

Proceedings of the 21st meeting of the Odisha Coastal Zone Management Authority (OCZMA) held on 17.01.2014 at 04:00 PM

The 21st meeting of the Odisha Coastal Zone Management Authority (OCZMA) was held under the Chairmanship of the Principal Secretary to Govt., Forest & Environment Department, 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. Compliance of the decisions taken in the 20th meeting of Odisha Coastal Zone Management Authority held on 15.04.2013 at 11:00 AM

Following compliance of the decisions taken in the 20th meeting of Odisha Coastal Zone Management Authority held on 15.04.2013 at 11:00 AM was placed before the Committee for approval;

Sl. No.	Project Proponent	Decision taken	Compliance
1	Establishment of Swosti SPA & Villa-a-Beach Resort in Odiya Alapur, Pathara, Khalikot, District-Ganjam	It was decided to grant clearance to the proposed construction	Necessary clearance was issued vide letter no. 50 Dt.03.05.2013
2	Establishment of Fish Landing Centre at Gopalpur in Ganjam district, Odisha	It was decided to grant clearance to the project	Necessary clearance was issued vide letter no. 48 Dt.03.05.2013
3	Alienation of Govt. land under CRZ to IMD at Chandbali	As the proposed land is outside the CRZ area, it was decided to issue a certificate indicating that the proposed land for construction of meteorological observatory at Chandbali does not come under CRZ area	Necessary order was issued vide letter no. 62 Dt. 03.05.2013
4	CRZ clearance for laying of pipeline from Paradip Refinery to South Jetty at Paradip Port	It was decided to recommend the proposal to the MoEF, Government of India	Proposal was sent to the MoEF, Govt. of India vide letter no. 64 Dt. 03.05.2013
5	Construction of Hostel Building for Researchers at Gupti in the District of Kendrapara, Odisha under ICZM Project, Odisha	It was decided to grant clearance to the proposed construction	Necessary clearance was issued vide letter no. 54 Dt.03.05.2013
6	Construction of Marine Life Visitor Orientation Centre, Ecotourism Complex and Staff's	It was felt that the structural components proposed under the project proposal shall be	The Sub-committee is of the opinion that the activities proposed by the project proponent

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	Barrack at New Boxipalli, Ganjam district under ICZM Project	verified by a sub-committee	are not appropriate in the proposed site and latest CRZ Regulations. This has been communicated to the project proponent vide letter no.21388/F&E Dt.19.10.2013
7	Construction of 2nd floating jetty at Purnabandha the district Ganjam under ICZM Project, Odisha	It was decided to grant clearance to the proposed construction as per the provision under CRZ Notification, 2011	Necessary clearance was issued vide letter no. 60 Dt.03.05.2013
8	Construction of Port Cabin at Gokharkuda in Ganjam district	It was decided to grant clearance to the proposed construction as per the provision under CRZ Notification, 2011	Necessary clearance was issued vide letter no. 56 Dt.03.05.2013
9	Construction of Staff Barrack at Purunabandha in the District of Ganjam, Odisha	It was decided to grant clearance to the proposed construction as per the provision under CRZ Notification, 2011	Necessary clearance was issued vide letter no. 58 Dt.03.05.2013

The Committee approved it.

B. Project proposals for CRZ/Environmental Clearance

B.1 to B.19. Multipurpose Cyclone Shelters & connecting Road under National Cyclone Risk Mitigation Projects (NCRMP) at 19 stations

The General Manager, OSDMA made a presentation on the proposed construction of Multipurpose cyclone shelters & approach road under National Cyclone Risk Mitigation Projects (NCRMP) at 19 locations to protect the life & properties of the people at proposed 19 sites in the coastal districts of Odisha which are prone to frequent cyclonic storms and concurrent flood hazards. The proposed MCS are elevated structures, designed to withstand very high wind speeds with an objective to protect human and animal lives from flooding and saline inundation. The project is funded by World Bank & Govt of India.

Salient features of the 19 MCS projects:

Sl. No	Name of the Project	Site Address	CRZ Status and Map no.	Total Area	Construction Area	Persons to take shelter during disaster @ 2 sq ft/person	Project cost in Rs. Crores
B.1	Keshapur Multipurpose Cyclone	Vill - Keshapur Block-Khallikote	CRZ-III Map No. CZMP.74	0.25 Ha.	3000 sq ft.	1500	1.2

