

Building Stone Quarry Project

**Block No. 37, Re – Sy No. 554/1, 554/5 & 554/6 of
Nagaroor village (Kadavilla), Chirayinkeezh Taluk,
Thiruvananthapuram District**

Environmental Clearance (EC) Order No.92-Q-2022 dated 16.08.2022

**Half Yearly Compliance Report (HYCR)
for the Period October 2023 to March 2024**

Project Proponent

adani

Adani Vizhinjam Port Pvt. Ltd. (AVPPL)

May 2024



Ports and
Logistics

Ref: AVPPL/MoEF/2024-25/3040

Date: 28th May 2024

To,
Ministry of Environment Forest and Climate Change (MoEF&CC),
Regional Office (Southern Zone), Kendriya Sadan,
IVth Floor, E&F Wings, 17th Main Road, IInd Block,
Koramangala, Bangalore-560034
rosz.bng-mefcc@gov.in

Subject: Submission of **Half Yearly Compliance Report (HYCR)** to Conditions of Environmental Clearance (EC) for the Period October 2023 to March 2024 - Reg.

Reference: EC for Building Stone Quarry in Re-Sy. Block No. 37, Re-Sy. No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala; by M/s. Adani Vizhinjam Port Pvt. Ltd. vide **EC No. 92/Q/2022 dated 16.08.2022**

Dear Sir/Madam,

This is with reference to the Environmental Clearance (EC) Order No. 92/Q/2022 dated 16.08.2022 (vide reference cited) by the State Environmental Impact Assessment Authority (SEIAA), Kerala for the building stone quarry project in Re-Sy. Block No. 37, Re-Sy. No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh 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 **October 2023 to March 2024** is enclosed herewith for record and reference. You are requested to kindly acknowledge receipt of the same.

Thanking You.

Yours Sincerely,

Sunil Kumar Ayyappan
General Manager - Projects




Enclosed: As mentioned above

Copy to: State Environment Impact Assessment Authority (SEIAA), K.S.R.T.C Bus Terminal Complex, 4th Floor, Thampanoor, Thiruvananthapuram, Kerala

Adani Vizhinjam Port Pvt Ltd
Port Operation Building,
Mulloor,
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CIN: U61200GJ2015PTC083954

Registered Office:
Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad-382421



	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2023 To: March 2024
Building Stone Quarry in Re - Sy. Block No. 37, Re – Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala		


Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) No. 92-Q-2022 dated 16.08.2022 for the Period October 2023 to March 2024

S. No.	Conditions	Compliance Status as on March 31, 2024
Specific Conditions		
1	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>Being Complied</p> <p>Adani Vizhinjam Port Pvt. Ltd. (AVPPL) commenced operation at Building Stone Quarry in Re - Sy. Block No. 37, Re – Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala on 14.07.2023. AVPPL will carry out quarrying as per the Approved Mining Plan (Copy submitted along with HYCR for the period April 2023 to September 2023) and will strictly follow the Kerala Minor Mineral Concession Rules (KMMCR), 2015 and amendments.</p> <p>During the compliance period (October 2023 to March 2024), a total of 0.59150 Lakh Tons of building stones have been extracted and a total cumulative quantity of 1.311 Lakh Tons of building stones have been extracted from inception of mining on 14.07.2023 till 31.03.2024.</p>
2	The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.	<p>Complied</p> <p>AVPPL executed Quarrying Lease Registration Agreement in Form H at Thiruvananthapuram Registrar Office with Department of Mining & Geology (DMG) dated 31.05.2023. A copy of the same was submitted to SEIAA vide letter No. AVPPL/SEIAA/2023-24/2501 dated 14.07.2023 (Copies of these documents were submitted along with the HYCR for the period April 2023 to September 2023).</p>
3	Simultaneous blasting in Kadavila I and Kadavila II quarries must be avoided and Time schedule must be adopted for blasting.	<p>Complied</p> <p>There is no simultaneous blasting in Kadavila-1 and Kadavila-2&3 quarries being carried out.</p> <p>As on the end of the compliance period, Kadavilla-1 quarry is undergoing closure procedures as the Environmental Clearance (EC) and Consent to Operate (CTO) have expired on 28.02.2024 and there were no mining operations from the Kadavilla-1 quarry.</p>

Building Stone Quarry in Re - Sy. Block No. 37, Re - Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) No. 92-Q-2022 dated 16.08.2022 for the Period October 2023 to March 2024

S. No.	Conditions	Compliance Status as on March 31, 2024
4	<p>Garland drain should be provided covering the entire project area along with intermittent silt traps and siltation pond of appropriate volume and outflow channel. The entire drain should be desilted periodically for preventing any obstruction to the drainage system.</p>	<p>Being Complied</p> <p>Presently the working area is adjacent to the Kadavilla-1 quarry and the water from Kadavilla-2&3 quarry flows through the garland drainage of Kadavilla-1 and reaches the check dam at the bottom of Kadavilla-1 area.</p> <p>For the remaining mining area on the other side of the quarry which is proposed to be mined at a later stage, it is planned to construct garland drains. A check dam of 12.5 m length and a retaining wall all along the boundary has been constructed.</p> <div data-bbox="716 1048 1401 1469" data-label="Image">  </div> <p style="text-align: center;">Check Dam at Kadavilla-2&3</p> <div data-bbox="721 1543 1404 1966" data-label="Image">  </div> <p style="text-align: center;">Retaining Wall</p>


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Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) No. 92-Q-2022 dated 16.08.2022 for the Period October 2023 to March 2024		
S. No.	Conditions	Compliance Status as on March 31, 2024
		A labour has been engaged to supervise the excavator being used to clean silt.
5	The proponent should adhere to the affidavit regarding the drilling and blasting parameters that Blasting (NONEL) will be done only with drill hole of 32mm diameter and depth 1.5m loaded with a maximum of 375 gm of explosive in each hole of the array with a burden of 1.5m and spacing of 1m.	Complied Mining is being conducted using Non-Electric Detonator (NONEL) method of controlled blasting only; to minimize the air blast, fly rock and ground vibration. Blasting (NONEL) is being done with drill hole of 32 mm diameter and depth 1.5m loaded with a maximum of 375 gm of explosive in each hole of the array with a burden of 1.5m and spacing of 1m.
6	A vibration impact study on various built structures within 200m from the project boundary shall be conducted by engaging a National Institute such as National Institute of Rock Mechanics and their recommendations must be implemented. A copy of the study report should be made available to Dept. of Mining and Geology for their record and future reference.	Being Complied AVPPL are in the process of engaging Dr. V. K. Shastri who is the nationally reputed former Head of Department and Professor of Mining Engineering at National Institute of Technology (NIT) Surathkal, Karnataka and presently at Gandhi Institute of Technology and Management (GITAM) University, Visakhapatnam, to conduct a vibration impact study on various built structures within 200 m from the project boundary and submit the study report. A copy of the report will be submitted to the Dept. of Mining and Geology and as a part of the HYCR once completed.
7	Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for a maximum charge per delay and included in the Half Yearly Compliance Report.	Being Complied AVPPL are in the process of engaging Dr. V. K. Shastri who is the nationally reputed former Head of Department and Professor of Mining Engineering at National Institute of Technology (NIT) Surathkal, Karnataka and presently at Gandhi Institute of Technology and Management (GITAM) University, Visakhapatnam, to conduct a vibration impact study on various built structures within 200m from the project boundary and submit the study report. A copy of the report will be submitted to the Dept. of Mining and Geology and as a part of the HYCR once completed.


Building Stone Quarry in Re - Sy. Block No. 37, Re - Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) No. 92-Q-2022 dated 16.08.2022 for the Period October 2023 to March 2024

S. No.	Conditions	Compliance Status as on March 31, 2024
8	Retaining wall of appropriate height should be provided at the overburden dumping site	<p>Not Applicable</p> <p>All the overburden from Kadavilla-2&3 is being used to backfill the completed worked area in Kadavilla-1 and therefore there is no overburden dumping site.</p>
9	CER Plan should be implemented within the first 18 months and it should be operated and maintained till the mine closure plan is implemented	<p>Being Complied</p> <p>AVPPL are in the process of implementing the CER plan with expense heads under specific activities as mentioned in the EC. Status of the same is provided below:</p> <p>Water Supply (Thannikonam and Kadavilla): AVPPL are supply drinking water to the local people in Thannikonam and Kadavilla villages. Work was awarded to a local contractor to supply water through tankers.</p> <div data-bbox="715 1160 1401 1668" data-label="Image">  </div> <p style="text-align: center;">Photograph of Water Distribution</p> <p>A Water Purifier has been installed at the project site for access to drinking water for the local people, truck drivers, staff, etc.</p>

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S. No.	Conditions	Compliance Status as on March 31, 2024
		<div style="text-align: center;">  <p>Water Purifier</p> </div> <p>Maintenance of Roads (From Thannikonam Village to Kadavilla Junction): AVPPL had written a letter to the Nagaroor Grama Panchayath for approval to form the road and the Panchayath have responded in their Minutes dated 11.04.2023 stating that AVPPL will maintain the road at their own expense and an Assistant Engineer Local Self Government Department (Nagaroor Grama Panchayath) has been assigned to supervise the work (Copy has been submitted along with HYCR for the period April 2023 to September 2023). AVPPL have prepared the BOQs and engaged a contractor to start work for development of fresh bitumen road. Awaiting Nagaroor Grama Panchayath to convene a meeting to discuss the same.</p> <p>Medical Checkup: Medical health checkup is being planned.</p>
10	Planting of trees for the development of green belt should be done prior to the commencement of mining and green belt should be nurtured	<p>Being Complied</p> <p>A natural greenbelt already exists and is present in the area. Since the safety zone is rocky in nature, plantation cannot be carried out. AVPPL have engaged a contractor for the planting of trees for development of greenbelt and the same</p>

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S. No.	Conditions	Compliance Status as on March 31, 2024
	and maintained during the entire project period.	shall be done in the post-monsoon season and shall be maintained during the entire project.
11	Temporary wall should be provided wherever green belt cannot be developed due to the presence of barren rock.	<p>Complied A barbed wire fencing with mesh has been developed as a temporary wall wherever greenbelt cannot be developed along the periphery of the lease boundary.</p>  <p style="text-align: center;">Temporary Wall Construction</p>
12	Temporary wall should be provided at the boundary adjacent to the Temple and Thrisoolam structure.	<p>Complied A barbed wire fencing with mesh has been developed as a temporary wall along the lease boundary between the quarry and the Temple and Thrisoolam structure. Photo of the same was submitted along with HYCR for the period April 2023 to September 2023.</p>
13	Compensatory afforestation should be initiated before the commencement of mining in available land as tree planting is not feasible along some portion of the buffer zone.	<p>Not Applicable There are no trees cut for clearing of land for commencement of mining operations. If during the project, there are any trees cut, suitable compensatory afforestation will be done at a feasible location as identified with seedlings 5 times of the loss of trees that has occurred following the planting measures as suggested.</p>
14	Transportation of mined material should not be done during the peak hours in the	<p>Being Complied Measures have been taken to avoid transportation of mined material during the peak hours. From the</p>


