

# **Building Stone Quarry Project**

**Block No. 29, Re-survey No. 120/10 at Manickal  
Village, Nedumangad Taluk, Thiruvananthapuram  
District**

Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA dated 27.02.2020

**Half Yearly Compliance Report (HYCR)  
for the Period April 2022 to September 2022**

Project Proponent



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

**November 2022**



Ports and  
Logistics

AVPPL/MoEF/2022-23/2222

Date: 22<sup>nd</sup> November 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 April 2022 to September 2022 - Reg.


**Reference:** EC for Building Stone Quarry in Block No.29, Re-Survey No.120/10 at Manickal Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala; by M/s. Adani Vizhinjam Port Pvt. Ltd. vide **No. 1416/EC1/2019/SEIAA dated 27.02.2020**

Dear Sir/Madam,

This is with reference to the Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA issued on 27<sup>th</sup> February 2020 (vide reference cited) by the State Environmental Impact Assessment Authority (SEIAA), Kerala for the building stone quarry project in Block No.29, Re-Survey No.120/10 in Manickal Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala; of M/s. Adani Vizhinjam Port Pvt. Ltd. (AVPPL).

The Half Yearly EC Compliance Report (HYCR) of the conditions stipulated in the cited reference for the period from **April 2022 to September 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

	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: April 2022 To: September 2022</b>
<b>Building Stone Quarry Project in Block No. 29, Re-survey No. 120/10 at Manickal Village, Nedumangad Taluk, Thiruvananthapuram District</b>		

<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA dated 27.02.2020 for the Period April 2022 to September 2022</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on September 30, 2022</b>
<b>Specific Conditions</b>		
1	The Proponent shall follow the directions given by the District Collector, Thiruvananthapuram vide his NOC No. 137/127325/18 dated 13.07.2018. The copy of the NOC may also be enclosed with the EC.	<p><b>Complied</b></p> <p>Adani Vizhinjam Port Pvt. Ltd. (AVPPL) will follow the directions given by the District Collector, Thiruvananthapuram vide NoC No. B7-127329/18 dated 13.07.2018. Copy of the NoC was submitted along with Half Yearly Compliance Report (HYCR) for the period October 2021 to March 2022.</p> <p>The NoC was further renewed on the same terms and conditions vide NoC No. B7-127329/18 dated 04.01.2020 (Copy of the renewed NoC was submitted along with HYCR for the period October 2021 to March 2022).</p>
2	Activities relating to Corporate Environmental Responsibility amounting to Rs. 1.64 lakhs shall be carried out leading to protection and promotion of environment including waste management in the project district as per OM FNo.22-65/2017-IA-III dt.01.05.2018 of MoEF& CC as directed by Director, Directorate of Environment & Climate Change and supervised by District Collector.	<p><b>Being Complied</b></p> <p>A total of Rs. 1.64 Lakhs will be spent on Corporate Environment Responsibility (CER) with expense heads under specific activities leading to protection and promotion of environment in line with Ministry of Environment and Forests &amp; Climate Change (MoEF&amp;CC) Office Memorandum (OM) F.No.22-65/2017-IA.III dated 01.05.2018.</p> <p>During the compliance period, AVPPL had distributed 150 Onam Kits as a part of CER initiative to Below Poverty Line (BPL) families surrounding the project area amounting to expenditure of Rs. 1.49 Lakhs. The Onam Kit (which included various groceries and provisions) were sourced from VIZ Mart (an initiative supported by Adani foundation) and the same were distributed on 05.09.2022.</p> <p>Till 30.09.2022, an amount of Rs. 1.49 Lakhs has been spent towards CER Activities. A statement on the expenditure is given as <b>Annexure1</b>.</p>
3	The proponent shall carry out quarrying as per the approved Mining Plan and the proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.	<p><b>Being Complied</b></p> <p>AVPPL has commenced operation on 23.03.2022. AVPPL will carry out quarrying as per the Approved Mining Plan (submitted along with HYCR for the period October 2021 to March 2022) and will strictly follow the Kerala Minor Mineral Concession Rules (KMMCR), 2015 and amendments.</p>


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		From 17.07.2022, AVPPL began developing road from the quarry project site for movement of vehicles and due to this, the quarry was not operational. Further, mining activities could not take place from 16.08.2022 onwards due to protests by the Latin Archdiocese and others. As on the end of the compliance period, the situation has not subsided and mining activities are on hold due to the ongoing agitation.
4	In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.	<b>Being 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. The Ignition will be the Non-Conventional and Eco Friendly method by NONEL
5	As per the directions contained in the OM F.No. 22-34/2018-IA.III dated 16th January 2020 issued by MoEF &CC, in obedience to the directions of the Honourable Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the half yearly compliance report which will be monitored by SEAC at regular intervals.	<b>Will be Complied</b> AVPPL shall undertake plantation as per Progressive Mine Closure Plan; which is included in the Approved Mining Plan (submitted along with HYCR for the period October 2021 to March 2022) as per KMMCR, 2015. AVPPL shall also undertake re-grassing in any other area which may have been disturbed due to mining activities to restore the land to a condition fit for growth of suitable flora.
<b>General Conditions</b>		
1	A separate environmental management and monitoring cell	<b>Complied</b> A separate Environmental Management and

