



ODISHA COASTAL ZONE MANAGEMENT AUTHORITY

Forest, Environment and Climate Change Department, Government of Odisha

Letter No. 52 /OCZMA

Dt. 22/02/2023

From

Dr. K. Murugesan, IFS
Member Secretary, OCZMA

To

Principal Secretary to Govt. Housing and Urban Development <u>Department, Govt. of Odisha</u>	Member
Commissioner-cum-Secretary to Govt. Fisheries and Animal Resources Development <u>Department, Government of Odisha</u>	Member
Principal Chief Conservation of <u>Forest (WL) and Chief Wildlife Warden, Odisha</u>	Member
Member Secretary, State Pollution Control Board, <u>Odisha</u>	Member
Chief Conservator of Forest, <u>Regional Office of MoEF&CC, Bhubaneswar</u>	Member
Dr. Ajit Pattnaik <u>Retd. PCCF, Odisha</u>	Member
Prof. P.K. Mohanty, Professor & Head <u>Dept. of Marine Science, Berhampur University</u>	Member
Dr. K.V. Thomas, Former Director, <u>National Centre for Earth Science Studies (NCESS)</u>	Member
Prof. K.C. Rath, Professor & Head <u>PG Dept. of Geography, Utkal University</u>	Member
M/s. Action for Protection of Wild Animals (APOWA), Kendrapada	Member

Sub: 45th meeting of the Odisha Coastal Zone Management Authority on 02.03.2023 at 11:30 am.

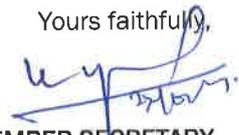
Sir,

I would like to inform you that the 45th meeting of the Odisha Coastal Zone Management Authority will be held on 02.03.2023 at 11:30 am under the chairmanship of Additional Chief Secretary, FE&CC Department and Chairman, OCZMA through VC.

You are, therefore, requested to kindly make it convenient to attend the meeting of the OCZMA on the scheduled date and time. The Agenda Note of the meeting is enclosed. The VC link of the meeting will be sent to you through e-mail.

Encl: Agenda

Yours faithfully,


MEMBER SECRETARY

Memo No. 53 /OCZMA

Dt. 22/02/2023

Copy submitted to the Private Secretary to Additional Chief Secretary, FE&CC Department for information and necessary action. He is requested to place it before the Additional Chief Secretary for her kind information to Chair the meeting of the OCZMA.


MEMBER SECRETARY

Agenda for the 45th meeting of the Odisha Coastal Zone Management Authority scheduled to be held on 02.03.2023 at 11.30 A.M through Virtual Mode.

A. Confirmation of the minutes of the 44th meeting of OCZMA held on 07.01.2023

The 44th meeting of OCZMA was held under the Chairmanship of Additional Chief Secretary, Forest, Environment & Climate Change Department, Govt. of Odisha through video conferencing mode on 07.01.2023 at 11.00 am. The minutes of the meeting were sent to all the members vide Letter No. 9/OCZMA Dt. 13.01.2023. No response has been received so far and accordingly the minutes may be treated as confirmed.

B. Compliance of the decision taken in the last OCZMA Meeting

Sl. No.	Project / Project Proponent	Decision taken	Compliance
1.	CRZ Clearance for operation of water sports activities at Puri Beach by M/s Sky Drive Adventure & Water Sports.	OCZMA discussed the proposal and decided to grant CRZ clearance to the aforesaid project under CRZ Notification, 2019.	CRZ Clearance order issued vide letter no. OCZMA/28/2022-24 Dt. 19.01.2023. Copy of the clearance order forwarded to the Tourism Department and the District Administration, Puri for information and necessary action.
2.	Development of captive riverine jetty of Material Handling Capacity of 4.5 MTPA on the River Mahanadi located in Paradeep, District Jagatsinghpur, Odisha by Arcelor Mittal Nippon Steel India Limited.	OCZMA discussed the proposal in detail and decided that as the proposal involves dredging of the river mouth, which has some impacts on the marine biodiversity, thus before taking any decision in this matter, the EIA/DPR/CRZ Reports prepared for this project need to	As decided the project proponent was asked to submit the soft copies of the DPR/EIA/EMP Report for sharing with the members of Authority. Dr. K. Thomas, Expert member of the Authority raised some queries based on the reports and maps

		be shared with the members of the Authority for their necessary inputs. Accordingly, the matter was deferred to the next meeting of OCZMA.	submitted by the project proponent which was forwarded to the project proponent for necessary compliance. The para wise compliance of the queries submitted by the project proponent is enclosed as Annexure-1
3.	Setting up of 5 MLD Hybrid desalination plant at Ganjam by Grasim Industries Pvt. Ltd.	OCZMA discussed the proposal and recommend the proposal to MoEF&CC for grant of CRZ clearance under CRZ Notification, 2019.	The proposal was recommended to MoEF&CC vide letter NO. 33/2022-15 dt. 19.01.2023.
4.	Transfer of CRZ clearance in the name of Mr. Akshya Kumar Swain from M/s Prabhukrupa Estate & Properties	OCZMA discussed the matter and agreed for Transfer of CRZ clearance in the name of Mr. Akshya Kumar Swain. However the project proponent should strictly adhere the terms and conditions as imposed in the previous clearance order.	The clearance order was issued vide Letter No.30/2022-17 Dt. 19.01.2023.
5.	Construction of Residential building over plot No.125, Khata no.23/4 Mouza Udayapur, Tehsil-Konoshi, Gopalpur, Berhampur by Mrs Subhadra Rath.	OCZMA discussed the matter and decided to grant permission for conversion of 2 blocks to hotel complex as proposed with the following	The clearance order was issued vide Letter No.147/2015-12 Dt. 19.01.2023.