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S. No.	Conditions	Compliance Status as on March 31, 2024
	forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5pm).	Quarry site and Vizhinjam port site, all vehicles are stopped between 8.30 am to 10.30 am and 3.30 pm to 5.00 pm. In transit during the peak hours, the trucks will stop in any safe area.
15	Mining activities including loading of mined materials should not be carried out between sun set and sunrise.	Being Complied Mining activities including loading of mined materials are being carried out during the prescribed timings only.
16	Adequate number of toilets and waste management facility should be provided at the site.	Complied e-Toilet/Bio-toilet has been installed for the sanitation requirements of workers at the Kadavilla-1 site which is approachable from the present quarry location as well. Waste management bins have been placed around the quarry site at strategic locations for collection of wet and dry waste. Photographs of the same were submitted along with HYCR for the period April 2023 to September 2023.
17	Haulage road should be maintained well with frequent sprinkling	Being Complied Regular water sprinkling through water tankers is being carried out on haulage roads. Mobile Water Sprinklers are modified with good sprinkling capacities and are available to sprinkle water till the loading faces, parking areas, etc., and separate pipe is provided from the mobile tanker to spray all over the areas where the tanker is unable to reach.


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S. No.	Conditions	Compliance Status as on March 31, 2024
		 <p style="text-align: center;">Photograph of Water Sprinkling</p>
18	<p>The proponent should adhere to the affidavit stating that all the assurances given during the Public Consultation process will be complied with including the drinking water supply.</p>	<p>Being Complied</p> <p>AVPPL is supplying drinking water to the local people in the vicinity of the project site. Work was awarded to a local contractor to supply water through tankers.</p>  <p style="text-align: center;">Photographs of Water Distribution</p> <p>AVPPL will implement CER activities in the surrounding areas of the quarry site and adhere to the affidavit that stated that all the assurances given during the Public Consultation process will be complied with, including the drinking water supply. Refer Specific Condition Point No. 9.</p>

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S. No.	Conditions	Compliance Status as on March 31, 2024
19	<p>As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.</p>	<p>Being Complied</p> <p>The EMP was prepared during the Environmental Impact Assessment (EIA) stage which was appraised by SEAC and approved. AVPPL submitted a copy of the approved EMP for information and implementation support to the Office of the Nagaroor Grama Panchayat, Chemmarathamukku, Nagaroor vide Letter No. AVPPL/NGP/2022-23/2452 dated 01.06.2023 (Copy of the same has been submitted along with HYCR for the period April 2023 to September 2023).</p> <p>As per the EC received, Rs. 16.00 Lakhs for Environmental Monitoring and Pollution Control Measures and Rs. 31.10 Lakhs for CER Activities related to concerns raised during the Public Consultation in physical terms must be spent. AVPPL are in the process of implementing the CER plan with expense heads under specific activities as mentioned in the EC.</p> <p>As on the end of the compliance period (i.e., 31.03.2024) Rs. 11.09 Lakhs for Environmental Monitoring and Pollution Control Measures and Rs. 5.93 Lakhs has been spent towards CER.</p>
20	<p>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</p>	<p>Complied</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. There is no incident of fly rock been recorded.</p>


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	of cracks in the surrounding buildings and disturbance to human and wildlife.	
21	As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16 th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble 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.	Will be Complied AVPPL shall undertake plantation as per Progressive Mine Closure Plan, which is included in the Approved Mining Plan (Copy has been submitted along with HYCR for the period April 2023 to September 2023) 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.
22	The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.	Noted


General Conditions

1	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	Complied AVPPL had submitted an Affidavit to SEIAA (indicating the number and date of Environmental Clearance proceedings) stating that all the conditions stipulated in the EC shall be scrupulously followed vide reference 2; letter AVPPL/SEIAA/2022-23/2090 dated 31.08.2022 (Copy has been submitted along with HYCR for the period April 2023 to September 2023).
2	All the statutory clearances should be obtained, as applicable, by the project	Complied AVPPL have obtained all applicable statutory clearances from the respective competent


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	<p>proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly Compliance Report.</p>	<p>authorities. The following clearances have been obtained:</p> <ul style="list-style-type: none"> • Approved Mining Plan by District Geologist, Thiruvananthapuram vide Letter No. 2304/DOT/ML/18 dated 14.01.2019 (Copy has been submitted along with HYCR for the period April 2023 to September 2023). • No Objection Certificate (NoC) from Thiruvananthapuram District Collector vide Letter No. B7-17779/2018 dated 24.02.2022 for Govt. land (Copy has been submitted along with HYCR for the period April 2023 to September 2023). • Directorate of Mining and Geology, Govt. of Kerala, Thiruvananthapuram has issued a Letter of Intent (LOI) vide Letter No. DMG/2879/2022-M3 dated 25.10.2022 (Copy has been submitted along with HYCR for the period April 2023 to September 2023). • CTO has been obtained from Kerala State Pollution Control Board (KSPCB) vide Consent No.: PCB/TV/ICO/10005087/2022 dated 15.06.2022 valid up to 31.05.2025 (Copy has been submitted along with HYCR for the period April 2023 to September 2023). • Proceedings of Execution of Quarrying Lease Deed from DMG vide Letter No. DMG/2879/2022-M3 dated 25.04.2023 and Lease Order Sanctioned from DMG vide Order No. 30/2023-24/2879/M3/2022/DMG dated 25.04.2023 (Copy has been submitted along with HYCR for the period April 2023 to September 2023) • Quarrying Lease Registration Agreement in Form H at Thiruvananthapuram Registrar Office dated 31.05.2023 (Copy has been submitted along with HYCR for the period April 2023 to September 2023). • Explosives magazine license E/SE/KL/22/331(E121778) dated 13.09.2022


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		<p>(Copy has been submitted along with HYCR for the period April 2023 to September 2023).</p> <ul style="list-style-type: none"> Explosives van-1 (KL01CP2414) license E/SE/KL/25/99(E135886) and Explosives van-2 (KL01CP2472) license E/SE/KL/25/99(E135883) dated 22.09.2021 (Copy has been submitted along with HYCR for the period April 2023 to September 2023). Panchayath License vide No. 232/2022-2023/A-2/RPTL19/2139 dated 25.02.2023 (Copy has been submitted along with HYCR for the period April 2023 to September 2023).
<p>3</p>	<p>The project proponent should advertise in news papers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at www.seiaakerala.in. The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.</p>	<p>Complied EC for the project was issued on 16.08.2022. Details of the EC were advertised in two local newspapers (The Hindu - English and Mathrubhumi - Malayalam) published on 18.08.2022. Copies of the Newspapers and the signed EC were submitted to SEIAA vide reference 2; letter No. AVPPL/SEIAA/2022-23/2090 dated 31.08.2022 (Copy has been submitted along with HYCR for the period April 2023 to September 2023)</p>
<p>4</p>	<p>The proponent shall send a copy of the EC to concerned Grama Panchayat/ District Panchayat/Municipality/Corporation/Urban Local Body and</p>	<p>Complied AVPPL submitted a copy of the EC to the Nagaroor Gram Panchayat vide letter No. AVPPL/SEIAA/2022-23/2117 dated 16.09.2022 (Copy has been submitted along with HYCR for</p>


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	<p>also to the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be uploaded on the website of the company.</p>	<p>the period April 2023 to September 2023). The copy of EC is also uploaded to the company website: https://www.adaniports.com/Downloads</p>
5	<p>The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc) shall be conspicuous and maintained at all times.</p>	<p>Being Complied</p> <p>The lease area has been fenced with barbed wire of around 4 feet height at all available fronts. AVPPL have placed boundary indicators such as boundary pillars, signage boards, safety boards and other markings at the lease boundary for clear demarcation of the mining area.</p> <div data-bbox="716 1122 1399 1749" data-label="Image"> </div> <p style="text-align: center;">Temporary Wall Barbed Wire</p>


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Building Stone Quarry in Re - Sy. Block No. 37, Re – Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala		

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S. No.	Conditions	Compliance Status as on March 31, 2024
		 <p style="text-align: center;">Photograph of Boundary Indicators</p>
6	<p>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 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>	<p>Complied The details of EC have been displayed at the site next to the entrance of the quarry, visible to the public. Photographs of the same was submitted along with HYCR for the period April 2023 to September 2023.</p>
7	<p>Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.</p>	<p>Complied AVPPL constructed 500 Kgs portable explosives magazine at an area called Chappath; which is 45 km away from the quarry location. AVPPL are transporting the explosives and detonators from Chappath to Kadavilla-2&3 quarry through two authorized explosives vans for which following licenses were obtained from PESO:</p> <ul style="list-style-type: none"> Explosives magazine license E/SE/KL/22/331(E121778) dated 13.09.2021

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		(Copy has been submitted along with HYCR for the period April 2023 to September 2023). <ul style="list-style-type: none"> Explosives van-1 (KL01CP2414) license E/SE/KL/25/99(E135886) and Explosives van-2(KL01CP2472) license E/SE/KL/25/99(E135883) dated 22.09.2021 (Copy has been submitted along with HYCR for the period April 2023 to September 2023).
8	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.	Being Complied Announcements are made in the nearby areas by use of loudspeakers to alert people in the immediate surroundings of the impending blasting. This is done 15 to 20 minutes before the blasting. Once clearance is received from the nearby areas that the announcements have been made then the alarm warning signal is transmitted via siren three times before the blasting is initiated and once after blasting. Photographs of the same was submitted along with HYCR for the period April 2023 to September 2023.
9	Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.	Complied 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. <div style="text-align: center;">  </div>

Tar Road


	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2023 To: March 2024
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S. No.	Conditions	Compliance Status as on March 31, 2024
		<p>The transportation of minerals in trucks is being undertaken covered with tarpaulin cover.</p>  <p align="center">Truck with Tarpaulin Cover</p>
10	<p>A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report.</p>	<p>Complied</p> <p>A separate Environmental Management and Monitoring Cell (EMMC) with qualified personnel has been set up by AVPPL. The cell is under the control of the Head of Department (HoD), Environment who reports directly to the Chief Executive Officer (CEO), AVPPL.</p> <p>The EMMC regularly meets to review the mining activities and compliance with EC conditions. AVPPL have written a letter to the Nagaroor Gram Panchayath to nominate a suitable person to form part of the EMMC to attend the meetings.</p>
11	<p>Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby</p>	<p>Being Complied</p> <p>AVPPL commenced operation on 14.07.2023. AVPPL will carry out quarrying as per the Approved Mining Plan (Copy has been submitted along with HYCR for the period April 2023 to September 2023) and will strictly follow the</p>

