Anna University, Department of Mining Engineering, Chennai to conduct a scientific study on Blast Induced Ground Vibration for the Quarry. Altogether 10 experimental blast rounds were conducted and comprehensive vibration monitoring was carried out during the blasting experiment. In all the 10 trial blasts, ground vibrations were monitored at 47 locations around the blasting sites and neighboring village; which includes domestic houses and other prominent structures of the village.</p> <p>Based on the scientific study, it is concluded that the blast induced ground vibrations and noise levels generated by the controlled blasting carried out in the quarry are safe and well within the permissible limit as per recommendations of Directorate General of Mine Safety (DGMS) and therefore is not affecting the residential buildings and other structures. Further, it had been observed that no flying fragments or projectiles travelled beyond 10 m from the site of blast. Hence, it was inferred through the study report that controlled blasting can be carried out at the Quarry. The Anna University Study Report was submitted along with the HYCR for the period April 2021 to September 2021.</p>
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.	<p><b>Will be Complied</b></p> <p>In view of the additional requirement of building stone for completion of phase 1 of the Vizhinjam project, SEIAA decided to issue EC for the extraction of a further 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 (A copy of the order was submitted along with the HYCR</p>

	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2021 To: March 2022
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala		


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 2021 to March 2022		
S. No.	Conditions	Compliance Status as on March 31, 2022
		for the period October 2020 to March 2021). The Modified Approved Mining Plan was submitted along with the HYCR for the period April 2021 to September 2021). Therefore, permission is accorded for a total of 17.79 (7 + 10.79) Lakh Tons of building stones to be extracted from the quarry.  During the compliance period (October 2021 to March 2022), a total of 2.275 Lakh Tons of building stones have been extracted and a total cumulative quantity of 11.281 Lakh Tons of building stones have been extracted from inception of mining on 02.07.2019 till 31.03.2022.
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.	<b>Complied</b> 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.  Till 31.03.2022, an amount of Rs. 14.30 Lakhs has been spent towards CER Activities.
4	The proponent should follow the closure plans (progressive closure and final closure) as per KMMC Rules.	<b>Will be Complied</b> 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 Modified Approved Mining Plan (The Modified Approved Mining Plan was submitted along with the HYCR for the period April 2021 to September 2021).  The closure procedure (progressive closure and final closures) shall be documented prior to and during the closure of the mine.
General Conditions		
1	A separate environmental management and monitoring cell with qualified personnel	<b>Complied</b> A separate Environmental Management and Monitoring Cell (EMMC) with qualified personnel


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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 2021 to March 2022</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2022</b>
	should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	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 constitution of EMMC was submitted along with HYCR for the period April 2019 to September 2019. Organizational Structure for EMMC is enclosed as <b>Annexure 1</b> .
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.	<p><b>Being Complied</b></p> <p>There is already existing plantation along the tar road. AVPPL have planted avenue trees at suitable locations like buffer zone, etc. for greenbelt development.</p>  <p style="text-align: right;">21/03/2022 15:35</p> <p style="text-align: center;"><b>Avenue Plantation</b></p>
3	Sprinklers shall be installed and used in the project site to contain dust emissions.	<p><b>Being Complied</b></p> <p>Regular water sprinkling through water tankers is being carried out on haul roads and other dust prone areas such as loading and unloading of minerals.</p>




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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2022</b>
		 <p style="text-align: right;">24/03/2022 16:49</p> <p style="text-align: center;"><b>Water Sprinkling through Tankers</b></p>
4	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent	<p><b>Will be Complied</b></p> <p>Eco-restoration including Mine Closure Plan is provided in the Modified Approved Mining Plan (Submitted along with the HYCR for the period April 2021 to September 2021). The same shall be implemented during the closure at the cost of AVPPL.</p>
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.</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>Being Complied</b></p> <p>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</p>

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		<p>01.05.2018.</p> <p>AVPPL had prepared a budget plan 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 (Details have been submitted along with earlier compliance reports). So far, as per 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 CER, Rs. 14.30 Lakhs have been spent towards CER activities.</p> <p>The balance amount will be spent for supplying drinking water to the local people in the vicinity of the project site. Work has been awarded through a local contractor to supply water through tankers during the summer months April 2022 and May 2022.</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>

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		 <p style="text-align: center;"><b>Tar Road at Project Site</b></p>
9	Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions	<p><b>Being Complied</b></p> <p>As such, the quarry had been mined earlier by another party and since this is already an open mine, there was no top soil or overburden available in the quarry; all the produced materials are being used for Breakwater Construction at Vizhinjam Port.</p> <p>However, due to certain geological disturbances in the formation, some overburden has been found in between the rock formation after attaining 6 m on the western slope between p3 and p4 pillars. AVPPL have shifted the top soil and overburden on the western slope to an area of land in the lower portions of the quarry along with gabion wall protection. AVPPL are constructing a 150 m Gabion wall of which 50 m has been completed and the remaining 100 m will be completed by June 2022. The overburden materials will be managed in this area within the site as per mine closure plan.</p>



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		 <p style="text-align: center;"><b>Gabion Wall</b></p>
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 Modified 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>Being Complied</b> For every bench, ground level is fixed in MSL as individual cases separately. Surface plan with MSL levels is provided in the Modified Approved Mining Plan (Submitted along with the HYCR for the period April 2021 to September 2021).
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	<b>Being Complied</b> All employees are provided with relevant Personal