		conditions as per Annexure-III of the CRZ Notification, 2019.	
6.	Construction of Integrated sports complex named Jagannath Cricket Stadium at Plot No.,-10 & 10/162 of Khata No.93, mouza Balukhand in Puri district by Sports & Youth Service Department, Govt. of Odisha	<p>OCZMA discussed the proposal and decided to grant CRZ clearance to the aforesaid project under CRZ Notification, 2019 with a condition that Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that the untreated effluents and solid wastes are not discharged in to the water or beach area.</p> <p>The CRZ Clearance is subject to final approval of the Puri Konark Development Authority, Puri.</p>	The clearance order was issued vide Letter No.39/2022-28 Dt. 19.01.2023.
7.	Construction of 5 Star Hotel Building at Gopalpur by M/s Luxurio Assets Pvt. Ltd.	<p>OCZMA discussed the proposal and decided to grant Clearance to the proposal as per the provisions of CRZ Notification, 2019.</p> <p>The CRZ Clearance is subject to final approval of the Berhampur Development Authority.</p>	The clearance order was issued vide Letter No.41/2022-09 Dt. 19.01.2023.

8.	Laying of pipeline for release of treated effluent from the fish processing unit to sea proposed at village Tundara, Inchudi, District Balasore” by Grade Marine Export Pvt. Ltd.	<p>OCZMA may discuss the proposal and if consider may recommend the proposal to MoEF&CC for grant of CRZ clearance under CRZ Notification, 2019 with the following condition:</p> <p>a) Regular reporting to the Regional Office of State Pollution Control Board, Odisha regarding the treated effluent standard.</p> <p>b) There should not be any conflict of interest between local fisher communities and proponent.</p> <p>c) Beach should not be affected in any manner.</p>	The proposal was recommended to MoEF&CC vide letter NO. 38/2022-31 dt. 19.01.2023.
9.	Set up of temporary tent accommodation and Operation of Water sports activities at Kusabhadra Rive, Gop Tahasil, Mouza Sahikhanata in Puri District by BK Water Adventure	OCZMA discussed the proposal and decided to grant CRZ clearance to the aforesaid project under CRZ Notification, 2019.	

C. PREVIOUS PROPOSAL

1. Development of captive riverine jetty of Material Handling Capacity of 4.5 MTPA on the River Mahanadi located in Paradeep, District Jagatsinghpur, Odisha by Arcelor Mittal Nippon Steel India Limited (ANMS).

The proposal was placed in the 44th meeting of the Authority held on 07.01.2023. The project proponent made a detailed presentation of the proposal before the Authority.

The brief of the proposal is as follows:

- i.** The project is for development of captive riverine jetty of Material Handling Capacity of 4.5 MTPA on the River Mahanadi, in Udayapata Village of Paradip, Jagatsinghpur district, Odisha.
- ii.** ANMS has an existing 12 MTPA Pellet plant located at Paradip. The raw materials and products of the plants are transported through existing ship loading facilities of Essar Bulk Terminal at Pradip Port via a 9 km long Conveyor Belt. Thus to meet the raw material requirement and to reduce the dependency on the Essar Bulk Terminal, the project proponent proposed the captive riverine jetty on Mahanadi River at Paradip.
- iii.** The developmental facilities include three nos. of berth, two for exports of pellets and one for import of raw materials i.e steam coal, flux, iron ore fines, Anthracites etc. with a material handling capacity of 10,000 to 12,000t/day. The total berth length is 275m and width is 15m. The width of the approach channel is kept as 3.6 to 5 times of the beam of the ship with a depth of -5m CD. The diameter of the turning circle is kept as.170m i.e approx. 2.1 times of vessel width for safe manoeuvring.
One covered conveyor system from pellet plant to berge handling facilities.
- iv.** The total project cost is Rs.156.85Crores.
- v.** Dredging is proposed on the navigational channel of river Mahanadi and berth area for handling of 3000 DWT Berge. The capital dredging will be estimated about 1 million Cum which will be used to raise the back-up area higher than the High Flood level.
- vi.** The land parcel allotted by Infrastructure Development Corporation (IDCO) for the proposed project is 33.77 acres and is located 300 meter from the existing pellet plant of AINMS.
- vii.** The power requirement of 2323.32 kVA will be met from the Tata Power Central Odisha Distribution Limited and 2x30 MW existing captive coal based power plant. Provision of a 50 Kva capacity DG Set will be kept as back-up power supply.

