

AVPPL/MoEF/2020-21/1373

Date: 27th November 2020

To,
Additional Principal Chief Conservator of Forests (C),
Ministry of Environment Forest and Climate Change (MoEF&CC),
Regional Office (Southern Zone), Kendriya Sadan,
IVth Floor, E&F Wings, 17th Main Road, IInd Block,
Koramangala, Bangalore-560034
rosz.bng-mefcc@gov.in
Ph: 080-25635901

Subject: Submission of HYCR to Conditions of EC for the Period April 2020 to September 2020 - Reg.

Reference: EC for building stone quarry project in Survey No. 555/2 at Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala No. 1200/EC2/2018/SEIAA dated 01.03.2019

Dear Sir,

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

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

Thanking you.

Yours Sincerely

Rajesh Jha

CEO – Authorized Signature

Enclosed: As mentioned above

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

Adani Vizhinjam Port Pvt Ltd
2nd Floor, Vipanchika Tower, Thycaud
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www.adani.com
CIN: U61200GJ2015PTC083954

Registered Office:

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

Jesse Benjamin Fullonton

From: Rajesh Kumar Jha
Sent: Saturday, 28 November, 2020 12:52 PM
To: rosz.bng-mefcc@gov.in
Cc: seacseiaakerala@gmail.com; Shalin Shah; Manoranjan Tripathy; Harsh Yadav; Hebin Chenthamarakshan; Jesse Benjamin Fullonton
Subject: EC No. 1200/EC2/2018/SEIAA dated 01.03.2019 - Half Yearly Compliance Report - Apr 2020 to Sep 2020 - Kadavilla-1 - Reg
Attachments: EC No.1200_EC2_2018_SEIAA dated 01.03.2019-HYCR-Apr20-Sep20_27.11.2020.pdf

Dear Sir/Madam,

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

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

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

Thanks & Regards,

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

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

adani

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Goodness

Our Values: Courage | Trust | Commitment



Building Stone Quarry Project

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

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


**Half Yearly Compliance Report (HYCR)
for the Period April 2020 to September 2020**

Project Proponent




Adani Vizhinjam Port Private Ltd. (AVPPL)

November 2020


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


Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2020 to September 2020		
S. No.	Conditions	Compliance Status as on September 30, 2020
Specific Conditions		
1	The mining should be conducted with Non-Electric Detonator (NONEL) Method thereby minimizing air blast, fly rock and ground vibration.	Complied Mining is being conducted using Non-Electric Detonator (NONEL) method of Blasting only. To minimize the air blast, fly rock and ground vibration. Till date no incident to fly rock has been recorded.
2	Extract a maximum of 7 lakh tons of building stone within a period of two years. Further permission for mining may be considered based on the requirement then and environmental assessment.	Will be Complied From 01.04.2020 to 30.09.2020, a total of 2.52 Lakh tons of building stones have been extracted and a cumulative quantity of 4.47 Lakh tons of building stones have been extracted till date. Mining operations have been affected due to the ongoing COVID-19 pandemic during the compliance period.
3	The proponent shall file an affidavit that he will expend Rs. 15 lakhs as a part of CER in consultation with Local Self Government.	Complied AVPPL have submitted to SEIAA an affidavit dated 08.11.2019 duly signed by the MD and CEO vide letter AVPPL/SEIAA/2019-20/945 dated 15.11.2019 that Rs. 15 Lakhs will be spent as a part of Corporate Environment Responsibility (CER) in consultation with the Local Self Government. A copy of the affidavit was submitted along with the HYCR for the period October 2019 to March 2020.
4	The proponent should follow the closure plans (progressive closure and final closure) as per KMMC Rules.	Will be Complied AVPPL will follow the closure plans (progressive closure and final closures) as per Kerala Minor Minerals Concession (KMMC) Rules and Mine Closure Plan in the Approved Mining Plan. Approved Mining Plan was submitted along with HYCR for the period April 2019 to September 2019). The closure procedure (progressive closure and final closures) shall be documented prior to and during the closure of the mine.
General Conditions		
1	A separate environmental management and monitoring cell with qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the	Complied A separate Environmental Management And Monitoring Cell (EMMC) with qualified personnel has been set up by AVPPL. The cell is under the control of the Head of Department (HoD), Environment who reports directly to the

adani	Adani Vizhinjam Port Private Limited (AVPPL)	From: April 2020 To: September 2020
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Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2020 to September 2020		
S. No.	Conditions	Compliance Status as on September 30, 2020
	Organization.	Chief Executive Officer (CEO), AVPPL. The details of the EMMC was submitted along with HYCR for the period April 2019 to September 2019.
2	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.	<p>Being Complied</p> <p>There is already existing plantation along the tar road. AVPPL have planted avenue trees at suitable locations.</p>  <p style="text-align: center;">Avenue Plantation</p>
3	Sprinklers shall be installed and used in the project site to contain dust emissions.	<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>

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

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S. No.	Conditions	Compliance Status as on September 30, 2020
		 <p>Water Sprinkling through Tankers</p>
4	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent	<p>Will be Complied</p> <p>Eco-restoration including Mine Closure Plan is provided in the Approved Mining Plan. Approved Mining Plan was submitted along with HYCR for the period April 2019 to September 2019. The same shall be implemented during the closure procedure at the cost of AVPPL.</p>
5	In view of the deep pits left after the excavation, stacking at maximum top level should be carried out.	<p>Not Applicable</p> <p>Stacking of materials is not being carried out as all the produced materials are used for Breakwater Construction at Vizhinjam Port and being transported directly to the Port site and not stacked at the quarry site. There is also no overburden stacking as there is no overburden available in the quarry since the quarry has been mined earlier by other parties and is an already open mine.</p> <p>As per the mine closure plan the pit will be utilized for storing of water as a rainwater harvesting method and will also be induced to</p>

