

Proceedings of the 24th meeting of the Odisha Coastal Zone Management Authority (OCZMA) held on 12.11.2014 at 04:00 PM

The 24th meeting of the Odisha Coastal Zone Management Authority (OCZMA) was held under the Chairmanship of the Principal Secretary to Govt., Forest & Environment Dept. Govt. of Odisha in the conference hall of OCZMA at Plot. No-108, Suryanagar, Bhubaneswar. The list of members present is given in Annexure-I.

A. Confirmation of the minutes of the 23rd meeting of OCZMA.

The minutes of the 23rd meeting of OCZMA held on 02.07.2014 were confirmed.

B. Compliance of the decision taken in the 23rd meeting of Odisha Coastal Zone Management Authority (OCZMA) held on 02.07.2014.

Compliance of the decision taken in the 23rd meeting of Odisha Coastal Zone Management Authority held on 02.07.2014 was placed before the Authority and the Authority took note of the compliance.

Sl. No.	Project / Project Proponent	Decision taken	Compliance
B 1	Establishment of captive minor port and intake & discharge pipeline at the confluence of Jatadharmohan creek near Paradeep for POSCO India project	It was decided to recommend the proposal to the MoEF, Govt. of India	Proposal was sent to MoEF, Govt. of India, Govt. of India vide Letter No.142/ OCZMA Dt.06.08.2014
B2.	Development of Community (fisher folk) Amenities at Chilika, Kalijai, District -Puri by OTDC Ltd. under ICZM Projects	It was decided to grant CRZ clearance to the proposed project.	The CRZ clearance order was issued to the project proponent vide Letter No.- 140/OCZMA Dt. 06.08.2014
B3.	Reconstruction Housing Project at 16 locations in Ganjam district under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	The Authority discussed the matter in details and location of the site (as regard to the CRZ zonation) was verified site to site basis and grant of CRZ clearance was decided accordingly.	Authority decided to grant CRZ clearance to 9 project proposal located in CRZ-III (B) area and suggested to the project proponent to submit a comprehensive plan & necessary disaster management provision for 5 proposals located in CRZ-III (A) area i.e NDZ for recommendation to MoEF Govt. of India and for the rest 2 project proposals located at the CRZ-I area, the authority refused the CRZ Clearance and suggested the project proponent to shift the project locations which are permissible under CRZ Notification, 2011.
1	Reconstruction of housing project at Patisunapur, Block-Chikiti, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	The authority refused to consider CRZ Clearance to the dwelling units in CRZ-I area and suggested to the project proponent to shift the project site to CRZ_III (A)/ CRZ-III(B) i.e within the permissible	The decision of the committee was communicated to the project proponent vide Letter No.136 Dt. 06.08.2014

Rep

		activity of CRZ Notification, 2011.	
2	Reconstruction of housing project at Binchanapalli, Block-Ganjam, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to grant CRZ clearance to the proposed project (CRZ-III (B) area)	The CRZ clearance order was issued to the project proponent vide Letter No.- 121/OCZMA Dt. 06.08.2014
3	Reconstruction of housing project at Bhamarakudi, Block-Ganjam, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to grant CRZ clearance to the proposed project (CRZ-III (B) area).	The CRZ clearance order was issued to the project proponent vide Letter No.- 127/OCZMA Dt. 06.08.2014
4	Reconstruction of housing project at Haridamula, Block-Khallikote, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to grant CRZ clearance to the proposed project.(CRZ-III (B) area)	The CRZ clearance order was issued to the project proponent vide Letter No.- 125/OCZMA Dt. 05.08.2014
5	Reconstruction of housing project at Agastinuagaon, Block-chhatrapur, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to recommend the proposal (CRZ-III (A)) area to the MoEF, Govt. of India, if the project proponent resubmits the comprehensive plan and necessary disaster management provision, sanitation within 2 weeks time.	The decision of the committee was communicated to the project proponent vide Letter No.131 Dt. 06.08.2014
6	Reconstruction of housing project at Chandanbada, Block-Chikiti, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to grant CRZ clearance to the proposed project.(CRZ-III (B) area)	The CRZ clearance order was issued to the project proponent vide Letter No.- 123/OCZMA Dt. 06.08.2014
7	Reconstruction of housing project at Ekasingi, Block-Chikiti, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to grant CRZ clearance to the proposed project.(CRZ-III (B) area)	The CRZ clearance order was issued to the project proponent vide Letter No.- 119/OCZMA Dt. 06.08.2014
8	Reconstruction of housing project at Venkatraipur, Block-Rangilunda, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to grant CRZ clearance to the proposed project.(CRZ-III (B) area)	The CRZ clearance order was issued to the project proponent vide Letter No.- 117/OCZMA Dt. 06.08.2014

Handwritten signature/initials

	Authority (OSDMA)		
9	Reconstruction of housing project at Markandi, Block-Rangilunda, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	The authority refused to consider CRZ Clearance to the dwelling units in CRZ-I area and suggested to the project proponent to shift the project site to CRZ-III (A) or CRZ-III(B) i.e within the permissible activity of CRZ Notification, 2011.	The decision of the committee was communicated to the project proponent vide Letter No.137 Dt. 06.08.2014
10	Reconstruction of housing project at Arjipalli, Block-chhatrapur, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to grant CRZ clearance to the proposed project.(CRZ-III (B) area)	The CRZ clearance order was issued to the project proponent vide Letter No.- 115/OCZMA Dt. 06.08.2014
11	Reconstruction of housing project at Phasidi, Block-Khallikote, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to recommend the proposal (CRZ-III (A) area to the MoEF, Govt. of India, if the project proponent resubmits the comprehensive plan and necessary disaster management provision, sanitation within 2 weeks time.	The decision of the Authority was communicated to the project proponent vide Letter No.134 Dt. 06.08.2014
12	Reconstruction of housing project at Keshapur, Block-Khallikote, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to grant CRZ clearance to the proposed project.(CRZ-III (B) area)	The CRZ clearance order was issued to the project proponent vide Letter No.- 129/OCZMA Dt. 06.08.2014
13	Reconstruction of housing project at Samalnasi, Block-Khallikote, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to recommend the proposal (CRZ-III (A) area to the MoEF, Govt. of India, if the project proponent resubmits the comprehensive plan and necessary disaster management provision, sanitation within 2 weeks time.	The decision of the Authority was communicated to the project proponent vide Letter No.133 Dt. 06.08.2014
14	Reconstruction of housing project at Dhakabali, Block-Khallikote, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to recommend the proposal (CRZ-III (A) area to the MoEF, Govt. of India, if the project proponent resubmits the comprehensive plan and necessary disaster management provision, sanitation within 2	The decision of the Authority was communicated to the project proponent vide Letter No.132 Dt. 06.08.2014

Rup

		weeks time.	
15	Reconstruction of housing project at Jagannathapatana, Block-Khallikote, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to recommend the proposal (CRZ-III (A) area to the MoEF, Govt. of India, if the project proponent resubmits the comprehensive plan and necessary disaster management provision, sanitation within 2 weeks time.	The decision of the Authority was communicated to the project proponent vide Letter No.135 Dt. 06.08.2014
16	Reconstruction of housing project at Kanaka, Block-Khallikote, District Ganjam under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)	It was decided to grant CRZ clearance to the proposed project.(CRZ-III (B) area)	The CRZ clearance order was issued to the project proponent vide Letter No.- 138/OCZMA Dt. 06.08.2014
17	Transfer of CRZ cleared project proposal "Establishment of Swosti SPA and Villa-a Beach Resort" at Odiya Alapur, Ganjam District of Swosti Vacation Club, Bhubaneswar to Swosti Premium Ltd., Bhubaneswar with a change of name To Swosti Chilika Resort.	Authority agreed for transfer of CRZ Clearance granted in favour of "Swosti Vacation Club" to "Swosti Premium Ltd." with the change of the name of the project from "Swosti SPA and Villa-a Beach Resort" to "Swosti Chilika Resort". The project proponent shall give an undertaking to strictly abide by the terms and conditions as stipulated in the previous CRZ clearance order and deposit a scrutiny fee of Rs. 25,000 for the above purpose.	The CRZ clearance order was issued to the project proponent vide Letter No.- 144/OCZMA Dt. 06.08.2014. after submission of the following necessary undertaking and deposition of scrutiny fee of Rs. 25,000/-.