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	Shelter and connecting road Projects	Dist - Ganjam	E/2/SE).				
B.2	Nuagan Multipurpose Cyclone Shelter and connecting road Project	Vill-Nuagan Block-Krus-hnaprasad Dist - Puri	CRZ-III Map No. CZMP.74 E/6/SW).	0.25 Ha.	3000 sqft.	1500	1.2
B.3	Siara Multipurpose Cyclone Shelter and connecting road Projects	Vill- Siara Block- Krus-hnaprasad Dist - Puri	CRZ-III Map No. CZMP.74 E/10/NW)	0.25 Ha.	3000 sq ft.	1500	1.2
B.4	Jagdala Multipurpose Cyclone Shelter and connecting road Projects	Vill- Jagdala Block - Brahmagiri Dist - Puri	CRZ-III Map No. CZMP.74 E/9/SW).	0.25 Ha.	3000 sq ft.	1500	1.2
B.5	Asana Multipurpose Cyclone Shelter and connecting road Projects	Vill -Asana Block - Astaranga Dist -Puri	CRZ-III Map No. CZMP.73 L/8/SW).	0.25 Ha.	3000 sq ft.	1500	1.2
B.6	Khandasahi Multipurpose Cyclone Shelter and connecting road Projects	Vill-Khanda-sahi Block - Astaranga Dist - Puri	CRZ-III Map No. CZMP.73 L/8/SW).	0.25 Ha.	3000 sq ft.	1500	1.2
B.7	Dihakarada Multipurpose Cyclone Shelter and connecting road Projects	Vill - Dihakarada Block - Astaranga Dist - Puri	CRZ-III Map No. CZMP.73 L/8/SW).	0.25 Ha.	3000 sqft.	1500	1.2
B.8	Baradihi Multipurpose Cyclone Shelter and connecting road Projects	Vill-Baradihi Block-Chilika Dist- Khorda	CRZ-III Map No. CZMP.74 E/5/SW).	0.25 Ha.	3000 sq ft.	1500	1.2
B.9	Sorana Multipurpose Cyclone Shelter and connecting road Projects	Vill- Sorana Block - Chilika Dist- Khorda	CRZ-III Map No. CZMP.74 E/5/SE).	0.25 Ha.	3000 sq ft*.	1500	1.2
B.10	Manasinghpur Multipurpose Cyclone Shelter and connecting road Projects	Vill-Mana-singhpur Block - Chilika Dist-Khorda	CRZ-III Map No. CZMP.74 E/5/SE).	0.25 Ha.	3000 sq ft.	1500	1.2

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B.11	Hariharpur Multipurpose Cyclone Shelter and connecting road Projects	Vill-Harihar-pur Block-Chilika Dist- Khorda	CRZ-III Map No. CZMP.74 E/5/SW).	0.25 Ha.	3000 sq ft.	1500	1.2
B.12	Mangalajori Multipurpose Cyclone Shelter and connecting road Projects	Vill- Manga-lajori Block- Tangi Dist- Khorda	CRZ-III Map No. CZMP.74 E/5/NE).	0.25 Ha.	3000 sq ft.	1500	1.2
B.13	Sundarpur Multipurpose Cyclone Shelter and connecting road Projects	Vill - Sunderpur Block- Tangi Dist- Khorda	CRZ-III Map No. CZMP.74 E/5/NE).	0.25 Ha.	3000 sq ft.	1500	1.2
B.14	Karatia sahi Multipurpose Cyclone Shelter and connecting road Projects	Vill - Karatiasahi Block- Tangi Dist-Khorda	CRZ-III Map No. CZMP.74 E/5/NE).	0.25 Ha.	3000 sq ft.	1500	1.2
B.15	Khamarsahi Multipurpose Cyclone Shelter and connecting road Projects	Vill - Khamarsahi Block - Rajnagar Dist - Kendrapara	CRZ-III Map No. CZMP.73 L/13/SW).	0.25 Ha.	3000 sqft.	1500	1.2
B.16	Bidyutprava Multipurpose Cyclone Shelter and connecting road Projects	Vill - Bidyutprava Block - Chandbali Dist-Bhadrak	CRZ-III Map No. CZMP.73 L/13/SE).	0.25 Ha.	3000 sq ft.	1500	1.2
B.17	Kanakprasad Multipurpose Cyclone Shelter and connecting road Projects	Vill-Kanak-prasad Block - Chandbali Dist- Bhadrak	CRZ-III Map No. CZMP.73 L/13/SE).	0.25 Ha.	3000 sq ft.	1500	1.2
B.18	Gauraprasad Multipurpose Cyclone Shelter and connecting road Projects	Vill - Gourprasad Block - Chandbali Dist - Bhadrak	CRZ-III Map No. CZMP.73 L/13/SE).	0.25 Ha.	3000 sq ft.	1500	1.2
B.19	Sankhua Multipurpose Cyclone Shelter and connecting road Projects	Vill- Sankhua Block - Baliapal Dist - Balasore	CRZ-III Map No. CZMP.73 O/2/SE).	0.25 Ha.	3000 sq ft.	1500	1.2

All 19 projects are located in CRZ-III area. The cyclone shelters will be constructed with a stilt floor, stilt height varying from 1.5 m to 4 m as per the site condition. The

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plinth level of the shelters would be above HFL (minimum 1.2m above the existing ground level). The roof of the first floor can be utilised temporarily for shelter when the water surge is more than 10mtrs. The parapet height will be 1.5mtrs with handrails. Staircase, a ramp with grade of 1:8 to 1:10 for invalid, old disabled persons. Separate toilets for ladies and gents with septic tank & water supply arrangement. And with arrangement of alternative power supply by generator set.

