

Compliance Status Report for the Environment Clearance

No. SEIAA/GUJ/EC/7(e)/295/2009 dated 08.12.2009

(July 2021 to December 2021)

Environment Clearance for revamping of existing jetty located adjacent to the urea-ammonia complex on northern bank of Tapi river by re-commissioning and developing backup infrastructure for trans-shipment of bulk cargo brought to the Wharf through lighterage operation along the river Tapi and its estuary at Hazira, Dist Surat by M/s. Krishak Bharati Cooperative Ltd (KRIBHCO) in Category 7(e) of Schedule annexed with EIA Notification dated 14/9/2006.

Sr. No.	Condition	Remarks
A. SPECIFIC CONDITIONS:		
1	The provisions of the CRZ Notification, 1991, as amended from time to time, shall be complied with strictly.	Shall be complied
2	The applicant shall deploy latest navigational aids and the navigation channel shall be properly demarcated. Proper lighting shall be provided in the navigation channel. The navigational channel shall be regularly surveyed for depth availability and alignment and navigational aids shall be adjusted accordingly to prevent navigational hazards and unsafe conditions.	Required navigational aids have been deployed. Proper lighting has been provided in the navigation channel. All necessary actions are being taken to prevent any navigational hazard and unsafe condition.
3	The applicant shall strictly follow the guidelines and provisions of Vessel Transport Management System devised for Gulf of Khambhat and shall become member of the VTMS being developed for the Gulf of Khambhat by the Gujarat Maritime Board. Manual detailing management of traffic with respect to the incoming and outgoing traffic of vessels through channel shall be prepared and implemented through trained personnel in consonance with the VTMS and GMB guidelines.	All the guidelines and provisions of Vessel Transport Management System (VTMS) devised for Gulf of Khambhat are being followed. All the guidelines of VTMS & GMB with respect to the incoming and outgoing traffic of vessels through channel are also being followed.
4	A disaster management plan covering mechanism for evacuating material and people during the emergency situations like ship collision / grounding shall be prepared and implemented through trained personnel. Disaster Management Plan shall be regularly updated and necessary periodic training shall be imparted to concerned personnel to ensure its effective implementation during emergency.	Jetty operations have been included in the onsite emergency plan of KRIBHCO. Schedule for F&S training is already prepared and regular training is being imparted.
5	The applicant shall carry out continuous and comprehensive post project marine quality monitoring, at least once a year, through institute of repute like National Institute of Oceanography, in consultation with the GPCB. This shall include monitoring of water quality, sediment quality and biological characteristics covered in the EIA studies. Impacts occurred, if any, shall be assessed and requisite additional remedial measures shall be	Comprehensive post project marine quality monitoring is being carried out periodically. Service order for conducting Marine

	taken by the project proponent.	ecological monitoring near existing jetty was awarded to M/s. Gujarat Environment Management Institute (GEMI), Gandhinagar on 15.09.2021. The study is under progress. Monitoring of water quality, sediment quality and biological characteristics has been covered in the scope of study. The impact occurred if any shall be assessed by them and remedial measures if any, shall be taken by KRIBHCO as per recommendation of consultant.
6	<p>The project proponent shall not undertake any activity which is likely to result impact on mangroves or other ecological important areas during revamping / development and operation of the project. No activity shall spill to nearby mangrove patch and mangroves of Kadia Belt.</p> <p>Mangrove afforestation on at least 500-hectare area and green belt development shall be undertaken and necessary budget for the same shall be earmarked and utilized for the said purpose only.</p>	<p>1) KRIBHCO has not undertaken any activity which is likely to have an impact on mangroves or other ecological important areas during revamping /development and operation of the project. Also, no activity shall spill to nearby mangrove patch and mangroves of Kadia Belt.</p> <p>2)Regarding mangroves afforestation, Society had already developed 100 ha mangrove area at Kanthiyajal district Hansot.</p> <p>3) Society is in process of signing MoU with M/s. Gujarat Ecology Commission-Gandhinagar and same will be signed very soon for A Community Based Restoration, Plantation & Conservation of Mangroves along the Gujarat Coast for planting Mangroves in</p>