Others

Sl. No.	Issues	Compliance	Decision of the Authority:
18	CRZ violations matters	Collector & District Magistrates of 6 Coastal Districts of Odisha (Puri, Ganjam, Kendrapada, Jagatsighpur, Balasore and Khurda) have been again requested through a reminder dtd 17.7.2014 to cause an enquiry into	DO Letters will be communicated to the concerned RDCs to direct the concerned collectors /District Magistrate of the coastal districts to speed up of the action against the alleged CRZ violation cases.

		the alleged violations/ illegal constructions, if any and to furnish an Action Taken Report.	
19	Audit of OCZMA Account	Audit is completed. Report under final scrutiny	
20	CZM Plan	<p>Preparation of Coastal Zone Management Plan</p> <p>Para 5 (vi) of the CRZ Notification stipulates that the Coastal States will prepare draft CZMPs in 1:25000 scale map identifying and classifying the CRZ areas within the respective territories in accordance with the guidelines given in the Notification.</p> <p>Accordingly, a status report indicating the action already taken and further activities to be taken for Odisha, is given below:</p> <ol style="list-style-type: none"> 1. Odisha Space Application Centre (ORSAC), Bhubaneswar has prepared CRZ maps in 1:25000 scale for the State of Odisha (altogether 87 maps) classifying CRZ I, II, III, IV using LISS-IV (2012) data and mapping of HTL/LTL with the help of SAC. Preliminary maps were prepared showing HTL/LTL all along the coast using Resourcesat-1 LISS-IV data of 2012 as per the guidelines of MoEF. Necessary Ground truthing has been made. Maps were finalized by ORSAC after necessary scrutiny and guidance by the scientists of SAC from 	

Rep

Rep

		<p>time to time and the quality checking was completed. HTL and LTL have been demarcated by the Scientists of SAC on the land use maps of the entire State.</p> <p>2. Soft copies of the maps have been sent to all concerned Departments of State Government and Collectors of coastal districts, soliciting their views/comments/inputs especially regarding the existing infrastructure they have in the coast and proposed projects, if any, to be undertaken under their jurisdiction in the near future. Some responses have been received.</p> <p>3. Simultaneously consultation meetings have been taken up by the District Coastal Zone Management Committees with the stakeholders in the district level. Out of 7 coastal districts, information received from 6 districts have been incorporated and reply from Bhadrakh district is awaited.</p> <p>4. A State level consultation is being proposed to be taken up with all concerned Departments for the purpose. The proceedings of all such consultation meetings along with the maps will be submitted to OCZMA</p>	<p>4 (i)The authority decided that the State level consultation workshop with concerned Departments should be taken by last week of November,2014</p> <p>4 (ii) The members of the Authority may be invited to the workshop.</p>
--	--	--	--

		<p>for their appraisal in a special meeting to be convened.</p> <p>5. All these above records along with the authentication from SAC will be submitted to MoEF for their approval.</p> <p>6. In the mean time, meetings were held in MoEF, New Delhi on this issue. Accordingly, NCSCM, an organization authorised by MoEF has sought for the copies of the prepared maps in .shp format. The same has been provided by ORSAC and sent to NCSCM.</p> <p><u>Preparation of Integrated Coastal Zone Management Plan</u></p> <p>Regarding Integrated Coastal Zone management Plan, the plan for Odisha is being prepared under the World Bank assisted ICZM project.</p>	<p>5. Chairman decided that he would write a D.O. letter to the Commissioner –cum- Secretary, Tourism Dept to hold meeting of the committee constituted by the Government and to furnish recommendation to the F & E dept regarding Tourism development in CRZ areas of the state at an early date.</p>
--	--	---	---

Rue

C. RESUBMITTED PROPOSALS

C.1 Reconstruction Housing Project at Markandi village in Ganjam district under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)

In pursuance of the view taken by OCZMA in the 23rd meeting held on 02.07.2014, the project proponent, Odisha State Disaster Management Authority (OSDMA), Govt. of Odisha, resubmitted the proposal with change of project site from CRZ-I to CRZ-III (B) area (area between 200-500 m from HTL towards landward side) and the General Manager & GIS Experts –cum- Environmental Specialist of OSDMA, made a presentation on the project proposal before the Authority during the 24th meeting of OCZMA held on 12.11.2014.

The objective of the project is to recover from the severe damage of cyclone Phailin, Govt. of Odisha and World Bank has taken the responsibility for a reconstruction-cum-vulnerability reduction programme that includes rebuilding the damaged houses including relocation of the community to safer and tenable land in the coastal districts.

The cost of the project is Rs. 22.32 Crores and is jointly funded by World Bank & Govt of Odisha.

The resubmitted project area is located in Markandi village, Rangeilunca Block in Ganjam district. The project proposals includes 2 sites i.e. Site-I ($19^{\circ} 11' 3.951''\text{N}$ & $84^{\circ} 49' 51.472''\text{E}$) & Site-II ($19^{\circ} 11' 16.142''\text{N}$ & $84^{\circ} 49' 56.744''\text{E}$). The project sites are located in CRZ-III (B) (200-500 m from the HTL towards landward side) area (as indicated in CRZ Map NO. 74A/16/NW Sheet No.4 in 1:25,000 scales prepared by ORSAC & sponsored by Dept. of F & E, Govt. of Odisha).

The total area acquired for the proposed project is Rs. 29.8 Ac. of Govt. land.

The construction will be undertaken as per the ToR for Owner Driven Construction of House (ODCH) under Odisha Disaster Recovery Project (ODRP) to reduce the vulnerability of constructing pucca houses was developed by Odisha State Disaster Management Authority (OSDMA) for implementation.

In collaboration with the Collectors of Ganjam district, total of 620 nos. of dwelling units will be constructed and each unit will be 252 sq ft of plinth area and constructed within 1000 sq ft. plot area. Internal road, Drainage facilities, Water Supply, Electricity will be provided to each house. To ensure hazard resilience, the plinth of the houses will be raised above the average annual flood level and with a built in loft that serves as shelter during flood events. The houses will be constructed with a maximum height of 4 m from the ground and should ideally include water storage facilities and a verandah. Implementation of the project will involve only Govt. land. The traditional building skills, cultural preference and local building materials and involvement of the beneficiary will be encouraged to enhance beneficiary ownership.

Rev

The project proponent has assessed the environmental impact of the project, which is very negligible and incorporated the Environmental Management Plan for mitigation of the impact. The Disaster Management Plan addressed the nature of disasters as indicated in the multi-hazard map of the area, assessed the risk involved and incorporate the design and construction technologies for the owner driven construction houses to withstand the impacts of the disasters.

The proponent appraised that the proposed activities are permissible under **Para 8 (i) (III) B (vii)**: "construction or **reconstruction of dwelling units** so long it is within the ambit of traditional rights and customary uses such as existing fishing villages and goathans. Building permission for such construction or reconstruction will be subject to local town and country planning rules with overall height of construction not exceeding 9 m with floors (ground+ one floor)"

Para 8 (i) (III) B (viii) "Construction of public rain shelters, community toilets, water supply, drainage, sewerage, roads and bridges by CZMA who may also permit construction of schools and dispensaries for local inhabitants of the area for those panchayats, the major part of which falls within CRZ if no other area is available for construction of such facilities".

The project does not attract Environmental Clearance under EIA Notification, 2006.

The Authority discussed the matter in details and approved the proposal for "**Reconstruction Housing Project at Markandi village in Ganjam district**" under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA) as per the provision of CRZ Notification, 2011.

C.2 Reconstruction Housing Project at Patisunapur village in Ganjam district under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA)

In pursuance of the view taken by OCZMA in the 23rd meeting held on 02.07.2014 the project proponent, Odisha State Disaster Management Authority (OSDMA), Govt. of Odisha, resubmitted the proposal with change of project site from CRZ-I to CRZ-III (B) (200-500 m from the HTL towards landward side) area and the General Manager & GIS Experts –cum- Environmental Specialist of OSDMA, made a presentation on the project proposal before the Authority during the 24th meeting of OCZMA held on 12.11.2014.