The shelter would be designed to withstand wind velocity of 300 km/ hr. & roof live load of 500 kg/m² as per IS:875. The foundation would be with under reamed pile & pile cap will be below the ground level for free from scouring. All the structures will be RCC framed. The design of the RCC column & beams will be as per IS code 456/2000 considering severe condition. All structures are above ground with 3000sq.ft to provide shelter for 1500 people @ 2 sq.ft /person during disaster such as cyclonic storms and concurrent flood hazards.

The proponent appraised that the proposed activities are permissible under Para 8 CRZ (III)(B)(viii) of CRZ Notification, 2011, "Constructions like dispensaries, schools, **public rain shelters**, community toilets, bridges, **roads**, jetties, water supply, drainage, sewerage which are require for traditional inhabitants living within the biosphere reserves may be permitted on a case to case basis by CZMA". The project does not attract Environment Clearance under EIA Notification, 2006.

The matter was discussed in detail. OCZMA decided to grant clearance for construction of 19 Multipurpose Cyclone Shelters at different sites as per the provisions of CRZ Notification, 2011.

B.20 to B.26. Establishment of Passenger Jetty and Waiting Hall by The Executive Engineer (Civil) Ports & IWT, South Division under Berhampur Directorate of Port and IWT (Commerce & Transport (Com) Department, Govt of Odisha.

The Assistant Engineer (Civil) Ports & IWT, South Division, Berhampur made a presentation on the establishment of Passenger Jetty and Waiting Hall at different locations as given below. The Jetties will provide access to the waterway to the people of coastal belt who are using waterways for their livelihood in day-to-day life, hospital & education facilities and the waiting hall as rain shelter. This project is funded by Rural Infrastructure Development Fund (RIDF) under NABARD Assistance.

Brief of the 7 projects attracting CRZ Clearance:

Sl. No	Project	Site Address	CRZ Status & Map No.	Total Area in Ac.	Construction Area	Cost of the projects
B.20	Establishment of Passenger Jetty at ARADI (Baitarani	Vill - Aradi P.S - Chandbali Dist - Bhadrak	CRZ-I(B)(Inter Tidal Area) & IV Map No. CZMP.73L/9/SE).	0.260	Jetty-282 sqm	Rs.144.33 Lakh

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	River) in Bhadrak District.					
B.21	Establishment Of Passenger Jetty at DHAMARA (Dhamara River) in Bhadrak District	Vill - Dhamara Dist - Bhadrak	CRZ-I (B) (Inter Tidal Area) & IV Map No. CZMP.73L/13/SE).	0.500	Waiting hall- 60 sqm Jetty – 247 Sqm	Rs. 2.66 Lakh
B.22	Establishment of Passenger Jetty and waiting Hall at TALCHUA (Dhamara River) in Kendrapara District.	Vill - Talchua Dist - Bhadrak	CRZ-I (B) (Inter Tidal Area) & IV Map No. CZMP.73L/13/SE).	0.500	Waiting hall- 60 sqm Jetty – 402 Sqm	Rs.200.86 Lakh
B.23	Establishment of Passenger Jetty and Waiting Hall at KALIAKANA (Devi River) In Puri District.	Vill - Kaliakana Dist - Puri	CRZ-I (B) (Inter Tidal Area)& IV Map No. CZMP.73L/8/SW).	0.014	Waiting hall- 60Sqm Jetty – 282 sqm	Rs.107.79 Lakh
B.24	Establishment of Passenger Jetty and Waiting Hall at GANDAKULA (Devi River) In Jagatsinghpur District.	Vill - Gandakula Dist - Jagatsinghpur	CRZ-I (B) (Inter Tidal Area)& IV Map No. CZMP.73L/8/SW).	1.270	Waiting hall- 60Sqm Jetty – 252 sqm	Rs.101.02 Lakh
B.25	Improvement of existing passenger Jetty at Balugaon (Chilika Lake in and around the project site) in Khurda District.	Vill - Balugaon Dist - Khorda	CRZ-I (B) (Inter Tidal Area) & IV Map No. CZMP.73E/2/NE).	6.940	Jetty – 699 sqm	Rs.367.01 Lakh
B.26	Establishment of Passenger Jetty and waiting Hall at GUPTI (Patsala River) in Kendrapara District.	Vill - Gupti Dist - Kendrapara	CRZ-I (B) (Inter Tidal Area) & IV Map No. CZMP.73L/14/NW).	0.920	Waiting hall- 60 sqm Jetty – 222 sqm	Rs. 125.52 Lakh

All 7 projects are located in CRZ-I(B) (Inter Tidal Area) & IV area.