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

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		sustain the groundwater table. As per the post mining land use, an area of 0.9540 Ha will be used for water pond for storage of water.
6	Corporate Environment Responsibility agreed upon by the proponent should be implemented.	<p>Will be Complied</p> <p>A total of Rs. 15 Lakhs will be spent on CER for a period of 5 years. AVPPL are coordinating with the Local Self Government regarding approval of the proposed CER plan with expense heads under specific activities in line with MoEF&CC Office Memorandum (OM) F.No.22-65/2017-IA.III dated 01.05.2018.</p> <p>AVPPL had prepared a plan for the budget of Rs. 15 lakhs and have submitted the same to the Nagaroor Gram Panchayat seeking their confirmation and go ahead for the proposed CER (Proposed plan was submitted along with HYCR for the period October 2019 to March 2020). Correspondence to the President of the Nagaroor Gram Panchayat was submitted along with HYCR for the period April 2019 to September 2019. Awaiting official communication from the office of the Gram Panchayat approving the CER activities plan.</p> <p>However, considering the requirements of the community and on discussions with the local panchayat, AVPPL have begun implementing CER activities in the surrounding areas of the quarry site. During the compliance period, following activities have been taken up as a part of CER:</p> <p>AVPPL are 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>Medical health checkup was planned on March 17, 2020 but was postponed due to the lockdown imposed by the government as a result of the COVID-19 pandemic. Instead, support kits (which included various groceries and provisions) were distributed in the community.</p>


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

S. No.	Conditions	Compliance Status as on September 30, 2020
		 <p>Distribution of COVID-19 Support Kits</p> <p>AVPPL had proposed and discussed with the Panchayat Authorities regarding distribution of Onam Gift Kit as a part of CER initiative to BPL families surrounding Kadavilla project area in Nagaroor panchayat. The Panchayat members requested to provide 150 Onam Gift Kits to families residing adjacent to the quarry area. The Onam Gift Kit (which included various groceries and provisions) were sourced from VIZ Mart (an initiative supported by Adani foundation) and the same were distributed on 29.08.2020.</p>  <p>Distribution of Onam Gift Kits</p>

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S. No.	Conditions	Compliance Status as on September 30, 2020
7	The project proponent shall comply the conditions stipulated by the statutory authorities concerned	Being Complied AVPPL are complying with all applicable conditions stipulated by respective competent statutory authorities.
8	Tarring /multiple options on the access roads shall be undertaken so as to reduce dust pollution during movement of vehicle.	Complied AVPPL have developed a tar road of around 0.9 km from 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 data-bbox="751 853 1430 1637" data-label="Image"> </div> <p style="text-align: center;">Tar Road at Project Site</p>
9	Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions	Not Applicable The quarry has been mined earlier by another party and is an already open mine. There is no top soil or overburden available in the quarry. The produced materials are all used for Breakwater Construction at Vizhinjam Port and therefore there is no requirement of dump sites.
10	Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is	Being Complied As per the approved mining plan, bench height and width need to be maintained at maximum

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	no mention in the mining plan/specific condition.	of 6.0 m also a 45° pit slope will be maintained; same is being adhered to.
11	Ground level should be fixed in individual cases separately	Complied For every bench, ground level is fixed in MSL as individual cases separately. Surface plan with MSL levels is provided in the Approved Mining Plan. Approved Mining Plan was submitted along with HYCR for the period April 2019 to September 2019.
12	No mining operations should be carried out at places having a slope greater than 45.	Being Complied No Mining operations are being carried out at places having a slope greater than a 45 degrees angle.
13	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB. This condition is applicable only in such cases if a crusher is adjacent to the quarry	Not Applicable There is no crusher adjacent to the quarry and the same is not proposed.
14	The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.	Being Complied All employees are provided with relevant Personal Protective Equipment (PPEs) like Helmets, Shoes, Fluorescent Reflective Jackets, etc. 
		Employees with PPEs
15	Garland drains with clarifiers to be provided in the lower slopes around the core area to	Will be Complied Mining operations are being carried out in the top level during the compliance period.

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	channelize storm water.	<p>However, garland drainage has been developed in the lower slopes to channelize storm water.</p>  <p>Garland Drain</p>
16	The transportation of minerals should be done in covered trucks to contain dust emissions. The proponent should plant trees at least 5 'times of: the loss: that has been occurred while clearing the land for the project. SEAC should assess the number of trees in each project site before the issuance of EC so as to ensure the promptness in, planting.	<p>Being Complied</p> <p>The transportation of minerals in trucks is being undertaken covered with tarpaulin cover.</p>  <p>Truck with Tarpaulin Cover</p>

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		Since this is an existing quarry which was already mined earlier, the quarry is in opened condition. There was no clearing of land for the project and no trees have been cut as there are no trees inside the lease area.
17	Explosives should be stored in magazines in isolated place specified and approved by Explosives Department	<p>Will be Complied</p> <p>As on date, explosives are being procured directly from the approved dealer and not being stored at the project site. However, magazine has been constructed in an isolated area called Chappath; which is 50 km away from the quarry location. Awaiting approval from the Trivandrum District Collector for storage of explosives in the magazine.</p> <p>AVPPL have obtained permission from Dy. Chief Controller of Explosives, Ernakulum to possess and use of the Explosives directly in our Quarry on the basis of Form 22 of Indian Explosives Act, 1884.</p>
18	A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.	<p>Complied</p> <p>As per the Government of Kerala (GoK) State Gazette Notification G.O. (P) No. 25/2017/ID dated 22.06.2017, permit holder shall not carry on or allow to be carried on any quarrying operations at or to any points within a distance of 50 m from any residential buildings or from the nearest dwelling unit or other structures.</p> <p>Also, as per the Consent to Operate (CTO) obtained from KSPCB, quarrying activities are restricted to a distance more than 50 m from the nearby residential buildings.</p> <p>Further, DMG had communicated to SEIAA vide its letter No. 9363/M3/2018 dated 23.03.2019 (A copy of the letter was submitted along with the HYCR for the period October 2019 to March 2020) that as per Rule 40 1(i) of the KMMC Rules, the lessee is permitted to carry out mining at a distance of 50 m from the residential houses.</p> <p>As per the map prepared by the village officer, the nearest house is ~60 m from the boundary</p>

