

O/C

Ambuja Cement

90448

REGD. A/D

ACL/EMD/F-16/2022/2515

26.05.2022

The Director,

Ministry of Environment, Forest and Climate Change (MoEF&CC),
Regional Office, Western Region,
"Kendriya Paryavaran Bhavan"
Link Road No.3, Ravi Shankar Nagar,
Bhopal – 462016, (M.P.)

Sub.: Half Yearly Compliance Status Report of Environmental Clearance (MoST) & Environmental Clearance (CRZ) *Bulk Cement Terminal (BCT), Muldwarka Unit of Ambuja Cements Ltd.*

Ref.: Environmental Clearance (MoST) Order No. PD/26017/4/98-PDZ dated 13.07.1998 & Environmental Clearance (CRZ) no.11-73/2007-IA-III dated 04.07.2008.

Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of **(October'2021 to March'2022)** of Environmental Clearance Order No. PD/26017/4/98-PDZ & CRZ Clearance No.11-73/2007-IA-III dated 13.07.1998 & 04.07.2008 respectively, granted to *Bulk Cement Terminal* of Ambuja Cements Ltd. located at village – Muldwarka, Taluka - Kodinar, District – Gir Somnath (Gujarat).

This is for your information and record please.

Thanking you,

Yours Faithfully,
For Ambuja Cements Ltd.


Devendra Singh Chauhan
Head -Environment

Encl.: As above.

Copy to:

- 1) **The Central Pollution Control Board (CPCB), Privesh Bhavan, Atmajyoti Ashram Rd, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara – 390023 (Gujarat).**
- 2) **The Member Secretary, Gujarat Pollution Control Board (GPCB), Paryavaran Bhavan, Sector-10-A, Gandhinagar-382010.**
- 3) **The Regional Officer, Gujarat Pollution Control Board (GPCB), Opp. Saint Anne's Church Station Road, Junagadh.**

Regd. Office :
PO : Ambujanagar - 362 715, Tal : Kodinar,
Dist. : Gir Somnath (Gujarat)
Phone : (02795) 221137, 232009,
Fax : (02795) 220328

Ambuja Cements Limited
(Unit : Ambujanagar)
CIN No. : L26942GJ1981PLC004717
www.ambujacement.com

Corporate Office :
Elegant Business Park,
MIDC Cross Road 'B'
Off Andheri - Kurla Road, Andheri (E)
Mumbai - 400 059. Phone : (022) 4066700

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

Ministry of Environment, Forest and Climate Change

Regional Office (W), Bhopal.

Monitoring Report

Part-I

DATA SHEET

01	Project type	:	Material Storage & Handling Facilities (Captive Port)
02	Name of the project	:	Bulk Cement Terminal (Storage & Handling Facilities) at Muldwarka
03	Clearance letter(s) / OM no. and date	:	MoST Clearance no.PD/26017/4/98-PDZ . (CRZ) Dated 13 th July, 1998. CRZ Clearance No. 11-73/2007-IA-III Dated 4 th July, 2008.
04	Location	:	
	a) District(s)	:	Gir Somnath
	b) State(s)	:	Gujarat
	c) Latitude	:	20°45' 58" N
	d) Longitude	:	70°40' 58" E
05	Address for correspondence	:	
	a) Address of concerned Project Chief Engineer (with pin code & telephone / telex / fax numbers).	:	Sh. Devendra Singh Chauhan Head (Environment) Ambuja Cements Ltd. PO Ambujanagar, Taluka : Kodinar, Pin- 362715 District: Gir Somnath (Gujarat). Tel: 02795-221137/ 232009/237403 Fax: 02795-220328/232032
	b) Address of Executive Project Engineer / Manager (with pin code / fax numbers)	:	Sh. Vimal Malkhan, (Sr. Manager, BCT-Muldwarka) : Village-Muldwarka, Taluka- Kodinar, District Gir Somnath , Pin: 362715 (Gujarat) Tel: 02795 – 221513, 220214 Fax – 02795 – 220213
06	Salient features	:	
	a) of the project	:	BCT- Bulk Cement Terminal is a captive port for storage and handling of cement, coal, gypsum, fly ash/slag, rubber scrap and furnace oil. It is 13 Kms. away from Ambujanagar Cement Plant.
	b) of the environmental management plans	:	Bag filters have been installed at all transfer point and use of closed conveyor for loading/unloading of materials. Adequate plantations have been done at all open space and along plant boundary. Regular maintenance of existing air pollution control devices is being done to maintain the efficiency and minimize the fugitive emissions.
07	Breakup of the project area.	:	
	a) Submergence area (forest & non-forest)	:	Not applicable
	b) Others	:	47.10 ha.
08	Breakup of the project affected population with enumeration of those losing houses / dwelling units only agricultural land only, both dwelling units & agricultural land & landless labourers / artisan.	:	Not applicable.
	a) SC, ST / Adivasis	:	Not applicable.
	b) Others	:	Not applicable.
09	Financial details	:	
	a) Project cost as originally planned and subsequent revised estimates and the year of price reference.	:	The total project cost was less than Rs. 137.50 Cr.