The objective of the project is to recover from the severe damage of cyclone Phailin, Govt. of Odisha and World Bank have taken responsibility for a reconstruction-cum-vulnerability reduction programme that includes rebuilding the damaged houses including relocation of the community to safer and tenable land in the coastal district.

The cost of the project is Rs. 25.812 Crores and is funded by World Bank & Govt of Odisha.

The resubmitted project area is located in Patisunapur village, Chikiti Block in Ganjam district. The project proposals have 3 sites i.e. Site-I ($19^{\circ}5'58.113''N$ & $84^{\circ}46'30.2''E$), Site-II ($19^{\circ}5'26.575''N$ & $84^{\circ}46'12.47''E$) & Site-III ($19^{\circ}4'58.013''N$ & $84^{\circ}45'56.668''E$). The project sites are located in CRZ-III (B) (200-500 m from HTL toward the landward side) area (as in CRZ Map NO. 74A/16/SW Sheet No.2 in 1:25,000 scales prepared by ORSAC & sponsored by Dept. of F & E, Govt. of Odisha).

The total area acquired for the proposed project is 20.9768 Ac. of Govt. lands.

The construction will be undertaken as per the ToR for Owner Driven Construction of House (ODCH) under Odisha Disaster Recovery Project (ODRP) to reduce the vulnerability of constructing pucca house was developed by Odisha State Disaster Management Authority (OSDMA) for implementation in collaboration with the Collectors of Ganjam. Total of 717 no. of dwelling unit will be constructed and each unit will be 252 sq ft of plinth area and will be constructed within 1000 sq ft plot area. Internal road, Drainage facilities, Water Supply, Electricity will be provided to each house. To ensure hazard resilience, the plinth of the houses will be raised above the average annual flood level and with a built in loft that serves as shelter during flood events. The houses will be constructed with a maximum height of 4 m from the ground. Houses should ideally include water storage facilities and a verandah. Implementation of the project will involve only Govt. land. The traditional building skills, cultural preference and local building materials and involvement of the beneficiary will be encouraged to enhance beneficiary ownership.

The project proponent has assessed the environmental impact of the project, which is very negligible and incorporated the Environmental Management Plan for mitigation of the impact. The Disaster

Rup

Management Plan addressed the nature of disasters as indicated in the multi-hazard map of the area, assessed the risk involved and incorporate the design and construction technologies for the owner driven construction houses to withstand the impacts of the disasters.

The proponent appraised that the proposed activities are permissible under **Para 8 (i) (III) B (vii)**: “construction or reconstruction of dwelling units so long it is within the ambit of traditional rights and customary uses such as existing fishing villages and goathans. Building permission for such construction or reconstruction will be subject to local town and country planning rules with overall height of construction not exceeding 9 m with floors (ground+ one floor)”

Para 8 (i) (III) B (viii) “Construction of public rain shelters, community toilets, water supply, drainage, sewerage, roads and bridges by CZMA who may also permit construction of schools and dispensaries for local inhabitants of the area for those panchayats, the major part of which falls within CRZ if no other area is available for construction of such facilities”.

The project does not attract Environmental Clearance under EIA Notification, 2006.

The Authority discussed the matter in details and approved the proposal for “**Reconstruction Housing Project at Patisunapur village in Ganjam district**” under Odisha Disaster Recovery Project (ODRP) by Odisha State Disaster Management Authority (OSDMA) as per the provision of CRZ Notification, 2011.

D. FRESH PROPOSALS

1. Construction of Hotel at Puri for Peerless Hotels Ltd

The project proponent intimated that they will not be able to present their proposal in this meeting and requested to allow them to present their proposal in the next OCZMA meeting. This was deferred.

2. Construction of an Offshore Breakwater at Paradip Port by Pradip Port Trust

The Chief Engineer, Paradip Port Trust, made a presentation on the project proposal for “Construction of an Offshore Breakwater at Paradip Port, Paradip in the district of Jagatsinghpur”.

Reg The project proponent appraised that the Paradip port is considered as a modernized bulk port terminal in India with mechanized coal and iron handling. At present Paradip port is capable of handling Panamax vessels up to 65,000 DWT and depth of the approach channel is 12.9 m CD. To expand the marine facilities Paradip Port Trust intends to construct an offshore breakwater, which would provide the wave tranquillity in the approach channel and harbour basin for safe navigation of bigger size vessels up to 125,000 DWT vessels initially & 185,000 DWT vessels at later stage. It would also protect the sand trap areas so that effective maintenance dredging of the sand trap areas can be carried out by the port at any time of the year.

At present the harbour basin is protected by two breakwaters i.e. south break water 1217 m long and north breakwater 538m long and now proposed for an offshore breakwater of appx.1600m long & 90m width and oriented in east west direction. The water depth along the offshore breakwater varies between -10.8 m CD at the western ends to about -12.8 m CD at the eastern end.

The total cost of the project is Rs. 392 Crores.

The location of the project is coming under CRZ-IV area i.e 1000m away from the shoreline (CRZ Map in 1:4000 & 1:25,000 Scales, Prepared by NIO, Goa).

The project proponent in their Rapid/ Comprehensive EIA Report has indicated the EMP with mitigation measures to minimize the adverse impact both during construction and operation phase in the air, water environment and on aquatic life. Significant gaps/ deficiencies are identified in the area of protection of aquatic flora and fauna including Olive Ridley, waste management, modelling study of littoral drift to assess the impact at the sand trap area and impact on coastal erosion including the shore-line stability.

In the Disaster Management Plan, the project proponent has not suggested the stability steps & design criteria to with stand in severe cyclonic storms and tsunami. In case of such an eventuality it needs to be assessed the impact of such a long structure in the surrounding area.

The proposed activity is permissible under **Para 3(i) (a)** "The expression "foreshore facilities" means those activities permissible under this notification and they require waterfront for their operations such as ports and harbours, jetties, quays, wharves, erosion control measures, **breakwaters**, pipelines, lighthouses, navigational safety facilities, coastal police stations and the like.;

The project attracts Environment Clearance (under Para 7(e), Category 'A' of EIA Notification, 2006.

The committee reviewed the documents submitted by Paradip Port Trust. The members of the committee found gaps and inadequacies in following aspects in the EIA Report as well as in Disaster Management Plan:

1. Detail study on Olive Ridley sea turtle and impact of the project on them and possible mitigation plan.
2. Relevant Modelling study regarding the impact on coastal erosion and shoreline stability.
3. Use of specific technology on break water construction to minimise the adverse impact on air & water environment and aquatic life of that area.
4. Method of waste disposal to minimize pollution
5. Specific design criteria to withstand the impact of severe disasters.
6. Proper study on biodiversity, impact of the proposed project on them and adequate protection measures.

The Authority deliberated on various issues and decided to form a Sub-committee comprising of the following members:

- a) Chief Executive, Chilika Development Authority
- b) Principal Chief Conservator of Forest (WL) & Chief Wild Life Warden, Odisha
- c) Chief Executive, ORSAC
- d) HoD, Marine Science Dept. Berhampur University
- e) Senior Scientist (E & E), Forest & Environment Dept., Govt. of Odisha

The Sub-committee may visit the site and may decide further studies to be undertaken by the project proponent. The project proponent is required to furnish a report on the following issues within two weeks to the Authority for consideration of the Sub-committee.

1. Possible impact on the Olive Ridley and other marine organisms around the project area both during construction and operation phase.
2. Impact of excavation/construction/dredging on both flora and fauna at the project site.
3. Waste disposal plan
4. Modelling study to assess the possible impact on shoreline stability (coastal erosion) near the project area.

The Authority will examine all the reports along with recommendations of the Sub-committee.

3. Laying of "Paradip-Haldia-Durgapur LPG Pipeline" in the existing RoW of Paradip-Haldia crude oil pipe line in the state of Odisha by Indian Oil Corporation Limited (IOCL)


Project Manager (T & I), Indian Oil Corporation Ltd. made a presentation on the proposal for laying of "Paradip-Haldia-Durgapur LPG Pipeline" in the existing RoW of Paradip-Haldia crude oil pipe line in the state of Odisha and their consultants such as NIO, Goa and Mantec Consultants PVT. Ltd assisted in the CRZ Applicability Study and EIA as well as Risk assessment and Disaster Management Plan respectively.