- viii. The water requirement of the proposed jetty will be met from Taladanda Canal. Permission has been accorded to draw 5000m³/day from the canal. AMNS has constructed one intake well at Taladanda canal to source the surface water which is directly send to the pellet plant through pipeline and the water requirement of the jetty project will be sourced from the pellet plant through pipeline.
- ix. STP of 5 KLD capacity is proposed for the treatment of waste water from the storage yard.
- x. The GPS Co-ordinates of the project is 20^o 19' 31.57'N 86^o 39 17.98E. National Centre for Sustainable Coastal Management (NCSCM) has carried out the CRZ Study and prepared the 1:4000 scale CRZ map superimposing the project location with reference to the approved CZMP Map of Odisha sheet no. F45U 11/SE, Map no. OD-46 prepared as per CRZ Notification, 2019. The map indicates that the proposed Jetty, import & export berths and the land boundary falls in CRZ-II & IV (B) i.e River Mahanadi water area, approach channel and turning circles falls in CRZ-IVB area, flux yard & other utilities falls in CRZ-II area. Ecologically sensitive area such as Mangroves, corals, turtle nesting ground, salt marsh, mud flats, sand dunes etc. are not present within the proposed project site.

Sl. No.	Proposed Project Activities	Area in Ha.	
		CRZ-II	CRZ-III
1	Flux yard	0.18	
2	Jetty for export facilities	0.15	0.26
3	Jetty for Import Facilities	0.02	0.14
4	Others	0.39	0.09
5	Proposed AM/NS land Boundary	2.87	6.01
6	Proposed approach channel		22.73
7	Turning circle		5.30
8	Utilities	0.02	

- xi. Bhitarkanika Wildlife Sanctuary is located 6 km away from the project.
- xii. CRZ Permissibility: The proposed project activities are permissible as per the provisions of CRZ Notification, 2019 under Clause

5.1.2-CRZ-I(B) -“ Land reclamation, bunding, etc. shall be permitted only for activities such as,-

- (i) (a) foreshore facilities like ports, harbours, Jetties, wharves, quays, slipway, bridges, hover ports for coast guard, sea links, etc;
- (ii) Activities related to waterfront or directly needing foreshore facilities such as ports and harbours, jetties, quays, wharves, erosion control measures, breakwaters, pipelines, lighthouses,

navigational safety facilities, coastal police stations, Indian coast guard stations and the like

5.2- CRZ-II:

Activities as permitted in CRZ-I B, shall also be permissible in CRZ-II, in so far as applicable:

5.4-CRZ-IV (iii) “ activities related to waterfront or directly needing foreshore facilities such as ports and harbours, jetties, quays, wharves, erosion control measures, breakwaters, pipelines, navigational safety facilities and the like.

The project required CRZ recommendation from OCZMA as per Para 7(ii) of the CRZ-Notification 2019.

After detailed deliberation Authority decided that before taking any decision on the matter, the Environmental Impact Assessment Report, Environmental Management Plan, Detailed project report, CRZ Report and maps need to be shared among the members of the Authority.

Accordingly the reports and the maps submitted by the project proponent were shared to all the members of the Authority based on which the members raised some points for compliance by the applicant.

The para wise compliance submitted by the project proponent is enclosed as **Annexure-I.**

OCZMA may discuss the proposal and if consider may recommend the proposal to MoEF&CC for grant of CRZ clearance under CRZ Notification, 2019.

D. Other matter for discussion with the permission of Chair.

1. Revision of Scrutiny fee for projects seeking CRZ Clearance/ recommendation from Odisha Coastal Zone Management Authority.

Ministry of Environment, Forest & Climate Change, Govt. of India issued CRZ Notification in the year of 1991, 2011 & 2019 for protection and conservation of coastal stretches. The Ministry specifies several responsibilities to the State Coastal Zone Management Authority to implement the notifications and subsequent amendments. For functioning of the Authority, the F&E Dept. issued a resolution in the year 2004 for levy of scrutiny fee for the proposal seeking CRZ Clearance / Recommendation from the Authority, verification of violations, revisions of the Coastal Zone Management Plan maps etc., sitting fees of the non-official members of the Authority, field visits, study tour and monitoring purpose.

It is mentioned that there is no revision of fee structure since 19 years from the date of issuance of the resolution and it require revision as the day to day expenditure of the Authority has increased many folds in this meantime. The scrutiny fee collected from the project proponents is not sufficient to manage the expenditures.

Now it is required to revise the fee structure for smooth functioning of Authority.

Authority may take a decision in this matter.

AM/NS INDIA

Ref. No. AMNS/BBSR/ENV/05/23

Date: 04.02.2023

To

The Director,
Environment-Cum-Special Secretary to Government,
Department of Forest and Environment, Government of Odisha
Odisha Coastal Zone Management Authority (OCZMA),
IRC Village, Nayapalli,
Bhubaneswar, Odisha 751015

Sub.: Submission of point wise reply for getting CRZ Clearance for Development of Captive Riverine Jetty of Material Handling Capacity of 4.5 MTPA on the River Mahanadi located in Paradeep, Jagatsinghpur district of Odisha by ArcelorMittal Nippon Steel India Limited.