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Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2020 to September 2020		
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		of the quarry.
19	50 m buffer distance should be maintained from forest boundaries.	Not Applicable There are no forests in the vicinity of the project site.
20	Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.	Complied CTO has been obtained from Kerala State Pollution Control Board (KSPCB) vide Consent No. PCB/TVM-DO/ICO/QRY/103/2019 dated 05.03.2019 valid up to 27.02.2021. A copy of the same was submitted along with HYCR for the period April 2019 to September 2019.
21	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	Complied AVPPL have obtained all applicable statutory clearances from the respective competent authorities. The following clearances have been obtained: <ul style="list-style-type: none"> Govt. Land No Objection Certificate (NoC) from Trivandrum District Collector vide Letter No. B7-40269/2017 dated 30.04.2018 Letter of Intent from DMG vide Letter No. 9363/M3/2018 dated 04.09.2018 CTO has been obtained from KSPCB vide Consent No. PCB/TVM-DO/ICO/QRY/103/2019 dated 05.03.2019 valid up to 27.02.2021 Purchase and Use of Explosives Approval from Petroleum & Explosives Safety Organization (PESO), Ernakulam vide Letter No. E/Misc/Expl dated 27.03.2019 Dangerous and Offensive Trade (D&O) License from Nagaroor Gram Panchayat vide License Number A2.1836\2019 dated 01.04.2019 NoC for Use of Explosives from District Collector, Thiruvananthapuram vide File No.DCTVM/2436/2019-A17 dated 09.05.2019 Approved Mining Plan by District Geologist, Trivandrum vide Letter No. 1716/DOT/ML/18 dated 20.05.2019 Lease Order from DMG vide Letter No. 9363/M3/2018 dated 20.05.2019 Lease Execution from Additional Director of

	Adani Vizhinjam Port Private Limited (AVPPL)	From: April 2020 To: September 2020
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Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2020 to September 2020		
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		<p>Mining and Geology vide Letter No. 79/2019-20/9363/M3/2018/DMG dated 20.05.2019</p> <ul style="list-style-type: none"> Quarrying Lease Registration Agreement in Form H at Chirayinkeezhu Register Office dated 22.05.2019 <p>Copies of the above mentioned approvals were submitted along with HYCR for the period April 2019 to September 2019.</p>
22	In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which only the E.C is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority	Noted for Compliance
23	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted
24	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection)	Noted

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	Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	
25	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.	<p>Complied</p> <p>EC for the project was issued on 01.03.2019. Advertisements, that the project has been accorded EC were published within 10 (Ten) days in two widely circulated local newspapers: The Hindu (English) on 09.03.2019 and Mathrubhumi (Malayalam – vernacular language) on 10.03.2019. Also, copy of the EC is available with the SEIAA office and it is also available on the website of the Authority at www.seiaakerala.in. Screenshot of the website showing the details of the EC was submitted along with HYCR for the period October 2019 to March 2020.</p> <p>Extracts of these newspaper clippings with the advertisements were submitted along with HYCR for the period April 2019 to September 2019.</p> <p>Copy of the advertisements signed on all pages were submitted to SEIAA vide Letter No. AVPPL/SEIAA/2019-20/731 dated 01.04.2019 was submitted along with HYCR for the period April 2019 to September 2019.</p> <p>The copy of EC is uploaded to the company website: https://www.adaniports.com/ports-downloads?port=Vizhinjam-Port Screenshot of the same was submitted along with HYCR for the period April 2019 to September 2019.</p>
26	The Environmental Clearance shall be put on the website of the company by the proponent.	<p>Complied</p> <p>The copy of EC is uploaded to the company website: https://www.adaniports.com/ports-downloads?port=Vizhinjam-Port Screenshot of the same was submitted along with HYCR for the period April 2019 to September 2019.</p>
27	Proponent shall submit half yearly reports in soft copy and SEIAA will upload it on the	<p>Will be Complied</p> <p>HYCRs on the status of compliance of the stipulated clearance conditions are being</p>

adani	Adani Vizhinjam Port Private Limited (AVPPL)	From: April 2020 To: September 2020
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	website.	submitted to all the concerned agencies. As per the Notification of Ministry of Environment and Forests & Climate Change (MoEF&CC) dated 26.11.2018, wherein submission of HYCRs by email/soft copy is declared acceptable, soft copy of HYCR for the period October 2019 to March 2020 has been submitted vide email dated 14.05.2020 (a copy of the email is enclosed as Annexure 1).
28	The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public	Complied The details of EC have been displayed at the site next to the entrance of the quarry, visible to the public. <div data-bbox="748 987 1425 1713" data-label="Image"> </div>
29	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	Complied AVPPL have submitted Notarized Affidavit dated 03.04.2019 to SEIAA stating that all the conditions stipulated in the EC shall be scrupulously followed. Copy of the affidavit and the cover letter vide No. AVPPL/SEIAA/2019-20/731 dated 01.04.2019 have been submitted along with HYCR for the period April 2019 to September 2019.

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30	No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable	Noted for Compliance
31	The Project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.	Not Applicable There are no natural water courses and/or water resources of first order streams in and around the mine lease area.
32	The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	Not Applicable The quarry has been mined earlier by other parties and is an already open mine. There is no top soil or overburden available in the quarry. The produced materials are all used for Breakwater Construction at Vizhinjam Port and therefore there is no requirement of dump sites.
33	Catch drains and siltation ponds of appropriate size shall be constructed around the mine	Will be Complied The quarry has been mined earlier by other parties and is an already open mine and hence