The total length of the pipeline is 710 km out of which 240 km is within the State of Odisha. The route of proposed Laying of pipeline is Paradip-Balasore-Haldia-Budge Budge-Kalyani-Durgapur, which is alongside (5 m) of the existing pipeline route of Paradeep-Haldia crude oil pipeline up to Durgapur.

This is a first track project to evacuate the finished products with an emphasis on rural marketing as advised by Ministry of Petroleum & Natural Gas with an objective of transporting of LPG in a safe and reliable manner. The pipeline systems are the safest and environmental friendly mode of transportation of crude and other petroleum products in comparison with traditional /other modes. Being a closed loop system, handling and transportation losses are minimum and are considered as most efficient mode of transportation. The proposed laying of pipeline is underground and followed the existing pipeline route of Paradip-Haldia crude oil pipeline up to Haldia.

Total project cost for 710 km pipeline is Rs.913 crores, out of which 240 km fall in Odisha having an outlay of Rs. 257 crores.

Project profile: The proposed laying of pipeline system broadly involves the following activities.

- 
- Installation of pump station at Paradeep and Haldia.
 - Laying of 10.75" DD, 678 km pipeline from Paradip to Durgapur
 - Installation of delivery facilities at Balasore, Budge- Budge, Kalyani and Durgapur.

The total length of the proposed pipeline is 710km out of which 240 km is passing through the state of Odisha. The existing Right of Way (RoW) (width of 18 meters) of Paradip-Haldia Crude Oil Pipe Line (PHCPL) shall be utilized for the said purpose laid in accordance with Oil Industry Safety

Directorate (OISD-141). The proposed new pipeline shall be laid in the RoW of PHCPL, at a distance of 5 m. from the existing crude oil pipeline and the spur line pipeline section at Balasore as per the provision /standards governed by OISD-141. The pipeline shall be laid at a depth of about 1.25 to 1.5 m from ground level as per the standard design of OISD-141. Diameter of the main pipeline shall be 10.75" all throughout. After laying of the pipeline, the area will be restored back and the corridor will be demarcated with boundary pillars at regular intervals.

Route of pipeline: As regard to the pipeline route, the pipeline will originate from Paradeep and follow existing pipeline route up to Haldia. Various pump stations and delivery stations are thus an intermediary in this pipeline route. In Odisha, the installation of sectionalising valves and delivery station is proposed at Balasore.

The terrain along the pipeline route is mostly flat and plain, which includes stretches of low laying area in between. There is no rocky terrain along the proposed pipeline route. The pipelines would cross a number of Rivers, creeks and canals. At larger distance Horizontal Direction Drilling (HDD) technique will be used and at minor rivers/canals pipeline shall be laid by submerge crossing method. Provisions have also been kept for installing pipeline by HDD method and bored cased crossing method at selected National / State Highways, and at railway crossings.

The pipeline would provide motor operated sectionalized valves at regular intervals all along the pipeline route and providing the additional sectionalized valves in one side and non returning valve (NVR) on the other side of each Major River and Canal crossing. For stability the pipe shall be protected with double layered fusion bonded epoxy coating at HDD / water crossing locations and 3LPE coated. Diameter of the pipeline shall be 10.75" all through the main pipe line and API 5LX60 grade CS shall be used as main pipe.

The proposed laying of LPG pipeline will cross 17 Rivers, Creeks and Nalas in Odisha, which are coming under CRZ area (as indicated in CRZ Map in 1:4000 scale prepared by National institute of Oceanography, Goa). The project proponent has indicated that the length of the pipeline in CRZ-I area is 3.21 km, CRZ-III area is 2.25 km & in CRZ-IV area it covers 5.32 km (13-15 m below the deepest depth of the creeks, rivers and nalas, which are designated as CRZ-IV areas) and covering total length in CRZ area is 10.78Km out of the total length of 240km in the state of Odisha.

LOCATION – WISE DETAILS OF CRZ AREAS AS PER NIO OBSERVATIONS

Location	CRZ Category	Constituents ** M: Mangrove C: Creek T: Tidal Flat	Length (Mtr.)	Area (Length*18M) (Ha)	Clause under which proposed activity is permissible
Santra Creek	*Below CRZ IV (B) & CRZ I	M, C, T	2487.0344	4.4767	4 (ii) d 8 (i) (l) (i) (b)
Baitargarh Nala	*Below CRZ IV (B) & CRZ III	C, T	88.9710 219.8253	0.1601 0.3957	4 (ii) d 8 (i) (l) (i) (b)

Rup

<i>Paradip Canal</i>	*CRZ IV(B) & CRZ III	C	56.9163 111.5769	0.1024 0.2008	4 (ii) d 8 (i) (l) (i) (b)
<i>Mahanadi River</i>	*Below CRZ IV (B) & CRZ III	C,T	1102.7904 247.3363	1.9850 0.4452	4 (ii) d 8 (i) (l) (i) (b)
<i>Gupti River</i>	*Below CRZ IV(B) & CRZ I	C,T	243.1841 330.3267	0.4377 0.5946	4 (ii) d 8 (i) (l) (i) (b)
<i>Guptagiri Nala</i>	*Below CRZ IV (B), CRZ III & CRZ I	C,T	175.8775 86.7320 73.8786	0.3166 0.1561 0.1330	4 (ii) d 8 (i) (l) (i) (b)
<i>Gobri River</i>	*Below CRZ IV (B) & CRZ I	M,C,T	434.4809 204.0593	0.7821 0.3673	4 (ii) d 8 (i) (l) (i) (b)
<i>Nuna Nala</i>	*Below CRZ IV (B) & CRZ I	C,T	57.8040 117.7021	0.1040 0.2119	4 (ii) d 8 (i) (l) (i) (b)
<i>Sankrupajhor Nala</i>	*Below CRZ IV (B) & CRZ III	C	92.7253 127.3249	0.1669 0.2292	4 (ii) d 8 (i) (l) (i) (b)
<i>Brahmani River</i>	*Below CRZ IV(B) & CRZ III	C	288.6900 210.8629	0.5196 0.3795	4 (ii) d 8 (i) (l) (i) (b)
<i>Khursua River</i>	Below CRZ IV (B) & CRZ III	C	228.5529 227.9147	0.4114 0.4102	4 (ii) d 8 (i) (l) (i) (b)
<i>Baitarani River</i>	*Below CRZ IV (B) &	C	402.4302 248.1858	0.7244 0.4467	4 (ii) d 8 (i) (l) (i) (b)
<i>Mantei River</i>	*Below CRZ IV (B) & CRZ III	C,T	51.6123 106.2439	0.0929 0.1912	4 (ii) d 8 (i) (l) (i) (b)
<i>Budhabalanga River</i>	*Below CRZ IV (B) & CRZ III	C	168.4300 204.1674	0.3032 0.3675	4 (ii) d 8 (i) (l) (i) (b)
<i>Jalaka (Jhinga) Nala</i>	*Below CRZ IV (B) & CRZ III	C	50.9433 143.3584	0.0917 0.2580	4 (ii) d 8 (i) (l) (i) (b)

Rsg

<i>Pegper a Nala</i>	*Below CRZ IV (B) & CRZ III	C	52.7610 104.7329	0.0950 0.1885	4 (ii) d 8 (i) (l) (i) (b)
<i>Subam arekha River</i>	*Below CRZ IV (B) & CRZ III	C	1828.6725 211.9701	3.2916 0.3815	4 (ii) d 8 (i) (l) (i) (b)

NB- * 10-15 m below the deepest point of creeks, rivers and water body

CRZ Zonation wise laying of pipeline

CRZ Category	Length of pipeline under CRZ (meter)	Area under CRZ (Ha)	Volume under CRZ (cubic meter)
CRZ-I	3213.001	5.7834	631.1252
CRZ-III	2250.232	4.0504	442.0098
13-15 m below CRZ-IV area	5324.842	9.5847	1045.951
In total under CRZ	10788.075	19.4185	2119.086

Environmental Impact Assessment study conducted for the proposed project and possible impacts have been screened and mitigation measures both in the construction and operation phase are indicated in the submitted EIA report. The safety factors like wind load, seismic load, soil bearing capacity etc. is to be taken in to account for designing the civil structures. In the Environmental Management Plan, the proponent has incorporated mitigation measures for the activities screened and identified to be responsible for environmental impact. The project has kept option for monitoring plan as well as provision of resources for monitoring.