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	with qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	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 Organizational Structure for EMMC was submitted along with HYCR for the period October 2021 to March 2022.
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>Will be Complied</b> AVPPL will plant avenue trees at suitable locations like buffer zone, etc. for greenbelt development. A safety barrier area of 7.5 m from the boundary shall be developed as greenbelt area by planting the local species. At Mine Closure stage, the working pit shall be developed for water storage surrounded with local bio diversified vegetation. Totally 0.2922 Ha safety barrier area shall be used for development of greenbelt. Apart from this, plantation shall be undertaken outside the lease area along the haulage road.
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 is being carried out on haul roads and other dust prone areas such as during loading of building stone.  From 17.07.2022, AVPPL began developing road from the quarry project site for movement of vehicles and due to this, the quarry was not operational. Further, mining activities could not take place from 16.08.2022 onwards due to protests by the Latin Archdiocese and others. As on the end of the compliance period, the situation has not subsided and mining activities are on hold due to the ongoing agitation.
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 (submitted along with HYCR for the period October 2021 to March 2022). 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	<b>Not Applicable</b> Stacking of materials is not being carried out as




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	maximum top level should be carried out.	<p>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 as a pond for storing of water through rainwater harvesting method and will also be induced to sustain the groundwater table. The pit shall be properly fenced with single opening for drawing the water. As per the post mining land use, an area of 0.22 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>Rs. 1.64 Lakhs will be spent on CER with expense heads under specific activities leading to protection and promotion of environment in line with Ministry of Environment and Forests &amp; Climate Change (MoEF&amp;CC) Office Memorandum (OM) F.No.22-65/2017-IA.III dated 01.05.2018.</p> <p>During the compliance period, AVPPL had distributed around 150 Onam Kits as a part of CER initiative to BPL families surrounding the project area amounting to expenditure of Rs. 1.49 Lakhs. The Onam Kit (which included various groceries and provisions) were sourced from VIZ Mart (an initiative supported by Adani foundation) and the same were distributed on 05.09.2022.</p>


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		 <p style="text-align: center;"><b>Distribution of Onam Kits</b></p>
7	The project proponent shall comply the conditions stipulated by the statutory authorities concerned.	<b>Being Complied</b> AVPPL is complying with all applicable conditions stipulated by respective competent statutory authorities.
8	Tarring /multiple options on the access roads shall be undertaken so as to reduce dust pollution during movement of vehicle.	<b>Being Complied</b> AVPPL began developing a tar road of around 0.8 km from the quarry project site to Pirappancode Road (which is connected to Main Central (MC) Road – State Highway (SH)-1) for movement of vehicles from 17.07.2022 to reduce the air pollution.
9	Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions	<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 minimal top soil or overburden available in the quarry; all the produced materials are being used for Breakwater Construction at Vizhinjam Port and there would be no generation of waste.  Weathered rock was found at the site and that is being stored between pillar No. 1 and 2 within the site. The weathered rock was used for development of internal roads within the mine.
10	Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is	<b>Being Complied</b> As per the Approved Mining Plan (submitted along with HYCR for the period October 2021 to


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	no mention in the mining plan/specific condition.	March 2022) 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 Approved Mining Plan (submitted along with HYCR for the period October 2021 to March 2022).
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 as there will be no crushing and screening within the lease area.
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 workers and employees are provided with relevant Personal Protective Equipment (PPEs) like Helmets, Shoes, Fluorescent Reflective Jackets, etc.
15	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	<b>Being Complied</b> Mining operations are being carried out in the top level during the compliance period. However, garland drainage/garland canals of 30 m will be developed in the lower slopes all along periphery of mining area to channelize storm water and prevent the entry of rainwater in the pit. The water from garland drain shall be diverted to silt settling tanks & rainwater harvesting ponds before releasing clarified water to the natural water course.
16	The transportation of minerals should be done in covered trucks to contain dust emissions. The	<b>Being Complied</b> The transportation of minerals in trucks is being undertaken covered with tarpaulin cover. From