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	protective equipment such as ear muffs, helmet, etc.	<p>Protective Equipment (PPEs) like Helmets, Shoes, Fluorescent Reflective Jackets, etc.</p>  <p>24/03/2022 13:17</p> <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>Being Complied</b></p> <p>Mining operations are being carried out in the top level during the compliance period. However, garland drainage/garland canals of 60 m have been developed in the lower slopes to channelize storm water.</p>


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for the Period October 2021 to March 2022**

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		 <p><b>Garland Drain</b></p> <p>A siltation pond has been 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.</p>  <p><b>Check Dam</b></p>




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		 <p><b>Siltation Pond</b></p>
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	<p><b>Being Complied</b></p> <p>AVPPL constructed 500 Kgs portable explosives</p>


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	specified and approved by Explosives Department	<p>magazine at an area called Chappath; which is 65 km away from the quarry location. AVPPL are transporting the explosives and detonators from Chappath to Kadavilla quarry through two authorized explosives vans for which following licenses were obtained from PESO:</p> <ul style="list-style-type: none"> <li>Explosives magazine license E/SE/KL/22/331(E121778) dated 13.09.2021</li> <li>Explosives van-1 (KL01CP2414) license E/SE/KL/25/99(E135886) dated 22.09.2021</li> <li>Explosives van-2 (KL01CP2472) license E/SE/KL/25/99(E135883) dated 22.09.2021</li> </ul> <p>Copies of the above mentioned licenses were submitted along with the HYCR for the period April 2021 to September 2021. Operations at Explosives Storage at Chappath began in October 2021.</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 be provided.	<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 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	<b>Not Applicable</b>




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	maintained from forest boundaries.	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.	<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 was submitted along with HYCR for the period October 2020 to March 2021.</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. land.</li> <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</li> </ul>

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		<p>dated 20.05.2019</p> <ul style="list-style-type: none"> <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> <li>Explosives magazine license E/SE/KL/22/331(E121778) dated 13.09.2021.</li> <li>Explosives van-1 (KL01CP2414) license E/SE/KL/25/99(E135886) dated 22.09.2021.</li> <li>Explosives van-2 (KL01CP2472) license E/SE/KL/25/99(E135883) dated 22.09.2021.</li> <li>Modified Approved Mining Plan by District Geologist, Trivandrum vide Letter No. 2436/DOT/ML/2020 dated 16.11.2020</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 was submitted along with HYCR for the period October 2020 to March 2021. Copies of the explosives vans and magazine licenses and Modified Approved Mining Plan were submitted along with the HYCR for the period April 2021 to September 2021.</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 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><b>Complied</b></p> <p>In view of the additional requirement of building stone for completion of phase 1 of the Vizhinjam project, SEIAA decided to issue EC for the extraction of a further 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 (A copy of the order was submitted along with the HYCR for the period October 2020 to March 2021). Therefore, permission is accorded for a total of 17.79 (7 + 10.79) Lakh Tons of building stones to be extracted from the quarry.</p> <p>During the compliance period (October 2021 to March 2022), a total of 2.275 Lakh Tons of</p>

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		building stones have been extracted and a total cumulative quantity of 11.281 Lakh Tons of building stones have been extracted from inception of mining on 02.07.2019 till 31.03.2022.
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>Based on the SEIAA order No. 1200/EC2/2018/SEIAA dated 16.11.2020 (A copy of the order was submitted along with the HYCR for the period October 2020 to March 2021), 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 (A copy of the order was submitted along with the HYCR for the period October 2020 to March 2021), 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> <p>Thereafter, in line with SEIAA letter No. 1200/EC2/2018/SEIAA dated 31.08.2021 (Copy submitted along with the HYCR for the period April 2021 to September 2021), the inspection of the monitoring team under the leadership of Shri. K. Krishna Panicker was conducted on 02.09.2021. as per Minutes of Meeting of 112<sup>th</sup> SEIAA held on 14<sup>th</sup>, 15<sup>th</sup> &amp; 16<sup>th</sup> September 2021 (Copy submitted along with the HYCR for the period April 2021 to September 2021), the Authority noted the observations and</p>

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S. No.	Conditions	Compliance Status as on March 31, 2022
		<p>recommendation Monitoring committee on the functioning of the quarry and decided the following:</p> <ol style="list-style-type: none"> <li>1. To forward the observations and recommendation of monitoring committee to the Project Proponent with a direction to attend all the observations within 4 months otherwise EC given will be cancelled and action will be taken for violation EC conditions.</li> <li>2. Monitoring committee led by SEAC member shall conduct a field inspection after 4 months to verify the compliance status and report to SEIAA for appropriate action.</li> <li>3. Inform the decision of SEIAA to project Proponent and SEAC for necessary follow up action.</li> </ol> <p>The observations and recommendations of the monitoring committee were received from SEIAA vide letter No. 1200/EC2/2018/SEIAA dated 07.10.2021 (Enclosed as <b>Annexure 2</b>).</p> <p>Due to heavy rain up to November 2021 and frequent stop memos given by the Dist. Geologist to stop the Mining Operation in view of the same as recommended by the Kerala State Disaster Management Authority, AVPPL had requested permission for an extension of three months' time to comply with the points, i.e. up to 20.04.2022.</p> <p>Update on the status of compliance to observations and recommendations of the monitoring committee is enclosed as <b>Annexure 3</b>.</p>
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	<b>Noted</b>