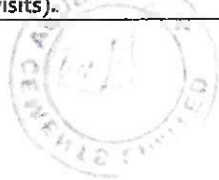


b) Allocation made for environmental management plans with item wise and year wise break-up. : Please refer below

Expenditure Incurred in Environmental Management Plan - BCT, Muldwarka			Ambuja Cement Foundation - Ambujanagar Details for programme wise expenditure for the year October 2021 to March 2022 (Rs. in lakhs)										
A. Capital Investment for Environmental Monitoring:			S.No	Programme	AEF - ACL	*Funds received through Government	** Funds from other Donors / Donor Agencies	*** People's Contribution	**** Direct Funding to Communities	Total Exp.			
S.No	Particulars	Cost (In Lacs)											
1	Monitoring Equipments	37.08											
2	Environment Laboratory	10.00											
3	Others (Monitoring Van, DG Sets etc.)	10.00											
Total (In Lacs INR)		57.08											
B. Recurring Expenditure for the period of October 2021 to March 2022			S.No	Particulars	Cost (In Lacs)	S.No	Programme	AEF - ACL	*Funds received through Government	** Funds from other Donors / Donor Agencies	*** People's Contribution	**** Direct Funding to Communities	Total Exp.
1	Green belt development & Dust suppression	0.91											
2	Manpower Cost *	14.75		a. Water Resource Development	50.89	10.61							61.50
3	House Keeping	0.92		B. Drinking Water Programme	2.01	2.40			2.60	312.24			319.25
4	Maintenance of Pollution Control Equipments	12.19		Agriculture Development (Drip Irrigation, Farm Forestry & Afforestation)	29.52	1.25	10.69	116.79	180.89				319.14
5	Other Env. Protection (Environmental Monitoring)	3.47		3. BCI	10.23				185.58	72.83	119.00		338.64
6	Environment Awareness *	0.50		4. Krishi Vigyan Kendra (KVK) - Agriculture	14.11	182.73							196.84
Total (In Lacs INR)		32.74		5. Health & Sanitation	19.30		11.24	27.64					58.18
				6. Education Programme	6.91								6.91
				7. Women / Youth Development	15.83								15.83
				8. Skill and Entrepreneurship Development Programme	30.64	29.57	20.82	25.57					106.60
				9. Integrated Community Development Programme	90.09		0.23						90.23
				10. Co-ordination & Administration Expenses	26.50								26.50
				11. Capital Expenditure	2.70								2.70
				TOTAL	298.83	215.95	179.56	245.43	592.13	1531.90			

* Expenditures are Common for All the Plants & Mines.