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The proposed projects include a Jetty (constructed over the pillar i.e framed structure for free water movement) and a waiting hall with urinal facilities and a ticket counter. The waiting hall will be used as a rain shelter.

The activity is permissible under Para 8 CRZ (I)(ii)(b) of CRZ Notification, 2011, "Construction of dispensaries, schools, **public rain shelters**, community toilets, bridges, roads, **jetties**, water supply, drainage, sewerage which are require for traditional inhabitants living within the biosphere reserves after obtaining approval from concerned CZMA".

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

The committee discussed the matter in detail regarding the project proposals from B.20 to B.25 and it was decided that the projects cannot be considered in the present form due to the following reasons;

- I. Waiting hall is not a permissible activity in CRZ-I area.
- II. Community toilet should be integrated with the provision of bio digester
- III. The project proponent was advised to resubmit the proposal, if they so like, incorporating only those activities which are permissible under CRZ Notification, 2011.

Regarding the Proposal No.B.26, the committee discussed the matter in detail and suggested the project proponents to resubmit the proposal, if they so like, based on the following observations of the Committee:

- I. Waiting hall is not a permissible activity in CRZ-I area.
- II. Project proponent should incorporate only those components which are permissible under CRZ Notification, 2011.
- III. The proposed location of the Jetty should be changed from Gupti or else they should produce NOC from DFO, Mangrove Forest Division (Wildlife), Rajnagar for construction of Jetty at Gupti.

B.27. Establishment of Remodelling of Satapada Jetty in Puri District under Berhampur Directorate of Port and IWT (Commerce & Transport (Com) Department, Govt of Odisha.

The Assistant Engineer (Civil) Ports & IWT, South Division, Berhampur presented the proposed project proposal for "Establishment of Remodelling of Satapada Jetty in Puri District". The remodelling of the jetty will provide facilities to the people of coastal belt those who are using water way for their Livelihood in day to day life Hospital & Education facilities and a safe landing and boarding of launch & passengers by modernizing the Jetty for free flow of tidal water. This project is funded by Govt. of Odisha.



The project is located in CRZ-I(B) area (Tidal influenced part of Chilika Lake) & CRZ-IV (Sheet No. 13, Map No. CZMP.74E/6/NE). The proposed project includes modernization of the existing Earthen Jetty with RCC Piled Jetty (constructed over the pillar i.e framed structure for free water movement).

The total area acquired for this project is 8.00 Ac. The existing Earthen Jetty was provided by Odisha Govt. long time back. The existing landing and boarding will be replaced with RCC Piled Jetty. As the present jetty is obstructing free flow of water, the proposed remodelling is to augment eco-friendly free flow of water by designing RCC Piled Jetty. Total estimated cost is Rs. 1700 Lakhs.

The proponent presented that the proposed activities is permissible under the Para 8(i) CRZ-I(ii)(b) of CRZ Notification, 2011, "Construction of dispensaries, schools, **public rain shelters**, community toilets, bridges, roads, **jetties**, water supply, drainage, sewerage which are require for traditional inhabitants living within the biosphere reserves after obtaining approval from concerned CZMA".

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

The committee discussed the project proposal in detail and approved the proposal as per CRZ Notification, 2011. However, Committee observed that the safety measures like railing on both sides of the Jetty should be provided in order to ensure safety to the users.

B.28. Development of Participatory Eco-Tourism under livelihood security at Chilika, Gangadharpur in the district of Puri by OTDC under ICZM Projects

The Superintending Engineer, Odisha Tourism Development Corporation (OTDC) presented a proposal for development of Participatory Eco-Tourism under livelihood security at Chilika, Gangadharpur in the district of Puri to provide livelihood of the affected fisher coastal communities and the overall development of cultural and social safeguards of the local people by enhancing the tourism potential under ICZM Projects. This project is funded by World Bank & Ministry of MoEF, Gol & Forest & Environment Dept. Govt. of Odisha.

The project is located in CRZ-III area, periphery of Chilika Lake (Sheet No. 23, Map No. CZMP.74E/10/NW).

The total area acquired for this project is 2.20 Ac and the construction activities include a Visitors Orientation centre, parking and pathway etc. Total estimated cost is Rs. 50 lakhs.