Sir,

As per captioned subject, we are hereby submitting the pointwise reply to the observation raised by OCZMA (attached as **Annexure-A**).

We request you to provide the recommendation and clearances for the proposed infrastructure falling under CRZ area at the earliest.

Submitted for your kind perusal.

Thanking you

Yours faithfully

For ArcelorMittal Nippon Steel India Ltd.



(T.S. Shanbhogue)

Executive Director

Encl.: as above

ArcelorMittal Nippon Steel India Limited

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A joint venture between ArcelorMittal and
Nippon Steel Corporation


ArcelorMittal


NIPPON STEEL

Development of Captive Riverine Jetty of Material Handling Capacity of 4.5 MTPA on the River Mahanadi located in Paradeep, Jagatsinghpur district of Odisha by ArcelorMittal Nippon Steel India Limited.

Sl. No.	Points raised by Dr. K V Thomas	Response/Compliances
1	<p>The level to which the filling and reclamation is proposed, and the quantity of material required may be clearly mentioned. Mitigation measures may be proposed for the possible enhanced flooding in the adjoining lowlands where fishermen make temporary facilities for fishing related livelihood activities.</p>	<p>The site for jetty construction is not a greenfield one and it has been demarcated for industrial use by IDCO; it is adjoining the operating pellet plant of AMNS. The land would be filled to (+)5.5 m CD from the existing Plant level of +2.5 m to +2.8 m CD. The Quantity of filling material is 0.2 M cum of dredged river sediment.</p> <p>The topo survey map shows that there are some low-lying areas between built up areas as shown in the attached map (Annexure 1). A canal passes along the low-lying areas between the built up area (pellet Plant of AMNS and the proposed Jetty site) which is provided with culvert with the sluice gate as shown in the map. The water collected in the low-lying area is drained through the canal from culvert with sluice gate (Annexure 2) as per the natural slope of the area from western side of the proposed Jetty site. On the eastern side, the water collected due to natural slope is drained through pipeline provided by local administration and the same would be undisturbed when the Jetty project comes up. The raising of the Jetty site would not hinder the local drainage pattern and would not cause additional local inundation in low lying area adjoining the proposed Jetty site.</p> <p>Further AMNS would ensure smooth discharge of storm water through peripheral drains along the jetty periphery to the river. There are no adjoining lowlands where fishermen make temporary facilities for fishing related livelihood activities.</p>
2	<p>It is mentioned in the EIA that protection measures to manage riverbank erosion will be taken up by the Odisha Irrigation Dept.</p>	<p>It is mentioned in the EIA Report that the Irrigation Department of Government of Odisha has been already installing groins/revetment along the riverbank in order to rehabilitate the eroded embankments and the riverbank (Section</p>

Sl. No.	Points raised by Dr. K V Thomas	Response/Compliances
		2.6.4, 4.4.2, 4.4.3). They have completed riverbank protection works in certain stretches near the groins on west of the proposed Jetty site as per snapshot from Google Earth (photographs enclosed for reference as Annexure 3) and is ongoing in other stretches of the riverbank.
3	The project proponent may be asked to produce an undertaking/agreement in this regard from Odisha Irrigation Dept.	The activity is already ongoing and is carried out by local administration under State Government of Odisha. This activity is independent of the proposed Jetty. The question of agreement with Odisha Irrigation Department for construction of Jetty therefore does not arise as this land has been allotted to AMNS by IDCO as a part of industrial land.
4	It should also be ensured the protection of the bank at one location would not induce and enhance erosion further in the adjoining shorelines. Better to consider the bank protection measures as part of a riverbank management plan, if possible.	The riverbank protection activities are being undertaken by Odisha Irrigation Department as a part of riverbank management plan. This is in no way related to the proposed captive jetty construction of AMNS adjoining its operating pellet Plant. AMNS will only therefore take up strengthening the riverbank protection measures 50 m u/s to 50 m d/s stretch of the proposed 400 m long jetty in continuity to the ongoing bank protection measures of government of Odisha at the site. It is not in the purview of AMNS to determine whether the ongoing riverbank management measures of government of Odisha at the site will induce erosion or enhance erosion in other stretches or not. The Irrigation Department must have already taken into consideration of all these aspects before undertaking the riverbank protection works.
5	There should be clarity on who will finance the protection measures and the time frame.	The riverbank protection activities are being undertaken by Odisha Irrigation Department of Government of Odisha from its own funds and it already going on at site. AMNS will only bridge the discontinuity of bank protection measures only in the vicinity of the proposed jetty i.e., 50 m u/s to 50 m d/s of river.
6	The design life of the coastal protection structures is 50 years as	Noted. It is imperative to state that for securing the safety and normal operation of