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


Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2020 to September 2020																											
S. No.	Conditions	Compliance Status as on September 30, 2020																									
	working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies: 'The water so-collected should be utilized for watering the mine area, roads, green belt development. etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	<p>there is no top soil or overburden available in the quarry. Also, there are no mineral dumps since all the produced materials are used for Breakwater Construction at Vizhinjam Port. Therefore, catch drains for prevention of run-off is not required at the project site.</p> <p>However, siltation pond of appropriate size will be created by constructing a check dam (up to 10m X 1.5m size) at the bottom of the Quarry area to prevent run-off of water and flow of sediments. The water so collected will be utilized for watering the mine area, roads, greenbelt development, etc.</p> <p>The drains will be regularly desilted particularly after monsoon and maintained properly.</p>																									
34	Effective safeguard measures such as- regular water sprinkling shall be carried out in critical areas prone to air pollution and having' high levels. 'of PM 10, and PM 2.5, such as haul Road, loading and unloading points and transfer points— it shall 'be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard	<p>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. Standards Environmental & Analytical Laboratories. Summary of the Ambient Air Quality Monitoring (AAQM) during the compliance period at 5 monitoring locations is mentioned below.</p> <table><tr><th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit</th></tr><tr><td>PM₁₀</td><td>µg/m³</td><td>73.5</td><td>34.8</td><td>100</td></tr><tr><td>PM_{2.5}</td><td>µg/m³</td><td>45.2</td><td>16.3</td><td>60</td></tr><tr><td>SO₂</td><td>µg/m³</td><td>2.84</td><td>BDL</td><td>80</td></tr><tr><td>NO₂</td><td>µg/m³</td><td>4.89</td><td>BDL</td><td>80</td></tr></table> <p>The Ambient Air Quality Monitoring Report is enclosed as Annexure 2. All the monitored parameters were found within the prescribed limits.</p>	Parameter	Unit	Max	Min	Perm. Limit	PM ₁₀	µg/m ³	73.5	34.8	100	PM _{2.5}	µg/m ³	45.2	16.3	60	SO ₂	µg/m ³	2.84	BDL	80	NO ₂	µg/m ³	4.89	BDL	80
Parameter	Unit	Max	Min	Perm. Limit																							
PM ₁₀	µg/m ³	73.5	34.8	100																							
PM _{2.5}	µg/m ³	45.2	16.3	60																							
SO ₂	µg/m ³	2.84	BDL	80																							
NO ₂	µg/m ³	4.89	BDL	80																							

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

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2020 to September 2020														
S. No.	Conditions	Compliance Status as on September 30, 2020												
35	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained	<p>Being Complied</p> <p>AVPPL have developed a tar road of around 0.9 km from Kadavilla Junction to the quarry project site gate for movement of vehicles; thereby reducing the dust pollution.</p> <p>Also, regular water sprinkling through water tankers on haul road and other dust prone areas such as loading and unloading of minerals is being carried out.</p>												
36	Measures should be taken for control of noise levels below 85 dBA in the work environment.	<p>Being Complied</p> <p>The following measures are being taken for the control of noise levels:</p> <ul style="list-style-type: none"> • Drilling: The good captive silencers are being used in drilling equipment. • Blasting: AVPPL is using NONEL method - bottom initiation to reduce the noise of blasting. • Machineries & Tippers: It is ensured that equipment's are fitted with effective silencers, mufflers, acoustic linings, or shields, as necessary. • It is ensured that vehicles transporting the materials follow the speed limit in order 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 and MoEF&CC accredited laboratory; M/s. Metamorphosis laboratory Private Limited as per Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1)) at 5 locations. Summary of the Ambient Noise Monitoring during the compliance period at 5 monitoring locations is mentioned below:</p> <table border="1"> <thead> <tr> <th>Location</th><th>L_{eq} Day time</th><th>L_{eq} Night time</th></tr> </thead> <tbody> <tr> <td>Quarry Area (Project Site)</td><td>48.5</td><td>38.2</td></tr> <tr> <td>Near Operators Rest Room (North Side)</td><td>47.7</td><td>36.9</td></tr> <tr> <td>Vanchiyoor UP School (West Side)</td><td>44.5</td><td>34.0</td></tr> </tbody> </table>	Location	L _{eq} Day time	L _{eq} Night time	Quarry Area (Project Site)	48.5	38.2	Near Operators Rest Room (North Side)	47.7	36.9	Vanchiyoor UP School (West Side)	44.5	34.0
Location	L _{eq} Day time	L _{eq} Night time												
Quarry Area (Project Site)	48.5	38.2												
Near Operators Rest Room (North Side)	47.7	36.9												
Vanchiyoor UP School (West Side)	44.5	34.0												

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

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2020 to September 2020				
S. No.	Conditions	Compliance Status as on September 30, 2020		
		St. Joseph of Cluny Public School (South Side)	45.0	35.5
		Viswanadhapuram Shiva Temple (East Side)	40.3	34.2
		The results obtained were compared with Noise Pollution (Regulation & Control) Rule, 2000 (Rule 3(1) and 4(1)) and it is observed that the noise readings were within limits at all monitoring locations. The Noise Monitoring report is enclosed as Annexure 3 .		
37	The funds earmarked for environmental protection measures and CER activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.	Being Complied AVPPL has entered into a Concession Agreement with GoK for the construction and operation of Vizhinjam Port whereby it is mandated under Article 32 (copy submitted along with HYCR for the period April 2019 to September 2019) that an Escrow Account has to be opened by AVPPL. All deposits have to be made into this account and all payments have to be routed through this account for the construction of the port. This account is directly under the monitoring of both the Central and State governments through the Senior Lenders. Therefore, it is requested that the provision of opening of separate account be absolved as there will be a direct contradiction to the Concession Agreement. As the owner of the quarry, AVPPL guarantees that the amount of Rs. 15.00 Lakhs earmarked for CER and funds earmarked for environmental protection measures will be kept as a balance in the current Escrow Account. Furthermore, as provided above the account will be monitored by the government. Year wise expenditure for CER and environmental protection measures is enclosed as Annexure 4 .		
38	The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The	Will be Complied All necessary support will be extended to the Regional Office of MoEF&CC located at Bangalore for the monitoring of the compliance		

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

Half Yearly Compliance Report (HYCR) on Conditions Stipulated in Environmental Clearance (EC) Order No. 1200/EC2/2018/SEIAA dated 01.03.2019 for the Period April 2020 to September 2020		
S. No.	Conditions	Compliance Status as on September 30, 2020
	project authorities should extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data/information/monitoring reports.	of the stipulated conditions Office by furnishing the requisite data/information/monitoring reports.
39	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted
40	Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
41	The SEIAA may revoke or suspend the order, for non-implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection	Noted
42	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	Noted
43	The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or	Noted

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

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

S. No.	Conditions	Compliance Status as on September 30, 2020
	project, in any court of law.	
44	The mining operation shall be restricted to above ground water table and it should not intersect ground water table	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 top most working level is about 106 m above MSL and the lowest working level is 70 m above MSL. The total depth will be 36 m. Therefore, mining operations will be restricted to workings at a higher level at the quarry and will not touch the ground water table.
45	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area	Complied It is ensured that all vehicles used for transportation are having valid Pollution Under Control (PuC) certificate from authorized center.