The proponent has prepared a disaster management report, risk assessment and management plan for effective measures in case of possible eventuality during a disaster. During presentation of the proposal by the proponent it was submitted that there shall be no corrosion in the pipeline and no leakage from the joints and reliable mitigation plans have been included under Risk Reduction measures.

The proposed activity is permissible under **Para 4 (ii) (d)** "laying of pipelines, conveying systems, transmission line" & **Para 8(i) (I) CRZ-I (i) (b)** "pipelines, conveying systems including transmission lines"

The project does not attract Environment Clearance under the provision of EIA Notification, 2006.

The Authority discussed the proposal in detail and considered recommending the proposal for grant of CRZ Clearance from MoEF, Govt. of India as per the provision of CRZ Notification, 2011 subject to the following terms and conditions:

- I. The laying of pipeline should be undertaken under the supervision of NIO, Goa, to ensure that the pipeline does not affect sand dunes.
- II. The project proponent agreed to meet the cost for creation of 240 Ha. of Shelter belt at its cost with local site specific suitable species through State Forest Department / State Forest Development Corporation. Cost of such coastal shelter belt plantation will be deposited by the project proponent with the implementing agency before commencing project work.

4. 120 MW Thermal Power Plant at village Sriramchandrapur, District Ganjam in Odisha by M/s Dr. Ramakrishna Prasad Pvt. Ltd.

General Manager of M/s Dr. Ramakrishna Prasad Pvt. Ltd. has submitted a request for issuance of a certificate that the proposed 120 MW Thermal Power Plant at village Sri Ramchandrapur, District Ganjam is outside the CRZ Notified area. The project proponent acquired an area of 87.7 Ac. and cost of the project is Rs 700 crores.

The need of issuance of such certificate came from the requirement of fulfilment of the Terms of Reference (ToR) no. J-13012/27/2012-IA. II (T) Dated. 26.09.2012, issued by the Ministry of Environment and Forest (MoEF), New Delhi that the project is not located in the CRZ area for obtaining Environmental Clearance under the provision of EIA Notification, 2006 and also for the fulfilment of the requirement of State Level Single Window Clearance Authority (SLSWCA), Odisha vide letter no.SJ/SLSWCA-2172/898 Dated 28/06/2010 for a certificate from the concerned Authority regarding the location of the project beyond CRZ area.

The proponent has submitted the CRZ Map (prepared by ORSAC & Sponsored by F& E Dept. Govt. of Odisha in 1:25,000 scales) indicating the project location depicting 4 co-ordinates of the plant boundary (1. $19^{\circ} 19' 55.75''N$ & $84^{\circ} 56' 21.73''E$, 2. $19^{\circ} 19' 39.62''N$ & $84^{\circ} 56' 18.09'' E$ 3. $19^{\circ} 19' 54.02''N$ & $84^{\circ} 56' 32.95''E$ and $19^{\circ} 19' 28.82''N$ & $84^{\circ} 56' 21.51''E$). The project proponent also indicated that distance of the project site from the nearest CRZ boundary is 2.66 km. The project proponent also submitted another report from Odisha Geo Spatial Data Center, Survey Of India, Bhubaneswar indicating location of 3 approximate WGS-84 co-ordinates from the proposed site (situated near the sea shore near Gopalpur) to the nearest project site at 4.2, 3.9 & 4.2 km, which have been marked in the OSM sheet no. 74A/15 (E45A15) and is dully authenticated.

On verification of report of the Survey of India, Bhubaneswar & the CRZ map (Sheet No.6, 1:25,000 scales), it is evident that the location of the proposed site is at least 2.9 km away from the CRZ area.

The matter was discussed in details and the Authority decided to Issue certificate to the project proponent mentioning that the project site is not coming under CRZ area.

5. Restoration of saline embankments and gherries damaged during the cyclone Phailin by Water Resource Dept. Govt. of Odisha.

The Chief Engineer-cum-Project Director, Project Management Unit (PMU) Odisha Integrated Irrigated Agriculture and Water Management Investment Programme (OIIAMIP), Bhubaneswar made a presentation on 12 project proposals for "Restoration of saline embankments and gherries damaged during the cyclone phailin at different locations.

Rup
The objective of the project is to renovate the damaged saline embankments/sluices and filling of embankment gaps and construction of new sluices/spurs, with the purpose to protect people, livestock, agricultural fields, prevent water logging and saline ingress and to help people with sustainable agriculture production and providing alternative communication facility over the saline embankments to the adjacent villages and saving of lives of the people in the locality by way of movement of rescue/relief and emergency aid.

The renovations of the saline embankments (height and width) primarily determined on the basis of Dr Khosla Committee Report (1971), the Vulnerability Atlas of India (1997) by Meteorological Department of India and the Canadian company (Baird and associates, 2002). The combined surge,

tide & wave formed the basis of surge height, which varies from 10.20 m in the north Orissa Coast (Balasore) to 4.30 m in the southern Orissa coast (Ganjam). The renovation design of the embankment was based on the surge height, soil texture, elevation of the land from the MSL and above all the site specific surge energy.

The area proposed for protection are in the close proximity of the Sea Coast /Chilika periphery and are vulnerable to the adverse effect of tidal surge and wave set up, apart from the back water of the flood, upstream of outfall point of river mouth & sea. The existing saline embankments, constructed to protect the coastal villages/ area are not in proper section.

As the soil texture is mostly silty loam, clayey loam and alluvial loams the slope of the restoration embankments in majority of the cases it will be 2:1 (both sides) in few cases the landward side slope is planned for 1.5:1. In general, the slope protection measures suggested for turfing along the landward side where as hard granite stone packing is suggested towards the river/ seaward side. For additional strength of the embankments, toe wall is suggested, with stone & cement grouting. In general, the toe wall will remain at least 2ft underground and about 1 ft towards the sea/river or lake side (upward).

Rup

Handwritten signature

Brief of the 12 proposals attracting CRZ Clearances are as follows

Sl. No.	Name of the project & project proponent	Site address, area covered (length) location, ownership of land	Size of the project (in terms of total length)	CRZ Status & map no.	Permissible provision under CRZ Notification	Project cost and funding source	Details about the construction	
							Construction design parameters	Extension of land required (beyond the existing land area)
1	Restoration of existing Paikerapur saline gherry from RD 00 KM to 12.8 km in Krushnaprasad Block, Puri District.	At-Paikerapur Block- Krushnaprasad, Distriuct -Puri. <u>Geographical location</u> <ul style="list-style-type: none"> • 19°28'23.5"N, 85°8'59.7"E (Starting) to • 19° 29'18.42"N, 85° 10' 7.95" E (Midpoint) • 19° 30' 43.18"N, 85° 11' 2.44" E(Midpoint) • 19° 29' 52.32"N, 85° 11' 43.005" E(Midpoint) • 19°30'53.6"N 85°12'55.8"E (End point) 	12.80 km	CRZ-III (A) Map No.74E/3/NE & 74E/2/SE (Sheet no-9 &10) (As per the CRZ map Prepared by ORSAC and sponsored by F & E Dept., Govt of Odisha)	Para 3 (i) (a) & Para 4(i) (f) of CRZ notification- 2011	Rs. 593.55 Lakhs By Asian Development Bank & Govt of Odisha	The existing top bank width of the saline embankment was 3.00m & the TBL varies from RL.3.50m to 4.00m. The average NSL varies from RL.1.36m to RL.2.30m with side slopes of 1.5:1/1.2:1. After Phailin attack the Saline embankment got eroded & heavy scouring took place at various points due to which the top bank width reduced to 0.50m./1.00m. Chilika surge water at some places of the embankment got over topped due to which the TBL reduced to RL.2.90- R.L.3.80mtr. At present the embankment has no free board in some places	0.55 Acres
2	Restoration of existing Titipo saline	At-Titipo Block- Krushnaprasad,	7.10 km	CRZ-III (A) Map no.	Para 3 (i) (a) & Para 4(i) (f)	Rs. 589.60 Lakhs	The existing top bank width of the saline embankment	o.11 Acres