Sl. No.	Points raised by Dr. K V Thomas	Response/Compliances
	per EIA. A protocol for maintenance of the protection structures may be made part of the EMP.	<p>the proposed captive jetty AMNS will closely monitor the state of river protection measures at regular intervals throughout the project design life and would adopt all necessary measures to maintain and safeguard the bank protection structure close to the jetty.</p> <p>It is proposed that AMNS would undertake visual monitoring of the protection protections during pre-monsoon, monsoon and post-monsoon period to checks of its physical health, gradient, dislocation of rocks (if any), etc and repair/maintenance would be carried out accordingly. This would be incorporated in EIA Report as per the recommendation of OCZMA.</p>
7	Regular monitoring of riverbank protection structures for its functional and structural performance may be made part of Environmental monitoring and the findings should be part of the compliance reports.	<p>Please refer to the Note above under Sl. No 6.</p> <p>AMNS would ensure yearly monitoring and maintenance works undertaken for same and thereby submit compliance reports of same through six monthly EC& CRZ clearance accorded for the project.</p>
8	Regular monitoring of the riverbank 10 km on either side of the jetty may be made part of the Environmental monitoring scheme and the findings to be made part of the compliance reports.	<p>The riverbank protection activities are being undertaken by Odisha Irrigation Department. There are several riverbank-based activities and structures along the riverbank, like the IFFCO Jetty east of the proposed jetty, fishing Jetty, etc. Considering overlapping of all the activities, such monitoring of riverbank for 10 km stretch on either side of the proposed 400 m long jetty is not under the purview of AMNS.</p> <p>AMNS would be responsible for maintenance of riverbank protection works which would be carried out by themselves along the riverbank along the project site boundary and 50 m upstream & 50 m downstream of it. Monitoring of environmental attributes of the project is described in Chapter 6 of the EIA Report and monitoring of bio-diversity aspects is delineated in Ecology and Biodiversity Impact Assessment Study Report.</p>

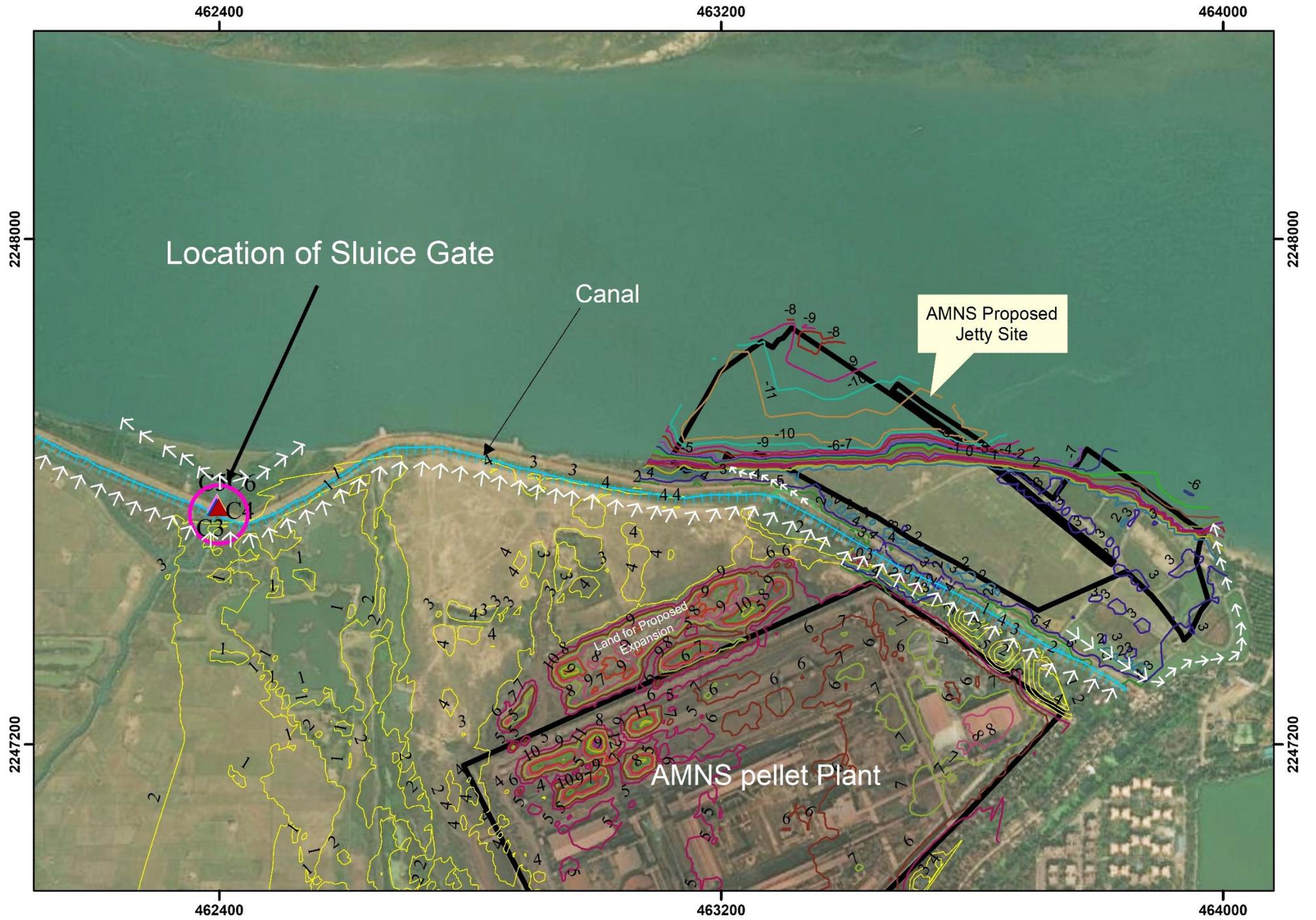
Sl. No.	Points raised by Dr. K V Thomas	Response/Compliances
9	The impact of removal of this quantum of sediment from the coastal system by capital and regular maintenance dredging on the beaches may be assessed from shoreline change model studies.	<p>Dredging (maintenance) is proposed at the mouth of the River of about 0.1 million cum in area of approx. 350 X 100 m. This implies that the area of deposition of sand at the entrance of river mouth will be deepened in 6 months cycle. The dredged channel will act sand trap. It is established that sand movement from south to north is maximum. Hence the proposed alignment of the channel is advantageous and hydraulically preferable considering wave approach, and sand bypassing.</p> <p>The major littoral drift occurs in SW monsoon period in the month of June, July & August. The peak drift is in the month of August and is 0.3 million cum towards north. Prominent southward drift occurs in the months of October, November & December. The total northward drift is 1.06 million cum and the total southward drift is 0.12 million cum.</p> <p>Since the maintenance dredging quantity is only 0.1 million cum, and the mouth is approx. 2km wide, significant change is not envisaged in shoreline due to dredging. In addition, the south of the river mouth is protected by sea wall for about 4.5 km upto Paradip port northern breakwater. The modelling study of transport of sediment during capital dredging of 0.2 million cum has been conducted. It was shown through modelling that impacts due to such minimal dredging is insignificant.</p> <p>In this regard, it may be also noted that the major Port in the area carries out maintenance dredging in tune of 10-12 Million cum every year in approach channel, entrance channel, docks, sand traps and Mahanadi River Channel. Therefore, the nominal dredging planned for this jetty operation is not envisaged to induce any significant role in beach erosion along the sea shoreline.</p>
10	Regular monitoring of shoreline changes 10 km on either side of the inlet mouth may be made part of the	The proposed project is a riverine captive jetty located about 9 km upstream from the river-mouth. The activities of the project