POLLUTION UNDER CONTROL CERTIFICATE
Under rule 115(7) of CMV Rules 1989

Registration No.	KL40H9597	Serial No.	~ 132015999
Date of Testing	13/Aug/2020	Time	6:28:04 PM
Engine No.	101918	Year of Manufacture	8/13/2013
Make	Ashok Leyland Ltd	Speedometer Reading	212696
Class of Vehicle	TRUCK	Fuel	DIESEL

Flash into Cycle			
Ave. RPM	Min. RPM	Temp.	HSU %
330	2660	255	
S.No.	RPM	Min. RPM	K m ³ /h
1	647	2622	100
2	1001	2644	100
3	1064	2600	107
Mean	Pass	1.88	37.3
Avg. RPM	Avg. R	Mean I	Mean I
330	2660	1.09	37.3
Presc. Pres. I		2.45	65

Date of: 13/Aug/2020

KL40H.9597

Time on: 6:28:01 PM

AUL INDIA PVT. LTD.

Certified that this CO Emission Level conforms to the standards prescribed under Rule 115(2) of CMV Rules 1989. this certificate is valid up to 12/Feb/2021

CENRAL
AUTO MOBILE POLLUTION TESTING CENTER
NEAR PUBLIC LIBRARY, KOTTIYAM, KOLLAM, KERALA
Lic. No. G2/11/2004/Q-PH: 9447193783

Upper Limit of Carbon Monoxide (percentage of volume) in petrol vehicles and smoke density (in Hat ridge Unit) in Diesel vehicles are as follows:-
DIESEL Other than Agricultural Tractors at 80-70% of maximum engine rated RPM declared by manufacturer - Light absorption coefficient (K): 2.45 and Hat ridge Units (HSU): 65
DIESEL Agricultural Tractors: 80% load corresponding to maximum power developed in PTO performance tests - Light Absorption Coefficient (K): 3.25 and Hat ridge Units (HSU): 75

(Name of the Authorised signatory) (Seal) Signature


PuC Certificate

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

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

S. No.	Conditions	Compliance Status as on September 30, 2020
46	Project proponent should obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project	Not Applicable AVPPL are not withdrawing the surface water or ground water for any purposes.
47	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA	Not Applicable There are no springs and perennial nallahs flowing upstream and downstream of the mine lease area as there are no water courses and/or water resources of first order streams in and around the mine lease area.
48	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed	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. <div data-bbox="748 1234 1423 1912" data-label="Form"> <p align="center">MEDICAL CERTIFICATE OF FITNESS</p> <p>I have examined Shri / Kumari / Smt. <u>Chandran Selvanaj</u> Son / Daughter - of Shri <u>Selvanaj Vagannar</u> aged <u>16</u> <u>16</u> Years, of Village: <u>Vagannar</u> P.O. <u>Vagannar</u> Dist. <u>Kannur</u> State <u>Kerala</u> PIN <u>625523</u> and certify that, he / she is free from deafness, defective vision (including colour vision) or any other infirmity, mental or physical, likely to interfere with the efficiency of his / her work and found him / her possessing good health.</p> <p>This certificate is being given to him / her for the purpose of <u>fit for the job</u></p> <p>Signature of Candidate <u>[Signature]</u> (To be signed in presence of the Medical Officer)</p> <p>Signature of Medical Officer: <u>[Signature]</u> Name of Medical Officer: Dr. <u>Tresa Shipi</u> Registration No. <u>65558</u></p> <p align="right">Dr. Tresa Shipi M.B.B.S. Reg. No: 65558 Karunya Hospital Seelargoor</p> <p>Dated: <u>10/09/20</u></p> <p><small>Note: Medical certificate granted by a qualified medical practitioner holding at least M.B.B.S. Degree and registered with Medical Council of India, shall only be valid. The date of issue of the medical certificate should be within one year from the date of application.</small></p> </div>

Medical Health Fitness Certificate

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

Enclosures:

Annexure Number	Details of Annexure
Annexure 1:	Email Submission of HYCR for the period October 2019 to March 2020
Annexure 2:	AAQM Report
Annexure 3:	Noise Monitoring Report
Annexure 4:	CER and EMP Expenditure Statements

**Annexure 1: Email Submission of HYCR
for the period October 2019 to March
2020**

Jesse Benjamin Fullonton

From: Rajesh Kumar Jha
Sent: Thursday, 14 May, 2020 04:44 PM
To: rosz.bng-mefcc@gov.in
Cc: seacseiaakerala@gmail.com; Shalin Shah; Manoranjan Tripathy; Harsh Yadav; Hebin Chenthamarakshan; Jesse Benjamin Fullonton
Subject: EC No. 1200/EC2/2018/SEIAA dated 01.03.2019 - Half Yearly Compliance Report - Oct 2019 to Mar 2020 - Reg.
Attachments: EC No.1200_EC2_2018_SEIAA dated 01.03.2019-Half Yealy Compliance Report-Oct19-Mar20.pdf

Dear Sir/Madam,

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

The Half Yearly Compliance Report (HYCR) of the conditions stipulated in the EC for the period **October 2019 to March 2020** is attached; for record and reference please.