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		Kerala Minor Mineral Concession Rules (KMMCR), 2015 and amendments. AVPPL are complying with the recommendations of SEAC as stipulated in the EC.
12	The quarrying operation shall be restricted between 7 AM and 5PM	Being Complied The quarrying operation is being restricted between sun rise and sunset.
13	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Not Applicable There are no buildings or roofed terrace areas within the quarry project site to implement rainwater harvesting as per the prevailing provisions of KMBR/KPBR. Solar energy generation is not envisaged as there is no requirement of power and no nighttime operation.
14	Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45	Complied 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 topmost working level is about 120 m above MSL, and the lowest working level is 64 m above MSL. The total depth will be 56 m. Therefore, mining operations will be restricted to workings at a higher level at the quarry and will not touch the ground water table and will be carried out as per the approved mining plan and specific conditions as stipulated in the EC.
15	The height of any bench shall not exceed five meters and breadth shall not be less than the height.	Being Complied As per the Modified Approved Mining Plan, the bench height and width need to be maintained at a maximum of 6.0 m. Also, a 45° pit slope will be maintained, which is currently being adhered to.
16	The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources	Not Applicable There are no natural water courses and/or water resources of first order streams in and around the mine lease area.

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	<p>are 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.</p>	
17	<p>A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per recommendations of SEAC depending on specific local conditions.</p>	<p>Complied</p> <p>A minimum buffer distance of 50 m from any residential buildings or from the nearest dwelling unit or other structures is maintained. As per the map prepared by the village officer, the nearest house is approximately 62 m from the boundary of the quarry.</p> <p>There are no forest areas or any other ecologically sensitive and archeologically important areas in the vicinity of the project site.</p>
18	<p>The proponent should plant seedlings at least 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures as suggested by SEAC. Suitable avenue trees should be planted along the sides of the approach road and internal roads and open parking areas, if any. Preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be ensured by the project proponent.</p>	<p>Noted for Compliance</p> <p>There are no trees cut for clearing of land for commencement of mining operations. If during the project, there are any trees cut, suitable compensatory afforestation will be done at a feasible location as identified with seedlings 5 times of the loss of trees that has occurred following the planting measures as suggested.</p> <p>Suitable avenue trees will be planted along the sides of the approach road and internal roads and open parking areas, if any. Preference will be given to endemic native and fruit bearing species. Proper upkeep and maintenance of planted seedlings shall be ensured.</p>

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19	The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.	Will be Complied A natural greenbelt already exists and is present in the area. Since the safety zone is rocky in nature, plantation cannot be carried out. AVPPL have engaged a contractor for the planting of trees for development of greenbelt and the same shall be done in the post-monsoon season and shall be maintained during the entire project.
20	Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions.	Being Complied Eco-restoration including Mine Closure Plan is provided in the Modified Approved Mining Plan (Copy has been submitted along with HYCR for the period April 2023 to September 2023). The same shall be implemented during the closure at the cost of AVPPL. Overburden material is being used to fill kadavila-1 area.
21	At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the E.C. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	Being Complied 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, due to the hilly terrain, an area of 0.35 Ha will be used for water pond for storage of water. AVPPL shall undertake plantation as per Progressive Mine Closure Plan, which is included in the Approved Mining Plan (Copy has been submitted along with HYCR for the period April 2023 to September 2023) as per KMMCR, 2015. AVPPL shall also undertake re-grassing in any other area which may have been disturbed due to

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S. No.	Conditions	Compliance Status as on March 31, 2024																		
		mining activities to restore the land to a condition fit for growth of suitable flora.																		
22	Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.	<p>Being Complied</p> <p>Ambient Noise is being monitored by NABL accredited laboratory; M/s. Chennai Testing laboratory Pvt Ltd as per Noise Pollution (Regulation & 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>Leq Day time</th> <th>Leq Night time</th> </tr> </thead> <tbody> <tr> <td>Quarry Area (Project Site)</td> <td>63.0</td> <td>54.5</td> </tr> <tr> <td>Near Operators Rest Room (North Side)</td> <td>64.5</td> <td>57.1</td> </tr> <tr> <td>Vanchiyoor UP School (West Side)</td> <td>62.7</td> <td>53.8</td> </tr> <tr> <td>St. Joseph of Cluny Public School (South Side)</td> <td>55.3</td> <td>47.2</td> </tr> <tr> <td>Viswanadhapuram Shiva Temple (East Side)</td> <td>53.1</td> <td>49.0</td> </tr> </tbody> </table> <p>The results obtained were compared with Noise Pollution (Regulation & Control) Rule, 2000 (Rule 3(1) and 4(1)). The Noise Monitoring report is enclosed as Annexure 1.</p> <p>Quarrying activities including loading of mined materials are being carried out during the prescribed timings only.</p>	Location	Leq Day time	Leq Night time	Quarry Area (Project Site)	63.0	54.5	Near Operators Rest Room (North Side)	64.5	57.1	Vanchiyoor UP School (West Side)	62.7	53.8	St. Joseph of Cluny Public School (South Side)	55.3	47.2	Viswanadhapuram Shiva Temple (East Side)	53.1	49.0
Location	Leq Day time	Leq Night time																		
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23	Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 m) to be conducted and records kept for inspection. This could also form a part of the compliance reports.	<p>Being Complied</p> <p>AVPPL are in the process of engaging Dr. Shastri who is the nationally reputed former Head of Department and Professor of Mining Engineering at National Institute of Technology (NIT) Surathkal, Karnataka and presently at Gandhi Institute of Technology and Management (GITAM) University, Visakhapatnam, to conduct a</p>																		

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		vibration impact study on various built structures within 200m from the project boundary and submit the study report. A copy of the report will be submitted to the Dept. of Mining and Geology and as a part of the HYCR once completed.
24	Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.	Being Complied It is ensured that vehicles transporting the materials follow the speed limit of 20 kmph to maintain the noise level.
25	Acoustic enclosures should be provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standard limit indicated by CPCB/KSPCB.	Not Applicable There is no crusher adjacent to the quarry and the same is not proposed.
26	Blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive safety organization (GOI) or any other concerned authorized agency. A licensed person should supervise/control the blasting operations.	Being Complied Mining is being conducted using Non-Electric Detonator (NONEL) method of controlled blasting only; to minimize the air blast, fly rock and ground vibration. Charging and Blasting are both done by competent persons employed by AVPPL. Following licensed persons are authorized to supervise/control the blasting operations: <ul style="list-style-type: none"> • Mr. P. Kumar (1st Class Mines Manager) (1395) • Mr. Jawahar Srinath S (Assistant Mines Manager – 2nd class) (SMU-E 2901) • Mr. Selva Kumareshan N G (Mines Foreman) (FR/5197) • Mr. S. Madasamy (Mining Mate cum Blaster) (MR/SZ/0747) • Mr. S. R. Ebinsam (Mechanical Engineer) (961216114034/RG)

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		<p>Notice of appointment of statutory persons was submitted along with HYCR for the period April 2023 to September 2023.</p> <p>Additionally, Pradeep Kumar (2nd Class Mines Manager) (SMR-E 8374) has also been appointed as licensed person (Notice of appointment is enclosed as Annexure 2).</p>
27	<p>Measures should be taken for maintaining noise levels below 85 dBA in the work environment</p>	<p>Being Complied</p> <p>The following measures are being taken for the control of noise levels:</p> <ul style="list-style-type: none"> • Drilling: Good captive silencers are being used in drilling equipment. • Blasting: AVPPL uses the NONEL method - bottom initiation to reduce the noise of blasting. • Machinery & Tippers: It is ensured that equipment is fitted with effective silencers, mufflers, acoustic linings, or shields, as necessary. • It is ensured that vehicles transporting the materials follow the speed limit to maintain the noise level. • Vehicles are serviced regularly and maintained properly to avoid any unwanted generation of noise or vibration from them. <p>Ambient Noise is being monitored by NABL accredited laboratory; M/s. Chennai Testing laboratory Pvt Ltd as per Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1)) at 5 locations. The results obtained were compared with Noise Pollution (Regulation & Control) Rule, 2000 (Rule 3(1) and 4(1)). The Noise Monitoring report is enclosed as Annexure 1.</p>
28	<p>Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface</p>	<p>Complied</p> <p>There will not be any withdrawal of groundwater. In case of requirement of groundwater withdrawal, specific prior permission will be obtained from State/Central Groundwater Board.</p>

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	water and ground water for the project.	Water requirements for the project are met from the old mining pit through water tankers. Drinking water is sourced from suppliers who provide water cans.
29	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 compliance reports to SEIAA.	Not Applicable There are no natural water courses and/or water resources of first order streams in and around the mine lease area.
30	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, and for green belt development etc. The drains shall be regularly desilted and maintained properly, particularly after monsoon	Being Complied Presently the working area is adjacent to the Kadavilla-1 quarry and the water from Kadavilla-2&3 quarry flows through the garland drainage of Kadavilla-1 and reaches the check dam at the bottom of Kadavilla-1 area. For the remaining mining area on the other side of the quarry which is proposed to be mined at a later stage, it is planned to construct garland drain, retaining wall all along the boundary and check dam of 12.5 m length and retaining wall. The water collected will be utilized for watering the mine area, roads, and for green belt development etc. The drains will be regularly desilted particularly after monsoon and maintained properly.
31	Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	Being Complied AVPPL are conducting groundwater and surface water sampling in and around the mine lease area. The Water Sampling reports are enclosed as Annexure 1 . Topographically the area is located on a hill and is an elevated sloping terrain towards Northwest and Southeast. Based on observations made in and around the quarry area, it was found that the


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		<p>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 topmost working level is about 120 m above MSL, and the lowest working level is 64 m above MSL. The total depth will be 56 m. Therefore, mining operations will be restricted to workings at a higher level at the quarry and will not touch the ground water table and will be carried out as per the approved mining plan and specific conditions as stipulated in the EC.</p> <p>If it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.</p>
32	<p>Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.</p>	<p>Being Complied Refer Specific Condition Point No. 4</p> <p>AVPPL are conducting groundwater and surface water sampling in and around the mine lease area. The Water Sampling reports are enclosed as Annexure 1.</p>
33	<p>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 the E.C was issued, the project would require a fresh appraisal by this Authority, for which the</p>	<p>Noted</p>