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	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>17.07.2022, AVPPL began developing road from the quarry project site for movement of vehicles and due to this, the quarry was not operational. Further, mining activities could not take place from 16.08.2022 onwards due to protests by the Latin Archdiocese and others. As on the end of the compliance period, the situation has not subsided and mining activities are on hold due to the ongoing agitation.</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>Not Applicable</b></p> <p>As on date, explosives are being procured directly from the approved dealer and not being stored at the project site.</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 (submitted along with HYCR for the period October 2021 to March 2022) 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 more than 50 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 or forest lands 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.	<b>Complied</b> CTO has been obtained from Kerala State Pollution Control Board (KSPCB) vide Consent No. vide Consent No.: PCB/TVM-DO/ICO/NDD/QRY/29/2020 dated 16.03.2020 valid up to 26.02.2025. A copy of the CTO was submitted HYCR for the period October 2019 to March 2020).
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.	<b>Complied</b> AVPPL have obtained all applicable statutory clearances from the respective competent authorities. The following clearances have been obtained: <ul style="list-style-type: none"> <li>• Approved Mining Plan by District Geologist, Thiruvananthapuram vide Letter No. 362/DOT/ML/18 dated 24.07.2019 (Copy was submitted along with HYCR for the period October 2021 to March 2022).</li> <li>• No Objection Certificate (NoC) from Thiruvananthapuram District Collector vide Letter No. B7-127329/18 dated 13.07.2018 for Govt. land (Copy was submitted along with HYCR for the period October 2021 to March 2022).</li> <li>• The NoC was further renewed on the same terms and conditions vide NoC No. B7-127329/18 dated 04.01.2020 (Copy was submitted along with HYCR for the period October 2021 to March 2022).</li> <li>• Directorate of Mining and Geology, Govt. of Kerala, Thiruvananthapuram has issued a Letter of Intent (LOI) vide No. 5219/M3/2019 dated 07.06.2019. Copy was submitted along with Half Yearly Compliance Report for the period October 2021 to March 2022.</li> <li>• CTO has been obtained from Kerala State Pollution Control Board (KSPCB) vide Consent No.: PCB/TVM-DO/ICO/NDD/QRY/29/2020 dated 16.03.2020 valid up to 26.02.2025. A copy of the same was submitted along with HYCR for</li> </ul>


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		<p>the period October 2019 to March 2020).</p> <ul style="list-style-type: none"> <li>• Purchase and Use of Explosives Approval from Petroleum &amp; Explosives Safety Organization (PESO), Ernakulam vide Letter No. E/SE/KL/22/129(E95316) dated 18.02.2022. (submitted along with HYCR for the period October 2021 to March 2022)</li> <li>• Dangerous and Offensive Trade (D&amp;O) License (Deemed as granted vide judgment dated 13.01.2021 in WP(C). No. 274 of 2021 (submitted along with HYCR for the period October 2021 to March 2022)</li> <li>• Lease Order from DMG vide Letter No. 7671/M3/2021 dated 22.01.2022 and Lease Execution from Additional Director of Mining and Geology vide Pro. Order No. 428/2021-22/5219/M3/2019/DMG dated 22.01.2022 (submitted along with HYCR for the period October 2021 to March 2022)</li> <li>• Quarrying Lease Registration Agreement in Form H at Thiruvananthapuram Registrar Office dated 28.01.2022 (submitted along with HYCR for the period October 2021 to March 2022)</li> </ul> <p>Any further required statutory clearances will be obtained, as applicable, from the respective competent authorities.</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	<b>Noted</b>
23	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action	<b>Noted</b>


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	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.	
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 27.02.2020. Details of the EC were advertised in the local newspapers published on 01.03.2020 (A copy of the same was submitted along with HYCR for the period October 2019 to March 2020). The signed EC was submitted to SEIAA vide AVPPL/SEIAA/2019-20/1083 dated 04.03.2020 (A copy of the same was submitted along with HYCR for the period October 2019 to March 2020).</p> <p>A 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>. The copy of EC is also uploaded to the company website: <a href="http://www.adaniports.com/Downloads">www.adaniports.com/Downloads</a>.</p>


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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="http://www.adaniports.com/Downloads">www.adaniports.com/Downloads</a> . Screenshot of the same was submitted along with HYCR for the period October 2019 to March 2020.
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 October 2021 to March 2022 has been submitted vide email dated 28.05.2022 (a copy of the email is enclosed as <b>Annexure 2</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>EC Details Displayed on Board at Site</b>
29	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the	<b>Complied</b> AVPPL have submitted Notarized Affidavit stating that all the conditions stipulated in the EC shall be scrupulously followed was submitted to SEIAA vide SEIAA vide AVPPL/SEIAA/2019-




	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: April 2022 To: September 2022</b>
<b>Building Stone Quarry Project in Block No. 29, Re-survey No. 120/10 at Manickal Village, Nedumangad Taluk, Thiruvananthapuram District</b>		


<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA dated 27.02.2020 for the Period April 2022 to September 2022</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on September 30, 2022</b>
	conditions stipulated in the EC shall be scrupulously followed.	20/1083 dated 04.03.2020. A copy of the affidavit was submitted along HYCR for the period October 2019 to March 2020.
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</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 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.  Weathered rock was found at the site and that is being stored between pillar No. 1 and 2 within the site. Weathered rock was used for development of internal roads within the mine.

	Adani Vizhinjam Port Private Limited (AVPPL)	From: April 2022 To: September 2022
Building Stone Quarry Project in Block No. 29, Re-survey No. 120/10 at Manickal Village, Nedumangad Taluk, Thiruvananthapuram District		


Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA dated 27.02.2020 for the Period April 2022 to September 2022																											
S. No.	Conditions	Compliance Status as on September 30, 2022																									
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>Being Complied</b> AVPPL is developing a siltation pond (5m X 5m X 2m depth) 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 greenbelt development, etc.  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	<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.  Environment Monitoring at the site has been carried out by NABL accredited laboratory; M/s. Standards Environmental & Analytical Laboratories. Summary of the Ambient Air Quality Monitoring (AAQM) during the compliance period at 5 monitoring locations is mentioned below. <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>68.6</td><td>42.3</td><td>100</td></tr><tr><td>PM<sub>2.5</sub></td><td>µg/m<sup>3</sup></td><td>35.8</td><td>22.5</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> The Ambient Air Quality Monitoring Report is enclosed as <b>Annexure 3</b> . All the monitored parameters were found within the prescribed limits.	Parameter	Unit	Max	Min	Perm. Limit	PM <sub>10</sub>	µg/m <sup>3</sup>	68.6	42.3	100	PM <sub>2.5</sub>	µg/m <sup>3</sup>	35.8	22.5	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																							
PM <sub>10</sub>	µg/m <sup>3</sup>	68.6	42.3	100																							
PM <sub>2.5</sub>	µg/m <sup>3</sup>	35.8	22.5	60																							
SO <sub>2</sub>	µg/m <sup>3</sup>	BDL	-	80																							
NO <sub>2</sub>	µg/m <sup>3</sup>	BDL	-	80																							
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	<b>Being Complied</b> AVPPL is developing a tar road of around 0.8 km from the quarry project site to Pirppanacode Road (which is connected to MC Road) for movement of vehicles; thereby reducing the dust pollution.																									

	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: April 2022 To: September 2022</b>
<b>Building Stone Quarry Project in Block No. 29, Re-survey No. 120/10 at Manickal Village, Nedumangad Taluk, Thiruvananthapuram District</b>		

<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA dated 27.02.2020 for the Period April 2022 to September 2022</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on September 30, 2022</b>
	provided and properly maintained	<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> <p>From 17.07.2022, AVPPL began developing road from the quarry project site for movement of vehicles and due to this, the quarry was not operational. Further, mining activities could not take place from 16.08.2022 onwards due to protests by the Latin Archdiocese and others. As on the end of the compliance period, the situation has not subsided and mining activities are on hold due to the ongoing agitation.</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: 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 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. Standards Environmental &amp; Analytical Laboratories 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>


	Adani Vizhinjam Port Private Limited (AVPPL)	From: April 2022 To: September 2022
Building Stone Quarry Project in Block No. 29, Re-survey No. 120/10 at Manickal Village, Nedumangad Taluk, Thiruvananthapuram District		

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA dated 27.02.2020 for the Period April 2022 to September 2022																																			
S. No.	Conditions	Compliance Status as on September 30, 2022																																	
		<table><tr><th>Location</th><th>L<sub>eq</sub> Day time</th><th>Perm. Limit</th><th>L<sub>eq</sub> Night time</th><th>Perm. Limit</th></tr><tr><td>Project Site</td><td>48.8</td><td>75.0</td><td>38.7</td><td>70.0</td></tr><tr><td>St. Johns Hospital, Manikkal</td><td>42.4</td><td>55.0</td><td>36.5</td><td>45.0</td></tr><tr><td>Govt. L P School, Perumala</td><td>46.1</td><td>55.0</td><td>36.9</td><td>45.0</td></tr><tr><td>Kovilvila Sree Mahavishnu Temple</td><td>38.1</td><td>55.0</td><td>35.4</td><td>45.0</td></tr><tr><td>Operators Rest Room</td><td>43.2</td><td>55.0</td><td>36.7</td><td>45.0</td></tr></table>	Location	L <sub>eq</sub> Day time	Perm. Limit	L <sub>eq</sub> Night time	Perm. Limit	Project Site	48.8	75.0	38.7	70.0	St. Johns Hospital, Manikkal	42.4	55.0	36.5	45.0	Govt. L P School, Perumala	46.1	55.0	36.9	45.0	Kovilvila Sree Mahavishnu Temple	38.1	55.0	35.4	45.0	Operators Rest Room	43.2	55.0	36.7	45.0	<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 4</b>.</p>		
Location	L <sub>eq</sub> Day time	Perm. Limit	L <sub>eq</sub> Night time	Perm. Limit																															
Project Site	48.8	75.0	38.7	70.0																															
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Operators Rest Room	43.2	55.0	36.7	45.0																															
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.	<b>Being Complied</b> <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 (submitted along with HYCR for the period October 2021 to March 2022) 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>AVPPL had 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. 1.64 Lakhs earmarked for CER and funds earmarked for environmental protection measures will be kept as a balance in the current Escrow Account.</p>																																	
38	The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the	<b>Will be Complied</b> <p>All necessary support will be extended to the Regional Office of MoEF&amp;CC located at</p>																																	


	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: April 2022 To: September 2022</b>
<b>Building Stone Quarry Project in Block No. 29, Re-survey No. 120/10 at Manickal Village, Nedumangad Taluk, Thiruvananthapuram District</b>		

<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA dated 27.02.2020 for the Period April 2022 to September 2022</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on September 30, 2022</b>
	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.	Bangalore for the monitoring of the compliance of the stipulated conditions by furnishing the requisite data/information/monitoring reports.
39	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<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>Noted</b>
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	<b>Noted</b>



	Adani Vizhinjam Port Private Limited (AVPPL)	From: April 2022 To: September 2022
Building Stone Quarry Project in Block No. 29, Re-survey No. 120/10 at Manickal Village, Nedumangad Taluk, Thiruvananthapuram District		

