



File No: AP MIN EC VS 04 2025 1340

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority(SEIAA),
ANDHRA PRADESH)



Dated 02/09/2025



To,

Anil Kumar Trivedi
ADANI GANGAVARAM PORT LIMITED
ADANI CORPORATE HOUSE Shantigram, Near Vaishnodevi circle, SG Highway,
Khodiyar,Ahmedabad, AHMADABAD, GUJARAT, 382421
environment.agpl@adani.com

Subject: Grant of EC under the provision of the EIA Notification 2006-regarding.

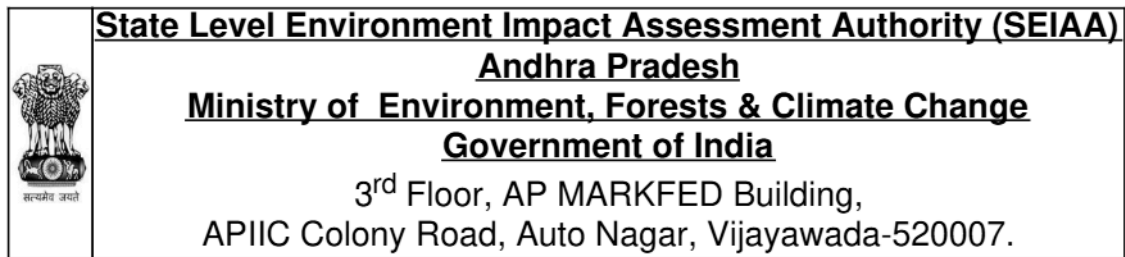
Sir/Madam,

This is in reference to your application for Grant of EC under the provision of the EIA Notification 2006-regarding in respect of project Adani Gangavaram Port Limited submitted to Ministry vide proposal number SIA/AP/MIN/531283/2025 dated 09/04/2025.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25C0108AP5449959N
(ii) File No.	AP MIN EC VS 04 2025 1340
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	Adani Gangavaram Port Limited
(viii) Name of Company/Organization	ADANI GANGAVARAM PORT LIMITED
(ix) Location of Project (District, State)	VISAKHAPATANAM, ANDHRA PRADESH
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions	no
(xii) Applicability of Specific Conditions	no

N/A



Order No. SEIAA/AP/MIN/EC/VS/04/2025/1340/269.45&269.21

Sub: SEIAA, A.P. – 2.024 Ha, Building Stone Mine of M/s Adani Gangavaram Port Limited at Old Sy No. 274, (New Sy No. 307) of Pedagantyada Village and Mandal, Visakhapatnam District, Andhra Pradesh – Environmental Clearance – Expansion - Issued – Reg.

- I. This has reference to your application submitted through online on 09.04.2025 (SIA/AP/MIN/544416/2025) and Clarification submitted on 25.07.2025, seeking Environmental Clearance for Expansion to the 2.024 Ha, Building Stone at Old Sy No. 274, (New Sy.No. 307) of Pedagantyada Village and Mandal, Visakhapatnam District, Andhra Pradesh in favour of M/s Adani Gangavaram Port Limited. It was reported that the nearest human habitation viz., Gangavaram (V) exists at a distance of about 0.61 km from the mine lease area. It was noted that the capital investment of the project is Rs. 67.0 Lakhs and capacity of the project is as follows:

**Expansion of Building Stone Mining from
 12,450 m³/annum to 1,88,226 m³/annum in 2.024 Ha**

- II. As seen from the Mining plan approved by the competent Government Authority the following two aspects are noted.

- i. The location of the mine is as follows:

BP. No	Latitude (N)	Longitude (E)
P1	17°38'18.7"N	83°14'16.9"E
P2	17°38'17.7"N	83°14'18.3"E
P3	17°38'12.1"N	83°14'13.4"E
P4	17°38'14.6"N	83°14'9.8"E

- ii. It is an open cast Semi-mechanized mine. Life of the Mine is 3 years. The total mine lease area is 2.024 Ha.

The proposal has been examined and processed in accordance with EIA

Notification, 2006 and its amendments thereof. The State Level Expert Appraisal Committee (SEAC) examined the application, in its meeting held on **30.07.2025**.

Minutes of SEAC Meeting:

Category: B2.