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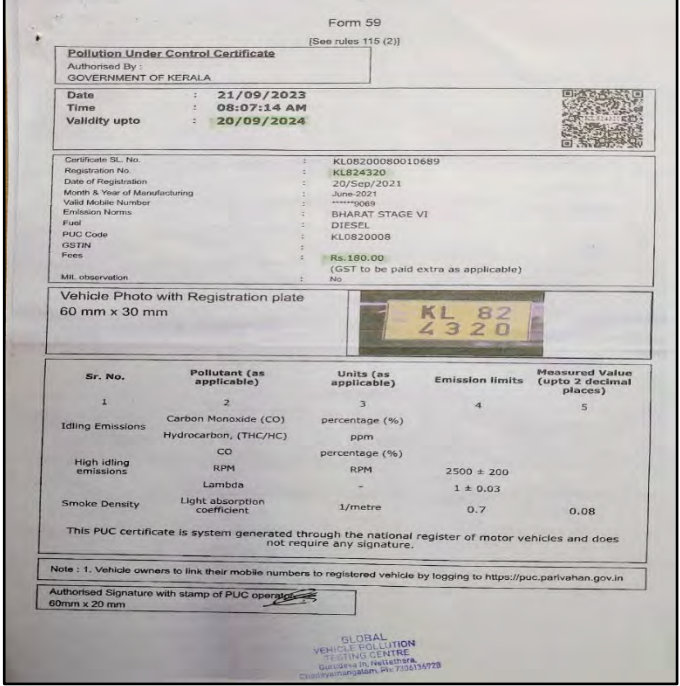
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	proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the approval from the Authority as per the existing norms.	
34	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	Noted
35	The top soil, if any, shall be temporarily stored at earmarked place (s) and 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 at 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made	Not Applicable The mine is already opened. All the overburden from Kadavilla-2&3 is being used to backfill the completed worked area in Kadavilla-1 and therefore there is no overburden dumping site.


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	around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.	
36	All the mining equipment used in Mining like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.	<p>Being Complied</p> <p>The following measures are being taken for the control of noise levels: Good captive silencers are being used in drilling equipment. It is ensured that equipment is fitted with effective silencers, mufflers, acoustic linings, or shields, as necessary. Vehicles are serviced regularly and maintained properly to avoid any unwanted generation of noise or vibration from them.</p> <p>The mining contractor of AVPPL have Annual Maintenance Contract (AMC) of the mining equipment with the manufacturers who once service the machinery take back the spent oil and is ensured that it is handled as per Hazardous Waste Rules and further disposed to authorized (CPCB/KSPCB) handlers.</p>
37	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area.	<p>Complied</p> <p>It is ensured that all vehicles used for transportation have valid Pollution Under Control (PuC) certificate from authorized centers. Washing of all vehicles is being done inside the lease area.</p>


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S. No.	Conditions	Compliance Status as on March 31, 2024																																			
		 <p style="text-align: center;">Photograph of PUC</p>																																			
38	<p>Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM10 and PM2.5. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.</p>	<p>Being Complied</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. Chennai Testing laboratory Pvt Ltd. Summary of the Ambient Air Quality Monitoring (AAQM) during the compliance period at 5 monitoring locations is mentioned below.</p> <table border="1" data-bbox="719 1742 1401 2040"> <thead> <tr> <th>Parameter</th> <th>Unit</th> <th>Max</th> <th>Min</th> <th>Perm. Limit</th> </tr> </thead> <tbody> <tr> <td>PM₁₀</td> <td>µg/m³</td> <td>70.0</td> <td>55.0</td> <td>100</td> </tr> <tr> <td>PM_{2.5}</td> <td>µg/m³</td> <td>33.0</td> <td>24.0</td> <td>60</td> </tr> <tr> <td>SO₂</td> <td>µg/m³</td> <td>13.9</td> <td>8.6</td> <td>80</td> </tr> <tr> <td>NO₂</td> <td>µg/m³</td> <td>30.0</td> <td>15.2</td> <td>80</td> </tr> <tr> <td>CO</td> <td>µg/m³</td> <td>BDL</td> <td>-</td> <td>4</td> </tr> <tr> <td>HC</td> <td>µg/m³</td> <td>BDL</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Parameter	Unit	Max	Min	Perm. Limit	PM ₁₀	µg/m ³	70.0	55.0	100	PM _{2.5}	µg/m ³	33.0	24.0	60	SO ₂	µg/m ³	13.9	8.6	80	NO ₂	µg/m ³	30.0	15.2	80	CO	µg/m ³	BDL	-	4	HC	µg/m ³	BDL	-	-
Parameter	Unit	Max	Min	Perm. Limit																																	
PM ₁₀	µg/m ³	70.0	55.0	100																																	
PM _{2.5}	µg/m ³	33.0	24.0	60																																	
SO ₂	µg/m ³	13.9	8.6	80																																	
NO ₂	µg/m ³	30.0	15.2	80																																	
CO	µg/m ³	BDL	-	4																																	
HC	µg/m ³	BDL	-	-																																	

	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2023 To: March 2024
Building Stone Quarry in Re - Sy. Block No. 37, Re – Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala		

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) No. 92-Q-2022 dated 16.08.2022 for the Period October 2023 to March 2024		
S. No.	Conditions	Compliance Status as on March 31, 2024
		The Ambient Air Quality Monitoring Report is enclosed as Annexure 1 . All the monitored parameters were found within the prescribed limits.
39	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained.	Being Complied 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.
40	Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure.	Being Complied AVPPL are in the process of implementing the CER plan with expense heads under specific activities as mentioned in the EC and the same are being reported in the Half Yearly Compliance Reports (HYCRs). Please refer to Specific Conditions: S. No. 9 and 19.
41	The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying/Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place,	Being Complied AVPPL comply with all applicable provisions of labour laws from time to time relevant to quarrying/Mining operations. Contractors involved in mining activity have given the labourers accommodation in a residence of about 2.5 km from the quarry location along with required boarding facilities and with suitable transportation to and from the quarry site. All employees are provided with relevant Personal

	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2023 To: March 2024
Building Stone Quarry in Re - Sy. Block No. 37, Re – Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala		

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) No. 92-Q-2022 dated 16.08.2022 for the Period October 2023 to March 2024		
S. No.	Conditions	Compliance Status as on March 31, 2024
	protective equipment such as ear muffs, helmet, etc.	Protective Equipment (PPEs) like Helmets, Shoes, Fluorescent Reflective Jackets, etc.
42	The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.	Complied The contractors involved in mining at the quarry will be completely responsible for insurance for their workers and the same will be explicitly mentioned in the Service Order issued to them. Affidavit for the same was submitted to SEIAA vide letter No. AVPPL/SEIAA/2022-23/2090 dated 31.08.2022 (Copy has been submitted along with HYCR for the period April 2023 to September 2023).
43	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports.	Being Complied 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.
44	The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco friendly manner.	Will be Complied As per the mine closure plan the pits will be utilized for storing water as a rainwater harvesting method and will also be induced to sustain the groundwater table in an eco-friendly manner. As per the post mining land use, an area of 0.35 Ha will be used for water pond for storage of water.
45	If Government land is partly or fully used for mining, the area shall be returned at the end of lease period after mine closure with separate demarcation with suitable survey marks.	Noted
46	Any accident occurring in the mined out area after the lease period due to negligence in	Noted


	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2023 To: March 2024
Building Stone Quarry in Re - Sy. Block No. 37, Re - Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala		

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) No. 92-Q-2022 dated 16.08.2022 for the Period October 2023 to March 2024		
S. No.	Conditions	Compliance Status as on March 31, 2024
	carrying out safety measures and non-closure , will lead to suspension of all EC obtained for mining by the Proponent.	
47	In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.	Noted
48	The proponent shall submit Half Yearly Compliance Reports (1st of June & 1st of December) on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall be simultaneously sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31st March every year.	Being Complied Half Yearly Compliance Reports (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, therefore soft copy of HYCR for the period April 2023 to September 2023 has been submitted vide email dated 23.11.2023 (a copy of the email is enclosed as Annexure 3). AVPPL commenced operation at Building Stone Quarry in Re - Sy. Block No. 37, Re - Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala on 14.07.2023, therefore the Environmental statement in form V will be submitted to Kerala State Pollution Control Board (KSPCB) for the Financial Year 2023-2024 year ending on 31.03.2024 on or before 30.09.2024 (As per Rule 14).
49	The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at Bangalore/SEAC/SPCB/CPCB/	Noted

Building Stone Quarry in Re - Sy. Block No. 37, Re - Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) No. 92-Q-2022 dated 16.08.2022 for the Period October 2023 to March 2024

S. No.	Conditions	Compliance Status as on March 31, 2024
	Dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports.	
50	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	Noted
51	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.	Noted
52	The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.	Noted
53	The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law.	Noted
54	Any appeal against this Environmental Clearance shall lie with the National Green	Noted

	Adani Vizhinjam Port Private Limited (AVPPL)	From: October 2023 To: March 2024
Building Stone Quarry in Re - Sy. Block No. 37, Re - Sy No. 554/1, 554/5 & 554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala		

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) No. 92-Q-2022 dated 16.08.2022 for the Period October 2023 to March 2024		
S. No.	Conditions	Compliance Status as on March 31, 2024
	Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	
55	Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
56	The SEIAA may revoke or suspend the order, for non implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.	Noted
57	As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.	Being Complied As per the Approved Mining Plan (Copy submitted along with HYCR for the period April 2023 to September 2023), the bench height and width will be maintained at a maximum of 6.0 m. It will be ensured that the breadth shall not be less than the height of the benches.