	c) Benefit cost ratio / Internal rate of return and the year of assessment.	:	No separate assessment made for this project.
	d) Whether (c) includes the cost of environmental management as shown in the above.	:	Not applicable.
	e) Actual expenditure incurred on the project so far.	:	Rs. 138.25 Cr.
	f) Actual expenditure incurred on the environmental management plans so far.	:	Rs. 16.56 Cr.
10	Forest land requirement.	:	
	a) The status of approval for diversion of forest land for non-forestry use	:	The project area does not comprise any forest, hence not applicable.
	b) The status of clearing felling	:	Not applicable.
	c) The status of compensatory afforestation, if any	:	Not applicable.
	d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.	:	Not applicable.
11	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	:	Not applicable.
12	Status of construction.	:	
	a) Date of commencement (Actual and / or planned)	:	1993
	b) Date of completion (Actual and / or planned).	:	1993 (1 st Phase), 1997 (II nd Phase)
13	Reasons for the delay if the project is yet to start.	:	Not applicable.
14	Dates of site visits	:	
	a) The dates on which the project was monitored by the Regional Office on previous occasions, if any.	:	12.10.10 to 13.10.10 by Dr. A. Mehrotra Regional Office, Bhopal
	b) Date of site visit for this monitoring report	:	12.10.10 to 13.10.10
15	Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits).	:	Half yearly compliance status report is being regularly submitted and last submission was on 06.11.2021 vide letter no. ACL/EMD/F-16/2021/2410/89667.

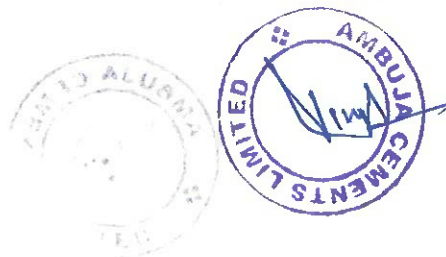




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Compliance Status Environmental Clearance (MoST) for Storage and Handling of Furnace Oil at BCT Muldwarka (Issued by MoST vide letter no. PD/26017/4/98-PDZ (CRZ) dated 13/07/1998)

S No.	Compliance	Compliance Status
2 (i)	All construction design/drawing relating to construction activities must have the approval of the concerned state govt. Department/Agencies. Ground water should not be tapped for construction activities.	<ul style="list-style-type: none"> Point noted and complied. No ground water was tapped during construction activities. NOC from CGWA obtained for use of ground water use of a tune of 500 KLD vide NOC No. - CGWA/NOC/IND/ORIG/2021/10893.
2 (ii)	Adequate provision for all infrastructural facilities such as water supply, fuel, sanitation etc. must be extended for laborers during the construction period in order to avoid damage to the environment.	<ul style="list-style-type: none"> The project activity has already over; hence, it is not applicable at this stage. However, currently all required infrastructural facilities such as drinking water and sanitation are available for employees and workmen. We had provided the desired provisions during construction phase to construction laborers.
2 (iii)	Dredging operations, if any should be undertaken in consultation with the Central Water and Power Research Station, Pune or the National Institute of Oceanography, Goa to ensure that dredging operation do not cause adverse impact on water quality and marine productivity in the vicinity. Dredging operation as far as possible should be kept to the minimum for avoiding adverse impacts on marine life.	<ul style="list-style-type: none"> For furnace oil storage & handling facility dredging activity is not applicable. Whereas as far as jetty is concern, whenever dredging operation is carried out, consultation with National Institute of Oceanography will be carried out.
2 (iv)	Disposal sites for excavated material, if any, should be also designed that the revised land use after dumping in the land use pattern do not interfere with the natural drainage.	<ul style="list-style-type: none"> Point noted & being complied. No excavated material is generated till date. Due to our activities there is no chance for generation of excavated material in future also.
2 (v)	To meet any emergency situation, adequate foam containers should be kept ready with supporting fire fighting system and water pipeline.	<ul style="list-style-type: none"> Full – fledged fire fighting system is available at site with qualified fire fighter and regular mock drills are being carried out. A separate fire tender is also available at Bulk Cement Terminal with adequate quantity of foam and other fire fighting agents.
2 (vi)	The staff posted in sensitive areas should be trained in implementation of the Crisis Management Plan already drawn by the authorities. Mock drill(s) for this purpose should be conducted on a regular basis. Provisions of Dock Safety Act and the guidelines issued by the DGFASLI/CLI, Bombay for the safety and health of the dock workers should be followed.	<ul style="list-style-type: none"> Complied. Regular monthly training on crisis management as well as fire fighting is being organized at BCT, Muldwarka. All other regulatory requirements as per the provision of the act are being implemented. Representative of Gujarat Maritime Board is also posted permanently for supervision on implementation of the necessary requirement. All the provision of Dock Safety Act and the guideline issued by DGFASLI for the safety and health of the dock workers is being effectively followed.
2 (vii)	For development of green buffer including mangroves wherever feasible, the authorities should start grooving large nursery of multipurpose species such as Eucalyptus, Casuarinas, Dalbergia, Terminalia etc. The norm of about 2000-2500 trees per ha may be adopted for raising of green belt.	<ul style="list-style-type: none"> Complied. The local shore conditions are not conducive for mangroves plantation. However the company has established Nursery where in large variety and numbers of plants are grown for carrying out plantation at BCT – Muldwarka and surrounding region. Mangroves plantation has been carried out in 100 Hectares area at village - Karanj, Taluka - Olpad, District - Surat, Gujarat. Ecology Commission, Gandhinagar is the implementing agency for the mangrove plantation project. Mangroves Plantation has been completed in 100 ha. area. Status report of the mangroves plantation has been already submitted to MoEF vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F-16/2010/55921. Photographs of mangroves plantation has been submitted to your good office vide our submission dated 30.06.2012 vide letter no.ACL/EMD/F-16/227/65953.
2 (viii)	To prevent discharge of sewage and other liquid wastes including ballast in to marine environment,	<ul style="list-style-type: none"> Complied. No industrial liquid effluent is generated from plant