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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2022</b>
	Notification, 2006.	
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 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-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.</p>
26	The Environmental Clearance shall be put on the website of the company by the proponent.	<p><b>Complied</b></p> <p>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.</p>
27	Proponent shall submit half yearly reports in soft copy and SEIAA will upload it on the website.	<p><b>Being Complied</b></p> <p>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 &amp; Climate Change (MoEF&amp;CC) dated 26.11.2018, wherein submission of HYCRs by email/soft copy is declared acceptable, soft copy</p>




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		of HYCR for the period April 2021 to September 2021 has been submitted vide email dated 19.11.2021 (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	<p><b>Complied</b></p> <p>The details of EC have been displayed at the site next to the entrance of the quarry, visible to the public.</p>  <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.	<p><b>Complied</b></p> <p>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.</p>
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	<b>Noted for Compliance</b>


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	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.	<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.
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>Being Complied</b> As such, the quarry had been mined earlier by another party and since this is already an open mine, there was no top soil or overburden available in the quarry; all the produced materials are being used for Breakwater Construction at Vizhinjam Port.  However, due to certain geological disturbances in the formation, some overburden has been found in between the rock formation after attaining 6 m on the western slope between p3 and p4 pillars. AVPPL have shifted the top soil and overburden on the western slope to an area of land in the lower portions of the quarry along with gabion wall protection. AVPPL are constructing a 150 m Gabion wall of which 50 m has been completed and the remaining 100 m will be completed by June 2022. The overburden materials will be managed in this area within the site as per mine closure plan.  It will be ensured that the maximum height of the dumps shall not exceed dimensions specified and overall slope of the dumps shall be maintained to 37.5 degrees. The overburden dumps will be vegetated with suitable native species and monitoring and management of the area shall be done until the vegetation becomes self-sustaining.
33	Catch drains and siltation ponds of appropriate size shall be constructed around the mine	<b>Will be Complied</b> The quarry has been mined earlier by other parties and is an already open mine and hence


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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 2021 to March 2022**

S. No.	Conditions	Compliance Status as on March 31, 2022																									
	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.	<p>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.</p> <p>A siltation pond has been 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.</p> <p>The drains will be regularly desilted particularly after monsoon and maintained properly.</p>																									
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>62.1</td><td>38.4</td><td>100</td></tr><tr><td>PM<sub>2.5</sub></td><td>µg/m<sup>3</sup></td><td>30.8</td><td>19.8</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>	62.1	38.4	100	PM <sub>2.5</sub>	µg/m <sup>3</sup>	30.8	19.8	60	SO <sub>2</sub>	µg/m <sup>3</sup>	BDL	-	80	NO <sub>2</sub>	µg/m <sup>3</sup>	BDL	-	80
Parameter	Unit	Max	Min	Perm. Limit																							
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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	<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>																									


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S. No.	Conditions	Compliance Status as on March 31, 2022																		
	and at transfer points should be provided and properly maintained	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.																		
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 blasting.</li> <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 accredited laboratory; Standards Environmental &amp; Analytical Laboratories as per Noise Pollution (Regulation &amp; Control) Rules, 2000 (Rules 3 (1) and 4(1)) at 5 locations.</p> <p>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>L<sub>eq</sub> Day time</th><th>L<sub>eq</sub> Night time</th></tr> </thead> <tbody> <tr> <td>Quarry Area (Project Site)</td><td>46.8</td><td>35.1</td></tr> <tr> <td>Near Operators Rest Room (North Side)</td><td>45.3</td><td>35.7</td></tr> <tr> <td>Vanchiyoore UP School (West Side)</td><td>44.2</td><td>36.0</td></tr> <tr> <td>St. Joseph of Cluny Public School (South Side)</td><td>44.0</td><td>35.2</td></tr> <tr> <td>Viswanadhapuram Shiva Temple (East Side)</td><td>44.8</td><td>34.8</td></tr> </tbody> </table>	Location	L <sub>eq</sub> Day time	L <sub>eq</sub> Night time	Quarry Area (Project Site)	46.8	35.1	Near Operators Rest Room (North Side)	45.3	35.7	Vanchiyoore UP School (West Side)	44.2	36.0	St. Joseph of Cluny Public School (South Side)	44.0	35.2	Viswanadhapuram Shiva Temple (East Side)	44.8	34.8
Location	L <sub>eq</sub> Day time	L <sub>eq</sub> Night time																		
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		The results obtained were compared with Noise Pollution (Regulation & 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> .
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.	<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 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 during the compliance period (October 2021 to March 2022) 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	<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>