Sl. No.	Points raised by Dr. K V Thomas	Response/Compliances
	environmental monitoring scheme. The results should be part of the compliance reports.	would be based on riverbank and does not entail close interaction with the coastal system. Beach management plan, if found necessary, has to be taken up by irrigation department supported by all the users.
11	The possibility of using the dredged sand for nourishment of affected/eroding beaches in this or adjoining coastal system may be considered.	
12	The possibility of having a beach management plan for the coastal system may be considered for sustaining the beach and coastal system in consultation with Environment Dept.	
13	Details on the number of fishers (fishermen/fisher women/fishermen families), number of fishing boats/country boats and other gears used, fishing zones, boat routs, etc. may be provided in the EIA report as part of Social Impact Assessment.	<p>The site has few temporary hutments which are apparently used by fishermen for keeping fishing gear and the land is sometimes used for drying fishing net. During consultation it was found that no-one uses the land permanently for any fishing related activities. This was revealed during social consultations undertaken during the EIA study and presented in EIA Report. Observations of Fishermen was reckoned during the Public Hearing. AMNS would engage with the fisherfolk additionally during the construction stage as well as operation stage to conflict arises due to proposed movement of barges in Mahanadi River.</p> <p>The data on the number of fishers (fishermen/fisher women/fishermen families), number of fishing boats/country boats and other gears used, fishing zones, etc is presented as Annexure 4 and the same would be incorporated in EIA Report as per the recommendation of OCZMA. AMNS would be continuously engaging with the fishermen and trawlers association in the region to understand their specific needs, if any and extend necessary support to them with adequate budget provisions on a sustained manner. Such initiatives would be reported in 6-monthly compliance</p>