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA dated 27.02.2020 for the Period April 2022 to September 2022		
S. No.	Conditions	Compliance Status as on September 30, 2022
	litigation related to the land or project, in any court of law.	
44	The mining operation shall be restricted to above ground water table and it should not intersect ground water table	<b>Will be Complied</b> Mining operations will be restricted to workings at a higher level at the quarry and will not touch the ground water table. The mine is located at higher elevation on hill and the water table in the mine is much below the general surface. However, a few perched aquifers has been observed at a distance of about 130m from the boundary of the mine. Here the observed water level to be about 10 m below from the surface. The expected deepest mining operation during this mining period shall be about 66 m above MSL; which will be much above the ground water table. No ground water is expected to be encountered during mining.
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	<b>Being Complied</b> It is ensured that all vehicles used for transportation are having valid Pollution Under Control (PuC) certificate from authorized center.
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 are 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>Will be Complied</b> Occupational health surveillance program of the workers will be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures. The statutory norms shall be followed during the course of mining to ensure the proper health and safety of


	<b>Adani Vizhinjam Port Private Limited (AVPPL)</b>	<b>From: April 2022 To: September 2022</b>
<b>Building Stone Quarry Project in Block No. 29, Re-survey No. 120/10 at Manickal Village, Nedumangad Taluk, Thiruvananthapuram District</b>		

<b>Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA dated 27.02.2020 for the Period April 2022 to September 2022</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status as on September 30, 2022</b>
		<p>workers. All the health and safety aspects as per the requirement and standards of the DGMS shall be followed to ensure the health and safety of all persons employed at the mine.</p> <p>Mining activities could not take place from 16.08.2022 onwards due to protests by the Latin Archdiocese and others. As on the end of the compliance period, the situation has not subsided and mining activities are on hold due to the ongoing agitation. Due to this, the medical health test of the workers and laborers shall be taken up at a later stage.</p>

**Enclosures:**

<b>Annexure Number</b>	<b>Details of Annexure</b>
Annexure 1:	CER and EMP Expenditure Statement
Annexure 2	Email Submission of HYCR for the period October 2021 to March 2022
Annexure 3	Ambient Air Quality Monitoring Report
Annexure 4	Noise Monitoring Report

# **Annexure 1: CER and EMP Expenditure Statements**

	Adani Vizhinjam Port Private Limited (AVPPL)	From: April 2022 To: September 2022
Building Stone Quarry Project in Block No. 29, Re-survey No. 120/10 at Manickal Village, Nedumangad Taluk, Thiruvananthapuram District		

## Annexure 1

### Expenditure Statement for CER activities for the FY 2022-2023:

S. No.	CER Activity	Expenditure (Rs. Lakhs)
1.	Onam Kit (Groceries & Provisions) Distribution to BPL Families	1.49
<b>Total FY 2022-2023 (till 30.09.2022)</b>		<b>1.49</b>

### Expenditure Statement EMP activities for the FY 2022-2023:

S. No.	EMP Expenditure	Expenditure (Rs. Lakhs)
1.	Water Sprinkling	0.24
2.	Environmental Monitoring	0.40
<b>Total FY 2022-2023 (till 30.09.2022)</b>		<b>0.64</b>

**Annexure 2: Email Submission of HYCR  
for the period October 2021 to March  
2022**



## Jesse Benjamin Fullonton

---

**From:** Rajesh Kumar Jha  
**Sent:** Saturday, May 28, 2022 10:54 AM  
**To:** rosz.bng-mefcc@gov.in; rosz.bng-mef@nic.in  
**Cc:** seiaa kerala; Hebin Chenthamarakshan; Jesse Benjamin Fullonton; Snehal Jariwala; Harsh Yadav; Palanivelu Kumar  
**Subject:** EC No. 1416/EC1/2019/SEIAA dated 27.02.2020 - HYCR - Oct 2021 to Mar 2022 - Manickal - Reg.  
**Attachments:** EC No. 1416\_EC1\_2019\_SEIAA dated 27.02.2020\_HYCR-Oct21-Mar22-26.05.2022.pdf

Dear Sir/Madam,

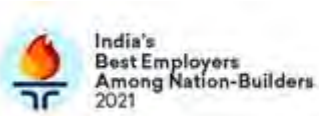
This is with reference to the **Environmental Clearance (EC) Order No. 1416/EC1/2019/SEIAA dated 27.02.2020** issued by State Environment Impact Assessment Authority (SEIAA), Kerala to Adani Vizhinjam Port Private Limited (AVPPL) for our **Granite Building Stone Quarry Project in Block No.29, Re-Survey No.120/10 in Manickal Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala.**

The Half Yearly Compliance Report (HYCR) of the conditions stipulated in the EC for the period October 2021 to March 2022 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)



## **Annexure 3: Ambient Air Quality Monitoring Report**

## TEST REPORT

ULR No: TC540222000008879F		
LRI No.: SEAAL22100282A	Date: 07-10-2022	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Manickal, Nedumangad Thiruvananthapuram District
Customer Reference	Test Request dt : 28-09-2022

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN22090701
Sample Name	Ambient Air	Sample Received on	29-09-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	30-09-2022
Sampled by	Lab Authorized Sampler	Test Completed on	06-10-2022

DETAILS OF SAMPLING			
Sampling Location	Project Site	Date of Sampling	28-09-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	72 %
Latitude	8°39'15.3396" N	Longitude	76°55'24.60216"E

SAMPLING SITE DETAILS			
Re - Survey No	120/10, Block No.29		
Village	Manickal	Taluk	Nedumangad
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>	52.5	100 (Max)
2	Particulate matter (PM <sub>2.5</sub> )	IS 5182 (Part 24):2019	µg/m <sup>3</sup>	27.1	60.0 (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: TC540222000008879F</b>		
LRI No.: SEAAL22100282A	Date: 07-10-2022	Page 2 of 2

<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>
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.