The project proponent submitted that the activity is permissible under the Para 8 (i) CRZ-III (ii) (b) of CRZ Notification, 2011, "Construction of dispensaries, schools, **public rain shelters**, community toilets, bridges, roads, **jetties**, water supply, drainage, sewerage which are require for traditional inhabitants living within the biosphere reserves after obtaining approval from concerned CZMA".

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

The committee deliberated on the project proposal and were of the opinion that the project proposal in present form is not permissible. The project proponent needs to modify the project and seek clearance only for the permissible activities in the CRZ area under CRZ Notification, 2011 and non permissible activities outside the CRZ area.

B.29. Development of Participatory Eco-Tourism under livelihood security at Chilika, Mirzapur in the district of Puri by OTDC under ICZM Projects

Superintending Engineer, Odisha Tourism Development Corporation (OTDC) presented a proposal for development of Participatory Eco-Tourism under livelihood security at Chilika, Mirzapur in the district of Puri to provide livelihood of the affected fisher coastal communities and the overall development of cultural and social safeguards of the local people by enhancing the tourism potential under ICZM Projects. This project is funded by World Bank & Ministry of MoEF, GoI & Forest & Environment Dept. Govt. of Odisha.

The project is located in CRZ-I area, periphery of Chilika Lake (Sheet No. 23, Map No. CZMP.74E/10/NW).

The total area acquired for this project is 1.19 Ac and the development activities include a Visitors orientation centre, approach road and land scapping etc. Total estimated cost of the project is Rs. 100 lakhs.

The project proponent submitted that the activity is permissible under the Para 8 (i) CRZ-I (ii) (b) of CRZ Notification, 2011, "Construction of dispensaries, schools, **public rain shelters**, community toilets, bridges, roads, **jetties**, water supply, drainage, sewerage which are require for traditional inhabitants living within the biosphere reserves after obtaining approval from concerned CZMA".

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

The committee deliberated on the project proposal and were of the opinion that the project proposal in present form is not permissible. The project proponent needs to modify the project and seek clearance only for the permissible activities in the CRZ area under CRZ Notification, 2011 and non permissible activities outside the CRZ area.

B.30. Development of Participatory Eco-Tourism under livelihood security at Chilika, Gabakunda in the district of Puri by OTDC under ICZM Projects

Superintending Engineer, Odisha Tourism Development Corporation (OTDC) presented a proposal for development of Participatory Eco-Tourism under livelihood security at Chilika, Gabakunda in the district of Puri to provide livelihood of the affected fisher coastal communities and the overall development of cultural and

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social safeguards of the local people by enhancing the tourism potential under ICZM Projects. This project is funded by World Bank & Ministry of MoEF, Gol & Forest & Environment Dept. Govt. of Odisha.

The project is located in CRZ-I area, periphery of Chilika Lake (Sheet No. 23, Map No. CZMP.74E/10/NW).

The total area acquired for this project is 3.00 Ac and the construction activities include a Visitors orientation centre, parking area etc. Total estimated cost of the proposed project is Rs. 150 lakhs.

The project proponent submitted that the activity is permissible under the Para 8 (i) CRZ-I (ii) (b) of CRZ Notification, 2011, "Construction of dispensaries, schools, **public rain shelters**, community toilets, bridges, roads, **jetties**, water supply, drainage, sewerage which are require for traditional inhabitants living within the biosphere reserves after obtaining approval from concerned CZMA"

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

The committee deliberated on the project proposal and were of the opinion that the project proposal in present form is not permissible. The project proponent needs to modify the project and seek clearance only for the permissible activities in the CRZ area under CRZ Notification, 2011 and non permissible activities outside the CRZ area.

B.31. CRZ Clearance for construction of R.C.C. piled jetty at village Arakhakuda (Bhagabat Sahi) proposed by Chilika Development Authority.

The Consultant, Executive Engineer, Chilika Development Authority presented a proposal for construction of R.C.C. piled jetty at village Arakhakuda (Bhagabat Sahi) to provide communication facilities for the local fishermen (for fish landing), for communication of the local people. Besides, it will be used by personnel from Chilika Development Authority for monitoring and conservation of the coastal stretch during low tide period. An area measuring 0.92 Ac. of the Govt. land will be used for the jetty. The proposed site comes under CRZ- I(B) and CRZ- IV area (sheet no. 23 map no. CZMP 74E/10/NW) and the total cost of project his Rs. 8,98,500.00

The activity is permissible under "foreshore facilities" as per Para -3 (i) (a) "the expression foreshore facilities means those activities permissible under this notification and they require water front for their operations such as ports and harbours, **jetties**, quays, wharves, erosion control measures, breakwaters, pipelines, lighthouses, navigational safety facilities and coastal police stations" and Para -4 (i) (f) "construction and operation of ports and harbours, **jetties**, wharves, quays, spillways, ship construction yards, breakwaters, groynes, erosion control measures" and Para -8 (I) (ii) (b) "Construction of dispensaries, schools, public rain shelters, community toilets, bridges, roads, **jetties**, water supply, drainage, sewerage which



are required for traditional inhabitants living within the biosphere reserves after obtaining approval from concerned CZMA" under CRZ Notification 2011.