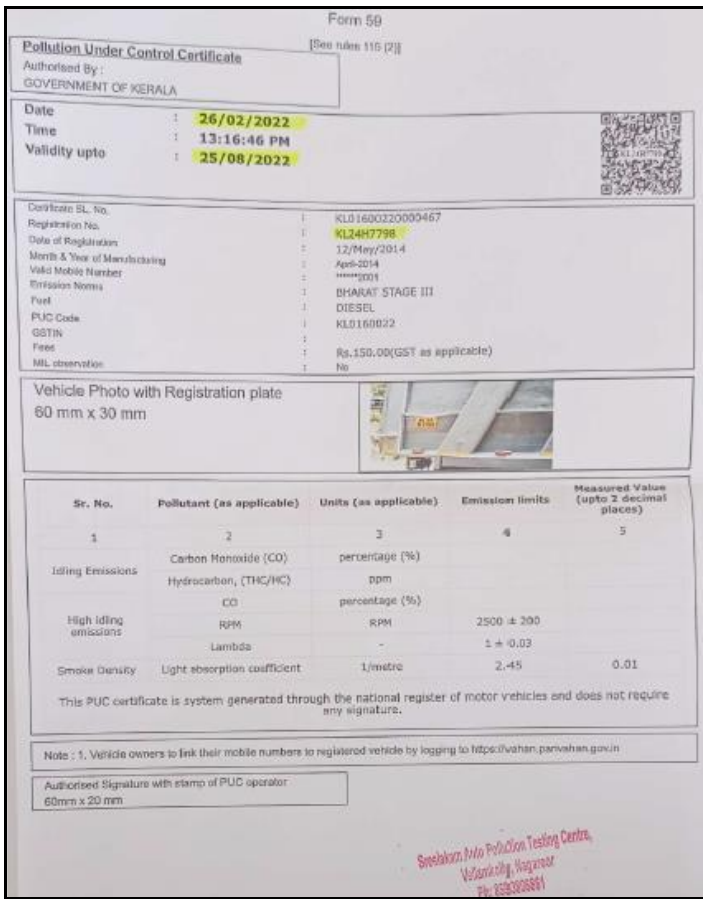



	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: October 2021 To: March 2022</b>
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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2022</b>
	data/information/monitoring reports.	
39	Any appeal against this Environmental 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.	<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 of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<b>Noted</b>
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	<b>Being Complied</b> Refer Point No. 23 above.
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	<b>Complied</b>

<b>adani</b>	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: October 2021 To: March 2022</b>
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S. No.	Conditions	Compliance Status as on March 31, 2022
	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	<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 align="center"><b>PuC Certificate</b></p>


	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: October 2021 To: March 2022</b>
<b>Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala</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 2021 to March 2022</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on March 31, 2022</b>
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	<b>Not Applicable</b> AVPPL is not withdrawing the surface water or ground water from the project area for any purposes.
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	<b>Not Applicable</b> 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.
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	<b>Being Complied</b> 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.

**Enclosures:**

<b>Annexure Number</b>	<b>Details of Annexure</b>
Annexure 1:	EMMC Structure at AVPPL
Annexure 2:	Observations and Recommendations of the Monitoring Committee
Annexure 3:	Status of Compliance to Recommendations of the Monitoring Committee
Annexure 4:	Email Submission of HYCR for the period October 2020 to March 2021
Annexure 5:	AAQM Report
Annexure 6:	Noise Monitoring Report
Annexure 7:	CER and EMP Expenditure Statements
Annexure 8:	Intimation to Dept. of Mining & Geology to Conduct Audit

## **Annexure 1: EMMC Structure at AVPPL**

	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: October 2021 To: March 2022</b>
<b>Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District</b>		

## Annexure 1

### Environmental Management and Monitoring Cell (EMMC) Structure:

S. No.	Name	Designation	Role	Experience (In Years)	Qualification
1.	Hebin C	Manager	Head – Environment	15	MS, Oceanography & Coastal Area Studies
2.	Vaddi Venkat	Associate General Manager	Head-Techno-Commercial	28	B.E.(Mechanical)
3.	Palanivelu Kumar	Manager Techno Commercial	Mines Manager	40	MA & First Class Mine Manager Competency Certificate Holder
4.	Saravanan. N	Assistant Manager	Mines Manager	8	B.E (Mining)
5.	S. Madasamy	Senior Officer	Mining Mate Cum Blaster	15	12th Grade
6.	Sunil Kumar Ayyappan	Associate General Manager - Projects	Head-Projects	21	B-Tech in Civil Engineering, University of Kerala Post Graduate Diploma in Business Management MDI Gurgaon
7.	Anil Balakrishnan	Southern Head	Head – CSR	24	MSW, Phd.
8.	Arun Mohan	Deputy Manager	Finance	8	MBA
9.	Jesse Benjamin Fullonton	Assistant Manager	Environment	11	BSc. Chemical Tech; Msc. Env. Tech
10.	Kanwar P Malik	Head	Horticulture	17	BSc - Agriculture
11.	Arumugam S	Assistant Manager	Safety, Environment and Health	3	M.Tech – Industrial Safety Engineering



**Annexure 2: Observations and  
Recommendations of the Monitoring  
Committee**

# ***State Environment Impact Assessment Authority (SEIAA) Kerala***

***KSRTC Bus Terminal, 4th floor, Thampanoor, Thiruvananthapuram - 695 001***

***Ph: +91471-2334262 (Off) +91471-2334265 (Fax)***

***e-mail: [seacseiaakerala@gmail.com](mailto:seacseiaakerala@gmail.com)***

***web: [www.seiaakerala.org](http://www.seiaakerala.org)***

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

**Date: 07.10.2021**

**From**

The Administrator  
State Environment Impact Assessment Authority  
Thiruvananthapuram

**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

**Sir,**

Sub:-SEIAA – Monitoring functioning of quarry of M/s Adani Vizhinjam Port Pvt. Ltd-  
Field inspection report - reg.