		<p>an area of 100 hectare at Karanj Village of Olpad Taluka, District: Surat (Gujarat).</p> <p>4) Remaining 300 ha of mangrove area will be developed in the following manner by the Society</p> <p>(i) 100 ha area will be developed by March 2023.</p> <p>(ii) 100 ha area will be developed by March 2024.</p> <p>(iii) 100 ha area will be developed by March 2025.</p> <p>Necessary budget provision has been made and shall be utilization for the said purpose only.</p>
A.1 REVAMPING / DEVELOPMENT PHASE:		
7	<p>The area of dredging shall be confined to the minimum required and strictly as per the permissions obtained from the competent authority. The dredging activities shall be completed in the least possible time by reducing over run of duration in order to minimize adverse impacts, if any. Marine ecology monitoring shall be done during the dredging operation.</p>	<p>Maintenance dredging is being carried out periodically to maintain draft in front of jetty. All measures are being taken so that dredging activities are completed in the least possible time. It is ensured that, marine ecological monitoring will be carried out during each dredging operation.</p>
8	<p>During dredging activities, the equipments, vessels, barges required for dredging and transportation of dredged material shall be maintained in a secured area. Spillage of oil or any toxic material including paints, anticorrosive agents etc. shall not be allowed to spill in sea / coastal waters. No activity shall affect the nearby mangrove patch and mangroves of Kadia Bet.</p>	<p>During dredging activities, the equipment, vessels, barges required for dredging and transportation of dredged material is being maintained in a secured area. All the measures are being taken to prevent any spillage in sea /coastal water. It is being ensured that due to activity of dredging, nearby mangrove patch</p>

		and mangroves of Kadia Bet are not affected.
9	The dredged material as a resultant of capital dredging shall be used for filling and levelling of around 6.07 hectares earmarked low lying backup area owned by the company in consultation with the GPCB and the National Institute of Oceanography and shall be strictly as per the advice of the NIO to avoid the negative impacts, if any.	Dredged material as a resultant of capital dredging had been used for filling and levelling of low-lying backup area owned by KRIBHCO.
10	The camps of labour shall be kept outside the Coastal Regulation Zone area and sufficiently away from the estuary. Safe disposal of sewage and other wastes generated in these settlements shall be ensured and it shall not be discharged in the estuary.	The camps of labour have been kept outside the Coastal Regulation Zone area and sufficiently away from the estuary. Sewage is being collected in soak pit system and it is being emptied out periodically through tanker to the existing sewage treatment plant of KRIBHCO.
11	Adequate provisions for infrastructure facilities such as water supply, fuel (kerosene or cooking gas), lighting, sanitation etc. shall be ensured for the work force so as to avoid felling of trees/mangroves and pollution of water and the surroundings.	Adequate provisions for infrastructure facilities such as water supply, fuel, lighting and sanitation have been made.
12	Adequate personal protective equipments shall be provided for use by the construction workers at the site and their usage by them shall be ensured and supervised especially during handling of construction materials.	Adequate personal protective equipment was provided to the construction workers during the development work of jetty.
13	The project authorities must make necessary arrangements for safe disposal of solid wastes outside the CRZ area and it shall not be released to the estuary.	All necessary arrangement has been made for safe disposal of solid waste and it is being ensured that no solid waste finds its way to estuary.
14	It shall be ensured that due to the project activities, there is no adverse impact on the drainage of the area and recharge of groundwater.	There has been no adverse impact on the drainage of the area and recharge of groundwater due to the project activity.
15	It shall be ensured that project activities do not lead to any shoreline changes. Periodic monitoring shall be carried out to assess the shoreline changes.	Assessment of shoreline changes is being included in the comprehensive post project marine quality monitoring.
16	No construction work permitted under the Coastal Regulation Zone	Noted.