The proposed project does not attract environmental clearance under EIA Notification, 2006.

The committee discussed the proposal in detail and approved the proposal as per the CRZ Notification, 2011.

B.32. CRZ Clearance for construction of R.C.C. piled jetty at village Sanapatana by Chilika Development Authority.

The Consultant, Executive Engineer, Chilika Development Authority presented a proposal for construction of R.C.C. piled jetty at village Sanapatana to provide communication facilities for the local fishermen (for fish landing), for communication of the local people. Besides, it will be used by personnel from Chilika Development Authority for monitoring and conservation of the coastal stretch during low tide period. A land measuring 0.50 Ac. of the Govt. land will be used for the jetty, the proposed site comes under CRZ- I and CRZ-IV area (sheet no. 23, map no. CZMP 74E/10/NW) and the total cost of project is Rs.9,80,000.00

The activity is permissible under "foreshore facilities" as per Para -3 (i) (a) "the expression foreshore facilities means those activities permissible under this notification and they require water front for their operations such as ports and harbours, jetties, quays, wharves, erosion control measures, breakwaters, pipelines, lighthouses, navigational safety facilities and coastal police stations" and Para -4 (i) (f) "construction and operation of ports and harbours, jetties, wharves, quays, spillways, ship construction yards, breakwaters, groynes, erosion control measures" and Para -8 (l) (ii) (b) "Construction of dispensaries, schools, public rain shelters, community toilets, bridges, roads, jetties, water supply, drainage, sewerage which are require for traditional inhabitants living within the biosphere reserves after obtaining approval from concerned CZMA" under CRZ Notification 2011.

The committee discussed the matter in detail regarding the project proposal and approved the proposal as per the CRZ Notification, 2011.

B.33. Establishment of captive minor port and intake & discharge pipeline at the confluence of Jatadharmohan creek near Paradeep for POSCO India project

The Consultant of POSCO-India Pvt. Ltd, Bhubaneswar presented a proposal for establishment of captive minor port and intake & discharge pipeline at confluence of Jatadhar Mohan creek, P.O-Kujang in the District of Jagatsinghpur.

POSCO-India a private limited company registered in Bhubaneswar as a subsidiary of POSCO-Korea Planned for a coast based integrated steel plant of 12 million tons

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per year with captive minor port at the confluence of Jatadhar muhan creek, signed an MoU with Govt. Of Odisha on 22nd June, 2005 & obtained EC from MoEF in 2007.

After a lapse of 5 years when POSCO applied for revalidation of the CRZ Clearance, OCZMA suggested POSCO to submit a fresh proposal with relevant documents as per CRZ Notification, 2011.

The proposed project is for Establishment of captive minor port of material handling capacity of 30.6 metric ton per year which will be achieved in the final phase. Total area for the captive port is 150 Ac. which is within 4004 Ac. of area for the integrated steel plant complex.

As per the project outline, the harbour facility will include material handling capacity of the port in 3 phases, Phase-I-10.5 MTPY, Phase-II-20.5 MTPY, and Phase-III-30.6 MTPY which includes both import & export. Regional centre of NIO at Visakhapatnum has prepared the required CRZ Map (73L/12/NW) in 1:25000 scale & 1:4000 scale demarcating HTL & LTL & delineating CRZ boundaries on the Maps.

Berth alignment: - The berthing line is parallel to the sand bar and is in the estuary of the Jatadhar mohan creek (JMC) and layout of the berths are planned to minimize the length of the berth with following dimension. The material berth will be allocated at the northeast, production berth at the southwest to shorten cargo flow. The diameter of cargo basins in front of the raw material berth and product berth are designed to satisfy the conditions for navigation and turning around at the design vessels.

Number and Dimension of the Berths

Phase	Type	Design vessel (DWT)	Diameter of turning basin(m)	Depth of berthing basin(m)	Depth of approach channel(m)	Length of berth (m)	Number of Berths
1	Raw material berth	1,00,000	540	17.0	17.5	310	1
	Product berth	20,000	410	11.0	-	630	3
2	Raw material berth	1,70,000	630	20.0	21.0	610	2
	Product berth	20,000	410	11.0	-	1260	6
3	Raw material berth	1,70,000	630	20.0	21.0	850	3
	Product berth	50,000	410	13.5	-	1770	8

Breakwater:- The break water (1,600m) is planned in the south side of the port to provide tranquil condition at the raw material berth and another (1,070m) north side of the port area to provide tranquil during North East monsoon period and absorb diffracted waves from South West. The overall layout (length & orientation) of the break water was based on the numerical model study & ship- maneuvering simulation.