The proposed project is for enhancement mining of Building Stone in an area of 2.024 Ha. with a proposed production quantity of Building Stone – from 12,450 m³/annum to 1,88,226 m³/annum with a condition that the total production during a scheme should be limited to the approved quantity as per Mining scheme/ plan.

The proposed project falls under Item No. 1(a) of the schedule of the EIA Notification 2006 and its amendments thereof - (i). Mining of minerals (≤ 250 ha of mining lease area in respect of non-coal mine lease).

The project proponent and their consultant, M/s. SV Enviro Labs & Consultants have attended the meeting and presented their proposal. The SEAC Committee noted that:

- a. The SEIAA, A.P vide order dt. 29.07.2021 issued Environmental clearance to M/s. Gangavaram Port Limited., for mining of Rough Stone 12450 m³/annum.
- b. The SEIAA, A.P vide order dt. 13.02.2025 transferred EC order in the name of M/s. Adani Gangavaram Port Limited.
- c. Now, the project proponent applied for Expansion of Environmental clearance.
- d. "The committee noted that, as per the Office Memorandum dated 08.06.2022, submission of a Certified Compliance Report (CCR) is mandatory for existing projects undergoing expansion. Hence, committee directed PP to submit CCR.
- e. The Committee after examining the project proposals, presentations, mining plan, MoEF&CC Notifications & OMs and detailed deliberations, recommended to raise ADS for CCR Report.
- f. Accordingly, the PP submitted ADS reply and again, proposal is placed in 269th SEAC meeting. The committee noted that:
 - The Project Proponent (PP), vide letter dated 27.06.2025, submitted a certified compliance report issued by the Integrated Regional Office (IRO), Vijayawada.
- g. The Department of Mines and Geology issued Transfer of work order vide order dt. 03.10.2024, which is valid upto 05.03.2029.
- h. The Committee noted that as per the cluster letter dt. 06.12.2024

issued by the Department of Mines & Geology, there are no existing quarry leases within the radius of 500 mtrs area. The total applicable cluster area is < 5.0 Ha.

- i. As per the approved mining scheme dt. 19.09.2024, the total available mineral reserves are 5,64,680.8322 m³. The proponent proposed to excavate Building Stone –1,88,226 m³/annum. The Life of the mine is 3 years.
- j. The Department of Mines and Geology vide letter dt. 01.10.2024 issued production and dispatch details letter and permits are within limits only.
- ii. The project proponent informed that they have allocated Rs. 4.18 Lakhs as capital cost and Rs. 4.97 Lakhs as a recurring cost budget for the EMP. The proponent volunteered to provide **2 lakhs** as a part of Corporate Social Responsibility (CSR) activity and shall maintain till the life of the mine.

The project proposals, presentations, mining plan, MoEF&CC Notifications & OMs and detailed deliberations, recommended SEIAA to issue Environmental Clearance expansion for the mining of Building Stone – from 12,450 m³/annum to 1,88,226 m³/annum over a period of 3 years, covering an area of 2.024 hectares, in favour of M/s. Adani Gangavaram Port Limited, at Old Sy No. 274, (New Sy No. 307) Pedagantyada Village and Mandal, Visakhapatnam District. The recommendation is subject to the following additional conditions:

1. The project proponent shall comply with the proposals furnished in the Environmental management plan.
2. The project proponent shall develop greenbelt along approach roads & village Roads.
3. The project proponent shall maintain 7.5mt greenbelt in buffer zone and existing buffer zone plantation should not be disturbed.
4. The proponent shall take dust suppression measures to meet the CPCB stipulated ambient air quality standards at any point of time.
5. The proponent shall carryout suppression of dust generated due to transport vehicles by continuous water spraying using tankers.
6. The vehicles carrying the mines material shall be covered with tarpaulin during vehicular movement.
7. The project proponent shall not use village road/ canal bund roads for mineral transportation purpose.
8. The project proponent shall restrict vehicles movement during the peak hours to avoid accidents.

9. The project proponent shall restrict the load of the transport vehicles not more than 21 tons to avoid road damages and dust nuisance to surroundings.
10. The Project Proponent (PP) shall regularly upload the half-yearly compliance reports.
11. The PP shall complete the entire greenbelt development within the first year itself and ensure its maintenance throughout the lease period.