	gherry from RD 00 KM to 7.10 km in Krushnaprasad Block, Puri District.	Distriuct –Puri <u>Geographical location</u> <ul style="list-style-type: none"> • 19°36'46.0"N 85°21'40.0"E (Start point) to • 19° 38'0.65"N, 85°23'17.51"E (Mid point) • 19°38'44.1"N, 85°21'50.7"E (End point) 		74E/6/SE, 74E/6/NE & 74E/6/NW Sheet no-12,13 &14 (As per the CRZ map Prepared by ORSAC and sponsored by F & E Dept., Govt of Odisha	of CRZ notification-2011		was 3.00m & the TBL varies from RL.3.50m to 4.00m. The average NSL varies from RL.1.29m to RL.2.39m with side slopes of 1.5:1/1.2:1. The embankment for the entire length was not in design standard as it was getting scoured due to high surge where there is no protection of toe and slope & during "Phailin" extensive damage occurred. After Phailin attack the Saline embankment got eroded & heavy scouring took place at various points due to which the top bank width reduced to 0.50m./2.50m. Chilika surge water at some places of the embankment got over topped due to which the TBL reduced to RL.2.92-R.L.3.50mtr.At present the embankment has no free board in some places.	
3	Restoration of existing Nuapada saline gherry from RD 00 KM to 4.80 km in Krushnaprasad Block, Puri District.	At-Nuapada Block- Krushnaprasad, Distriuct -Puri <u>Geographical location</u> <ul style="list-style-type: none"> • 19°38'47.9"N 85°24'27.6"E (Start point) to 	4.80 km	CRZ-III (A) Map no. 74E/6/NE Sheet no-13 (As per the CRZ map Prepared by	Para 3 (i) (a) & Para 4(i) (f) of CRZ notification-2011	Rs. 388.44 Lakhs	The existing top bank width of the saline embankment was 3.00m & the TBL varies from RL.3.50m to 4.00m. The average NSL varies from RL.1.36m to RL.2.30m with side slopes of 1.5:1/1.2:1.	0.83 Acres

1/6

55

		<ul style="list-style-type: none"> • 19° 39'52.01"N, 85° 24'17.47" E (Mid point) • 19°40'52.0"N 85°24'07.6"E (End point) 		ORSAC and sponsored by F & E Dept., Govt of Odisha)			The embankment for the entire length was not in design standard as it was getting scoured due to high surge where there is no protection of toe and slope & during "Phailin" extensive damage occurred. After Phailin attack the Saline embankment got eroded & heavy scouring took place at various points due to which the top bank width reduced to 0.50m./1.00m. Chilika surge water at some places of the embankment got over topped due to which the TBL reduced to RL.2.90-R.L.3.80mtr. At present the embankment has no free board in some places	
4	Restoration of existing Krushnaprasad saline gherry from RD 5.80 KM to 30.27 km in Krushnaprasad Block, Puri District.	At- Krushnaprasad Block- Krushnaprasad, Distriuct –Puri <u>Geographical location</u> <ul style="list-style-type: none"> • 19°37'58.6"N, 85°17'27.9"E (Start point) to • 19° 37' 57.27"N, 85° 14' 16.78" E (Midpoint) • 19° 36' 2.84"N, 85° 19' 6.18" E (Midpoint) 	24.47 km	CRZ-III (A) Map no. 74E/2/SE, 74E/6/SW, 74E/6/NW & 74E/2/NE Sheet no- 10,11,14 &16 (As per the CRZ map Prepared by ORSAC and	Para 3 (i) (a) & Para 4(i) (f) of CRZ notification- 2011	Rs. 498.39 Lakhs	The existing top bank width of the saline embankment was 3.00m & the TBL varies from RL.3.50m to 4.00m. The average NSL varies from RL.1.35m to RL.2.05m with side slopes of 1.5:1/1.2:1. The embankment for the entire length was not in design standard as it was getting scoured due to high surge where there is no	0.36 Acres

		<ul style="list-style-type: none"> • 19°39'38.9"N, 85°15'50.0"E (End point) 		sponsored by F & E Dept., Govt of Odisha)			protection of toe and slope & during "Phailin" extensive damage occurred. After Phailin attack the Saline embankment got eroded & heavy scouring took place at various points due to which the top bank width reduced to 1.00m./1.50m. Chilika surge water at some places of the embankment got over topped due to which the TBL reduced to RL.2.60-R.L.2.80mtr. At present the embankment has no freeboard in some place.	
5	Restoration of existing Jharlang- Belanga saline Embankment from RD 22.00 KM to 29.10 km in Astaranga Block, Puri District.	At- Jharlang-Belanga Block- Krushnaprasad, District –Puri <u>Geographical location</u> <ul style="list-style-type: none"> • 19°54'33.4"N 86° 13'30.6"E(Starting) • 19°54'52.536"N 86°14'30.0246"E (Midpint 1) • 19° 55'.00"N 86°14'59.833"E(Midpint) • 19° 55'45.4"N 86° 15'26.2"E(Ending) 	7.300 km	CRZ-III (A) Map no. 74 I/01NE, 74I/05/NW Sheet no-32 & 33 (As per the CRZ map Prepared by ORSAC and sponsored by F & E Dept., Govt of Odisha)	Para 3 (i) (a) & Para 4(i) (f) of CRZ notification- 2011	Rs. 1080.75 Lakhs	The existing saline embankments, constructed to protect the coastal villages/ area, are having top elevation of about 2.50 m to 3.0m.	8.80 Areas

23

156

6	Restoration of existing Serei-Bandala saline Embankment from RD 00 KM to 3.50 km in Astaranga Block, Puri District.	At- Serei-Bandala Block- Astaranga Distriuct-Puri <u>Geographical location</u> <ul style="list-style-type: none"> • 19° 54'46.8"N 86°12'47.7"E(Starting) • 19° 55'00.5038"N 86° 13'29.89"E(Midpoint) • 19° 54'40.751"N 86° 13'12.672"E(MidPoint) • 19° 55'10.3"N 86° 12'58.8"E (Ending) 	3.5 km	CRZ-III (A) Map no. 74 I/01NE Sheet no-32 (As per the CRZ map Prepared by ORSAC and sponsored by F & E Dept., Govt of Odisha)	Para 3 (i) (a) & Para 4(i) (f) of CRZ notification- 2011	Rs. 800.00 Lakhs	The existing saline embankments, constructed to protect the coastal villages/ area, are having top elevation of about 2.50 m to 3.0m.	3.39 Acres
7	Restoration of existing saline gherry Block-III RD 1.80 km to 7.80 km at Bhusandpur in Tangi Block, Khurdha District.	At-Bhusandpur in Block – Tangi District-Khurdha <u>Geographical location</u> <ul style="list-style-type: none"> • 19°54'58.5"N, 85°29'34.3"E (Start point) • 19°54'3.52"N, 85°29'14.35"E (Mid point) • 19°53'41.53"N, 85°30'16.85"E (Mid point) • 19°54'51.6"N, 85°30'33.9"E (End point) 	6.00 km	CRZ-III (A) Map No.74E/5/NE & 74E/9/NW; Sheet no-20 & 21 (As per the CRZ map Prepared by ORSAC and sponsored by F & E Dept., Govt of Odisha)	Para 3 (i) (a) & Para 4(i) (f) of CRZ notification- 2011	Rs. 420.83 Lakhs	The existing saline embankment, constructed to protect the coastal villages/ area, are not in proper section. The Top Bank Level (TBL) from RD 00 to 1.83km is around RL 2.90M, but after RD 4.88km up to RD7.80km the section is lean and TBL is about 1.50M to 2.00M. The embankment is often overtopped by high tide, during cyclonic storm causing heavy damages, thus the need and reason for renovation. Hence, accordingly the TBL has been kept at RL 3.20m (i.e. 1.20m above the HHTL of 2.00m)	