Enclosures:

Annexure Number	Details of Annexure
Annexure 1:	Environmental Monitoring Reports
Annexure 2:	Notice of Appointment of Statutory Persons
Annexure 3:	Email Submission of HYCR for the period April 2023 to September 2023

Annexure 1
Environmental Monitoring Reports

TEST REPORT

Test Report No & Date	CTL/CH/N-19296/2023-24 & 15.03.2024
Sample Number	N-19296/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality
Sampling Location	Project Site
GPS Reading	8°43'48.11" N & 76°50'23.12"E
Sample Drawn on	01.03.2024 - 24Hrs
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Equipment used for Sampling	Respirable Dust Sampler :2938-DTL-2020
Analysis Completed on	15.03.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	33.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	70.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	13.9	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	30.0	80
5	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)


Verified by

TEST REPORT

Test Report No & Date	CTL/CH/N-19296/2023-24 & 15.03.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
6	HYDROCARBONS	IS 5182 Part 17 - 1979 (R.2019)	ppm	BDL(DL:0.1)	-


*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Gazette Notification G.S.R. 826(E) dated 18.11.2009.
BDL - Below Detection Limit(D.L - Detection Limit) NA - Not Available

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd



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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date	CTL/CH/N-19297/2023-24 & 15.03.2024
Sample Number	N-19297/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality
Sampling Location	Near Operators Rest Room North Side (300 m away from Project Site)
GPS Reading	8°43'48.63" N & 76°50'12.46"E
Sample Drawn on	01.03.2024 - 24Hrs
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Equipment used for Sampling	Respirable Dust Sampler :2937-DTL-2020
Analysis Completed on	15.03.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	32.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	60.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	10.9	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	24.2	80
5	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)


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TEST REPORT

Test Report No & Date	CTL/CH/N-19297/2023-24 & 15.03.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
6	HYDROCARBONS	IS 5182 Part 17 - 1979 (R.2019)	ppm	BDL(DL:0.1)	-


*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Gazette Notification G.S.R. 826(E) dated 18.11.2009.
BDL - Below Detection Limit(D.L - Detection Limit) NA - Not Available

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd



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Authorised Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-19298/2023-24 & 15.03.2024
Sample Number	N-19298/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality
Sampling Location	Vanchiyoor UP School West Side(1.5km away from Project Site)
GPS Reading	8°43'16.56" N & 76°50'10.91"E
Sample Drawn on	01.03.2024 - 24Hrs
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Equipment used for Sampling	Respirable Dust Sampler :2937-DTL-2020
Analysis Completed on	15.03.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	23.1	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	55.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	8.6	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	15.2	80
5	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4

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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)


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TEST REPORT

Test Report No & Date	CTL/CH/N-19298/2023-24 & 15.03.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
6	HYDROCARBONS	IS 5182 Part 17 - 1979 (R.2019)	ppm	BDL(DL:0.1)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Gazette Notification G.S.R. 826(E) dated 18.11.2009.
BDL - Below Detection Limit(D.L - Detection Limit) NA - Not Available

*****END OF REPORT*****



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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date	CTL/CH/N-19299/2023-24 & 15.03.2024
Sample Number	N-19299/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Ambient Air
Sample Description	Ambient Air Quality
Sampling Location	St. Joseph of Cluny Public School - South side(1.0km away from Project Site)
GPS Reading	8°43'37.63" N & 76°50'49.33"E
Sample Drawn on	01.03.2024 - 24Hrs
Sampling Plan & Procedure	CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Equipment used for Sampling	Respirable Dust Sampler :2937-DTL-2020
Analysis Completed on	15.03.2024

Test Results:

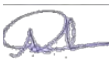
The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	29.7	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	60.0	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	11.1	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	23.5	80
5	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)


Verified by

TEST REPORT

Test Report No & Date	CTL/CH/N-19299/2023-24 & 15.03.2024
----------------------------------	--

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
6	HYDROCARBONS	IS 5182 Part 17 - 1979 (R.2019)	ppm	BDL(DL:0.1)	-

*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Gazette Notification G.S.R. 826(E) dated 18.11.2009.
BDL - Below Detection Limit(D.L - Detection Limit) NA - Not Available

*****END OF REPORT*****

For Chennai Testing Laboratory Pvt Ltd



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G. MANIKANDAN
Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-19300/2023-24 & 15.03.2024
Sample Number N-19300/23-24
Name of the Customer M/s. Adani Vizhinjam Port Private Limited,
Address 01, Port Operation Building, Mullur Road,
Mullur, Thiruvananthapuram, Kerala - 695 521.
Project Quarry Site At Kadavila

Sample Drawn by Laboratory
Sample Name Ambient Air
Sample Description Ambient Air Quality
Sampling Location Viswanadhapuram Shiva Temple East Side (1.2km away from Project Site)
GPS Reading 8°44'09.02" N & 76°50'18.82"E
Sample Drawn on 01.03.2024 - 24Hrs
Sampling Plan & Procedure CTL/QSP/F-89 & IS 5182 (Part V) and (Part XIV)
Equipment used for Sampling Respirable Dust Sampler :2937-DTL-2020
Analysis Completed on 15.03.2024

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
1	PARTICULATE MATTER (PM _{2.5})	IS 5182 Part 24 - 2019	µg/m ³	24.0	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006 (R.2017)	µg/m ³	56.2	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001 (R.2017)	µg/m ³	9.0	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006 (R.2017)	µg/m ³	20.0	80
5	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	4

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Authorised Signatory
G. MANIKANDAN
Head - Environment Division
(CHEMICAL)


Verified by

CIN: U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-19300/2023-24 & 15.03.2024
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SL.NO	PARAMETERS	METHODS	UNITS	RESULTS	NAAQS*
6	HYDROCARBONS	IS 5182 Part 17 - 1979 (R.2019)	ppm	BDL(DL:0.1)	-

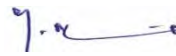
*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Gazette Notification G.S.R. 826(E) dated 18.11.2009.
BDL - Below Detection Limit(D.L - Detection Limit) NA - Not Available

*****END OF REPORT*****

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Head - Environment Division
(CHEMICAL)

Page 2 of 2

TEST REPORT

Test Report No & Date CTL/CH/N-19310/2023-24 & 15.03.2024
Sample Number N-19310/23-24
Name of the Customer M/s. Adani Vizhinjam Port Private Limited,
Address 01, Port Operation Building, Mullur Road,
 Mullur, Thiruvananthapuram, Kerala - 695 521.
Project Quarry Site At Kadavila

Sample Drawn by Laboratory
Sample Name Noise
Sample Description AMBIENT NOISE
Sample Drawn on 01.03.2024
Sampling Plan & Procedure CTL/QSP/F-89 & IS 9989
Equipment used for Sampling Sound Level Meter S.No:554062

Test Results:

The above sample tested as received, and results are as follows:

SL.NO	LOCATION	GPS READING	NOISE LEVEL dB (A)			LIMITS	NOISE LEVEL dB (A)			LIMITS
			Day Noise				Night Noise			
			Min	Max	Leq		Min	Max	Leq	
1	Project Site	8°43'48.11" N & 76°50'23.12"E	60.8	64.8	63.0	75.0	50.5	58.1	54.5	70.0
2	Near Operators Rest Room North Side (300m away from Project Site)	8°43'48.63" N & 76°50'12.46"E	60.5	68.2	64.5	75.0	52.6	59.2	57.1	70.0
3	Vanchiyoor UP School West Side (1.5km away from Project Site)	8°43'16.56" N & 76°50'10.91"E	60.6	65.0	62.7	65.0	51.6	56.0	53.8	60.0
4	St. Joseph of Cluny Public School - South side (1.1km away from Project Site)	8°43'37.63" N & 76°50'49.33"E	53.0	57.0	55.3	65.0	45.0	49.0	47.2	60.0
5	Viswanadhapuram Shiva Temple East Side(1.2km away from Project Site)	8°44'09.02" N & 76°50'18.82"E	50.6	56.0	53.1	55.0	46.5	52.1	49.0	50.0

NOTE : CPCB Limits Day Time(6.00 a.m. to 10 p.m.)& Night Time(10.00 p.m. to 6 a.m.)

The Noise Pollution (Regulation & Control) Rules 2000

AMBIENT NOISE-CPCB NORMS	Day Time Leq dB(A)	Night Time Leq dB(A)
Industrial area	75	70
Commercial area	65	60
Residential area	55	50

END OF REPORT


Verified by

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory
G. MANIKANDAN
 Head - Environment Division
 (CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-19196/2023-24 & 18.03.2024
Sample Number	N-19196/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Surface Water
Sample Description	Surface Water
Sampling Location	Out Side Project Site (900 m away from Project Site)
GPS Reading	8°43'49.31" N & 76°50'12.02"E
Sample Drawn on	01.03.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	5 Litres + 100ml (Sterile Container)
Sample Condition	Good & Received in Plastic container
Analysis Completed on	18.03.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	pH @ 25°C	IS 3025 (Part 11)-1983 (R.2017)	-	7.9
3	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
4	Total Dissolved Solids	IS 3025 (Part 16)-1984 (R.2017)	mg/l	330
5	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	71
6	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	4
7	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	42
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	19
9	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	0.06
10	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	150
11	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	194
12	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2019)	mg/l	4.7
13	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	0.12
14	Zinc as Zn	IS 3025 (Part 49)-1994 (R.2019)	mg/l	BDL(DL:0.08)
15	Copper as Cu	IS 3025 (Part 42)-1992 (R.2019)	mg/l	BDL(DL:0.02)

Rajkumar

Verified by

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 3

TEST REPORT

Test Report No & Date	CTL/CH/N-19196/2023-24 & 18.03.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
16	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	BDL(DL:2.0)
17	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	BDL(DL:4.0)
18	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (R.2019)	mg/l	6.6
19	Total Suspended Solids	IS 3025 (Part 17) -1984 (R.2021)	mg/l	BDL(DL:2.0)
20	Flow Rate	Floating Method (Manual)/ Water Current Meter	m/mts	0.12

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For Chennai Testing Laboratory Pvt Ltd

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A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 3

TEST REPORT

Test Report No & Date	CTL/CH/N-19196/2023-24 & 18.03.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
Microbiology:				
21	Total Coliform	IS 15185 : 2016 (R.2021)	Per 100ml	Absent
22	<i>E.coli</i>		Per 100ml	Absent

BDL - Below Detection Limit; DL - Detection Limit

Note: The tested parameters are within the IS 10500:2012 Permissible limit.

*****END OF REPORT*****



Verified by

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

TEST REPORT

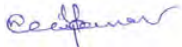
Test Report No & Date	CTL/CH/N-19197/2023-24 & 18.03.2024
Sample Number	N-19197/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Surface Water
Sample Description	Surface Water
Sampling Location	Inside Project Site
GPS Reading	8°43'47.96" N & 76°50'16.33"E
Sample Drawn on	01.03.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	5 Litres + 100ml (Sterile Container)
Sample Condition	Good & Received in Plastic container
Analysis Completed on	18.03.2024

Test Results:

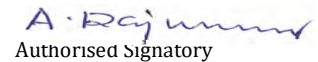
The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	pH @ 25°C	IS 3025 (Part 11)-1983 (R.2017)	-	7.5
3	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
4	Total Dissolved Solids	IS 3025 (Part 16)-1984 (R.2017)	mg/l	50
5	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	9
6	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	1
7	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	28
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	8
9	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	BDL(DL:0.01)
10	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	1
11	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	27
12	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2019)	mg/l	3.1
13	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	BDL(DL:0.1)
14	Zinc as Zn	IS 3025 (Part 49)-1994 (R.2019)	mg/l	BDL(DL:0.08)
15	Copper as Cu	IS 3025 (Part 42)-1992 (R.2019)	mg/l	BDL(DL:0.02)

For Chennai Testing Laboratory Pvt Ltd



Verified by


Authorised signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-19197/2023-24 & 18.03.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
16	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	BDL(DL:2.0)
17	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	BDL(DL:4.0)
18	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (R.2019)	mg/l	6.9
19	Total Suspended Solids	IS 3025 (Part 17) -1984 (R.2021)	mg/l	BDL(DL:2.0)
20	Flow Rate	Floating Method (Manual)/ Water Current Meter	m/mts	0.08

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For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 3

TEST REPORT

Test Report No & Date	CTL/CH/N-19197/2023-24 & 18.03.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
Microbiology:				
21	Total Coliform	IS 15185 : 2016 (R.2021)	Per 100ml	Absent
22	<i>E.coli</i>		Per 100ml	Absent

BDL - Below Detection Limit; DL - Detection Limit

Note: The tested parameters are within the IS 10500:2012 Permissible limit.