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

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017  
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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: TC540222000008880F

LRI No.: SEAAL22100283A

Date: 07-10-2022

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Manickal, Nedumangad Thiruvananthapuram District
Customer Reference	Test Request dt : 28-09-2022

### SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN22090702
Sample Name	Ambient Air	Sample Received on	29-09-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	30-09-2022
Sampled by	Lab Authorized Sampler	Test Completed on	06-10-2022

### DETAILS OF SAMPLING

Sampling Location	St: Johns Hospital, Manikkal	Date of Sampling	28-09-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	72 %
Latitude	8°39'47.11752"N	Longitude	76°54'50.2128"E

### SAMPLING SITE DETAILS

Re - Survey No	120/10, Block No.29		
Village	Manickal	Taluk	Nedumangad
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>	42.3	100 (Max)



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




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

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**TEST REPORT****ULR No: TC540222000008880F**

LRI No.: SEAAL22100283A

Date: 07-10-2022

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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>	22.5	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

ULR No: TC540222000008881F		
LRI No.: SEAAL22100284A	Date: 07-10-2022	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Manickal, Nedumangad Thiruvananthapuram District
Customer Reference	Test Request dt : 28-09-2022

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN22090703
Sample Name	Ambient Air	Sample Received on	29-09-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	30-09-2022
Sampled by	Lab Authorized Sampler	Test Completed on	06-10-2022

DETAILS OF SAMPLING			
Sampling Location	Govt.L P School, Perumala	Date of Sampling	28-09-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	72 %
Latitude	8°41'3.76656"N	Longitude	76°55'34.74948"E

SAMPLING SITE DETAILS			
Re - Survey No	120/10, Block No.29		
Village	Manickal	Taluk	Nedumangad
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>	68.6	100 (Max)



**Shency Joy**  
**Dy.TM-Chemical**  
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Authorized Signatory

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## TEST REPORT

ULR No: TC540222000008881F

LRI No.: SEAAL22100284A

Date: 07-10-2022

Page 2 of 2

### 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>	35.8	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**  
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## TEST REPORT

ULR No: TC540222000008882F

LRI No.: SEAAL22100285A

Date: 07-10-2022

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Manickal, Nedumangad Thiruvananthapuram District
Customer Reference	Test Request dt : 28-09-2022

### SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN22090704
Sample Name	Ambient Air	Sample Received on	29-09-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	30-09-2022
Sampled by	Lab Authorized Sampler	Test Completed on	06-10-2022

### DETAILS OF SAMPLING

Sampling Location	Kovilvila Sree Mahavishnu Temple	Date of Sampling	28-09-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	72 %
Latitude	8°39'42.20748"N	Longitude	76°56'36.23712"N

### SAMPLING SITE DETAILS

Re - Survey No	120/10, Block No.29		
Village	Manickal	Taluk	Nedumangad
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>	50.1	100 (Max)



**Shency Joy**  
**Dy.TM-Chemical**  
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## TEST REPORT

ULR No: TC540222000008882F

LRI No.: SEAAL22100285A

Date: 07-10-2022

Page 2 of 2

### 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>	26.4	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**  
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## TEST REPORT

ULR No: TC540222000008883F

LRI No.: SEAAL22100286A

Date: 07-10-2022

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Manickal, Nedumangad Thiruvananthapuram District
Customer Reference	Test Request dt : 28-09-2022

### SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN22090705
Sample Name	Ambient Air	Sample Received on	29-09-2022
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	30-09-2022
Sampled by	Lab Authorized Sampler	Test Completed on	06-10-2022

### DETAILS OF SAMPLING

Sampling Location	Operators Rest Room	Date of Sampling	28-09-2022
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	72 %
Latitude	8°39'17.88732"N	Longitude	76°55'39.9162"E

### SAMPLING SITE DETAILS

Re - Survey No	120/10, Block No.29		
Village	Manickal	Taluk	Nedumangad
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>	50.0	100 (Max)



**Shency Joy**  
**Dy.TM-Chemical**  
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## TEST REPORT

ULR No: TC540222000008883F

LRI No.: SEAAL22100286A

Date: 07-10-2022

Page 2 of 2

### 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>	26.1	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



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**Dy.TM-Chemical**  
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## **Annexure 4: Noise Monitoring Report**

## TEST REPORT

ULR No: TC540222000008884F

LRI No.: SEAAL22100287A

Date: 07-10-2022

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Manickal, Nedumangad Thiruvananthapuram District
Customer Reference	Test Request dt: 28-09-2022

