



Vizhinjam International Seaport Limited
(A Government of Kerala Undertaking)

Name of the Project EC Amendment Rail Connectivity (Tunnel) to Vizhinjam Port
EC ID Number EC24A033KL158955 date of issue 17-07-2024
Name of Company VIZHINJAM INTERNATIONAL SEAPORT LIMITED

Half yearly compliance

Compliance period

01-Apr-24 to 30-Sep-24

SI Number	Compliance Condition (Specific)	Compliance Status for the Period
i	Construction activity shall be carried out strictly according to the provisions of the CRZ Notification, 2011. No construction works other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Will be complied up on starting the physical works on ground
ii	All the recommendations and conditions specified by the Kerala State Coastal Zone Management Authority (KCZMA) vide letter No 1540/A2/2022/KCZMA dated 01.08.2022 shall be complied with	Will be complied up on starting the physical works on ground
iii	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Land acquisition in progress once finished, will be applied as applicable
iv	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report.	Will be complied up on starting the physical works on ground
v	All the recommendations made by the Ground Subsidence Prediction studies conducted by the CSIR-Central Institute of Mining and Fuel Research (CSIR-CIMFR) shall be implemented and the status of compliance report shall be submitted along with the six monthly report. Compliance report shall specify the compliance for individual recommendations made in CSIR-CMFIR study report.	Will be complied
vi	All the recommendations made by the Blasting Impact Assessment study (Report Annexed) conducted by the CSIR-Central Institute of Mining and Fuel Research (CSIR-CIMFR) shall be implemented in letter and spirit and the status of compliance report shall be submitted along with the six monthly report. Compliance report shall specify the compliance for individual recommendations made in CSIR-CMFIR study report.	Will be complied

vii	All the recommendations made by the CSIR-CIMFR (Report Annexed) for impact of Train Traffic Movement and Prediction of train induced vibrations while train movement through the proposed underground tunnel route between Vizhinjam and Balarampuram shall be implemented in letter and spirit and the status of compliance report shall be submitted along with the six monthly report. Compliance report shall specify the compliance for individual recommendations made in CSIR-CMFIR study report.	Will be complied
viii	All the recommendations made in the report of Impact of Train Traffic Movement performed by CSIR-CIMFR (Report Annexed) shall be implemented in letter and spirit and the status of compliance report shall be submitted along with the six monthly report. Compliance report shall specify the compliances for individual recommendations made in CSIR-CMFIR study report.	Will be complied
ix	All the recommendations made in the report of Hydrogeological and Geohydrological Studies conducted by the Ground Water Department, Government of Kerala (Report Annexed) shall be implemented in letter and spirit and the status of compliance report shall be submitted along with the six monthly report. Compliance report shall specify the compliance for individual recommendations made in report of Hydrogeological and Geohydrological Studies conducted by the Ground Water Department, Government of Kerala.	Will be complied
x	All the recommendations made in the report of Geological and Geomorphological Features in and around the proposed New Rail route for the Vizhunjam International Deepwater Multipurpose Sea Port carried out by the Centre for Management Development, Thiruvananthapuram shall be implemented and the status of compliance report shall be submitted along with the six monthly report.	Will be complied
xi	All the recommendations made in the report of Study on Risk Assessment due to flood in the proposed Railway tunnel alignment from Vizhinjam Port to Balarampuram conducted by the Department of Civil Engineering, College of Engineering, Trivandrum shall be implemented and the status of compliance report shall be submitted along with the six monthly report. Compliance report shall specify the compliances for individual recommendations made in study report.	Will be complied
xii	Subsidence movement on the surface; over and around the working area shall be monitored regularly by CSIR-CIMFR during the construction operation. Further, monitoring of the impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings should also be continued till movement ceases completely. Appropriate effective corrective measures shall be taken in case of observation of any high rate of subsidence movement, to avoid loss of life and materials. Cracks should be effectively plugged with ballast and clay soil/suitable materials.	Will be complied
xiii	PP shall pay more attention for the locations of BH4, BH5, BH6, and BH8 and continuous monitoring shall be carried by the CSIR-CIMFER.	Will be complied

xiv	In general, fresh air to be supplied to all underground work areas in sufficient amounts to prevent any dangerous or harmful accumulation of dusts, fumes, mists, vapours, or gases. A minimum of 200 cubic feet of fresh air per minute to be supplied for each employee underground. Mechanical ventilation, with reversible airflow, to be provided in all of these work areas, except where natural ventilation is demonstrably sufficient.	Will be complied
xv	Where blasting or drilling is performed or other types of work operations that may cause harmful amounts of dust, fumes, vapours, etc., the velocity of airflow must be maintained as per the guidelines	Will be complied
xvi	For gaseous or potentially gaseous operations, ventilation systems must meet additional requirements.	Will be complied
xvii	Adequate lighting shall be provided at the face and at any other point where work is in progress, at equipment installations, such as pumps, fans and transformers.	Will be complied
xviii	Where workers are liable to be injured by falling or sliding material from the roof, face or wall of the tunnel, suitable measures (as per design) such as shotcreting, rock bolting or other appropriate measures should be taken to ensure the safety of the workers.	Will be complied
xix	All supports including steel supports, lagging, backfill concrete, shotcreting, rock bolts etc. should be designed and installed appropriately to ensure the stability of the excavated areas	Will be complied
xx	If water is anticipated, exploratory probing or drilling ahead of the face should be carried out to confirm the quantity, the quality and the pressure. Measures shall be put in place for the evacuation of workers in case of sudden flooding.	Will be complied
xxi	To avoid flooding, especially in downward sloping tunnels, pumps with adequate reserve capacity should be provided and so arranged that if flooding occurs they will not be put out of action.	Will be complied
xxii	Water should be removed from the working area either by open drains or by pumps and pipes. Intermediate holding tanks and pumping stations should be set up where water has to be pumped over large distances	Will be complied
xxiii	Contingency planning should ensure that essential equipment and personnel for major emergencies (for example rescue equipment, firefighting equipment, suitable breathing apparatus, stretchers, temporary lighting etc.) shall be placed on site.	Will be complied
xxiv	Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority	Will be complied
xxv	All other terms and conditions mentioned in the EC and CRZ clearance vide letter no 11-122/2011- IA.III dated 03rd January, 2014 shall remain unchanged	Will be complied, viz-as-viz applicable


Chief Executive Officer

Vizhinjam International Seaport Limited

28/11/24