Compliance Status Environmental Clearance (MoST) for Storage and Handling of Furnace Oil at BCT Muldwarka (Issued by MoST vide letter no. PD/26017/4/98-PDZ (CRZ) dated 13/07/1998)





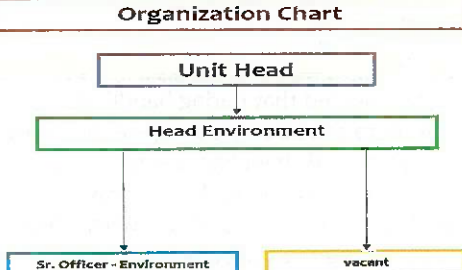
	adequate system for collection, treatment and disposal of liquid wastes must be provided to the satisfaction of Gujarat Pollution Control Board.	premises. Only negligible amount of domestic sewage generated, which is being disposed off through septic tank.
² (ix)	Adequate noise control measures must be provided to maintain noise level within the ambient standards prescribed by the competent authorities in various work places. If need be, ear plugs and ear muffs should be provided to the workers in the port area.	<ul style="list-style-type: none"> Complied. High noise areas have been identified & earmarked. Proper enclosures have been provided in high noise areas. Also applicable personnel protective equipments are being provided to all workers & employee.
² (x)	The quality of treated effluents, solid wastes and emissions must confirm to the standards laid down by the competent authority including Central/State Pollution Control Boards.	<ul style="list-style-type: none"> Point noted and being complied. No effluent in generated from the premises. We are complying with the standard laid down by the competent authority viz.. GPCB, Gandhinagar for emission from various stacks . No solid waste generated from the facility. .
² (xi)	An Environmental Cell should be immediately made operational with adequate laboratory facilities, equipments and mobile van for collecting air samples. The record and the data should be submitted with proper analysis and corrective measures required, if any, for maintaining the levels within the prescribed limits to the Regional Office of Ministry of Environment & Forests, Bhopal, which will be monitoring the strict implementation of these conditions at local level.	<ul style="list-style-type: none"> Complied. A full-fledge Environmental Management Dept. with qualified staff is established along with well-equipped mobile monitoring van and Environmental Laboratory for analysis of air, water and waste water samples. we had engaged third party for monitoring of various parameter laid by GPCB. Ambient air quality is being monitored regularly at identified locations (03 nos. AAQM stations). Stack & ambient air quality monitoring reports are being regularly submitted to concern authority. October'2021 to March'2022 Reports is enclosed as under