The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on **22.08.2025** examined the proposal and the recommendations of SEAC and **decided to accept SEAC recommendations aforesaid for strict compliance by the proponent and to issue Environmental Clearance.**

The SEIAA, A.P hereby accords Environmental Clearance to the project as mentioned at Para No. I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following conditions:

Part A. Special Conditions:

- i. The proposal shall not violate the provisions of the following Acts & Rules and subsequent amendments:
 - a. Forest Conservation Act 1980,
 - b. Wild Life (Protection) Act, 1972;
 - c. CRZ Notification, 2011;
 - d. The Eco sensitive areas as notified under Environment (Protection) Act, 1986;
 - e. Critically polluted areas as notified by CPCB and also shall not harm live stocks and human beings and disturb their activities.
- ii. The total production during a scheme should be limited to the approved quantity as per Mining scheme/ plan.
- iii. The project proponent shall allocate Rs. 4.18 Lakhs as capital cost and Rs. 4.97 Lakhs as a recurring cost budget for the EMP. The proponent volunteered to provide 2 lakhs as a part of Corporate Social Responsibility (CSR) activity and shall maintain till the life of the mine.
- iv. The project proponent shall comply with the proposals furnished in the Environmental management plan.
- v. The project proponent shall develop greenbelt along approach roads & village Roads.
- vi. The project proponent shall maintain 7.5 mt greenbelt in buffer zone and

- existing buffer zone plantation should not be disturbed.
- vii. The proponent shall take dust suppression measures to meet the CPCB stipulated ambient air quality standards at any point of time.
 - viii. The proponent shall carryout suppression of dust generated due to transport vehicles by continuous water spraying using tankers.
 - ix. The vehicles carrying the mines material shall be covered with tarpaulin during vehicular movement.
 - x. The project proponent shall not use village road/ canal bund roads for mineral transportation purpose.
 - xi. The project proponent shall restrict vehicles movement during the peak hours to avoid accidents.
 - xii. The project proponent shall restrict the load of the transport vehicles not more than 21 tons to avoid road damages and dust nuisance to surroundings.
 - xiii. The Project Proponent (PP) shall regularly upload the half-yearly compliance reports.
 - xiv. The PP shall complete the entire greenbelt development within the first year itself and ensure its maintenance throughout the lease period.
 - xv. The project proponent shall follow the order of National Green Tribunal passed in O.A.No.304/2019.
 - xvi. The project proponent shall maintain the setback distance 7.5 meters buffer zone all around the mine lease area for greenbelt development and other conditions are to be fulfilled.
 - xvii. The avenue plantation with tall plants of at least 1.5m height for 1 km length of the approach road on either side of the road is to be developed and maintained. The Entire greenbelt should be developed in the first year itself.
 - xviii. The proponent is advised to ensure safety to animal and public life.

Part B. Specific Conditions:

1. Air Pollution:-

- i.
 - a. Suitable mining methods shall be adopted to control dust emissions, as per approved mining plan and EMP/EIA.
 - b. The proponent shall comply with the mining methodology mentioned in approved mining plan and Form1.
- ii. Greenbelt shall be developed along the boundary of mining lease area and also in back filled and reclaimed areas with tall growing native species in consultation with the local DFO/Agriculture

- Department. The proponent of mine shall carry mining operations in such a manner so as to cause least damage to the flora of the mining area and nearby areas. He shall take immediate measures for planting in the same area or any other area selected by authorities not less than twice the number of trees going to be felled by mining operations. He shall also take measures for restoration of other flora /fauna if damaged by mining operations. In case any felling or damage to fauna and flora is involved, prior permission shall be taken from the concerned regulatory authority, by the proponent, without which mining shall not be taken up.
- iii. Effective safe guard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading point 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. Prior concurrence of regulatory Authority must be obtained by the proponent
 - iv. The proponent of mine shall carry air quality monitoring in the core zone as well as buffer zone for RSPM and Noise levels. Location of monitoring stations should be decided based on the metrological data topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with Andhra Pradesh Pollution Control Board. The data so recorded should be regularly submitted to the Ministry including its Regional office located at Chennai and the Andhra Pradesh Pollution Control Board/Central Pollution Control Board once in six months. Prior concurrence of regulatory Authority must be obtained by the proponent.
 - v. The proponent shall construct graded roads connecting the mining area to the nearby roads to avoid dust nuisance due to vehicular movements. Prior concurrence of regulatory Authority must be obtained by the proponent.
 - vi. The proponent shall take precautions against noise arising out of mining operations and shall be abated or controlled at the source so as to keep it within the permissible limits notified under Environmental (Protection) Act, 1986 / Noise Pollution (Regulations & Control) Rules, 2010 by implementing the following noise control measures.
 - Proper and regular maintenance of vehicles and other equipment.