### DETAILS OF MONITORING

Product Category	Atmospheric Pollution	Sample Code	EN22090706
Sample Name	Ambient Noise	Monitoring Commenced on	28-09-2022/ 06:00
Monitoring Location	Project Site	Monitoring Completed on	29-09-2022/ 06:00
Test Method	IS 9989:1981	Monitored by	Lab Authorized Sampler
Latitude	8°39'32.43852"N	Longitude	76°55'40.26533"E

### SAMPLING SITE DETAILS

Re - Survey No	120/10, Block No.29		
Village	Manickal	Taluk	Nedumangad
District	Thiruvananthapuram	State	Kerala

### MONITORING RESULTS - Leq

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.5	14:00	50.3	22:00	36.4
07:00	40.2	15:00	50.7	23:00	35.7
08:00	44.5	16:00	51.9	24:00	38.3
09:00	48.0	17:00	52.2	01:00	39.0
10:00	50.3	18:00	46.8	02:00	38.6
11:00	53.4	19:00	43.3	03:00	39.4
12:00	50.7	20:00	39.5	04:00	38.3
13:00	49.9	21:00	39.0	05:00	40.1



**Shency Joy**  
**Dy.TM-Chemical**  
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**TEST REPORT**

**ULR No: TC540222000008884F**

LRI No.: SEAAL22100287A

Date: 07-10-2022

Page 2 of 2

**TEST RESULTS- CHEMICALPARAMETERS**

Sl. No.	PARAMETERS	UNIT	RESULT	Limit as per Noise Pollution(Regulation and Control) Rules, 2000 (Industrial Area)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	48.8	75 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	38.7	70 dB (A)

Remarks: The Noise level Monitoring complies with the Noise Pollution (Regulation and Control) Rules, 2000 (Rules3 (1) and 4(1)).

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

Standards



**Shency Joy**  
**Dy.TM-Chemical**  
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## TEST REPORT

ULR No: TC540222000008885F

LRI No.: SEAAL22100288A

Date: 07-10-2022

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Manickal, Nedumangad Thiruvananthapuram District
Customer Reference	Test Request dt: 28-09-2022

### DETAILS OF MONITORING

Product Category	Atmospheric Pollution	Sample Code	EN22090707
Sample Name	Ambient Noise	Monitoring Commenced on	28-09-2022/ 06:00
Monitoring Location	St: Johns Hospital, Manikkal	Monitoring Completed on	29-09-2022/ 06:00
Test Method	IS 9989:1981	Monitored by	Lab Authorized Sampler
Latitude	8°39'44.9024"N	Longitude	76° 54'56.30857"E

### SAMPLING SITE DETAILS


Re - Survey No	120/10, Block No.29		
Village	Manickal	Taluk	Nedumangad
District	Thiruvananthapuram	State	Kerala

### MONITORING RESULTS - Leq

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	32.8	14:00	43.9	22:00	31.8
07:00	35.2	15:00	44.3	23:00	33.8
08:00	38.9	16:00	45.3	24:00	36.2
09:00	41.9	17:00	45.6	01:00	36.9
10:00	43.9	18:00	40.9	02:00	36.5
11:00	46.6	19:00	37.9	03:00	37.2
12:00	44.3	20:00	34.5	04:00	36.2
13:00	43.6	21:00	34.1	05:00	37.9



**Shency Joy**  
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**TEST REPORT**

**ULR No: TC540222000008885F**

LRI No.: SEAAL22100288A

Date: 07-10-2022

Page 2 of 2

**TEST RESULTS- CHEMICALPARAMETERS**

Sl. No.	PARAMETERS	UNIT	RESULT	Limit as per Noise Pollution(Regulation and Control) Rules, 2000 (Silence Zone)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	42.4	50 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	36.5	40 dB (A)

Remarks: The Noise level Monitoring complies with the Noise Pollution (Regulation and Control) Rules, 2000 (Rules 3 (1) and 4(1)).

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

Standards



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## TEST REPORT

ULR No: TC540222000008886F

LRI No.: SEAAL22100289A

Date: 07-10-2022

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Manickal, Nedumangad Thiruvananthapuram District
Customer Reference	Test Request dt: 28-09-2022

### DETAILS OF MONITORING

Product Category	Atmospheric Pollution	Sample Code	EN22090708
Sample Name	Ambient Noise	Monitoring Commenced on	28-09-2022/ 06:00
Monitoring Location	Govt.L P School, Perumala	Monitoring Completed on	29-09-2022/ 06:00
Test Method	IS 9989:1981	Monitored by	Lab Authorized Sampler
Latitude	8°40'52.36824"N	Longitude	76°55'50.28204"E

### SAMPLING SITE DETAILS


Re - Survey No	120/10, Block No.29		
Village	Manickal	Taluk	Nedumangad
District	Thiruvananthapuram	State	Kerala

### MONITORING RESULTS - Leq

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	35.5	14:00	47.6	22:00	34.4
07:00	38.1	15:00	47.9	23:00	34.0
08:00	42.1	16:00	49.0	24:00	36.5
09:00	45.4	17:00	49.4	01:00	37.2
10:00	47.6	18:00	44.3	02:00	36.9
11:00	50.5	19:00	41.0	03:00	37.6
12:00	47.9	20:00	37.3	04:00	36.5
13:00	47.2	21:00	36.9	05:00	38.3



**Shency Joy**  
**Dy.TM-Chemical**  
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## TEST REPORT

ULR No: TC540222000008886F

LRI No.: SEAAL22100289A

Date: 07-10-2022

Page 2 of 2

### TEST RESULTS- CHEMICALPARAMETERS

Sl. No.	PARAMETERS	UNIT	RESULT	Limit as per Noise Pollution(Regulation and Control) Rules, 2000 (Silence Zone)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	46.1	50 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	36.9	40 dB (A)

Remarks: The Noise level Monitoring complies with the Noise Pollution (Regulation and Control) Rules, 2000 (Rules 3 (1) and 4(1)).