	Notification shall be carried out in Coastal Regulation Zone area after obtaining necessary permissions from the competent Authority only.	Necessary permission from competent authority will be taken for any construction work which is to be carried out in Coastal Regulation Zone area
17	The facilities to be constructed / developed in the CRZ area as part of this project shall be strictly in conformity with the provisions of the CRZ Notification, 1991 as amended subsequently.	Noted.
18	Construction of the proposed structures shall be undertaken meticulously conforming to the existing local and central rules and regulations. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned Government Departments/Agencies.	Approval of the concerned Government Departments/Agencies was taken for all the project activities.
19	All topsoil excavated during construction activities should be stored for use in horticultural / landscape development within the project site.	Not applicable
20	Readymade mix concrete should be used so far as possible.	Readymade mix concrete was used for construction activity as far as possible.
21	Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.	All measures were taken to reduce the water demand during the construction.
22	The back-up area around the Transit Shed shall be paved with the provision for parking of trucks.	Back-up area around the Transit Shed was paved for parking of trucks.
23	Vehicles hired for bringing construction material at site should be in good conditions and confirm to applicable air and noise emission standards and should be operated only during non-peak hours.	Good condition vehicles were hired for bringing construction material at site and it was ensured that the vehicle confirms applicable air and noise emission norms.
24	Fly ash should be used as building material in the construction as per provisions of Fly Ash Notification under EPA.	Building material of Fly ash was used as far as possible.

A.2 OPERATION PHASE:

25	Best possible technology and equipments shall be provided for loading and unloading operations. Spillage of cargo during loading / unloading operations shall be minimal and aimed at zero spillage. To avoid spillages, closed / covered conveyor system shall be adopted. Use of tarpaulins etc. from the barge surface to the jetty below the grab during loading / unloading operations shall be adopted to prevent the cargo spillage into aquatic environment. All loading / unloading facilities shall be equipped with drip pans or aprons to collect material spilled while loading/unloading the barges and also for loading the material onto the conveyor.	Best equipment are provided for loading and unloading operations. To avoid spillage, closed / covered conveyor system has been provided. To avoid cargo spillage into aquatic environment tarpaulin is being used from the barge surface to the jetty during unloading of
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		<p>cargo.</p> <p>Regular sweeping is being carried out to collect the spilled material. It is our endeavour that Spillage of cargo during loading / unloading operations will be minimal and aimed at zero spillage.</p>
26	Maintenance dredging shall be carried out in consultation with Gujarat Maritime Board. Dredged material as a result of maintenance dredging shall not be disposed in the estuary or intertidal area	Maintenance dredging is being carried out in consultation with Gujarat Maritime Board. Dredged material as a result of maintenance dredging is being disposed of for filling and levelling of low-lying backup area owned by the KRIBHCO
27	The industry will set up a vessel to vessel and vessel to shore communication system to prevent any accident in the estuary.	Communication system has been provided.
28	The operators and drivers shall be trained and equipped for handling of emergencies safely and in an ecologically sound manner.	Operators and drivers are being trained for handling of emergencies safely and in an ecologically sound manner.
29	Surface run off from the jetty shall be adequately managed. To avoid oil, SS and fertilizers entering the estuarine environment, dry sweeping shall be adopted at the jetty and washing shall be avoided as far as possible.	All measures are taken to avoid surface run off from the jetty to estuarine environment. Also, regular sweeping is being carried out to collect the spilled material. However, a collection pit will be constructed in the jetty area by March 2022 so as to collect the surface runoff. The collected surface runoff will be emptied out periodically and reused.
30	Sewage and garbage collection facilities through dedicated trucks shall be made available to barges to evacuate their waste when at berth. Sewage arising in the port area shall be collected in a pit and transported periodically to existing sewage treatment plant in the KRIBHCO premises for treatment and it shall not be discharged in the river/estuarine water. Safe disposal of solid waste shall also be ensured and it shall not be released to the estuary. The jetty area shall be treated as no waste discharge zone by barges. The provisions of the MARPOL in this regard shall be strictly followed.	Sewage arising in the port area is being collected in a soak pit and transported periodically to existing sewage treatment plant in the KRIBHCO premises for its treatment. When barge