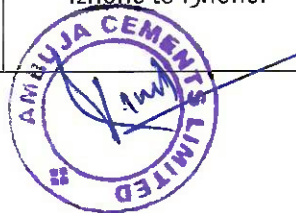
Stack Monitoring Results (October 2021 - March 2022)									
Month	Stack attached to								
	DG Set- 1 (1250 KVA)			DG Set- 2 (1250 KVA)			DG Set- 3 (250 KVA)		
	PM (mg/Nm3)	SO2 (ppm)	NOx (ppm)	PM (mg/Nm3)	SO2 (ppm)	NOx (ppm)	PM (mg/Nm3)	SO2 (ppm)	NOx (ppm)
Oct-21	Not Running			Not running			Not running		
Nov-21	Not Running			Not running			Not running		
Dec-21	Not Running			Not running			Not running		
Jan-22	Not Running			Not running			Not running		
Feb-22	Not Running			Not running			Not running		
Mar-22	Not Running			Not running			Not running		
Permissible Limit	100.0	100.0	50.0	100.0	100.0	50.0	100.0	100.0	50.0

Ambient Air Quality Monitoring Results (October 2021 - March 2022)												
Average Ambient Air Quality Monitoring Stations (in µg/m3)												
Month	ADM Building				At Loading Point				Muldwarka Village			
	PM2.5	PM10	SO2	NOx	PM2.5	PM10	SO2	NOx	PM2.5	PM10	SO2	NOx
Oct-21	28.10	42.50	14.20	14.30	28.70	36.80	15.00	15.50	30.50	36.30	14.70	15.20
Nov-21	30.80	44.40	14.30	14.70	32.30	34.20	16.60	17.20	30.80	32.50	17.90	18.00
Dec-21	26.30	36.30	13.90	12.00	28.10	37.30	11.90	13.70	25.50	36.40	15.50	15.40
Jan-22	28.90	38.60	12.80	20.60	29.10	40.40	13.00	18.90	28.30	40.60	15.20	20.40
Feb-22	28.60	44.20	14.30	13.90	30.80	40.00	12.90	16.10	23.40	38.60	15.10	15.10
Mar-22	29.70	41.40	13.40	15.00	32.30	39.80	13.50	15.60	30.80	37.00	13.20	14.00

² (xii)	Necessary leakage detection devices with early warning system must be provided at strategic locations.	<ul style="list-style-type: none"> Complied.
² (xiii)	Stand by DG sets must be provided to ensure uninterrupted power supply to the pump house and the fire fighting system.	<ul style="list-style-type: none"> Complied.
² (xiv)	Third party inspection should be ensured during construction and operational phases with adequate insurance cover. The project authorities should confirm on regular intervals of six months to the Ministry about the implementation of the suggested safeguard measures and the data/report should be open for inspection by Team which would be constituted by the Ministry, if found necessary.	<ul style="list-style-type: none"> Complied. The annual maintenance contract has been given to third party for inspection, maintenance & control of the fire protection systems. Third party safety audit is also being carried out regularly. Insurance plant is covered under PLI Act.