Sl. No.	Points raised by Dr. K V Thomas	Response/Compliances
		reports of EC/CRZ clearance of the proposed project.
14	Estuarine use map and the possible changes in the estuarine use may be made part of the EIA report.	The project is located far away from Estuarine region and has no direct interaction with estuarine system. The proposed project is a riverine captive jetty located about 9 km upstream from the river-mouth. The activities of the project would be based on riverbank and no significant change in the existing estuarine system is envisaged due to the project.
15	River banks and fallow lands have been traditionally used by fisher groups for their livelihood related activities. Loss of riverbanks and possible enhanced flooding of lowlands adjoining the reclaimed backup facility area may be compensated with alternate space acceptable for fishers.	The site has few temporary hutments which are apparently used by fishermen for keeping fishing gear and for drying fishing net. During consultation it was found that no-one uses the land permanently for any fishing related activities.
16	Possible loss of fishing grounds, possible impediments to normal fishing activity due to jetty related activities, possible reduction in fishery, possible loss of job, and impact on fisher women who may be associated with fishery associated income generation may be provided in the EIA report. Appropriate mitigation measures should be there in the EMP.	There is no conflict with fishermen specifically for this project as the Mahanadi River channel is already being used by IFFCO for their barge movement. AMNS would be continuously engaging with the fishermen and trawlers association in the region to understand their schedule and adjust the schedule of barge movement avoiding any conflict with their schedule. AMNS would also engage with the fishermen and trawlers association to understand their specific needs, if any and extend necessary support to them with adequate budget provisions on a sustained manner. Such initiatives would be reported in 6-monthly compliance reports of EC/CRZ clearance of the proposed project.
17	Possible conflict of interest with fishermen may be outlined with supporting data and a mechanism for resolving conflicts may be incorporated in the EIA report.	understand their specific needs, if any and extend necessary support to them with adequate budget provisions on a sustained manner. Such initiatives would be reported in 6-monthly compliance reports of EC/CRZ clearance of the proposed project.
18	Fishers may be trained for producing value added products from their catch as part of Social Impact Management Plan (in consultation with Fisheries Dept.).	These activities would be taken up as a part of CSR activity for capacity building & capacity enhancement of the local fishermen. The local needs for peripheral social development would be further assessed through a specific Need Assessment study before initiation of the project. Based on initial reconnaissance of
19	Fishers may be trained and facilitated for producing value added products from their catch as part of Social	

Sl. No.	Points raised by Dr. K V Thomas	Response/Compliances
	Impact Management Plan (in consultation with Fisheries Dept.).	the area, CSR team of AMNS, through third-party organization, carry out stakeholder mapping and provide training to local fishermen on Bio flock Management, fingerling production and value-added production at the farmgate level.
20	Fishers may be trained and facilitated for online marketing of the catches and value-added products as part of Social Impact Management Plan (in consultation with Fisheries Dept.).	
21	Fishers may be trained and facilitated for use of better gears and fishing methods as part of Social Impact Management Plan (in consultation with Fisheries Dept.).	

XXX



Photographs of Sluice Gate:



Annexure – 3

Snapshot from Google Earth showing the area of riverbank protection structures shown in the photographs below:



1.1. Number of Fishermen:

As per the data from Fisheries Officer (Marine), Kujang, the total number of fishermen in Jagatsinghpur district are found as 52,362. Out of which 35% (18439 no.) are full time fishermen, 21% (11034 no.) are part time fishermen, 25% (13112 no) are occasional fishermen and the status of 19% (9777 no.) fishermen are unspecified. The details about the fishermen are provided in **Table 1**

1.2. Number of Fishing Boats:

The total number of fishing boats in Jagatsinghpur district are found to be 1561 as per the data provided by Addl. Fisheries Officer (Marine), Kujang. The fishermen use mainly three types of boats for fishing purpose, mechanised (35.8%), motorised (35.7%) and non-motorised (28.5%). The details about the boats are provided in **Table 2**.

1.3. Fishing Gear:

As per the data provided by Addl. Fisheries Officer (Marine), Kujang, the fishing gear used in Jagatsinghpur is provided in **Table 3**.

1.3. Fishing Zone:

As per the data provided by Addl. Fisheries Officer (Marine), Kujang, from the southward point of Hansua River mouth to Harishpur Garh (North) is considered as fishing zone. The detail about the location is provided in **Table 4**.

1.5. Fishing Boat Routes:

The fishing boats traverse from the harbour or fish landing centers to the sea. As per the data provided by Addl. Fisheries Officer (Marine), Kujang fishing boats of Jagatsinghpur starts journey from Mahanadi, Jatadhari and Devi River. The details about the path followed by the fishing vessels are provided in **Table 5**

Table 1. Number of Fishermen

Sl. No.	District	Block	Landing Center	Full time Fishermen			Part Time Fishermen			Occasional Fishermen			Unspecified Status		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Jagatsinghpur	Kujang	Paradeep, Atharabanki, Choumuhani	8448	0	8448	4125	1303	5428	4415	1897	6312	1986	2360	4346
2		Erasama	Noliasahi	6881	0	6881	3124	1428	4552	2645	1754	4399	1655	2019	3674
3		Balikuda	Bandar	3110	0	3110	556	498	1054	1414	987	2401	852	905	1757
Total				18439	0	18439	7805	3229	11034	8474	4638	13112	4493	5284	9777

Source: Marine Fishery Department Data (Kujang)

Table 2. Number of Fishing Boats

Sl. No.	Name of the M.E unit	Name of Base of Operation	Mechanised boat	Motorised boat	Non-motorised boat	Total
1	Paradeep	Paradeep FH	559	160	0	719
Paradeep Total			559	160	0	719
2	Kujang	Atharbanki	0	176	41	217
3		Chaumuhani	0	57	309	366
4		Noliasahi	0	53	85	138
5		Bandar	0	111	10	121
Kujang Total			0	397	445	842
Jagatsinghpur Total			559	557	445	1561

Source: Marine Fishery Department Data (Kujang)