		is at berth, necessary arrangement to evacuate their waste has been made.
31	The solid waste generated due to spillage of material shall be dry swept and recovered / reused.	Regular dry sweeping is being carried out to collect and recover the spilled material.
32	The area earmarked for the truck parking shall be used for parking only. No other activity shall be permitted in this area.	No other activity is being carried in the area which is earmarked for trucks parking.
33	No product other than those permissible in the Coastal Regulation Zone Notification, 1991 shall be stored in the Coastal Regulation Zone area.	No product other than those permissible in the Coastal Regulation Zone Notification, 1991 will be stored in the Coastal Regulation Zone area.
34	The acoustic enclosures shall be installed at all noise generating equipments and the noise level shall be maintained as per the MoEF / CPCB guidelines / norms both during day and night time.	Not applicable
B. GENERAL CONDITIONS:		
35	The project shall be implemented in such a manner that there is no damage whatsoever to the mangroves/other sensitive coastal ecosystems.	The project was implemented in such a manner that there was no damage to the mangroves/other sensitive coastal ecosystems.
36	The project shall be implemented in such a manner that there shall be no any hindrance to the movement of fishing vessels or fishermen.	The project was implemented in such a manner that there was no hindrance to the movement of fishing vessels or fishermen.
37	So as to maintain ecological features and avoid damage to the ecosystem, movement of vehicles in the Inter Tidal Zone shall be restricted to the minimum.	Noted.
38	There shall be no withdrawal of ground water in CRZ area, for this project. The proponent shall ensure that as a result of the proposed activities, ingress of saline water into ground water does not take place.	KRIBHCO is not withdrawing any ground water. The requirement of water of KRIBHCO complex is being met from Kakrapar dam through a dedicated pipeline. Requirement of water for jetty is being met through existing infrastructure of KRIBHCO.
39	The project proponent shall provide adequate funds for environment protection. The funds earmarked for environment protection measures shall be maintained, in a separate account and there shall be no diversion of these funds for any other purpose.	Provision of funds for environment protection has been kept. This fund is not being used for any

		other purpose.
40	Appropriate safety devices such as masks shall be provided for use by the workers at the site and their usage by them shall be ensured.	Masks are being provided for use by the workers at the site and it is being ensured that they use the same at the work place.
41	All issues raised during the public hearing shall be addressed comprehensively.	All issues raised during the public hearing were addressed comprehensively.
42	The project shall be implemented in such a manner that there shall be no any hindrance to the movement of fishing vessels or fishermen	The project was implemented in such a manner that there was no hindrance to the movement of fishing vessels or fishermen.
43	The operators and drivers shall be trained and equipped for handling of emergencies safely and in an ecologically sound manner.	Operators and drivers are being trained for handling of emergencies in a safe and ecologically sound manner.
44	To meet any emergency situation, appropriate fire-fighting system shall be installed. Appropriate arrangements for uninterrupted power supply and continuous water supply for the firefighting system shall be made.	Fire-fighting system has been installed with a provision of continuous water supply.
45	Adequate personal protective equipments shall be provided for use by the workers at the site and their usage by them shall be ensured and supervised.	Personal protective equipment is being provided for use by the workers at the site and it is being supervised for ensuring that they use the same at the work place.
46	First aid facilities and required antidotes shall be provided in adequate quantity and shall be made readily available.	First aid facilities and required antidotes are being provided in adequate quantity and are readily available.
47	Training to the staff for the first aid and firefighting along with regular mock drill shall be conducted regularly and shall be made an integral part of the disaster management plan of the project.	Training to the staff for the first aid and firefighting is being imparted. Regular mock drill is being conducted. It is an integral part of the disaster management plan of the project.
48	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of materials.	All necessary precautionary measures are being taken to avoid any kind of accident during storage and handling of materials.

49	Handling of materials shall be done in such a manner that minimal human exposure occurs.	Handling of materials is being done in such a manner that a minimal human exposure occurs.
50	Adequate arrangements shall be made for seeking immediate medical attention in the case of emergency.	Adequate arrangements have been made for seeking immediate medical attention in case of any emergency.
51	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.	Occupational health surveillance of the workers is being done and its records are available in KRIBHCO hospital. Pre-employment and periodical medical examination for all the workers is being undertaken as per the Factories Act & Rules.
52	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	Not applicable
53	Diesel generator sets, if to be used, shall be of enclosed type and confirm to EPA Rules for air and noise emission standards.	Not applicable
54	The overall noise level in and around the jetty area shall be kept well within the standards by providing noise control measures including engineering controls on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules	The overall noise level in and around the jetty area is well within the standards. The ambient noise level is as per the standards prescribed under The Environment (Protection) Act, 1986 & Rules
55	Necessary emergency lighting system along with emergency power back up system shall be provided.	Uninterrupted power supply is assured.
56	The project proponent shall explore the application of solar energy & it shall be incorporated for illumination of common areas, lighting of internal roads and passages in addition to solar water heating, if any.	KRIBHCO has installed solar panel for street lights in KRIBHCO-Jetty area.
57	The project proponent shall install the electric utilities / devices, which are energy efficient and meeting with the Bureau of Energy Efficiency norms, wherever applicable.	KRIBHCO has installed the electric utilities / devices, which are energy efficient and meeting with the Bureau of Energy Efficiency norms.
58	The energy audit shall be conducted at regular interval for the project and the recommendations of the Audit report shall be implemented with spirit.	The jetty is a part of KRIBHCO. The energy audit of KRIBHCO is carried out regularly. Last energy audit was conducted in