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

Thanks & Regards,

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

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



Growth
with
Goodness

Our Values: Courage | Trust | Commitment



Annexure 2: AAQM Report

TEST REPORT

ULR No:TC540220000002213F	Date: 05.10.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Adani Vizhinjam Port PVt Ltd. Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.	
Location of Site	Re - Survey No	555/2 Block No.37	
	Village	Nagaroor	
	Taluk	Chirayinkeezhu	
	District	Thiruvananthapuram	
	State	Kerala	
Customer Reference		Test Request Form dated 26.09.2020	
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	EN20090256
Location of Monitoring	Project Site	Sampled by	Laboratory
Date of Monitoring	26.09.2020	Test Started on	28.09.2020
Sample Received on	28.09.2020	Test Completed on	04.10.2020
Humidity	75 %	Sampling Procedure	SEAAL/ENL/GEN/SOP/02
Location and Coordinates	Monitoring Location	Project Site	
	Latitude	N 08° 43'42.4"	
	Longitude	E 76° 50'16.6"	

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	69.7	100 (Max)
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix – L	µg/m ³	43.4	60.0 (Max)
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	< 2.00	80.0 (Max)
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	< 2.00	80.0 (Max)

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

End of Report



For and on behalf of
Standard^S Environmental & Analytical Laboratories

Authorized Signatory
Laiju P. N.
Laboratory Head

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

Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB

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

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

TEST REPORT

ULR No:TC540220000002214F	Date: 05.10.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Adani Vizhinjam Port PVt Ltd. Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.	
Location of Site	Re - Survey No	555/2 Block No.37	
	Village	Nagaroor	
	Taluk	Chirayinkeezhu	
	District	Thiruvananthapuram	
	State	Kerala	
Customer Reference		Test Request Form dated 26.09.2020	
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	EN20090257
Location of Monitoring	Near Operators Rest Room - North Side	Sampled by	Laboratory
Date of Monitoring	26.09.2020	Test Started on	28.09.2020
Sample Received on	28.09.2020	Test Completed on	04.10.2020
Humidity	75 %	Sampling Procedure	SEAAL/ENL/GEN/SOP/02
Location and Coordinates	Monitoring Location	Near Operators Rest Room - North Side	
	Latitude	N 08° 43'47.9"	
	Longitude	E 76° 50'12.6"	

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	73.5	100 (Max)
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	45.2	60.0 (Max)
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	< 2.00	80.0 (Max)
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	< 2.00	80.0 (Max)

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

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories



Authorized Signatory
Lalju P. N.
Laboratory Head

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Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB

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

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

TEST REPORT

ULR No:TC540220000002215F	Date: 05.10.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Adani Vizhinjam Port Pvt Ltd. Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.	
Location of Site	Re - Survey No	555/2 Block No.37	
	Village	Nagaroor	
	Taluk	Chirayinkeezhu	
	District	Thiruvananthapuram	
	State	Kerala	
Customer Reference	Test Request Form dated 26.09.2020		
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	EN20090258
Location of Monitoring	Vanchiyoor UP School - West Side	Sampled by	Laboratory
Date of Monitoring	26.09.2020	Test Started on	28.09.2020
Sample Received on	28.09.2020	Test Completed on	04.10.2020
Humidity	75 %	Sampling Procedure	SEAAL/ENL/GEN/SOP/02
Location and Coordinates	Monitoring Location	Vanchiyoor UP School - West Side	
	Latitude	N 08° 43'17.3"	
	Longitude	E 76° 50'08.1"	

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	34.8	100 (Max)
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	17.1	60.0 (Max)
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	2.64	80.0 (Max)
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	4.89	80.0 (Max)

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

End of Report



For and on behalf of
Standard^S Environmental & Analytical Laboratories

Authorized Signatory
Laiju P. N.
Laboratory Head

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Standard^S Environmental & Analytical Laboratories

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

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

TEST REPORT

ULR No:TC540220000002216F	Date: 05.10.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Adani Vizhinjam Port PVt Ltd. Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.	
Location of Site	Re - Survey No	555/2	Block No.37
	Village	Nagaroor	
	Taluk	Chirayinkeezhu	
	District	Thiruvananthapuram	
	State	Kerala	
Customer Reference		Test Request Form dated 26.09.2020	
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	EN20090259
Location of Monitoring	ST Joseph of Cluny Public School - South side	Sampled by	Laboratory
Date of Monitoring	26.09.2020	Test Started on	28.09.2020
Sample Received on	28.09.2020	Test Completed on	04.10.2020
Humidity	75 %	Sampling Procedure	SEAAL/ENL/GEN/SOP/02
Location and Coordinates	Monitoring Location	ST Joseph of Cluny Public School - South side	
	Latitude	N 08° 43'35.1"	
	Longitude	E 76° 50'48.4"	

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	39.6	100 (Max)
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	16.9	60.0 (Max)
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	2.41	80.0 (Max)
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	3.98	80.0 (Max)

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

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories



Authorized Signatory
[Signature]
Laju P.N.
Laboratory Head

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Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB

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TEST REPORT

ULR No:TC540220000002217F	Date: 05.10.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Adani Vizhinjam Port Pvt Ltd. Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.	
Location of Site	Re - Survey No	555/2 Block No.37	
	Village	Nagaroor	
	Taluk	Chirayinkeezhu	
	District	Thiruvananthapuram	
	State	Kerala	
Customer Reference	Test Request Form dated 26.09.2020		
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	EN20090260
Location of Monitoring	Viswanadhapuram Shiva Temple - East Side	Sampled by	Laboratory
Date of Monitoring	26.09.2020	Test Started on	28.09.2020
Sample Received on	28.09.2020	Test Completed on	04.10.2020
Humidity	75 %	Sampling Procedure	SEAAL/ENL/GEN/SOP/02
Location and Coordinates	Monitoring Location	Viswanadhapuram Shiva Temple - East Side	
	Latitude	N 08° 44'09.7"	
	Longitude	E 76° 50'18.4"	

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	36.8	100 (Max)
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	16.3	60.0 (Max)
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	2.84	80.0 (Max)
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	4.39	80.0 (Max)

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

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories



Authorized Signatory
Laboratory Head

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Annexure 3: Noise Monitoring Report

ULR No:TC540220000002218F

Date: 05.10.2020

Page 1 of 1

CUSTOMER DETAILS		
Customer Details	Name & Address	M/s Adani Vizhinjam Port Pvt Ltd. Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Location of Site	Re - Survey No	555/2 Block No.37
	Village	Nagaroor
	Taluk	Chirayinkeezhu
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	Test Request Form dated 26.09.2020	
SAMPLE DETAILS		
Source of Sample		Ambient Sound Level
Sample Code		EN20090261
Location of Monitoring		Project Site
Date of Monitoring		26.09.2020
Method		IS 9989:1981 RA:2008
Location and Coordinates	Monitoring Location	Project Site
	Latitude	N 08° 43'41.5"
	Longitude	E 76° 50'16.9"