Table 3. Details of Fishing Gears Used

Sl. No.	Name of District	Trawl net	Gill net	Others	Total
1	Jagatsinghpur	559	957	45	1561

Source: Marine Fishery Department Data (Kujang)

Table 4. Fishing Zones

Name of Office	Zone (Land Mark)	Latitude	Longitude
Addl. Fisheries Officers (Marine) Kujang	Hansua River Mouth southward till Harishpur Garh (North)	87° 15' to 86° 35'	20° 55' to 20° 05'

Source: Marine Fishery Department Data (Kujang)

Table 5. Boat Routes

Sl. No.	Name of the M.E Unit	Name of Base of Operation	Path/ Route
1	Paradeep	Paradeep FH	Mahanadi River Mouth to sea (Sandhakud Mauza)
2	Kujang	Atharbanki	Mahanadi River Mouth to sea (Atharabanki Mauza)
3		Chaumuhani	Mahanadi River Mouth to sea (Singitali Mauza)
4		Noliasahi	Jatadhari River Mouth to sea (Jatadhara Mauza)
5		Bandar	Devi River Mouth to sea (Bandar Mauza)

Source: Marine Fishery Department Data (Kujang)

Important

11/11/04

Government of Orissa
Forest and Environment Department

OSZMA
Scrutiny
Fee

R E S O L U T I O N

Dated, Bhubaneswar, the 29th - 11 - 2004

No. ~~FE-9/2004~~ 17657/F&E., The Ministry of Environment & Forests, Government of India in exercise of the powers conferred by clause (d) of sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986 vide notification No. S.O. 114(E) dated 19.2.1991 declared the coastal stretches of seas, bays, estuaries, creeks, rivers and backwaters which are influenced by tidal action (in landward side) up to 500 meters from the High Tide Line (HTL) and the land between the low Tide line (LTL) and the HTL as Coastal Regulation Zone and imposed with effect from the date of this notification certain restrictions on the setting up and expansion of industries, operations or processes etc. in the said Coastal Regulation Zone (CRZ).

2. Government of India in exercise of the power conferred by sub-section (1) and (3) of Section 3 of the Environment (Protection) Act, 1986 (29 of 1986) have constituted the Orissa State Coastal Zone Management Authority under the Chairmanship of the Principal Secretary to Government, Forest & Environment Department in Notification No. SO 24(E) dated 4.1.2002. This Authority has powers to take measures for protecting and improving the quality of coastal environment and preventing, abating and controlling environmental pollution in the Coastal areas of the State of Orissa.

3. The Orissa State Coastal Zone Management Authority is required to scrutinize, inter alia, the applications for projects that are proposed to be located within Coastal Regulation Zone under CRZ Notification and to forward the proposal to National Coastal Zone Management Authority with their recommendations.

4. It was under consideration of the State Government to levy scrutiny fees on new projects seeking environmental clearance/ recommendation of the State Government under CRZ Notification depending on the outlay of the project.

5. After careful consideration it is decided by the State Government to impose scrutiny fees for projects seeking clearance/ recommendations of the Orissa State Coastal Zone Management Authority under the CRZ Notification, as per following.

<u>Sl. No.</u>	<u>Total project cost</u>	<u>Scrutiny fee.</u>
1.	Up to Rs. 5 crores	Rs. 25,000/-
2.	Between Rs. 5 crores and Rs. 100 crores.	Rs. 1,00,000/-
3.	Rs. 100 crores and above	Rs. 5,00,000/-

6. The project proponents are to pay the scrutiny fees in shape of a Bank Draft payable in favour of Chairman, Orissa State Coastal Zone Management Authority at Bhubaneswar at the time of applying for clearance/ recommendation of the projects under the CRZ Notification. This will be applicable to all the cases pending with the Department and to all the applications that would be received in future.

7. The fees so collected from the proponents shall be utilised for the services of the experts, expenses for the meeting and for visits of the locations proposed, study tour and monitoring.

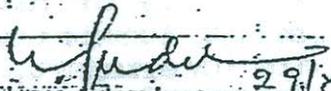
8. This has been concurred in by Finance Department vide their UOR No. 448/ES-I dated 8.9.98 and UOR No. 343 ESI dt. 27.8.04.

By order of the Governor,

Aurobindo Behera
Commissioner-cum-Secretary to Government.

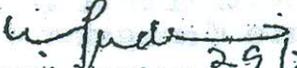
Memo No. 17658/F&E., Dated, 29-11-2004

Copy forwarded to the Director, Printing, Stationery & Publication, Orissa, Cuttack with a request to publish the Resolution in extra ordinary copy of Orissa Gazette and supply 100 copies to this Department for official use.


29/11/04
Director, Environment-cum-
Special Secretary to Govt.

Memo No. 17659/F&E., Dated, 29-11-2004

Copy forwarded to all Departments of Government/ all Members of Coastal Zone Management Authority/ Chairman, State Pollution Control Board/ Chief Executive, Chilika Development Authority/ Director, Regional Plant Resource Centre, Shubaneswar for favour of information.


29/11/04
Director, Environment-cum-
Special Secretary to Govt.