Ref :- 1.Minutes of the 112<sup>th</sup> SEIAA meeting held on 14<sup>th</sup>, 15<sup>th</sup>& 16<sup>th</sup> September  
2021

Attention is invited to the reference cited. The Authority considered the proposal in its 112<sup>th</sup> meeting of SEIAA and decided to forward the following observations and recommendation of monitoring committee:

## **Observations :**

- 1) Boundary Pillars are small and some are below present ground level
- 2) No fencing around the project boundary
- 3) Drainage system including garland canal and silt traps are not developed
- 4) Material movement during night disturbs the people living close to the quarry (on western side)
- 5) Top soil and overburden are seen dumped on the western slope without any protective measures
- 6) There is complaint about fly rocks on western side.

7) As per approved mining plan, the proponent proposed to use deep hole blasting (depth of the hole 6.5 m, dia 115 mm and 20 to 25 kg explosives per hole). But now 33 mm dia holes of depth 2.4 m used for controlled blasting. Maximum explosives used per hole is 625 gm. Up to 80 holes are used for single blasting.

8. Green belt development and afforestation programmes are not satisfactory

9. Muddy water is seen flowing to low lying area on western side (outside lease area)

10. Blasting is done between 10 am to 11.30 am and 1.30 pm to 2.30 pm. Proper warning signals are given before blasting

11. Ultimate depth of the quarry is 28 m MSL ( 12 m below lowest elevation )

### **Recommendation**

There is serious lapse on the part of the project proponent in complying EC conditions. Proponent may be instructed to comply the following immediately.

- 1) Boundary Pillars of minimum 5 ft from ground level must be erected.
- 2) Fencing must be done around project area.
- 3) Buffer zone must be earmarked and green belt development must be done immediately
- 4) Top soil and overburden now dumped on the western slope must be shifted to lower area with gabion wall protection.
- 5) Site specific garland canal, silt traps, settling pond, check dam etc. are to be implemented as per the approved mining plan and EC conditions
- 6) Material movement during night must be avoided as it affects people residing near the project boundary on western side.
- 7) Proper protective measures within danger zone must be taken during blasting to avoid fly rocks.
- 8) As the production is high, audit by the Mining & Geology Department may be done to ensure compliance of approved mining plan.

**The Authority vide reference 1<sup>st</sup> cited directs you to attend all the observations within 4 months failing which the EC given will be cancelled and action will be taken for violation of EC conditions.**

Yours faithfully,

Sd/-

**ANIL P. ANTONY**  
**Administrator, SEIAA**


Approved for issue

Section officer



## **Annexure 3: Status of Compliance to Recommendations of the Monitoring Committee**




	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: October 2021 To: March 2022</b>
<b>Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District</b>		

### Annexure 3

#### Status of compliance to observations and recommendations of monitoring committee:

S. No.	Recommendation	Compliance	Remarks
1.	Boundary Pillars of minimum 5 ft from ground level be erected.	<b>Complied</b> 5 ft Erected	Photographs Enclosed
2.	Fencing Must be done project area.	<b>Complied</b>	Photographs Enclosed
3.	Buffer zone must be earmarked and green belt development must be done immediately.	<b>Being Complied</b> Pillar from P4 to P5 Pillar afforestation completed. Pillar P1 to P2 the afforestation work will be done by this monsoon.	50% completed.  Photographs Enclosed
4.	Top soil and overburden now dumped on the western slope must be shifted to lower area with gabion wall protection.	<b>Being Complied</b> 50 Meters Gabion wall completed. Remaining 100 Meters Gabion wall is to be constructed by June 2022.	40% Completed.  Photographs Enclosed
5.	Site specific garland canal, silt traps, settling pond, check dam etc. are to be implemented as per the approved mining plan and EC conditions	<b>Complied</b> Garland drainage 60 Meters constructed. Check Dam Constructed. Silt traps and Settling tank formed in the catchment area of Check Dam.	Photographs Enclosed
6.	Material movement during night must be avoided as it affects people residing near the project boundary on western side	We got the permission from the Govt. of Kerala to do the Transportation, cleaning and shifting the building stone material in night time. We are not doing Breaking and Blasting during night time.	-
7.	Proper protective measures within danger zone must be taken during blasting to avoid fly rocks	<b>Complied</b> We are doing Nonel Blasting to avoid Fly rock. Dept. of Mining from Anna University conducted 10 trial blast and given the report stating that the Noise level is as per the norms and it has not crossed the norms.	Photographs Enclosed
8	As the production is high, audit by the Mining & Geology Department may be done to ensure compliance of approved mining plan	<b>Being Complied</b> AVPPL informed to Dept. of Mining & Geology regarding the audit and they are preparing the records for the same. The Director of Mining & Geology Dept. is doing the Auditing on 30.04.2022.	Reference: AVPPL/GoK/2021-22/1759 dated 15.11.2021 (Enclosed as <b>Annexure 8</b> )

	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2021 To: March 2022
Building Stone Quarry Project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District		