DAYTIME	RESULT	NIGHTTIME	RESULT	
06.00 Hrs	37.3 dB (A)	22.00 Hrs	36.2 dB (A)	
07.00 Hrs	40.0 dB (A)	23.00 Hrs	35.3 dB (A)	
08.00 Hrs	44.3 dB (A)	00.00 Hrs	37.9 dB (A)	
09.00 Hrs	47.7 dB (A)	01.00 Hrs	38.6 dB (A)	
10.00 Hrs	50.1 dB (A)	02.00 Hrs	38.2 dB (A)	
11.00 Hrs	53.1 dB (A)	03.00 Hrs	38.9 dB (A)	
12.00 Hrs	50.4 dB (A)	04.00 Hrs	37.9 dB (A)	
13.00 Hrs	49.7 dB (A)	05.00 Hrs	39.7 dB (A)	
14.00 Hrs	50.1 dB (A)	RESULTS		NAAQ Standards (Residential Area)
15.00 Hrs	50.4 dB (A)			
16.00 Hrs	51.6 dB (A)	Noise Level (Leq) Daytime	48.5 dB (A)	55 dB (A)
17.00 Hrs	52.0 dB (A)			
18.00 Hrs	46.6 dB (A)			
19.00 Hrs	43.1 dB (A)	Noise Level (Leq) Nighttime	38.2 dB (A)	45 dB (A)
20.00 Hrs	39.3 dB (A)			
21.00 Hrs	38.8 dB (A)			

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

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Laiju P. N.
Laboratory Head

Authorized Signatory

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ULR No:TC540220000002219F	Date: 05.10.2020	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	M/s Adani Vizhinjam Port Pvt Ltd. Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Location of Site	Re - Survey No	555/2 Block No.37
	Village	Nagaroor
	Taluk	Chirayinkeezhu
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	Test Request Form dated 26.09.2020	
SAMPLE DETAILS		
Source of Sample	Ambient Sound Level	
Sample Code	EN20090262	
Location of Monitoring	Near Operators Rest Room North Side	
Date of Monitoring	26.09.2020	
Method	IS 9989:1981 RA:2008	
Location and Coordinates	Monitoring Location	Near Operators Rest Room North Side
	Latitude	N 08° 43'47.9"
	Longitude	E 76° 50'12.5"

DAYTIME	RESULT	NIGHTTIME	RESULT	
06.00 Hrs	36.8 dB (A)	22.00 Hrs	35.6 dB (A)	
07.00 Hrs	39.4 dB (A)	23.00 Hrs	34.0 dB (A)	
08.00 Hrs	43.6 dB (A)	00.00 Hrs	36.5 dB (A)	
09.00 Hrs	47.0 dB (A)	01.00 Hrs	37.2 dB (A)	
10.00 Hrs	49.3 dB (A)	02.00 Hrs	36.9 dB (A)	
11.00 Hrs	52.3 dB (A)	03.00 Hrs	37.6 dB (A)	
12.00 Hrs	49.6 dB (A)	04.00 Hrs	36.5 dB (A)	
13.00 Hrs	48.9 dB (A)	05.00 Hrs	38.3 dB (A)	
14.00 Hrs	49.3 dB (A)	RESULTS		NAAQ Standards (Residential Area)
15.00 Hrs	49.6 dB (A)			
16.00 Hrs	50.8 dB (A)	Noise Level (Leq) Daytime	47.7 dB (A)	55 dB (A)
17.00 Hrs	51.2 dB (A)			
18.00 Hrs	45.9 dB (A)			
19.00 Hrs	42.4 dB (A)	Noise Level (Leq) Nighttime	36.9 dB (A)	45 dB (A)
20.00 Hrs	38.7 dB (A)			
21.00 Hrs	38.2 dB (A)			

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

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Laiju P. N.
Laboratory Head

Authorized Signatory

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ULR No:TC540220000002220F

Date: 05.10.2020

Page 1 of 1

CUSTOMER DETAILS

Customer Details	Name & Address	M/s Adani Vizhinjam Port Pvt Ltd. Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Location of Site	Re - Survey No	555/2 Block No.37
	Village	Nagaroor
	Taluk	Chirayinkeezhu
	District	Thiruvananthapuram
	State	Kerala
Customer Reference		Test Request Form dated 26.09.2020
SAMPLE DETAILS		
Source of Sample		Ambient Sound Level
Sample Code		EN20090263
Location of Monitoring		Vanchiyoor UP School - West Side
Date of Monitoring		26.09.2020
Method		IS 9989:1981 RA:2008
Location and Coordinates	Monitoring Location	Vanchiyoor UP School - West Side
	Latitude	N 08° 43'16.5"
	Longitude	E 76° 50'11.1"

DAYTIME	RESULT	NIGHTTIME	RESULT	
06.00 Hrs	34.3 dB (A)	22.00 Hrs	33.3 dB (A)	
07.00 Hrs	36.8 dB (A)	23.00 Hrs	31.4 dB (A)	
08.00 Hrs	40.7 dB (A)	00.00 Hrs	33.7 dB (A)	
09.00 Hrs	43.9 dB (A)	01.00 Hrs	34.3 dB (A)	
10.00 Hrs	46.0 dB (A)	02.00 Hrs	34.0 dB (A)	
11.00 Hrs	48.9 dB (A)	03.00 Hrs	34.7 dB (A)	
12.00 Hrs	46.4 dB (A)	04.00 Hrs	33.7 dB (A)	
13.00 Hrs	45.7 dB (A)	05.00 Hrs	35.3 dB (A)	
14.00 Hrs	46.0 dB (A)	RESULTS		NAAQ Standards (Residential Area)
15.00 Hrs	46.4 dB (A)			
16.00 Hrs	47.4 dB (A)	Noise Level (Leq) Daytime	44.5 dB (A)	55 dB (A)
17.00 Hrs	47.8 dB (A)			
18.00 Hrs	42.8 dB (A)			
19.00 Hrs	39.6 dB (A)	Noise Level (Leq) Nighttime	34.0 dB (A)	45 dB (A)
20.00 Hrs	36.1 dB (A)			
21.00 Hrs	35.7 dB (A)			