8	Restoration of existing saline gherry from Khairabandha to Chandraput in Chilika Block, Khurdha District.	Khairabandha Block- Chilika District-Khurdha <u>Geographical location</u> <ul style="list-style-type: none"> • 19°41'52.4"N 85°11'45.5"E (Start point) • 19° 42' 59.56"N, 85° 11' 41.36" E (Mid point) • 19° 42'20.37"N, 85° 11' 36.14" E (Mid point) • 19°43'40.1"N 85°12'25.3"E (End point) 	3.300 km	CRZ-III (A) Map no.74E/2/NE; Sheet no-16 (As per the CRZ map Prepared by ORSAC and sponsored by F & E Dept., Govt of Odisha)	Para 3 (i) (a) & Para 4(i) (f) of CRZ notification-2011	Rs. 603.50 Lakhs	The existing saline embankments, constructed to protect the coastal villages/ area, are not in proper section. Saline gherry from Khairabandha to Chandraput via Barkul embankment having existing top width of 2.50 m and side slope of 1:1.5 with a free board of 0.60m, due to 'Phailin' and incessant rains the embankment was eroded, washed out completely due to overtopping and tidal effect of Chilika water. Hence, accordingly the TBL has been kept at RL 4.00m (i.e. 1.40m above the HHTL of 2.60m)	
9	Restoration of existing Khairinashi saline Embankment from RD 0.00 km to 5.654 km in Mahakalapada Block, Kendrapada District.	At- Khairinashi Block- Mohakalapada District- Kendrapada <u>Geographical location</u> <ul style="list-style-type: none"> • 20°21'10.394"N 86°41'37.865"E (Starting) t • 20°21'20.318"N 86°42'47.484"E (Midpoint) • 20°22'43.376"N 86°43'5.008"E (Ending) 	5.654 km	CRZ-III (A) Map no. 73L/11/NE and 73L/11/SE Sheet no-49 &45 (As per the CRZ map Prepared by ORSAC and sponsored by F & E Dept., Govt of Odisha)	Para 3 (i) (a) & Para 4(i) (f) of CRZ notification-2011	Rs. 1020.00 Lakhs	The existing saline embankments, constructed to protect the coastal villages/ area, are having top elevation of about 3.0 m to 4.0m.	

13/6

Handwritten signature

10	Restoration of existing Sunity saline Embankment from RD 5.080 km to 9.100 km in Mahakalapada Block, Kendrapada District.	At- Sunity Block- Mohakalapada District- Kendrapada <u>Geographical location</u> <ul style="list-style-type: none"> • 20°27'21.768"N 86°43'24.683"E (starting) • 20°28'31.337"N 86°44'11.547"E(midpoint) • 20°28'39.085"N 86°43'29.559"E(EndPoint) 	4.02km	CRZ-III (A) Map no. 73L/11/NE Sheet no-49 (As per the CRZ map Prepared by ORSAC and sponsored by F & E Dept., Govt of Odisha)	Para 3 (i) (a) & Para 4(i) (f) of CRZ notification- 2011	Rs. 535.97 Lakhs	The existing saline embankments, constructed to protect the coastal villages/ area, are having top elevation of about 3.0 m to 4.0m.	
11	Restoration of existing Garadpur-Iswardpur saline Embankment from RD 0.00 km to 14.00 km in Rajkanika Block, Kendrapada District.	At- Garadpur-Iswardpur Block- Rajkanika, District - Kendrapada <u>Geographical location</u> <ul style="list-style-type: none"> • 20°43'56.979"N 86°48'7.981"E to • 20°44'23.581"N 86°48'35.477"E • 20°44'17.098"N 86°48'48.666"E • 20°43'3.329"N 86°48'33.688"E • 20°43'8.694"N 86°48'45.983"E • 20°42'50.14"N 86°48'27.206"E 	3.55 km	CRZ-III (A) Map no. 73L/14/NW Sheet no-58 (As per the CRZ map Prepared by ORSAC and sponsored by F & E Dept., Govt of Odisha)	Para 3 (i) (a) & Para 4(i) (f) of CRZ notification- 2011	Rs. 1115.00 Lakhs	The existing saline embankments, constructed to protect the coastal villages/ area, are having top elevation of about 3.0 m to 4.0m.	
12	Restoration of existing bank protection work	At-Gualigaon in Block - Rajkanika Distriuct-Kendrapada	0.372km	CRZ-III (A) Map no. 73L/9/SE	Para 3 (i) (a) & Para 4(i) (f) of CRZ	Rs. 385.00 Lakhs	The existing saline embankments, constructed	

(adjacent to road) from RD 0.240 km to 0.612 km at Gualigaon in Rajkanika Block, Kendrapada District.	<u>Geographical location</u> <ul style="list-style-type: none"> • 20°45'50.475"N 86°43'56.832"E • 20°45'59.551" 86°44'4.969"E N 	Sheet no-62(As per the CRZ map Prepared by ORSAC and sponsored by F & E Dept., Govt of Odisha)	notification-2011	to protect the coastal villages/ area, are having top elevation of about 3.0 m to 4.0m.
---	---	--	-------------------	---

Design details of Embankments (height)

Sl. No.	Proposed Title for CRZ Clearance	Block Name	Division Name	Existing TBL (Average) in meters	Proposed TBL (Average) in meters	Observed Surge level in meters	Free board in meters	Increase in height (average) in meters
1	2	3	4	5	6	7	8	9
1	Restoration of existing Paikerapur saline gherry from RD 00 km to 12.80km in Krushnaprasad Block, Puri District	Krushnaprasad Block	Puri	3.36	4.00	2.80	1.20	0.64
2	Restoration of existing Titipo saline gherry from RD 00 km to 7.10 km in Krushnaprasad Block, Puri District	Krushnaprasad Block	Puri	2.74	4.00	2.80	1.20	1.26
3	Restoration of existing Nuapada Saline Gherry from RD 00 km to 4.80 km in Krushnaprasad Block, Puri District	Krushnaprasad Block	Puri	2.88	4.00	2.80	1.20	1.12
4	Restoration of existing Krushnaprasaad saline gherry from RD 5.80 km to 30.27 km in Krushnaprasad Block, Puri District	Krushnaprasad Block	Puri	2.80	4.00	2.80	1.20	1.20

Handwritten signature

5

5	Restoration of existing Jharlang - Belanga Saline Embankment from RD22.00 km to 29.10 km in Astaranga Block, Puri District	Astaranga Block	Nimapara	2.80	5.20	4.00	1.20	2.40
6	Restoration of existing Serei- Bandala Saline Embankment from RD 00 km to 3.50 km in Astaranga Block, Puri District	Astaranga Block	Nimapara	2.05	5.20	4.00	1.20	3.15
7	Restoration of existing Saline Gherry Block - III RD 1.80 km to 7.80 km at Bhusandpur in Tangi Block, Khurdha District	Tangi Block	Khurdha	2.19	3.20	2.00	1.20	1.01
8	Restoration of existing Saline Gherry from Khairabandha to Chandraput in Chilika Block, Khurdha District	Chilika Block	Khurdha	1.74	4.00	2.80	1.20	2.26
9	Restoration of existing Khairinashi Saline Embankment from RD0.00 km to 5.654 km in Mahakalapada Block, Kendrapada District	Mahakalapada Block	Aul	2.80	5.00	3.80	1.20	2.20
10	Restoration of existing Sunity Saline Embankment from RD 5.080 km to 9.100 km in Mahakalapada Block, Kendrapada District	Mahakalapada Block	Aul	2.80	5.00	3.80	1.20	2.20
11	Restoration of existing Garadpur - Iswarpur Saline Embankment from RD 0.00 km to 14.00 km in Rajkanika Block, Kendrapada District	Rajkanika Block	Aul	3.08	4.50	3.30	1.20	1.42
12	*Restoration of existing bank protection work (adjasent to road) from RD 0.240 km to 0.612 km at Gualigaon in Rajkanika Block, Kendrapada District	Rajkanika Block	Aul	3.84	3.84	3.30	0.50	N.A

Note: * - Bank Protection only no raising of embankment; N.A - Not applicable

The proposed projects are permissible **under Para 3 (i) (a)** "those directly related to waterfront or directly needing foreshore facilities; The expression "foreshore facilities" means those activities permissible under this notification and they require waterfront for their operations such as ports and harbours, jetties, quays, wharves, **erosion control measures**, breakwaters, pipelines, lighthouses, navigational safety facilities, coastal police stations and the like and

Para 4 (i) (f) "construction and operation for ports and harbours, jetties, wharves, quays, slipways, ship construction yards, breakwaters, groynes, **erosion control measures**" of CRZ Notification, 2011

Para 8 (i) III. CRZ-III (A) (j) "construction of dispensaries, schools, public rain shelter, community toilets, bridges, **roads**, provision of facilities for water supply, drainage, sewerage, crematoria, cemeteries and electric sub-station which are required for the local inhabitants may be permitted on a case to case basis by CZMA"

The project does not attract Environment Clearance under the provision of EIA Notification, 2006.