## Photographs:

### Boundary Pillars



### Fencing Pillars at the Boundary





### Buffer Zone Plantation Between P4 to P5



### Gabion Wall (BP-2 to BP-3)





### Garland Drainage



### Check Dam and Settling Pond



### Blasting Tools to Avoid Flyrock



Nonel



Electric Detonator



**Annexure 4: Email Submission of HYCR  
for the period October 2020 to March  
2021**

## Jesse Benjamin Fullonton

---

**From:** Rajesh Kumar Jha  
**Sent:** Friday, November 19, 2021 6:52 PM  
**To:** rosz.bng-mefcc@gov.in; rosz.bng-mef@nic.in  
**Cc:** seiaa kerala; Shalin Shah; Harsh Yadav; Hebin Chenthamarakshan; Jesse Benjamin Fullonton; Snehal Jariwala; Palanivelu Kumar  
**Subject:** EC No. 1200/EC2/2018/SEIAA dated 01.03.2019 - Half Yearly Compliance Report (HYCR) - Apr 2021 to Sep 2021 - Kadavilla-1 - Reg.  
**Attachments:** EC No.1200\_EC2\_2018\_SEIAA dated 01.03.2019-HYCR-Apr21-Sep21\_19.11.2021.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** 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 2021 to September 2021** 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.**

3rd Floor, Aspinwall House, PO-Kowdiar, Trivandrum- 695003, Kerala, India

Direct Line: 0471 277 2116 | [www.adani.com](http://www.adani.com)



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2021



## **Annexure 5: AAQM Report**

## TEST REPORT

<b>ULR No: TC540222000001916F</b>		
LRI No.:SEAAL22030564A	Date: 19-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt : 11-03-2022

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN22030202
Sample Name	Ambient Air	Sample Received on	14-03-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	14-03-2022
Sampled by	Lab Authorized Sampler	Test Completed on	18-03-2022

DETAILS OF SAMPLING			
Sampling Location	Project Site	Date of Sampling	11-03-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	72 %
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	µg/m <sup>3</sup>	62.1	100 (Max)



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:




**Laiju P.N.**  
**Laboratory Head**  
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**

<b>ULR No: TC540222000001916F</b>		
LRI No.:SEAAL22030564A	Date: 19-03-2022	Page 1 of 1

<b>TEST RESULTS- CHEMICAL PARAMETERS</b>					
<b>Sl. No.</b>	<b>PARAMETERS</b>	<b>TEST METHOD</b>	<b>UNIT</b>	<b>RESULT</b>	<b>NAAQ STANDARDS</b>
2	Particulate matter (PM <sub>2.5</sub> )	IS 5182 Part 24:2019	µg/m <sup>3</sup>	30.8	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006	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\*\*\*

Standards



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:



**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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## TEST REPORT

<b>ULR No: TC540222000001917F</b>		
LRI No.:SEAAL22030565A	Date: 19-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt : 11-03-2022

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN22030203
Sample Name	Ambient Air	Sample Received on	14-03-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	14-03-2022
Sampled by	Lab Authorized Sampler	Test Completed on	18-03-2022

DETAILS OF SAMPLING			
Sampling Location	Near Operators Rest Room North Side	Date of Sampling	11-03-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	72 %
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	µg/m <sup>3</sup>	53.6	100 (Max)



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:




**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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

## TEST REPORT

ULR No: TC540222000001917F

LRI No.:SEAAL22030565A	Date: 19-03-2022	Page 1 of 1
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### TEST RESULTS- CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
2	Particulate matter (PM <sub>2.5</sub> )	IS 5182 Part 24:2019	µg/m <sup>3</sup>	24.8	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006	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\*\*\*

# Standards



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:



**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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

## TEST REPORT

<b>ULR No: TC540222000001918F</b>		
LRI No.:SEAAL22030566A	Date: 19-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt : 11-03-2022

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN22030204
Sample Name	Ambient Air	Sample Received on	14-03-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	14-03-2022
Sampled by	Lab Authorized Sampler	Test Completed on	18-03-2022

DETAILS OF SAMPLING			
Sampling Location	Vanchiyoor UP School West Side	Date of Sampling	11-03-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	72 %
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	µg/m <sup>3</sup>	38.4	100 (Max)



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:




**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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

**TEST REPORT**

<b>ULR No: TC540222000001918F</b>		
LRI No.:SEAAL22030566A	Date: 19-03-2022	Page 1 of 1

<b>TEST RESULTS- CHEMICAL PARAMETERS</b>					
<b>Sl. No.</b>	<b>PARAMETERS</b>	<b>TEST METHOD</b>	<b>UNIT</b>	<b>RESULT</b>	<b>NAAQ STANDARDS</b>
2	Particulate matter (PM <sub>2.5</sub> )	IS 5182 Part 24:2019	µg/m <sup>3</sup>	19.8	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006	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\*\*\*

Standards



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:



**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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

## TEST REPORT

<b>ULR No: TC540222000001919F</b>		
LRI No.:SEAAL22030567A	Date: 19-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt : 11-03-2022

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN22030205
Sample Name	Ambient Air	Sample Received on	14-03-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	14-03-2022
Sampled by	Lab Authorized Sampler	Test Completed on	18-03-2022

DETAILS OF SAMPLING			
Sampling Location	ST: Joseph of Cluny Public School South side	Date of Sampling	11-03-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	72 %
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	µg/m <sup>3</sup>	46.9	100 (Max)



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:




**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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



## TEST REPORT

ULR No: TC540222000001919F		
LRI No.:SEAAL22030567A	Date: 19-03-2022	Page 1 of 1

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
2	Particulate matter (PM <sub>2.5</sub> )	IS 5182 Part 24:2019	µg/m <sup>3</sup>	23.7	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006	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\*\*\*

# Standards



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:



**Laiju P.N.**  
**Laboratory Head**  
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.

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

## TEST REPORT

<b>ULR No: TC540222000001920F</b>		
LRI No.:SEAAL22030568A	Date: 19-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt : 11-03-2022

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN22030206
Sample Name	Ambient Air	Sample Received on	14-03-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	14-03-2022
Sampled by	Lab Authorized Sampler	Test Completed on	18-03-2022

DETAILS OF SAMPLING			
Sampling Location	Viswanadhapuram Shiva Temple East Side	Date of Sampling	11-03-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	72 %
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	µg/m <sup>3</sup>	43.2	100 (Max)



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:




**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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## TEST REPORT

ULR No: TC540222000001920F

LRI No.:SEAAL22030568A	Date: 19-03-2022	Page 1 of 1
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### TEST RESULTS- CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
2	Particulate matter (PM <sub>2.5</sub> )	IS 5182 Part 24:2019	µg/m <sup>3</sup>	25.1	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006	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\*\*\*

# Standards



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:



**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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

## TEST REPORT

<b>ULR No: TC540222000001921F</b>		
LRI No.:SEAAL22030569A	Date: 19-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt: 11-03-2022

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN22030207
Sample Name	Ambient Noise	Monitoring Commenced on	11-03-2022/ 06:00
Monitoring Location	Project Site	Monitoring Completed on	12-03-2022/ 06:00
Test Method	IS 9989:1981	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	36.1	14:00	48.4	22:00	35.0
07:00	38.7	15:00	48.7	23:00	32.4
08:00	42.8	16:00	49.8	24:00	34.7
09:00	46.1	17:00	50.2	01:00	35.4
10:00	48.4	18:00	45.0	02:00	35.1
11:00	51.3	19:00	41.7	03:00	35.7
12:00	48.7	20:00	37.9	04:00	34.7
13:00	48.0	21:00	37.5	05:00	36.4

TEST RESULTS- CHEMICALPARAMETERS
----------------------------------



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:




**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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



**TEST REPORT**

ULR No: TC540222000001921F				
LRI No.:SEAAL22030569A		Date: 19-03-2022		Page 1 of 1
Sl. No.	PARAMETERS	UNIT	RESULT	NAAQ STANDARDS (RESIDENTIAL AREA)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	46.8	55 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	35.1	45 dB (A)

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

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

Standards



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:



**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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## TEST REPORT

<b>ULR No: TC540222000001922F</b>		
LRI No.:SEAAL22030570A	Date: 19-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt: 11-03-2022

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN22030208
Sample Name	Ambient Noise	Monitoring Commenced on	11-03-2022/ 06:00
Monitoring Location	Near Operators Rest Room North Side	Monitoring Completed on	12-03-2022/ 06:00
Test Method	IS 9989:1981	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	34.9	14:00	46.8	22:00	33.8
07:00	37.4	15:00	47.2	23:00	33.0
08:00	41.4	16:00	48.2	24:00	35.4
09:00	44.6	17:00	48.6	01:00	36.0
10:00	46.8	18:00	43.6	02:00	35.7
11:00	49.7	19:00	40.3	03:00	36.4
12:00	47.2	20:00	36.7	04:00	35.4
13:00	46.4	21:00	36.3	05:00	37.1



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:




**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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**TEST REPORT**

<b>ULR No: TC540222000001922F</b>		
LRI No.:SEAAL22030570A	Date: 19-03-2022	Page 1 of 1

<b>TEST RESULTS- CHEMICALPARAMETERS</b>				
<b>Sl. No.</b>	<b>PARAMETERS</b>	<b>UNIT</b>	<b>RESULT</b>	<b>NAAQ STANDARDS (RESIDENTIAL AREA)</b>
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	45.3	55 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	35.7	45 dB (A)

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

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

Standards



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:



**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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## TEST REPORT

ULR No: TC540222000001923F		
LRI No.:SEAAL22030571A	Date: 19-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt: 11-03-2022

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN22030209
Sample Name	Ambient Noise	Monitoring Commenced on	11-03-2022/ 06:00
Monitoring Location	Vanchiyoar UP School West Side	Monitoring Completed on	12-03-2022/ 06:00
Test Method	IS 9989:1981	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	34.1	14:00	45.8	22:00	33.1
07:00	36.6	15:00	46.1	23:00	33.3
08:00	40.5	16:00	47.2	24:00	35.7
09:00	43.6	17:00	47.5	01:00	36.4
10:00	45.8	18:00	42.6	02:00	36.0
11:00	48.6	19:00	39.4	03:00	36.7
12:00	46.1	20:00	35.9	04:00	35.7
13:00	45.4	21:00	35.5	05:00	37.4



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:




**Laiju P.N.**  
**Laboratory Head**  
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**TEST REPORT**

<b>ULR No: TC540222000001923F</b>		
LRI No.:SEAAL22030571A	Date: 19-03-2022	Page 1 of 1

<b>TEST RESULTS- CHEMICALPARAMETERS</b>				
<b>Sl. No.</b>	<b>PARAMETERS</b>	<b>UNIT</b>	<b>RESULT</b>	<b>NAAQ STANDARDS (RESIDENTIAL AREA)</b>
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	44.2	55 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	36.0	45 dB (A)

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

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

Standards



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:



**Laiju P.N.**  
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## TEST REPORT

ULR No.: TC540222000001924F		
LRI No.:SEAAL22030572A	Date: 19-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt: 11-03-2022