**Compliance status of CRZ Clearance issued to Bulk Cement Terminal, Muldwarka
Vide MoEF&CC Letter No. 11-73/2007-IA-III Dated 4th July, 2008**

<p>Water Sprinkling in Coal handling Area at BCT</p> 	
<p>Cement Bulkers to transport cement from Plant to BCT Muldwarka</p> 	<p>Tippers duly covered through hydraulic device</p> 
<p>vi Arrangement for treatment of liquid effluents shall be made so as to ensure that the untreated effluents are not allowed to be discharged into the sea/marine water.</p>	<ul style="list-style-type: none"> No industrial liquid effluents are generated from plant premises. Only negligible amount of domestic sewage generated, which is being disposed off through septic tank.
<p>vii All constructions, handling and storage of products in the Coastal Regulation Zone area shall be undertaken in accordance with the Coastal Regulation Zone area.</p>	<ul style="list-style-type: none"> Point noted and being complied.
<p>viii No other products other than the cement and non-hazardous raw material required for manufacture of cement shall be handled, stored or transported in the Coastal Regulation Zone area.</p>	<ul style="list-style-type: none"> Point noted and being complied. We are only handling, storing and transporting cement and no hazardous material.
<p>B. General Conditions:</p>	
<p>i A separate Environmental Management Cell with suitably qualified staff to carry out various environment related functions shall be set up under the charge of Senior Executive who will report directly to the Chief Executive of the Company.</p>	<ul style="list-style-type: none"> A well established Environmental Management Division (EMD) with suitable qualified personnel is existing. Head of environmental management cell directly report to the Works Head of the organization. EMD organization chart is enclosed as under: <div style="text-align: center;"> <p>Organization Chart</p> <pre> graph TD A[Unit Head] --> B[Head Environment] B --> C[Sr. Officer - Environment] B --> D[vacant] </pre>  </div>
<p>ii The project will be monitored by this Ministry's Regional Office at Bhopal. Full support shall be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during the inspection for monitoring purposes by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.</p>	<ul style="list-style-type: none"> Point noted. Full support and co-operation is being extended during the visit of officer from Ministry of Environment & Forest, CPCB as well as GPCB. Project was monitored by Dr. A. Mehrotra (Regional Office, Bhopal) during 12.10.10 to 13.10.10.



**Compliance status of CRZ Clearance issued to Bulk Cement Terminal, Muldwarka
Vide MoEF&CC Letter No. 11-73/2007-IA-III Dated 4th July, 2008**

iii	In case of deviation or alteration in the project including the implementing agencies, a fresh reference shall be made to this ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponents shall be responsible for implementing the suggested safeguard measures.	<ul style="list-style-type: none"> Point Noted & being followed.
iv	This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	<ul style="list-style-type: none"> Point Noted.
v	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	<ul style="list-style-type: none"> Point noted, subjected to applicability and validity of condition, if any.
vi	A copy of clearance letter shall be marked to the concerned Panchayat/Local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	<ul style="list-style-type: none"> A copy of clearance letter has been marked to concern Panchayat/Local NGO.
vii	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.	<ul style="list-style-type: none"> GPCB is the concern authority for the same.
viii	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Tamil Nadu State Pollution Control Board and may also be seen at website of the Ministry of Environment & Forest at http://www.envfor.nic.in . The advertisement shall be made within 7 days from the date of issue of the clearance letter and copy of the same shall be forwarded to the Regional Office of this Ministry at Bhopal.	<ul style="list-style-type: none"> Advertisement has been published in local newspapers. Copy of advertisement has been already submitted to MoEF vide our submission on 25.12.2010 vide letter no. ACL/EMD/F-16/2010/55921.
ix	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	<ul style="list-style-type: none"> Point noted.
x	Separate clearance shall be obtained by project proponent for handling and storage of these chemicals.	<ul style="list-style-type: none"> There is no handling of any chemicals. Hence not applicable at present.
xi	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Act.	<ul style="list-style-type: none"> Point Noted.
5	The above mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Chemicals (Manufacturing, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 as amended subsequently and the Public Liability Insurance Act, 1991 and the Rules made there under from time to time. The project proponents shall also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Gujarat State and the Supreme Court's order dated 18th April, 1996 in the Writ petition No. 664 of 1993 to the extent the same are applicable to this proposal.	<ul style="list-style-type: none"> Point Noted.