The hydraulic conditions including water depth and wave height & geo technical conditions are considered for accost effective & stable break water. The crest

elevation of the North is + 10.5m with respect to CD & that of the South break water is +11.5m with respect to CD.

Navigation Channel:- The direction of approach channel is almost same as the Paradeep Port having water depth is 21m below CD, width of 250m for one lane (for phase-I) & it will be progressively widen to finally 500m wide for subsequent phases.

Revetments and Contentment Dike: - Two types of revetments are proposed for the harbour, one is exposed to sea and another towards JMC. A sand mound type's respect to CD with an outer slope of 1:3 protected with filter mat and armour stone for the scour protection due to the river flow is planned inside the creek. The contentment dike would be used for confining degraded material and interfaced with property line of the plant neighbouring the existing village.

Dredging of Approach Channel:- An approach channel of 12.98 km to the berth is planned with the minimum depth of 21m below CD to accommodate berthing of 170,000 DWT Vessel and the entire dredging material have to be disposed in deepwater having depth around 32m below CD. The details are as follows.

Estimated Capital Dredging Volume and Proposed Disposal Area

Phase	Dredging	Dredging Volume (1000 Cu M)	Distance Of Disposal (Km)	Disposal Area
1	Berthing Area & Taring basin	15,813	3	Reclamation of site preparation for the steel plant
	Approach channel	9,363	13	Offshore disposal
2	Berthing Area & Taring basin	3,527	3	Reclamation of site preparation for the steel plant
	Approach channel	9,724	13	Offshore disposal
3	Berthing Area & Taring basin	1,891	3	Reclamation of site preparation for the steel plant

The proposed project activities i.e Port & intake discharge water pipeline facilities fall in CRZ-I(B), CRZ-III & CRZ-IV areas and their permissibility under CRZ Notification, 2011 is indicated in the following Table:-

Facilities	CRZ categorization	Permissible/non permissible
Port and its facilities	It is between LTL and HTL CRZ-I (B), in between HTL & LTL for the creek (CRZ-IV), beyond LTL seaward for the open sea (CRZ-IV)	Permissible under 4(i)(f) of CRZ notification 2011.
Treated effluent discharge pipeline		
32 m pipeline beyond 500m set	It is in non CRZ Area	Permissible activity

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back line		
399 m of pipeline between 500 m set back line and HTL	It is in CRZ-III Area	Permissible activity
441 m of pipeline between HTL & LTL	It is in CRZ-I Area	Permissible activity
75 m pipeline beyond LTL towards sea	It is in CRZ-IV Area	Permissible activity
Degraded Water Discharge Pipeline		
267 m of pipeline between LTL and LTL of the creek	It is in CRZ-IV Area	Permissible activity
346 m of pipeline crosses the sand bar	It is in CRZ-I Area	Permissible activity
Dredged sand water pond	It is in CRZ-IV Area	Permissible activity
Hot water discharge pipeline		
785 m pipeline beyond 150 setback line	It is in non CRZ Area	Permissible activity
163 m pipeline between 150 setback line and HTL	It is in CRZ-III Area	Permissible activity
189 m pipeline between HTL and LTL	It is in CRZ-I Area	Permissible activity
259 m pipeline between LTL and LTL in the creek	It is in CRZ-I Area	Permissible activity
214 m pipeline crosses the sand bar	It is in CRZ-I Area	Permissible activity
130 m pipeline beyond LTL towards sea	It is in CRZ-IV Area	Permissible activity
722 m sea water intake pipeline between HTL and LTL	It is in CRZ-III Area	Permissible activity

The total project cost of 12 metric ton per year integrated steel complex along with captive minor port is 11,600 Million USD, out of which 550 million USD is estimated for the captive minor port.

The proponent presented that proposed project is permissible under Para 4 (i) (f) of the CRZ Notification, 2011. This project also attracts the provisions of EIA Notification, 2006 under schedule 7 (e). Since the cargo handling capacity of the port



is 30.6 MTPA, it is considered as Category "A" project & requires prior environmental clearance (EC) from MoEF, Govt. of India.

