

**Compliance Status Report for the Environment Clearance****No. SEIAA/GUJ/EC/7(e)/295/2009 Date: 08.12.2009**

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 back up infrastructure for trans-shipment of bulk cargo brought 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 14/09/2006.

**A. Specific Conditions:**

<b>SNo.</b>	<b>Conditons</b>	<b>Compliance</b>
1)	The provisions of the CRZ Notification, 1991, as amended from time to time, shall be complied with strictly.	<b>Will be Complied</b>
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.	<b>Will be Complied</b>
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.	<b>Will be Complied</b>
4)	A disaster management plan covering mechanisms 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.	<b>Complied</b>  <b>Will be complied.</b>
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	<b>Will be Complied</b>

	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 taken by the project proponent.	
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 Bet.</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><b>Will be Complied</b></p> <p>The action for plantation of mangrove on an area of 100 hectare has been initiated. 5000 Nos. of different species of trees will be planted in the year 2010-2011 Necessary budget provision has been made.</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.</p> <p>Marine ecology monitoring shall be done during the dredging operation.</p>	<p><b>Will be complied.</b></p> <p>To carry out Marine ecology monitoring during dredging operation, work order has been placed to M/s. Indomar Coastal Hydraulics, Chennai</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>	<b>Will be Complied</b>
9)	<p>The dredged material as a resultant of capital dredging shall be used for filling and leveling of around 6.07 hectares earmarked low lying backup area owned by the company in consultation</p>	<b>Will be Complied</b>

	with the GPCB and the National Institute of Oceanography and shall be strictly as per advise of the NIO to avoid the negative impacts, if any.	
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.	<b>Complied</b>
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.	<b>Complied</b>
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.	<b>Complied</b>
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.	<b>Will be Complied</b>
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.	<b>Complied</b>
15)	It shall be ensured that project activities do not lead to any shoreline changes. Periodic monitoring shall be carried out to asses the shoreline changes.	<b>Will be Complied</b>
16)	No construction work permitted under the Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area after obtaining necessary permissions from the competent authority only.	<b>Complied</b>
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.	<b>Will be Complied</b>
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.	<b>Complied</b>
19)	All topsoil excavated during construction activities should be stored for use in horticultural/ landscape development within the project site.	<b>Complied</b>
20)	Ready made mix concrete should be used so far as possible.	<b>Will be Complied</b>
21)	Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.	<b>Will be Complied</b>

22)	The back-up area around the Transit Shed shall be paved with the provision for parking of trucks.	<b>Will be Complied</b>
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.	<b>Complied</b>
24)	Fly ash should be used as building material in the construction as per provisions of Fly Ash Notification under EPA.	<b>Will be Complied</b>

**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.	<b>Will be Complied</b>
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.	<b>Will be Complied</b>
27)	The industry will set up a vessel to vessel and vessel to shore communication system to prevent any accident in the estuary.	<b>Will be Complied</b>
28)	The operators and drivers shall be trained and equipped for handling of emergencies safely and in an ecologically sound manner.	<b>Will be Complied</b>
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.	<b>Will be Complied</b>
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.	<b>Will be Complied</b>
31)	The solid waste generated due to spillage of material shall be dry swept and recovered/ reused.	<b>Will be Complied</b>

32)	The area earmarked for the truck parking shall be used for parking only. No other activity shall be permitted in this area.	Will be Complied
33)	No product other than those permissible in the Coastal Regulation Zone Notification, 1991 shall be stored in the Coastal Regulation Zone area.	Will be Complied
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.	Will be Complied

**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.	Will be Complied
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.	Will be Complied
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.	Will be Complied
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.	Complied
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.	Budget for the project has adequate provision
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.	Complied
41)	All issues raised during the public hearing shall be addressed comprehensively.	Complied
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.	Will be Complied
43)	The operators and drivers shall be trained and equipped for handling of emergencies safely and in an ecologically sound manner.	Will be Complied
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 fire fighting system shall be made.	Will be Complied
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	Will be Complied

46)	First aid facilities and required antidotes shall be provided in adequate quantity and shall be made readily available.	Will be Complied
47)	Training to the staff for the first aid and fire fighting along with regular mock drill shall be conducted regularly and shall be made an integral part of the disaster management plan of the project.	Will be Complied
48)	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of materials.	Will be Complied
49)	Handling of materials shall be done in such a manner that minimal human exposure occurs.	Will be Complied
50)	Adequate arrangements shall be made for seeking immediate medical attention in the case of emergency.	Complied
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.	Will be Complied
52)	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	--NA--
53)	Diesel generator sets, if to be used, shall be of enclosed type and confirm to EPA Rules for air and noise emission standards.	Will be Complied
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 confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	Will be Complied
55)	Necessary emergency lighting system alongwith emergency power back up system shall be provided.	Will be Complied
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.	Additional requirement of power will be catered by existing facility.
57)	The project proponent shall install the electric utilities/ devises, which are energy efficient and meeting with the Bureau of Energy Efficiency norms, wherever applicable.	Will be Complied
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.	Will be Complied
59)	A separate Environmental Management Cell with suitably qualified staff to carry out various environment related functions shall be set up under the control of the Chief Executive of the Company.	Complied
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.	Complied

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.	Will 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.	Will be Complied

**B. GENERAL CONDITIONS:**

63)	The entire handling should be through pneumatic and in closed conveyor system, to avoid any kind of spillage.	Will be Complied
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.	Will be Complied
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.	--NA--
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.	Will be 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 rain water 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.	Possibility will be explored for rain water harvesting
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.	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.	Will be Complied
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 also be seen at the website of SEIAA/SEAC/GPCB. This shall	Complied

	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.	
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 1 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year.	<b>Will be Complied</b>
72)	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<b>Will be Complied</b>
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 – 24Nov 2009 2) Date of Financial Closure- Nil (No external borrowing)
74)	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	---
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, 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.	---