The matter was discussed in detail. The Authority decided to grant clearance to the project proposals for "**Restoration of saline embankments and gherries damaged during the cyclone Phailin**" at 12 different locations as per the provision of CRZ Notification, 2011 subject to the following terms and conditions:

- I. The project proponent should develop 1-2 rows of plantation of suitable species/fruit bearing species/ mangroves as appropriate on sides of the embankments depending on the availability of land within the project cost.

6. Construction of office building, (Ministerial Staff Training Unit) MSTU, Guest House, 42 Bedded Hostel and staff Quarters at Penthokata, in Puri district by Income Tax Department, Puri

The Dy. Commissioner of Income Tax (PR & W), Puri made a presentation on the proposal for "Construction of office building, (Ministerial Staff Training Unit) MSTU, Guest House, Hostel and staff Quarters at Penthokata, in Puri district" by Income Tax Department, Puri.

The main objective of the project is to have own house for the Central Government Income tax Regional office to cater the need of the locality, streamline training programme for empowerment of ministerial staff (only one in the state) and to provide campus accommodation for office staff for more effective planning and management of office work of the department.

The total area acquired for the project is 2.00 Ac. of Patita kissam lands coming under Khata no. 91/3 and Plot no.-50/307 in Balukhand Mauza of Puri District. The location of the project is coming under CRZ-II area (Sheet No. 26, Map No. CZMP.74E/2/NE, prepared by ORSAC and sponsored by F & E dept., Govt. of Odisha in 1:25,000 scale).

The total cost of the project is Rs. 14.24 Crores & the funding source is Income Tax Department. The implementing agency is Income Tax Department through Central Public Works Department (CPWD).

The project envisages setting up of an Office Building, Hostel Building for Trainees, Guest House & TYPE-II, III & IV quarters for the staff. The total plot area of the project is 8094 sq.mt. Project will cover about 22% of the plot. For the greenbelt development 1830 sq. m and for parking 898 sq.mt areas will be used. The ground coverage of the project will be 1688 sq.mt.

The solid waste generated during operational phase will be handed over to an authorised solid waste collection agency/ Municipality collection system. The liquid effluent generated will be stored in a septic tank and ultimately drain it to the nearest Municipality sewerage system. The project proponent has assessed the environmental impact assessment (through environmental assessment checklist, impact identification matrix, impact prediction matrix etc.) of the project and incorporated the Environmental Management Plan for mitigation/minimizing the impact, which includes both during construction as well as operation phase. The important Environmental Management Plan includes air quality management, water quality management, and noise / vibration management as well as waste water treatment and will be reuse in landscape & plantation management. The EMP will be appended in to the relevant Bid documents with instruction to the contractor for development of the structure.

The project proponent has prepared a disaster management report indicating the risk assessment and design parameters to withstand such multi hazard risks to maintain structural stability. A disaster management plan being developed to face and mitigate such eventualities.

The activity is permissible under the **Para 8 (i) (II) CRZ-II (i)** of CRZ Notification, 2011, "buildings shall be permitted only on the landward side of the existing road or on the landward side of the authorised structures" and also under following **Para 8 (i) (II) CRZ- II (ii)** of CRZ Notification, 2011, "buildings permitted on the landward side of the existing and proposed roads or existing authorised structures shall be subject to the existing local town and country planning regulations including the 'existing' norms of Floor Space Index or Floor Area Ratio: Provided that no permission for construction of buildings shall be given on landward side of any new roads which are constructed on the seaward side of an existing road."

The project does not attract Environment Clearance under EIA Notification, 2006.

The matter was discussed in detail. The Authority decided to grant clearance to the project proposals for " Construction of office building, (Ministerial Staff Training Unit) MSTU, Guest House, 42 Bedded Hostel and staff Quarters at Penthokata, in Puri district by Income Tax Department, Puri as per the provision of CRZ Notification, 2011 subject to the following terms and conditions:

- I. Provision of rain water harvesting with the proposed structures
- II. Development of green belts within the project cost having suitable local species.

The approval may be communicated to Local Town Planning Authority i.e PKDA, Puri for further action as per the provision of CRZ Notification, 2011.

E. Others

1. Half yearly compliance report

The Authority took note of the compliance and decided that Senior Scientist (E&E) Dept. of F& E, Govt. of Odisha and Senior Scientist of ICZMP (Ecologist) will examine the half yearly compliance report submitted by the project proponent. The Authority also decided to intimate the project proponents to submit the due half yearly compliance reports otherwise the approval may be recalled.

Ryo

2. CRZ violation issues:

I. Reminder communicated to the Collector/District Magistrate

II. Notes on the alleged violation issues

The Authority decided that DO Letters will be communicated to the concerned RDCs to direct the concerned Collectors/District Magistrate of the coastal districts to speed up of the action against the alleged CRZ violation cases.

The authority also decided that in-house mechanism for verifying the violations should be brought up in the next OCZMA Meeting for finalisation.

3. Decision on levy of scrutiny/processing fee on project proposals located beyond CRZ area

As per the resolution of F & E Dept. Govt of Odisha dt. 29.11.2004, scrutiny fee shall be levied from all project proponents seeking clearance/ recommendation of the Odisha State Coastal Zone Management Authority under the CRZ Notification. The scrutiny fees leviable do not prescribe any fees for proposals of miscellaneous nature other than projects seeking CRZ Clearance such as projects beyond the Coastal Regulation Zone requiring NOC about non-applicability of CRZ regulations, as may be required by local development authorities. One such application had been received in respect of item discussed at D-4 in the meeting. The Chairman, in anticipation of approval, has levied a miscellaneous processing fee of Rs. 25,000 for facilitating processing of the proposal. The Authority ratified this action and recommended that Government may be requested to consider imposing a miscellaneous processing fee of Rs. 25,000 for projects beyond CRZ area seeking NOC not involving CRZ Clearance / recommendation for clearance from the Authority.

Miscellaneous

- a. The Authority decided that Project proponent is to submit the requisite number of copies of their presentation to the Authority 10 days in advance of the OCZMA Meeting for Circulation among the OCZMA Members.
- b. The Authority also decided that agenda notes and presentation copies of the project proponents need to be circulated among the OCZMA members 7 days in advance of the OCZMA meeting.

The chairman extended his thanks to all the members for active participation in the meeting.

The meeting ended with the vote of thanks to the chair.


Principal Secretary, F & E Dept.
and Chairman, OCZMA

Memo No. 188 /OCZMA

Dt. 27/11/2014

Copy forwarded to Shri Mangaraj Panda, Secretary, United Artists' Association, At – Raula Street, Po/Dist- Ganjam- 761026 / Project Director, Integrated Coastal and Marine Area Management Department of Ocean Development, Chennai / Dr. Rabindra Nath Hota, Professor of Geology, Utkal University, Bhubaneswar / Head of Department of Marine Science, Berhampur University, Odisha / Additional Chief Secretary to Govt., Housing and Urban Development, Department, Govt. of Odisha / Commissioner-cum-Secretary to Govt., Fisheries and Animal Resources Development Department, Government of Odisha / Principal Chief Conservation of Forest (WL) and Chief Wildlife Warden, Odisha / Chairman, State Pollution Control Board, Odisha or Member Secretary, State Pollution Control Board, Odisha / Chief Executive, Chilika Development Authority, Bhubaneswar / Chief Executive, Odisha Space Application Centre, Bhubaneswar / Chief Conservator of Forests, Regional Office of Ministry of Environment and Forests, Bhubaneswar.



27.11.14
Director Environment, F & E Dept.
and Member Secretary, OCZMA