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN22030210
Sample Name	Ambient Noise	Monitoring Commenced on	11-03-2022/ 06:00
Monitoring Location	ST: Joseph of Cluny Public School South side	Monitoring Completed on	12-03-2022/ 06:00
Test Method	IS 9989:1981	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	45.5	22:00	32.9
07:00	36.4	15:00	45.9	23:00	32.5
08:00	40.3	16:00	46.9	24:00	34.8
09:00	43.4	17:00	47.3	01:00	35.5
10:00	45.5	18:00	42.4	02:00	35.2
11:00	48.3	19:00	39.2	03:00	35.8
12:00	45.9	20:00	35.7	04:00	34.8
13:00	45.2	21:00	35.3	05:00	36.5



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:




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**Laboratory Head**  
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**TEST REPORT**

<b>ULR No: TC540222000001924F</b>		
LRI No.:SEAAL22030572A	Date: 19-03-2022	Page 1 of 1

<b>TEST RESULTS- CHEMICALPARAMETERS</b>				
<b>Sl. No.</b>	<b>PARAMETERS</b>	<b>UNIT</b>	<b>RESULT</b>	<b>NAAQ STANDARDS (RESIDENTIAL AREA)</b>
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	44.0	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\*\*\*

Standards



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:



**Laiju P.N.**  
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## TEST REPORT

<b>ULR No: TC540222000001925F</b>		
LRI No.:SEAAL22030573A	Date: 19-03-2022	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Customer Reference	Test Request dt: 11-03-2022

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN22030211
Sample Name	Ambient Noise	Monitoring Commenced on	11-03-2022/ 06:00
Monitoring Location	Viswanadhapuram Shiva Temple East Side	Monitoring Completed on	12-03-2022/ 06:00
Test Method	IS 9989:1981	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	34.5	14:00	46.3	22:00	33.5
07:00	37.0	15:00	46.6	23:00	32.1
08:00	40.9	16:00	47.7	24:00	34.4
09:00	44.1	17:00	48.1	01:00	35.1
10:00	46.3	18:00	43.1	02:00	34.8
11:00	49.1	19:00	39.9	03:00	35.4
12:00	46.6	20:00	36.3	04:00	34.4
13:00	45.9	21:00	35.9	05:00	36.1



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:




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Authorized Signatory

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**TEST REPORT**

<b>ULR No: TC540222000001925F</b>		
LRI No.:SEAAL22030573A	Date: 19-03-2022	Page 1 of 1

<b>TEST RESULTS- CHEMICALPARAMETERS</b>				
<b>Sl. No.</b>	<b>PARAMETERS</b>	<b>UNIT</b>	<b>RESULT</b>	<b>NAAQ STANDARDS (RESIDENTIAL AREA)</b>
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	44.8	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\*\*\*

Standards



**Shency Joy**  
**Dy.TM-Chemical**  
Checked by:



**Laiju P.N.**  
**Laboratory Head**  
Authorized Signatory

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

	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2021 To: March 2022
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 2021-2022:

S. No.	CER Activity	Expenditure (Rs. Lakhs)
<b>Total FY 2020-2021</b>		<b>8.05</b>
1.	Water Supply to Local Community	2.31
2.	Onam Kit (Groceries & Provisions) Distribution to BPL Families	2.05
3.	COVID-19 beds and Antigen Kits	1.77
4.	Medical Expenses to Sathyaseelan M. and Chellama	0.12
<b>Total FY 2021-2022</b>		<b>6.25</b>
<b>Cumulative Total till date</b>		<b>14.30</b>

S. No.	EMP Expenditure	Expenditure (Rs. Lakhs)
<b>Total FY 2019-2020</b>		<b>4.95</b>
<b>Total FY 2020-2021</b>		<b>7.34</b>
1.	Water Sprinkling	8.05
2.	Greenbelt Development/Sapling Plantation	0.04
3.	Environmental Monitoring	0.80
<b>Total FY 2021-2022</b>		<b>8.89</b>
<b>Cumulative Total till date</b>		<b>21.18</b>

**Annexure 8: Intimation to Dept. of  
Mining & Geology to Conduct Audit**

O/C

444100/2021/GOM4

Ref: AVPPL/GoK/2021-22/1759

Date: 15th November 2021

**The Director,  
Department of Mining and Geology  
Thiruvananthapuram.**



Sub: Request for Audit by Dept. of Mining and Geology.

Ref: SEIAA letter No 1200/EC2/2018/SEIAA Dtd 07.10.2021.

Dear Sir,

As per the reference cited above, SEIAA in its 112<sup>th</sup> meeting held on 14<sup>th</sup>, 15<sup>th</sup> & 16<sup>th</sup> September 2021, directed to conduct an audit by Dept. of Mining & Geology of our documents connected with our running quarry at re survey No 555/2, Block No 37, Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram.

In this regard, we humbly request you to do an audit of documents in order to ensure the compliances of approved mining plan.

We can submit if any documents/details to be furnished from our side to carry out the audit depending upon the information provided by you.

Thanking you,

Yours Sincerely

Rajesh Kumar Jha,  
MD&CEO

Encl; SEIAA Letter No1200/EC2/2018/SEIAA Dtd 07.10.2021.

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**Half Yearly Compliance Report (HYCR)  
October 2021 to March 2022**

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



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