- The proponent shall ensure that there shall be no excessive noise, while taking up mining activity.
 - The workers employed shall be provided with protection equipment and earmuffs etc.
 - Speed of trucks entering or leaving the mine is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
- vii. Whenever any damage to public buildings or monuments is apprehended due to their proximity to the mining lease area, scientific investigations shall be carried out by the holder of mining lease so as to keep the ground vibrations caused by blasting operations within safe limit. In such cases, Prior concurrence of concerned Regulatory Authority must be obtained by the proponent, without which, mining shall not be taken up.
- viii. The proponent shall not take-up mining activity unless he obtains the safety clearance certificate from the Govt. competent authority

2) Water Pollution:-

- i. As per records the Source of water is from nearby village ponds. Total water requirement is 4.0 KLD. Out of that, 1.5 KLD is used for Dust suppression; 1.0 KLD is used for Domestic purpose; 1.5 KLD is used for Green belt purpose.
- ii. Garland drain and Siltation ponds of appropriate size should be constructed for the working pit to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly delisted, particularly after monsoon, and maintained properly. Prior concurrence of Regulatory Authority concerned shall be taken for this activity before taking up mining.
- iii. The proponent of the mine shall take all possible precautions to prevent or reduce the discharge of toxic and objectionable liquid effluents from mine, workshop, tailing ponds into surface bodies, ground water aquifer and useable lands to a minimum. The effluents shall be suitably treated, if required, to conform to the general standards notified under Environmental (Protection) Act, 1986. Prior concurrence of Regulatory Authority concerned shall be taken for this activity before taking up mining.
- iv. Monitoring of ground water level and quality should be carried out

quarterly by the project proponent in and around the project area in consultation with State Ground Water Department/Central Ground Water Authority and data thus collected shall be submitted regularly to the MoE&F and its Sub-Office Vijayawada, CGWA, and the Regional Director, Central Ground Water Board, Hyderabad. If at any stage, it is observed that the ground water table is getting depleted due to the mining activity, necessary correction measures shall be carried out in consultation with concerned Regulatory Authority.

- v. Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Suitable measures should be taken for rainwater harvesting in consultation with concerned Regulatory Authority.
- vi. Permission from the competent authority should be obtained for drawl of ground water, if any, required for this project.

3) Solid Waste :-

- i. **Topsoil:** Wherever top soil exists and is to be excavated for mining operations, remove it separately and the top soil so removed shall be utilized for restoration or rehabilitation of the land, which is no longer required for mine operations or for stabilizing or landscaping the external dumps. Whenever the top soil cannot be utilized concurrently, it shall be stored separately for future use. Prior concurrence of Regulatory Authority must be taken for this activity.
- ii. **Overburden:** The proponent of mine shall take steps so that the overburden, waste rock, rejects and fines generated during mining operations shall be stored in separate dumps preferably on impervious grounds. The waste rock, overburden etc. shall be backfilled into the mine excavations so as to restore the land to its original use as far as possible. In the case of non feasibility of back filling, the waste dump shall be suitably terraced and stabilizes through the vegetation. The proponent shall maintain proper angle of repose to ensure stability to the dump. Prior concurrence of Regulatory Authority must be taken for this activity.
- iii. The proponent of the mine shall construct required number of retaining walls to provide stability to the dumps. Dimensions of the retaining walls shall be based on the rainfall data. Prior concurrence of Regulatory Authority must be taken for this activity.
- iv. The proponent of mines shall construct required number of garland

drains to arrest mineral particles being carried away as runoff during rainy seasons around the dump yards. Dimensions of the garland rains shall be based on rainfall data. Prior concurrence of Regulatory Authority must be taken for this activity.

- v. The proponent of the mine shall undertake phased restoration, reclamation and rehabilitation of the lands affected by the mining operations and shall complete this work before the conclusion of such operations and the abandonment of the mine. This activity shall be taken up under the guidance of Appropriate Regulatory Authority, by the proponent, to ensure that environment is protected.
- vi. The proponent will be squarely responsible for proper implementation of solid waste management plan, prevention of air pollution, water pollution, and any other kind of pollution/health hazard.