The project proponent has submitted the following documents:

- Completed Form-1 as per the CRZ Notification, 2011.
- Impact of intake & discharge pipeline-the environmental impact & mitigation measures.
- Environmental Impact Assessment Report prepared by M.N Dastur and company Pvt. Ltd., Calcutta.
- Risk Assessment & Disaster Management Plan
- CRZ Map prepared by NIO (Regional Centre- Visakhapatnam) in 1:4000 scale
- CRZ Map prepared by NIO (Regional Centre- Visakhapatnam) in 1:25000 scales Demarcating LTL, HTL, and CRZ boundaries.
- CRZ Map on which Proposed Project is superimposed
- NoC from OSPCB

The Committee reviewed the documents submitted by POSCO-India Pvt. Ltd, and deliberated on various issues and opined that following additional information/data are to be provided by the proponent for further examination during next meeting;

- I. Beach erosion modelling study.
- II. Macro/ micro benthos study as baseline data for impact analysis during construction and operation phase
- III. Information regarding the impact on Olive Ridley turtle during turtle breeding and mass nesting along Gahirmatha coast.
- IV. It was informed that IMMT, Bhubaneswar carried out Marine Ecology/ Water Quality Study. The proponent is to submit the competence of the core group of Scientists involved in such kind of study.
- V. Impact of proposed Break-water on the sediment transport.
- VI. Justification regarding significant variation in Water Quality Monitoring Data between 2005-06 and April, 2013 report.

B.34. Construction of Storm Water Drainage System of Puri Town under JNNURM Scheme of Govt. of India

On behalf of the Executive Engineer, Drainage Division, Bhubaneswar, the SDO, Drainage Sub-Division, Puri presented a proposal for Construction of a Storm Water Drainage System of Puri town under JNNURM Scheme to reduce the impact of urban flooding due to cyclone, flood and heavy rain in the thickly populated pilgrimage Puri Town. This project is funded by Govt. of India & Govt. of Odisha.

The project is located in CRZ-I (B) (inter tidal area), CRZ-II & CRZ-III Area (CRZ Map prepared by ORSAC sponsored by F & E Dept. Govt of Odisha, Sheet No. 26, Map No. CZMP.74E/13/SW).

VOYANTS, the consultant has prepared the comprehensive Master Plan and Detail Project Report for Storm Water Drainage System of Puri Town under JNNURM



Scheme of Govt. of India. Under proposed project, the storm water drain will be 3.28 km in CRZ-I(B) area, 18.46 km in CRZ-II area and 0.93 km in CRZ -III area having total of 22.76 km under CRZ Area. There will be two types of covered rectangular drains basing on the size. The total length of the primary drains will cover 9.15 km. having size ranges between 3.75 m (width) x 2.25m (height) (max) and 0.45m x 0.30m (min). Secondary drains will cover altogether 13.52 km and having size of the drains between 2m x 1.75m (max) and 0.3m x 0.3m (min). As per the approved plans, the drain will remain below the subsoil and not expected to bring any permanent change in land use/ land cover or topography including increase in intensity of land use. The drain will be concrete structure having thickness ranging between 0.15m and 0.3m. The release of storm water will be in to the existing water body of Mangala River and Banki muhan confluence at Bay of Bengal located at the periphery of the Puri Town.

Cost of the project is Rs. 41.84 Crores for CRZ area.

The activity is permissible under the Para -3 (iv) (d) "measures to prevent sand bars, installation of tidal regulators, **laying of storm water drains** or for structures for prevention of salinity ingress and freshwater recharge"; Para- 8 (I) (ii) (b) "construction of dispensaries, schools, public rain shelter, community toilets, bridges, roads, jetties, water supply, **drainage**, sewerage which are required for the local inhabitants" & Para-8 (III) (A) (iii) (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" and Para-8 (III) (B) (viii) "construction of public rain shelter, community toilets, **water supply drainage**, sewerage, roads and bridges by CZMA, who may 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" under CRZ Notification 2011.

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

The committee discussed the proposal in detail and approved the proposal in principle as per CRZ Notification, 2011, but the approval letter will be issued subject to submission of following undertaking by the project proponent;

- I. Sewerage shall not mix with/percolate into the Storm Water drainage channel at any point of time.
- II. Regular water quality monitoring will be carried out to ascertain that sewerage is not released to the storm water drain.

C. Others

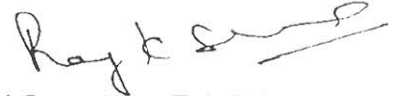
Committee also took decisions on following matters;

- I. CRZ Violations / Action taken / Prosecution undertaken will be placed in the subsequent Authority meetings.

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- II. Local Urban Planning Authority along coastal stretches of the State is to be invited to attend the Authority meeting to comply with the query of the Authority.
- III. ORSAC is requested to take steps to prepare required CRZ maps (as per CRZ Notification, 2011) and obtain authentication from authorised organisations including SAC, Ahmedabad to facilitate small project proponents with limited cost.
- IV. Subject Matter Specialists may be called, whenever such necessity arises.

The meeting ended with the vote of thanks to the chair



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

Memo No. _____/OCZMA

Dt. ___/___/___

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.

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