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

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Laiju P. N.
Laboratory Head

Authorized Signatory

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ULR No:TC540220000002221F

Date: 05.10.2020

Page 1 of 1

CUSTOMER DETAILS

Customer Details	Name & Address	M/s Adani Vizhinjam Port Pvt Ltd. Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Location of Site	Re - Survey No	555/2 Block No.37
	Village	Nagaroor
	Taluk	Chirayinkeezhu
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	Test Request Form dated 26.09.2020	
SAMPLE DETAILS		
Source of Sample	Ambient Sound Level	
Sample Code	EN20090264	
Location of Monitoring	ST: Joseph of Cluny Public School - South side	
Date of Monitoring	26.09.2020	
Method	IS 9989:1981 RA:2008	
Location and Coordinates	Monitoring Location	ST: Joseph of Cluny Public School - South side
	Latitude	N 08° 43'35.1"
	Longitude	E 76° 50'48.4"

DAYTIME	RESULT	NIGHTTIME	RESULT	
06.00 Hrs	34.7 dB (A)	22.00 Hrs	33.7 dB (A)	
07.00 Hrs	37.2 dB (A)	23.00 Hrs	32.8 dB (A)	
08.00 Hrs	41.2 dB (A)	00.00 Hrs	35.2 dB (A)	
09.00 Hrs	44.4 dB (A)	01.00 Hrs	35.8 dB (A)	
10.00 Hrs	46.5 dB (A)	02.00 Hrs	35.5 dB (A)	
11.00 Hrs	49.4 dB (A)	03.00 Hrs	36.2 dB (A)	
12.00 Hrs	46.9 dB (A)	04.00 Hrs	35.2 dB (A)	
13.00 Hrs	46.2 dB (A)	05.00 Hrs	36.8 dB (A)	
14.00 Hrs	46.5 dB (A)	RESULTS		NAAQ Standards (Residential Area)
15.00 Hrs	46.9 dB (A)			
16.00 Hrs	48.0 dB (A)	Noise Level (Leq) Daytime	45.0 dB (A)	55 dB (A)
17.00 Hrs	48.3 dB (A)			
18.00 Hrs	43.3 dB (A)			
19.00 Hrs	40.1 dB (A)	Noise Level (Leq) Nighttime	35.5 dB (A)	45 dB (A)
20.00 Hrs	36.5 dB (A)			
21.00 Hrs	36.1 dB (A)			

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

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Laiju P. N.
Laboratory Head

Authorized Signatory

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ULR No:TC540220000002222F

Date: 05.10.2020

Page 1 of 1

CUSTOMER DETAILS

Customer Details	Name & Address	M/s Adani Vizhinjam Port Pvt Ltd. Nagaroor, Chirayinkeezhu, Thiruvananthapuram District.
Location of Site	Re - Survey No	555/2 Block No.37
	Village	Nagaroor
	Taluk	Chirayinkeezhu
	District	Thiruvananthapuram
	State	Kerala
Customer Reference	Test Request Form dated 26.09.2020	

SAMPLE DETAILS

Source of Sample	Ambient Sound Level	
Sample Code	EN20090265	
Location of Monitoring	Viswanadhapuram Shiva Temple - East Side	
Date of Monitoring	26.09.2020	
Method	IS 9989:1981 RA:2008	
Location and Coordinates	Monitoring Location	Viswanadhapuram Shiva Temple - East Side
	Latitude	N 08° 44'09.7"
	Longitude	E 76° 50'18.4"

DAYTIME	RESULT	NIGHTTIME	RESULT	
06.00 Hrs	31.2 dB (A)	22.00 Hrs	30.3 dB (A)	
07.00 Hrs	33.5 dB (A)	23.00 Hrs	31.6 dB (A)	
08.00 Hrs	37.0 dB (A)	00.00 Hrs	33.9 dB (A)	
09.00 Hrs	39.9 dB (A)	01.00 Hrs	34.6 dB (A)	
10.00 Hrs	41.9 dB (A)	02.00 Hrs	34.2 dB (A)	
11.00 Hrs	44.4 dB (A)	03.00 Hrs	34.9 dB (A)	
12.00 Hrs	42.2 dB (A)	04.00 Hrs	33.9 dB (A)	
13.00 Hrs	41.5 dB (A)	05.00 Hrs	35.5 dB (A)	
14.00 Hrs	41.9 dB (A)	RESULTS		NAAQ Standards (Residential Area)
15.00 Hrs	42.2 dB (A)			
16.00 Hrs	43.1 dB (A)	Noise Level (Leq) Daytime	40.3 dB (A)	55 dB (A)
17.00 Hrs	43.5 dB (A)			
18.00 Hrs	39.0 dB (A)			
19.00 Hrs	36.1 dB (A)	Noise Level (Leq) Nighttime	34.2 dB (A)	45 dB (A)
20.00 Hrs	32.8 dB (A)			
21.00 Hrs	32.5 dB (A)			

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

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Laiju P. N.
Laboratory Head

Authorized Signatory

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Annexure 4: CER and EMP Expenditure Statements

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

Annexure 4

Expenditure Statement for CER and EMP:

S. No.	CER Activity	Expenditure (Rs. Lakhs)
FY 2020-2021 (till 30.09.2020)		
1.	Water Supply to Local Community	2.73
2.	Onam Kit (Groceries & Provisions) Distribution to BPL Families	1.80
3.	COVID-19 support	1.96
Cumulative Total till date		6.49

S. No.	EMP Expenditure	Expenditure (Rs. Lakhs)
FY 2019-2020		
1.	Water Sprinkling	3.45
2.	Environmental Monitoring	1.50
Sub-Total		4.95
FY 2020-2021 (till 30.09.2020)		
1.	Water Sprinkling	6.54
2.	Environmental Monitoring	0.40
Sub-Total		6.94
Cumulative Total till date		11.89

**Half Yearly Compliance Report (HYCR)
April 2020 to September 2020**

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



Adani Vizhinjam Port Private Ltd. (AVPPL)