		March 2021 by M/s. A – Z ENERGY ENGINEERS PVT. LTD., NEW DELHI
59	A separate Environmental Management Cell with suitably qualified staff to carry put various environment related functions shall be set up under the control of the Chief Executive of the Company.	A separate Environmental Management Cell with suitably qualified staff to carry put various environment related functions has been set up under the control of the Chief Executive of the Company.
60	The project authorities shall take appropriate community development and welfare measures for the villagers in the vicinity of the project site. A separate fund shall be allocated for this purpose.	KRIBHCO has taken measures for community development. The welfare measures for the villagers in the vicinity of the project site have also being taken. A separate fund is being allocated for this purpose.
61	No further expansion or modifications or development likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	Noted and shall be complied.
62	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	Noted and shall be complied.
B. GENERAL CONDITIONS:		
63	The entire handling should be through pneumatic and in closed conveyer system, to avoid any kind of spillage.	The entire handling is being carried out through pneumatic and in closed conveyer system so as to avoid any kind of spillage.
64	The water quality and sediment quality of Tapi estuary should be monitored once in a year to check eutrophication happening if any to ascertain the spillage, if any.	Comprehensive post project marine quality monitoring is being carried out periodically. Service order for conducting Marine ecological monitoring near existing jetty was awarded to M/s. Gujarat Environment Management Institute (GEMI), Gandhinagar on 15.09.2021. The study is under progress. Monitoring of water quality, sediment quality

		and biological characteristics has been covered in the scope of study. The impact occurred if any shall be assessed by them and remedial measures if any, shall be taken by KRIBHCO as per recommendation of consultant.
65	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Not applicable
66	The project management shall also comply with all the environment protection measures, risk mitigation measures and safeguards recommended in the EIA / EMP report as well as other proposals made by them.	Noted and is being complied.
67	The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water. Also harvesting of surface as well as rainwater from the rooftops of the building proposed in the project shall be undertaken and the same shall be used for the various activities of the projects to conserve fresh water.	Rain water harvesting is being carried out in water pre-treatment area (Filter house terrace, cooling water storage tank pump house, surrounding paved area of filter house-2 and calirifer-2, filter water pump house area and surrounding paved area of water pre-treatment sludge pit drain channel). Approximately 10450 m ³ of rain water is conserved and used in the process plant. Implementation of this scheme has not only resulted in a saving of Rs. 3.9 lacs per year but also conserved the natural resource. Further, KRIBHCO is in the process of implementing Rain

		water collecting scheme in plant and township. Budget provision of Rs. 2.00 crore has been kept for the year 2021-2022 to implement this scheme.
68	No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF/ SEIAA, as the case may be. In case of deviations or alterations in the project proposal from those submitted to MoEF/ SEIAA/ SEAC for clearance, a fresh reference shall be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted and will be complied.
69	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	KRIBHCO has adequate funds to implement the conditions stipulated by SEIAA as well as GPCB.
70	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied.
71	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	KRIBHCO is submitting half yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions to the regulatory authority concerned, on a regular basis.
72	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Complied
73	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	(1) Date of start of project December 2009 (2) Date of completion - December 2010. (3) Date of financial closure-Not applicable. (As there was no external borrowing)
74	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted
75	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974,	Noted

	Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	
76	This Environmental Clearance is valid for five years from the date of issue.	Noted

For Krishak Bharati Cooperative Limited


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