*****END OF REPORT*****



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For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

TEST REPORT

Test Report No & Date	CTL/CH/N-19198/2023-24 & 18.03.2024
Sample Number	N-19198/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Near Operators Rest Room North Side (400m Away Project Site)
GPS Reading	8°43'47.98" N & 76°50'12.73"E
Sample Drawn on	01.03.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	5 Litres + 100ml (Sterile Container)
Sample Condition	Good & Received in Plastic container
Analysis Completed on	18.03.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	pH @ 25°C	IS 3025 (Part 11)-1983 (R.2017)	-	6.9
3	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
4	Total Dissolved Solids	IS 3025 (Part 16)-1984 (R.2017)	mg/l	64
5	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	2
6	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	2
7	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	4
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	25
9	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	BDL(DL:0.01)
10	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	< 1
11	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	13
12	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2019)	mg/l	6.1
13	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	BDL(DL:0.1)
14	Zinc as Zn	IS 3025 (Part 49)-1994 (R.2019)	mg/l	BDL(DL:0.08)
15	Copper as Cu	IS 3025 (Part 42)-1992 (R.2019)	mg/l	BDL(DL:0.02)

For Chennai Testing Laboratory Pvt Ltd

Verified by

Verified by

A. Rajkumar

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 3

TEST REPORT

Test Report No & Date	CTL/CH/N-19198/2023-24 & 18.03.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
16	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	BDL(DL:2.0)
17	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	BDL(DL:4.0)
18	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (R.2019)	mg/l	6.7
19	Total Suspended Solids	IS 3025 (Part 17) -1984 (R.2021)	mg/l	BDL(DL:2.0)

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A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 3

TEST REPORT

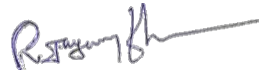
Test Report No & Date	CTL/CH/N-19198/2023-24 & 18.03.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
Microbiology:				
20	Total Coliform	IS 15185 : 2016 (R.2021)	Per 100ml	Absent
21	<i>E.coli</i>		Per 100ml	Absent

BDL - Below Detection Limit; DL - Detection Limit

Note: The tested parameters are within the IS 10500:2012 Permissible limit.

*****END OF REPORT*****



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Authorised Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

Page 3 of 3

TEST REPORT

Test Report No & Date	CTL/CH/N-19199/2023-24 & 18.03.2024
Sample Number	N-19199/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	St. Joseph of Cluny Public School - South side (1.2km Away Project Site)
GPS Reading	8°43'36.42" N & 76°50'49.36"E
Sample Drawn on	01.03.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	5 Litres + 100ml (Sterile Container)
Sample Condition	Good & Received in Plastic container
Analysis Completed on	18.03.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	pH @ 25°C	IS 3025 (Part 11)-1983 (R.2017)	-	7.3
3	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
4	Total Dissolved Solids	IS 3025 (Part 16)-1984 (R.2017)	mg/l	94
5	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	11
6	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	2
7	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	25
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	20
9	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	BDL(DL:0.01)
10	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	1
11	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	36
12	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2019)	mg/l	8.9
13	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	BDL(DL:0.1)
14	Zinc as Zn	IS 3025 (Part 49)-1994 (R.2019)	mg/l	BDL(DL:0.08)
15	Copper as Cu	IS 3025 (Part 42)-1992 (R.2019)	mg/l	BDL(DL:0.02)

For Chennai Testing Laboratory Pvt Ltd

[Signature]

Verified by

[Signature]

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 3

TEST REPORT

Test Report No & Date	CTL/CH/N-19199/2023-24 & 18.03.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
16	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	BDL(DL:2.0)
17	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	BDL(DL:4.0)
18	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (R.2019)	mg/l	6.9
19	Total Suspended Solids	IS 3025 (Part 17) -1984 (R.2021)	mg/l	BDL(DL:2.0)

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For Chennai Testing Laboratory Pvt Ltd

[Handwritten Signature]

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

CIN: U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-19199/2023-24 & 18.03.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
Microbiology:				
20	Total Coliform	IS 15185 : 2016 (R.2021)	Per 100ml	Absent
21	<i>E.coli</i>		Per 100ml	Absent

BDL - Below Detection Limit; DL - Detection Limit

Note: The tested parameters are within the IS 10500:2012 Permissible limit.

*****END OF REPORT*****



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For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

Page 3 of 3

TEST REPORT

Test Report No & Date	CTL/CH/N-19200/2023-24 & 18.03.2024
Sample Number	N-19200/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Vanchiyoor UP School West Side (1.5km Away Project Site)
GPS Reading	8°43'36.42" N & 76°50'49.36"E
Sample Drawn on	01.03.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	5 Litres + 100ml (Sterile Container)
Sample Condition	Good & Received in Plastic container
Analysis Completed on	18.03.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	pH @ 25°C	IS 3025 (Part 11)-1983 (R.2017)	-	6.8
3	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
4	Total Dissolved Solids	IS 3025 (Part 16)-1984 (R.2017)	mg/l	64
5	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	5
6	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	2
7	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	16
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	14
9	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	BDL(DL:0.01)
10	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	< 1
11	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	21
12	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2019)	mg/l	4.8
13	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	BDL(DL:0.1)
14	Zinc as Zn	IS 3025 (Part 49)-1994 (R.2019)	mg/l	BDL(DL:0.08)
15	Copper as Cu	IS 3025 (Part 42)-1992 (R.2019)	mg/l	BDL(DL:0.02)

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-19200/2023-24 & 18.03.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
16	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	BDL(DL:2.0)
17	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	BDL(DL:4.0)
18	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (R.2019)	mg/l	6.8
19	Total Suspended Solids	IS 3025 (Part 17) -1984 (R.2021)	mg/l	BDL(DL:2.0)

A. Rajkumar

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For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 2 of 3

CIN: U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-19200/2023-24 & 18.03.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
Microbiology:				
20	Total Coliform	IS 15185 : 2016 (R.2021)	Per 100ml	Absent
21	<i>E.coli</i>		Per 100ml	Absent

BDL - Below Detection Limit; DL - Detection Limit

Note: The tested parameters are within the IS 10500:2012 Permissible limit.

*****END OF REPORT*****



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For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

Page 3 of 3

TEST REPORT

Test Report No & Date	CTL/CH/N-19201/2023-24 & 18.03.2024
Sample Number	N-19201/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Ground Water
Sample Description	Ground Water
Sampling Location	Workers Mess (300m Away Project Site)
GPS Reading	8°43'29.226" N & 76°50'21.84"E
Sample Drawn on	01.03.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/09
Sample Quantity	5 Litres + 100ml (Sterile Container)
Sample Condition	Good & Received in Plastic container
Analysis Completed on	18.03.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Colour	IS : 3025 (Part 4)- 2021	HU	2
2	pH @ 25°C	IS 3025 (Part 11)-1983 (R.2017)	-	7.3
3	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	< 1
4	Total Dissolved Solids	IS 3025 (Part 16)-1984 (R.2017)	mg/l	52
5	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2019)	mg/l	9
6	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2019)	mg/l	1
7	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2019)	mg/l	29
8	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2019)	mg/l	9
9	Iron as Fe	IS 3025 (Part 53)-2003 (R.2019)	mg/l	BDL(DL:0.01)
10	Sulphate as SO ₄	IS 3025 (Part 24/Sec -1) - 2022	mg/l	< 1
11	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2019)	mg/l	27
12	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2019)	mg/l	2.7
13	Fluoride as F	IS 3025 (Part 60)-2008 (R.2019)	mg/l	BDL(DL:0.1)
14	Zinc as Zn	IS 3025 (Part 49)-1994 (R.2019)	mg/l	BDL(DL:0.08)
15	Copper as Cu	IS 3025 (Part 42)-1992 (R.2019)	mg/l	BDL(DL:0.02)

For Chennai Testing Laboratory Pvt Ltd

Rajkumar

Verified by

A. Rajkumar

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 3

TEST REPORT

Test Report No & Date	CTL/CH/N-19201/2023-24 & 18.03.2024
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S. NO	PARAMETERS	METHOD	UNITS	RESULTS
16	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	IS 3025 (Part 44) -1993 (RA.2019)	mg/l	BDL(DL:2.0)
17	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006 (RA:2017)	mg/l	BDL(DL:4.0)
18	Dissolved Oxygen	IS 3025 (Part 38) - 1989 (R.2019)	mg/l	6.7
19	Total Suspended Solids	IS 3025 (Part 17) -1984 (R.2021)	mg/l	BDL(DL:2.0)

A. Rajkumar

Verified by

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-19201/2023-24 & 18.03.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
Microbiology:				
20	Total Coliform	IS 15185 : 2016 (R.2021)	Per 100ml	Absent
21	<i>E.coli</i>		Per 100ml	Absent

BDL - Below Detection Limit; DL - Detection Limit

Note: The tested parameters are within the IS 10500:2012 Permissible limit.