Part C. General Conditions:

- i. **This order is valid for a period of 3 years or upto the expiry date of mine lease or land lease period issued by the Government of A.P., whichever is earlier.**
- ii. While giving CTE/CTO, the APPCB is to ensure compliance of guidelines issued in G.O RT No 239 dt 16.04.2020 and Memo. No/covid-19/2020/HMFW dt 18.04.2020 issued by Medical, Health and Family welfare department, Government of AP and the Ministry of Home Affairs order No 40-3/2020/DM-DA dt 15.04.2020 scrupulously.
- iii. The proponent shall scrupulously follow any conditions stipulated by Revenue department/ Panchayat Raj/ Municipal administration/local self-government bodies (Gram panchayat/Gram secretariat) in ensuring safety to human and animal life. The APPCB to ensure the same while according CTE/CTO.
- iv. Proponent shall ensure that there is no disturbance to flora and fauna. Serenity of nature must be protected at any cost.
- v. In respect of government land for mining, the responsibility has been fixed on concerned, AD Mines & Geology Department to check whether necessary clearances from revenue department are obtained.

- vi. In case of patta land while granting mine lease ADMG should verify the land lease documents.
- vii. In respect of forest land given in lease for mining, the proponent shall scrupulously adhere to the mining conditions stipulated by the forest department, Government of Andhra Pradesh.
- viii. Any change in mining plan/ production/ mining methodology the proponent shall apply afresh EC.
- ix. While taking up mining activity the proponent shall meticulously follow approved mining plan/Form-1/EMP.
- x. Once in a year proponent shall conduct impact analysis on environment by reputed institute recognized by Director General, Mines and Safety.
- xi. "Consent to Establish" & "Consent to Operate" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act and effectively comply with all the conditions stipulated thereof.
- xii. No change in mining technology and scope of working should be made without prior approval of the SEIAA, A.P. No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, AP/ MoE&F, GoI, New Delhi, as applicable.
- xiii. Personnel working in dusty areas shall be provided by the proponent with protective respiratory devices and they should wear, and they should also be provided with adequate training and information on safety and health aspects. Prior instructions and guidance of Regulatory authority shall be taken for this activity.
- xiv. The project proponent shall ensure that no natural watercourse 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.
- xv. 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. Prior instructions and guidance of Regulatory authority shall be taken for this activity.
- xvi. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive,

who will report directly to the Head of the Organization.

- xvii. The funds earmarked for environmental protection measures (**Capital cost Rs. 4.18 Lakhs and recurring cost Rs. 4.97 Lakhs/annum**) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Sub-Office located at Vijayawada.
- xviii. At least 2% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared in accordance to the MoEF&CC's office Memorandum No.F.No.22-65/2017-IA.III, dated.01.05.2018 and submit to the SEIAA, A.P and Ministry's Sub-Office, Vijayawada.
- xix. Officials from the Sub-Office of MoEF&CC, Vijayawada / The SEIAA, Andhra Pradesh through the Andhra Pradesh Pollution Control Board, who would be monitoring the implementation of environmental safeguards should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Sub-Office to MoEF&CC, Vijayawada.
- xx. The project proponent shall submit Half-yearly reports on the status of compliance of the stipulated Environmental Clearance Conditions including results of monitored data to the Ministry of Environment & Forests, its Sub-Office, Vijayawada, SEIAA, A.P., Zonal Office of Central Pollution Control Board, Bangalore, and A.P. Pollution Control Board and also shall upload in the PARIVESH portal.
- xxi. Post Environment Clearance Monitoring: It shall be mandatory for the project manager to submit half yearly compliance reports in respect of the stipulated prior EC terms and conditions in hard and soft copy to SEIAA on 1st June and 1st December of each calendar year. (Refer 10(i) and 10(ii) of S.O. 1533(E) of Ministry of Environment and Forests Notification, New Delhi, dt 14th September, 2006.)
- xxii. The APPCB shall monitor the EC conditions stipulated by SEIAA as per GO MS No 120 dated 01.11.2018 of EFS&T Dept., and ensure the compliance.
- xxiii. The proponent shall obtain prior permissions and continued

guidance from regulatory authorities for all the above conditions wherever it is required.