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

# Standards



**Shency Joy**  
**Dy.TM-Chemical**  
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## TEST REPORT

ULR No: TC540222000008887F

LRI No.: SEAAL22100290A

Date: 07-10-2022

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>M/s Adani Vizhinjam Port Pvt Ltd</b> Manickal, Nedumangad Thiruvananthapuram District
Customer Reference	Test Request dt: 28-09-2022

### DETAILS OF MONITORING

Product Category	Atmospheric Pollution	Sample Code	EN22090709
Sample Name	Ambient Noise	Monitoring Commenced on	28-09-2022/ 06:00
Monitoring Location	Kovilvila Sree Mahavishnu Temple	Monitoring Completed on	29-09-2022/ 06:00
Test Method	IS 9989:1981	Monitored by	Lab Authorized Sampler
Latitude	8°39'42.20748"N	Longitude	76°56'36.23712"N

### SAMPLING SITE DETAILS


Re - Survey No	120/10, Block No.29		
Village	Manickal	Taluk	Nedumangad
District	Thiruvananthapuram	State	Kerala

### MONITORING RESULTS - Leq

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	29.6	14:00	39.7	22:00	28.7
07:00	31.7	15:00	40.0	23:00	32.7
08:00	35.1	16:00	40.9	24:00	35.0
09:00	37.8	17:00	41.2	01:00	35.7
10:00	39.7	18:00	36.9	02:00	35.4
11:00	42.1	19:00	34.2	03:00	36.1
12:00	40.0	20:00	31.1	04:00	35.0
13:00	39.3	21:00	30.7	05:00	36.7



**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

ULR No: TC540222000008887F

LRI No.: SEAAL22100290A

Date: 07-10-2022

Page 2 of 2

### TEST RESULTS- CHEMICALPARAMETERS

Sl. No.	PARAMETERS	UNIT	RESULT	Limit as per Noise Pollution(Regulation and Control) Rules, 2000 (Silence Zone)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	38.1	50 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	35.4	40 dB (A)

Remarks: The Noise level Monitoring complies with the Noise Pollution (Regulation and Control) Rules, 2000 (Rules 3 (1) and 4(1)).

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

# Standards



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## TEST REPORT

ULR No: TC540222000008888F		
LRI No.: SEAAL22100291A	Date: 07-10-2022	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	M/s Adani Vizhinjam Port Pvt Ltd Manickal, Nedumangad Thiruvananthapuram District
Customer Reference	Test Request dt: 28-09-2022

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN22090710
Sample Name	Ambient Noise	Monitoring Commenced on	28-09-2022/ 06:00
Monitoring Location	Operators Rest Room	Monitoring Completed on	29-09-2022/ 06:00
Test Method	IS 9989:1981	Monitored by	Lab Authorized Sampler
Latitude	8°39'17.88732"N	Longitude	76°55'39.9162"E

SAMPLING SITE DETAILS			
Re - Survey No	120/10, Block No.29		
Village	Manickal	Taluk	Nedumangad
District	Thiruvananthapuram	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	33.4	14:00	44.7	22:00	32.3
07:00	35.8	15:00	45.1	23:00	33.9
08:00	39.6	16:00	46.1	24:00	36.3
09:00	42.7	17:00	46.4	01:00	37.0
10:00	44.7	18:00	41.6	02:00	36.6
11:00	47.5	19:00	38.5	03:00	37.3
12:00	45.1	20:00	35.1	04:00	36.3
13:00	44.4	21:00	34.7	05:00	38.0

**Shency Joy**  
Dy.TM-Chemical  
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## TEST REPORT

ULR No: TC540222000008888F

LRI No.: SEAAL22100291A

Date: 07-10-2022

Page 2 of 2

### TEST RESULTS- CHEMICALPARAMETERS

Sl. No.	PARAMETERS	UNIT	RESULT	Limit as per Noise Pollution(Regulation and Control) Rules, 2000 (Industrial Area)
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	43.2	75 dB (A)
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	36.7	70 dB (A)

Remarks: The Noise level Monitoring complies with the Noise Pollution (Regulation and Control) Rules, 2000 (Rules 3 (1) and 4(1)).

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

# Standards



**Shency Joy**  
**Dy.TM-Chemical**  
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**Half Yearly Compliance Report (HYCR)  
April 2022 to September 2022**

**Building Stone Quarry Project in Block No. 29, Re-survey No. 120/10 at  
Manickal Village, Nedumangad Taluk, Thiruvananthapuram District**



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