*****END OF REPORT*****

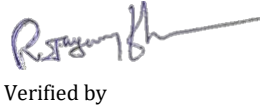
For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

N. RAJENDRAKUMAR
Head - Quality & Microbiology Division
(MICROBIOLOGY)

Page 3 of 3



Verified by

TEST REPORT

Test Report No & Date	CTL/CH/N-19193/2023-24 & 18.03.2024
Sample Number	N-19193/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Soil
Sample Description	Soil
Sampling Location	Project Site
GPS Reading	8°43'48.60" N & 76°50'23.35"E
Sample Drawn on	01.03.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/10
Sample Quantity	1 kg
Sample Condition	Good & Received in Packed Condition
Analysis Completed on	11.03.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	pH	EPA Method-9045 D rev 4,2004	-	6.4
2	Moisture	IS:2720(Part - 2)-1973 (RA.: 2020)	%	3.24
3	Available Phosphorus as P	FAO Method (Pg. No.75) 2007 (Olsen's method)	mg/kg	8
4	Total Organic Matter	FAO Method (Pg. No.61) 2007 (walkley Black wet combustion method)	%	0.27
5	Conductivity	FAO Method(Page No-43)2007 (Electrical Conductivity Method)	µs/cm	153
6	Total Kjeldahl Nitrogen as N	IS 10158-1982 (RA.2003)	mg/kg	534

For Chennai Testing Laboratory Pvt Ltd

Rajkumar

Verified by

A. Rajkumar

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Page 1 of 2

TEST REPORT

Test Report No & Date	CTL/CH/N-19193/2023-24 & 18.03.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	
7	Available Nitrogen as N	FAO Method	mg/kg	224	
8	Available Potassium as K		mg/kg	35	
9	Soil Type	Physical Observation	-	Silty loam	
10	Particle Size Distribution:			Retained	Passed
	1.70 mm	FAO Method	%	39.26	60.74
	0.850 mm		%	19.16	41.58
	0.710 mm		%	8.63	32.95
	0.600 mm		%	6.88	26.07
	0.355 mm		%	10.96	15.11
	0.180 mm		%	6.44	8.67

BDL - Below Detection Limit; DL - Detection limit.

*****END OF REPORT*****

(Signature)
Verified by

For Chennai Testing Laboratory Pvt Ltd

(Signature)
A. Rajkumar
Authorised Signatory
A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-19194/2023-24 & 18.03.2024
Sample Number	N-19194/23-24
Name of the Customer	M/s. Adani Vizhinjam Port Private Limited,
Address	01, Port Operation Building, Mullur Road, Mullur, Thiruvananthapuram, Kerala - 695 521.
Project	Quarry Site At Kadavila
Sample Drawn by	Laboratory
Sample Name	Soil
Sample Description	Soil
Sampling Location	Viswanadhapuram Shiva Temple East Side (1.2km away from Project Site)
GPS Reading	8°44'10.28" N & 76°50'18.37"E
Sample Drawn on	01.03.2024
Sampling Plan & Procedure	Grab Sample & CTL/QSP/10
Sample Quantity	1 kg
Sample Condition	Good & Received in Packed Condition
Analysis Completed on	11.03.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	pH	EPA Method-9045 D rev 4,2004	-	6.3
2	Moisture	IS:2720(Part - 2)-1973 (RA.: 2020)	%	0.33
3	Available Phosphorus as P	FAO Method (Pg. No.75) 2007 (Olsen's method)	mg/kg	11
4	Total Organic Matter	FAO Method (Pg. No.61) 2007 (walkley Black wet combustion method)	%	0.32
5	Conductivity	FAO Method(Page No-43)2007 (Electrical Conductivity Method)	µs/cm	124
6	Total Kjeldahl Nitrogen as N	IS 10158-1982 (RA.2003)	mg/kg	492

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar

Verified by

A. Rajkumar

Authorised Signatory

A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-19194/2023-24 & 18.03.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	
7	Available Nitrogen as N	FAO Method	mg/kg	246	
8	Available Potassium as K		mg/kg	29	
9	Soil Type	Physical Observation	-	Silty loam	
10	Particle Size Distribution:			Retained	Passed
	1.70 mm	FAO Method	%	22.86	77.14
	0.850 mm		%	13.78	63.36
	0.710 mm		%	15.43	47.93
	0.600 mm		%	18.63	29.30
	0.355 mm		%	15.72	13.58
	0.180 mm		%	7.42	6.16

BDL - Below Detection Limit; DL - Detection limit.

*****END OF REPORT*****

Rajkumar
Verified by

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar
Authorised Signatory
A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

TEST REPORT

Test Report No & Date CTL/CH/N-19195/2023-24 & 18.03.2024
Sample Number N-19195/23-24
Name of the Customer M/s. Adani Vizhinjam Port Private Limited,
Address 01, Port Operation Building, Mullur Road,
Mullur, Thiruvananthapuram, Kerala - 695 521.
Project Quarry Site At Kadavila

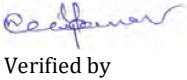
Sample Drawn by Laboratory
Sample Name Soil
Sample Description Soil
Sampling Location Premises of Nearby Home(2.5 km away from Project Site)
GPS Reading 8°43'46.02" N & 76°50'12.27"E
Sample Drawn on 01.03.2024
Sampling Plan & Procedure Grab Sample & CTL/QSP/10
Sample Quantity 1 kg
Sample Condition Good & Received in Packed Condition
Analysis Completed on 11.03.2024

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	pH	EPA Method-9045 D rev 4,2004	-	6.5
2	Moisture	IS:2720(Part - 2)-1973 (RA.: 2020)	%	0.85
3	Available Phosphorus as P	FAO Method (Pg. No.75) 2007 (Olsen's method)	mg/kg	7
4	Total Organic Matter	FAO Method (Pg. No.61) 2007 (walkley Black wet combustion method)	%	0.18
5	Conductivity	FAO Method(Page No-43)2007 (Electrical Conductivity Method)	µs/cm	172
6	Total Kjeldahl Nitrogen as N	IS 10158-1982 (RA.2003)	mg/kg	270

For Chennai Testing Laboratory Pvt Ltd


Verified by


Authorised Signatory
A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

TEST REPORT

Test Report No & Date	CTL/CH/N-19195/2023-24 & 18.03.2024
-----------------------	-------------------------------------

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	
7	Available Nitrogen as N	FAO Method	mg/kg	158	
8	Available Potassium as K		mg/kg	46	
9	Soil Type	Physical Observation	-	Silty loam	
10	Particle Size Distribution:			Retained	Passed
	1.70 mm	FAO Method	%	16.85	83.15
	0.850 mm		%	12.56	70.59
	0.710 mm		%	11.26	59.33
	0.600 mm		%	13.96	45.37
	0.355 mm		%	16.85	28.52
	0.180 mm		%	20.36	8.16

BDL - Below Detection Limit; DL - Detection limit.

*****END OF REPORT*****

Rajkumar
Verified by

For Chennai Testing Laboratory Pvt Ltd

A. Rajkumar
Authorised Signatory
A. RAJKUMAR
Head - Water & Soil Division
(CHEMICAL)

Annexure 2
Notice of Appointment of
Statutory Persons



Ports and
Logistics

AVPPL/DGMS/2023-24/2775

03.01.2024
Thiruvananthapuram.

To

The Director General of Mine Safety,
P.O.DHANBAD - 826001. Eastern Railway,
JHARKAND STATE.

The Dy. Director General of Mines Safety,
Southern Zone, Bangalore

The Director of Mines Safety
Southern Zone, Bangalore.

Dear Sir,

Sub: Appointment of Mine Agent & Assistant Mines Manager

I am herewith enclosing the **Notice of Appointment of Agent & Notice of Appointment of Assistant Mines Manager** in First Schedule of Form - I in respect of **Kadavila 2&3 Stone quarry of M/s. Adani Vizhinjam Port Pvt Ltd.**, located at **Block No. 37 Re Sy No. 554/1, 554/5 & 554/6** Nagaroor (v), Chirayinkeezhu (Tk), Thiruvananthapuram (Dt) – 695 101 Kerala State
Kindly acknowledge the receipt.

Thanking You,
Yours Sincerely,

Rajesh Kumar Jha
CEO Cum Mine Owner

Adani Vizhinjam Port Pvt Ltd
3rd Floor, Aspinwall House,
Kuravankonam
Thiruvananthapuram,
Kerala-695003

Tel +91 79 2656 5555
Fax +91 79 2555 5500
info@adani.com
www.adani.com
CIN: U61200GJ2015PTC083954

Registered Office:

Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad-382421

Sl.No	Particulars	Annex ure No
1	Notice of Appointment of Mine Agent in Form - I	1
2	Appointment Letter – Mine Agent	2
3	Acceptance Letter – Mine Agent	3
4	Notice of Appointment of Assistant Mines Manager in Form - I	4
5	Appointment Letter – Assistant Mines Manager	5
6	Acceptance Letter – Assistant Mines Manager	6

Hence, I kindly request you give permission for Appointment of Mine Agent & Assistant Mines Manager under Regulation 3,6,7,8 in Form I of First Schedule under MMR 1961.

Thanking You,
Yours Sincerely,

Rajesh Kumar Jha
Mine Owner.

Encl: Form I and its Related Documents.

FIRST SCHEDULE

Form I

(See Regulation 3,6,7,8)

Notice of Appointment of Agent & Assistant Mines Manager

From

Rajesh Kumar Jha,
CEO & MD
3rd Floor, Aspinwall House,
Kuravankonam, Thiruvananthapuram,
Kerala - 695003

To

The Director General of Mines Safety,
P.O. DHANBAD. Eastern Railway,
JHARKHAND STATE - 826001

The Dy. Director General of Mines Safety,
Southern Zone Bangalore

The Director of Mines Safety
Southern Zone, Bangalore

Sir,

I have to furnish the following particulars in respect of (I) **Kadavila 2&3 Stone Quarry of M/s. Adani Vizhinjam Port Pvt Ltd.**, located at Block No. 37, Re-Sy No. 554/1, 554/5, 554/6, Nagaroor (v), Chirayinkeezhu (Tk), Thiruvananthapuram (Dt) – 695 101 Kerala State

1. In case old CHANGE OF MINE:

- | | | |
|---------------------|---|-----|
| a. Old Name of Mine | : | NIL |
| b. Date of Change | : | NIL |

2. Situation of the Mine

- | | | |
|---------------------|---|---------------------|
| a. Extent | : | 2.4706 Ha |
| a. Village | : | Nagaroor(v), |
| b. Police Station | : | Nagaroor |
| c. Division (Taluk) | : | Chirayankeezhu(TK), |
| d. State | : | Kerala |



3. Name and Postal Address of (ii)

(a) Owner

RAJESH KUMAR JHA
Mine owner,
CEO & MD
M/s Adani Vizhinjam Port Pvt Ltd.,
3rd Floor Aspinwall House,
Kuravankonam,
Thiruvananthapuram – 695003.
KERALA SATE
Mobile No: +91 77520 11111
Mail Id: rajesh.jha@adani.com

(b) Appointment of Agent

SUNIL KUMAR AYYAPPAN
Mine Agent,
M/s Adani Vizhinjam Port Pvt Ltd.,
3rd Floor, Aspinwall House,
Kuravankonam,
Thiruvananthapuram – 695003,
KERALA SATE.
Mobile No: +91 83018 65723
Mail Id: sunilkumar.ayyappan@adani.com