- xxiv. All safety norms as stipulated in various laws and statutes shall be scrupulously followed by the proponent. PCB shall ensure compliance to the conditions stipulated by SEIAA.
- xxv. The Proponent shall follow G.O.Ms.No.107 dated 30.07.2016 of Industries & Commerce (Mines-II) Department wherever applicable.
- xxvi. "Consent to Establish" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act before the start of any activity /construction work at site.
- xxvii. The project proponent shall submit the copies of the environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- xxviii. The environmental statement for each financial year ending 31st March in Form-V as mandated is to be submitted by the project proponent to the A.P. Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Sub-office of the Ministry of Environment and Forests, Vijayawada by e-mail.
- xxix. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P.
- xxx. The proponent shall obtain all other mandatory clearances from respective departments before taking-up the mining activity.
- xxxi. 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.
- xxxii. 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.

- xxxiii. The SEIAA may revoke or suspend the order, if 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.
- xxxiv. SEIAA also reserves the right to cancel the EC issued at anytime, if EC has been obtained by the proponent through suppression of any information or furnishing false information.
- xxxv. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules.

Additional Conditions:-

I. Statutory Compliance:

1. The Environmental clearance shall be subject to orders of the Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
2. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
3. The project proponent shall obtain the necessary permission from the Central Ground Water Authority.
4. Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
5. Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
6. The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.

II. Air Quality Monitoring And Mitigation Measure:

7. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO₂ and NO_x. Location of the stations shall be

decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Online ambient air quality monitoring station/stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB.

8. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centers.
9. Adequate number of Fog canon (mist sprayer) shall be installed to reduce the impact of air pollution at dust generating sources with time bound action plan.
10. Post environmental closure third party monitoring by reputed instituted in air quality, water, land & soil etc shall be carried out and analyzed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to IRO, MoEF&CC for compliance. The data used for analysis shall be obtained from continuous AQMS, site specific water regime. Also third party shall analyses the implementation of river diversion, meeting to the requirement of project report.

III. Water Quality Monitoring And Mitigation Measures:

11. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
12. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
13. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
14. Monitoring of water quality upstream and downstream of river including ponds, lakes, tanks shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.

15. Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.

IV. Noise And Vibration Monitoring And Prevention

16. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness program for users to be conducted. Progress in usage of such accessories to be monitored.
17. The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

V. Mining Plan

18. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
19. No change in mining method i.e. UG to OC, calendar program and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
20. Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by relevant mining laws and relevant circulars issued by Directorate General Mines Safety (DGMS).
21. No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.
22. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

VI. Land Reclamation:

23. Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).

24. A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
25. Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine.
26. Native tree species shall be selected and planted over areas affected by subsidence.

VII. Public Hearing And Human Health Issues:

27. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
28. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from work force engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.
29. Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
30. Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
31. Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
32. If public hearing is conducted, implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
33. The project proponent shall follow the mitigation measures provided in this Ministry's OMNo.Z-11013/5712014-IA.I1 (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to

the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

34. PP to conduct need based assessment survey of the area to for in order to decide the activities to be carried under the CSR and to provide detail of the activity carried out with adequate budgetary provision and time bound action plan.
35. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone with time bound action plan.
36. PP to take measure for installation of Renewable Energy sources in nearby area falling within 10 km radius.

VIII. Corporate Environment Responsibility:

37. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
38. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
39. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
40. PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). Any non- compliance or infringement should be reported to the concerned authority.

IX. Miscellaneous:

41. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

42. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
43. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
44. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
45. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
46. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
47. Compensation of the land acquired for the project shall be settled as per the R&R Policy. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
48. Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
49. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.

SPECIAL SECRETARY TO GOVT

MEMBER SECRETARY,	MEMBER,	CHAIRMAN,
SEIAA, A.P.	SEIAA, A.P.	SEIAA, A.P.

To

M/s. Adani Gangavaram Port Limited,
Associate Vice President Head Environment: Anil Kumar Trivedi,
Pedagantyada Village & Mandal,

Gangavaram Post, Visakhapatnam,
Andhra Pradesh - 530044.

Copy to:

1. The Chairman, SEAC, A.P. for kind information.
2. The Member Secretary, APPCB for kind information.
3. The EE, RO: Visakhapatnam, APPCB for information.
4. The MoEF&CC, GoI, Sub – Office, Vijayawada for kind information.
5. The Secretary, MoEF&CC, GoI New Delhi for kind information.
6. Monitoring cell, MoEF&CC, GoI, New Delhi for kind information.
7. The District Collector, Visakhapatnam District, Andhra Pradesh for kind information.