Date of APPOINTMENT

Date: 01.12.2023

(c) Mines Manager

Certificate No. 1395
Dated: 03.05.2000

P KUMAR
M/s Adani Vizhinjam Port Pvt Ltd.,
3rd Floor, Aspinwall House,
Kuravankonam,
Thiruvananthapuram – 695003
KERALA STATE.
Mobile No: +91 94833 50581
Mail Id: kumarp1426@gmail.com

(d) Appointment of Assistant
Mines Manager
Certificate No. SMR-E 8374

PRADEEP KUMAR S
M/s Adani Vizhinjam Port Pvt Ltd.,
3rd Floor, Aspinwall House,
Kuravankonam,
Thiruvananthapuram – 695003
KERALA STATE.
Mobile No: +91 86681 18409
Mail Id: pradeeps130297@gmail.com

Date of APPOINTMENT

Date: 01.12.2023



Actual Date of Opening/Reopening
Abandonment/Dis—Continuance of
the Mine

: **14.07.2023**

Yours faithfully,

Signature:



Designation: Owner/Agent/Manager

Date:



Ports and
Logistics

01.12.2023
Thiruvananthapuram.

From,
Rajesh Kumar Jha,
CEO & MD
M/s Adani Vizhinjam Port Pvt Ltd.,
3rd Floor, Aspinwall House,
Kuravankonam,
Thiruvananthapuram,
Kerala - 695003

To,
The Director General of Mines Safety,
P.O Dhanbad – 826001, Eastern Railway,
Jharkhand State.

The Dy. Director General of Mines Safety,
Southern Zone, Bangalore

The Director of Mines Safety
Southern Zone, Bangalore.

Dear Mr. SUNIL KUMAR AYYAPPAN

Sub: Appointment Letter.

I am herewith nominating you as Mine Agent with Reference to Regulation 8 A under MMR 1961 to our **Kadavila-2&3 Stone Quarry** of **M/s. Adani Vizhinjam Port Pvt Ltd., located Block No. 37, Re-Sy No. 554/1, 554/5, 554/6**, Nagaroor (v), Chirayinkeezhu (Tk), Thiruvananthapuram (Dt) – Kerala State. **Blue Metal (Mineral)** and you are advised to take charge as Mine Agent on or before **01.12.2023**

You are hereby informed that the terms and conditions of your service as per Reg 8A under MMR 1961 and return the copy of the Appointment Order with duly signed by you.

Kindly acknowledge the receipt.

Thanking You,
Yours Sincerely,

Rajesh Kumar Jha
CEO Cum Mine Owner

Received with thanks

SUNIL KUMAR AYYAPPAN

Adani Vizhinjam Port Pvt Ltd
3rd Floor, Aspinwall House,
Kuravankonam
Thiruvananthapuram,
Kerala-695003

Tel +91 79 2656 5555
Fax +91 79 2555 5500
info@adani.com
www.adani.com
CIN: U61200GJ2015PTC083954

Registered Office:
Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad-382421

01.12.2023
Thiruvananthapuram

To
Mr. Pradeep Kumar S
M/s. Adani Vizhinjam Port Pvt Ltd.,
3rd Floor, Aspinwall House,
Kuravankonam
Thiruvananthapuram,
Kerala-695003

Dear Mr. PRADEEP KUMAR S

Sub: Appointment Letter

Ref: Appointment for the position of Assistant Mines Manager

This is to inform you that as per discussion on 30.11.2023, the Management has decided to transfer you as an Assistant Mines Manager for our Kadavila-2&3 Stone Quarry located at Block No. 37, Re-Survey Nos. 554/1, 554/5, 554/6 of Nagaroor (V), Cheriyankeezhu (TK), Thiruvananthapuram District, Kerala and you are advised to join the Duty on or before 01.12.2023

Further, you are hereby informed that the terms and conditions of your service will be as per the annexure to this appointment letter.

For M/s Adani Vizhinjam Port Pvt Ltd.,

RAJESH KUMAR JHA
CEO cum Mine Owner

01.12.2023

Thiruvananthapuram

From,
Mr. SUNIL KUMAR AYYAPPAN
3rd Floor, Aspinwall House,
Kuravankonam,
Thiruvananthapuram,
Kerala - 695003

To,
CEO
M/s. Adani Vizhinjam Port Pvt Ltd.,
3rd Floor, Aspinwall House,
Kuravankonam,
Thiruvananthapuram,
Kerala - 695003

Dear Sir,

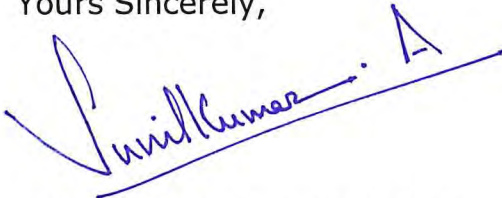
Sub: Acceptance Letter

Ref: Appointment Letter Dt 01.12.2023

I am herewith furnishing my acceptance Letter with reference to your Appointment letter Dt 01.12.2023 as Mine Agent for Kadavila-2&3 Building Stone Quarry located at Block No. 37, Re-Survey Nos. 554/1, 554/5, 554/6 of Nagaroor (V), Cheriyankeezhu (TK), Thiruvananthapuram District, Kerala

Hence, I kindly request you to accept my acceptance letter and permit me to join the duty as Mine Agent from 01.12.2023

Thanking You
Yours Sincerely,



SUNIL KUMAR AYYAPPAN



01.12.2023
Thiruvananthapuram

From,
Mr. PRADEEP KUMAR S
3rd Floor, Aspinwall House,
Kuravankonam
Thiruvananthapuram,
Kerala-695003

To,
CEO
M/s. Adani Vizhinjam Port Pvt Ltd.,
3rd Floor, Aspinwall House,
Kuravankonam
Thiruvananthapuram,
Kerala-695003

Dear Sir,

Sub: Acceptance Letter

Ref: Appointment Letter Dt 01.12.2023

I am herewith furnishing my acceptance Letter with reference to your Appointment letter Dt 01.12.2023 as an Assistant Mines Manager for Kadavila-2&3 Building Stone Quarry located at Block No. 37, Re-Survey Nos. 554/1, 554/5, 554/6 of Nagaroor (V), Cheriyankeezhu (TK), Thiruvananthapuram District, Kerala

Hence, I kindly request you to accept my acceptance letter and permit me to join the duty as Assistant Mine Manager from 01.12.2023

Thanking You
Yours Sincerely,


PRADEEP KUMAR S





सत्यमेव जयते



PRADEEP KUMAR S



Cert No. SMR-E /8374

भारत सरकार/Government of India
खान अधिनियम, 1952/Mines Act, 1952
खनन परीक्षा बोर्ड/Board of Mining Examinations
द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र
SECOND CLASS MANAGER'S CERTIFICATE OF COMPETENCY
(केवल ओपनकास्ट खानों तक सीमित)
(Restricted to mines having opencast workings only)
(धात्विकीय खान विनियम, 1961 के अन्तर्गत)
(Under the Metalliferous Mines Regulations, 1961)

श्री प्रदीप कुमार एस

सुपुत्र जे सेल्व कुमार

जिनकी जन्म तिथि 13.02.1997

है, को विहित अर्हताएं एवं अनुभव प्राप्त करने

का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्द्वारा केवल ओपनकास्ट धात्विकीय खानों के प्रबंधन हेतु द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 20 अक्टूबर 2022 से प्रभावी है।

Shri PRADEEP KUMAR S

son of J SELVA KUMAR

born on 13 FEBRUARY 1997

having given satisfactory evidence of possessing

the prescribed qualifications and experience is hereby granted SECOND CLASS MANAGER'S CERTIFICATE OF COMPETENCY to manage the metalliferous mines having opencast workings only. This certificate is effective from. 20.10.2022

सचिव

खनन परीक्षा बोर्ड

Secretary

Board of Mining
Examinations

अध्यक्ष

खनन परीक्षा बोर्ड

Chairman

Board of Mining
Examinations

Signed and Sealed

Date 14.03.2023

Annexure 3

**Email Submission of HYCR for the period
April 2023 to September 2023**

From: [Hebin Chenthamarakshan](mailto:Hebin.Chenthamarakshan)
To: rosz.bng-mefcc@gov.in
Cc: [Rajesh Kumar Jha; seacseiaakerala@gmail.com](mailto:seacseiaakerala@gmail.com); [Hebin Chenthamarakshan](mailto:Hebin.Chenthamarakshan); [Jesse Benjamin Fullonton](mailto:Jesse.Benjamin.Fullonton); [Palanivelu Kumar](mailto:Palanivelu.Kumar); [Environment Avppl](mailto:Environment.Avppl)
Subject: EC No. 92/Q/2022 dated 16.08.2022 - HYCR Apr 23 to Sep 23 - Kadavilla-2&3 Quarry - Reg.
Date: Thursday, November 23, 2023 5:49:40 PM

Dear Sir/Madam,

This is with reference to the Environmental Clearance (EC) No. 92/Q/2022 dated 16.08.2022 issued by State Environment Impact Authority (SEIAA), Kerala to issued to Adani Vizhinjam Port Private Limited (AVPPL) for Granite Building Stone Quarry Project in Re-Sy. Block No. 37, Re-Sy. No. 554/1, 554/5 & 554/6 of Nagaroor Village (Kadavilla-2&3), Chirayinkeezh Taluk, Thiruvananthapuram District of Kerala State.

The Half Yearly Compliance Report (HYCR) of the conditions stipulated in the EC for the period April 2023 to September 2023 vide reference AVPPL/MoEF/2023-24/2712 dated 21.11.2023 can be downloaded from the following link: <https://acrobat.adobe.com/link/review?uri=urn:aaid:scds:US:324778e0-745a-4c4b-8d52-24e7ef09176f>; for record and reference please.

You are requested to kindly acknowledge receipt of the same.

Thanks & Regards,

Regards,

Hebin C.

Head Environment

Adani Vizhinjam Port Pvt Limited

Mullor Post, Vizhinjam

Trivandrum -695521

EXT. No : 91-47127-68852

Mob +91 9099056757/9048404798 | Hebin.C@adani.com | www.adani.com

**Half Yearly Compliance Report (HYCR)
October 2023 to March 2024**

**Building Stone Quarry in Re - Sy. Block No. 37, Re - Sy No. 554/1, 554/5 &
554/6 of Nagaroor village (Kadavilla), Chirayinkeezh Taluk,
Thiruvananthapuram District**



Adani Vizhinjam Port Pvt. Ltd. (AVPPL)