

95th MEETING

TAMIL NADU STATE COASTAL ZONE MANAGEMENT AUTHORITY

Date: 22.06.2017

Time: 03.00 P.M.

Venue:

Conference Hall of the
Environment and Forests Department,
7th floor, Secretariat,
Chennai - 600 009

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**THE TAMIL NADU STATE COASTAL ZONE MANAGEMENT AUTHORITY - 95th
MEETING**

Date & Time:
22.06.2017 - 03.00 P.M.

**Venue: Conference Hall of the
Environment and Forests Department.,
7th floor, Secretariat,
Chennai- 600 009.**

**AGENDA ITEM NO.01: Confirmation of the minutes of the 94th meeting of the
Tamil Nadu State Coastal Zone Management Authority held
on 12.04.2017.**

The 94th meeting of the Tamil Nadu State Coastal Zone Management Authority was held on 12.04.2017 and the minutes were communicated in letter no. P1/1044/2015 dated 20.04.2017 (Copy enclosed) of Director of Environment. It may be confirmed.

**MINUTES OF THE 94th MEETING OF THE TAMIL NADU STATE COASTAL ZONE
MANAGEMENT AUTHORITY HELD ON 12.04.2017**

AGENDA ITEM NO.01: Confirmation of the Minutes of the 93rd meeting of the Tamil Nadu State Coastal Zone Management Authority held on 27.02.2017.

The minutes of the 93rd meeting of the Tamil Nadu State Coastal Zone Management Authority (TNSCZMA) held on 27.02.2017 communicated in Letter No.P1/1044/2015 dated 08.03.2017 of the Director of Environment was confirmed.

AGENDA ITEM NO.02: Report on the follow up action taken in respect of decisions taken during the 93rd meeting of the TNSCZMA.

The Member Secretary briefed the Members about the action taken by the Department of Environment on the decisions taken during the 93rd meeting of the Tamil Nadu State Coastal Zone Management authority held on 27.02.2017.

The Chairman requested the members to send any objection or suggestions on the minutes of the meetings at the earliest.

AGENDA ITEM NO.03: Setting up of 150 MLD Desalination Plant at Nemmeli Village - further details furnished by the CMWSSB for the fresh recommendations of the TNSCZMA

After going through a detailed presentation by the project proponent, the Authority resolved to request the CMWSSB to furnish the following details to take further action in this matter.

- a) Report on environmental aspects of existing 100MLD desalination plant along with half yearly/annual environmental monitoring reports to be submitted.
- b) The outfall of proposed 150 MLD plant is about 400m south of intake well of existing 100 MLD plant. Since long shore currents move towards north for about 8 months in a year, there is every possibility that discharge of 150 MLD plant is likely to affect intake water quality of existing 100 MLD plant. This needs to be examined and arrangements to avoid mixing of 150 MLD discharges into intake well of 100 MLD should be explained in the proposal.

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- c) Though the buried intake and outfall pipeline is unlikely to affect shoreline changes, since the bed sediments which are lifted to surface due to wave action are likely to get transported northwards by long shore currents, it is necessary to establish through appropriate modeling studies such disturbances do not cause any change in shoreline.
- d) Conservation plan with reference to flora, fauna and turtle nesting should be furnished.

AGENDA ITEM NO.04: Renovation of Fishing Harbour at Mudhunagar, Cuddalore old Town in Cuddalore district proposed by Asst. Director of Fisheries, Cuddalore

As the applicant has not turned up for the presentation, the Authority resolved to defer the proposal.

AGENDA ITEM NO.05: Proposed development of Muttom Point Light House in Kadiyapattinam Village, Kalkulam Taluk, Kanyakumari district proposed by the Directorate of Lighthouses & Lightships, Chennai.

The Authority resolved to recommend the proposal to the Ministry of Environment Forests and Climate Change. Government of India subject to the following specific conditions:

- a) The total covered area on all floors shall not exceed 33 percent of the plot size i.e., the Floor Space Index shall not exceed 0.33.
- b) The overall height of construction upto the highest ridge of the roof, shall not exceed 9 metres .
- c) There should not be any developmental activities except for green belt development in the No Development Zone i.e., between 0 - 200 mts., from the HTL of sea. Swimming Pool shall be constructed in development zone viz., 200 - 500 mts from the HTL of sea.
- d) There should not be any ground water extraction in the CRZ.
- e) Waste water should be treated in the STP with ultra-filtration and treated sewage shall be recycled after dis-infection for toilet flushing and green belt development.

- f) The applicant should submit a landscape plan indicating the proposed plantation and also ensuring that the existing rocks and heritage buildings are preserved without any disturbance.
- g) Proper arrangements should be made for the disposal of biodegradable solid wastes generated in the project areas, by providing Organic Waste Converter (OWC).
- h) The possibilities of utilization of solar energy to the maximum extent shall be explored.
- i) Consent for Establishment from Tamil Nadu Pollution Control Board should be obtained.
- j) The unit should obtain planning permission for their proposed construction from the Department of Town and Country Planning.

AGENDA ITEM No.06: Revised procedure - Online Submission and Monitoring of CRZ Clearances (OSMCC) - For the information of the Authority

As suggested by the Members, the Chairman has requested the Member Secretary, TNSCZMA to arrange for the supply of soft copies of the proposals to the Members and the applicants may be requested to file one hard copy for filing purpose.

AGENDA ITEM NO.07: Any other issues with the permission of the Chair.

During the discussions, the Chairman suggested that the project proponents should furnish the total picture of carbon foot print in the project based on some scientific method.

Further the Chairman suggested that the doubts raised by Government of India, on the projects, if any, should be addressed properly, by giving specific replies to the questions, before it goes again to MoEF&CC, GoI

Sd./- xxxx
Dr. H. Malleshappa., I.F.S.
Member Secretary, TNSCZMA &
Director, Dept. of Environment,
Chennai - 15.

Sd./- xxxx
Thiru. Md. Nasimuddin, I.A.S.,
Chairman, TNSCZMA and
Principal Secretary to Government,
Environment & Forests Dept., Chennai-9.

AGENDA ITEM NO.02: The action taken on the decisions of 94th meeting of the Authority held on 12.04.2017

Sl. No	subject	Action taken
01	Proposed development of Muttom Point Light House in Kadiyapattinam Village, Kalkulam Taluk, Kanyakumari district proposed by the Directorate of Lighthouses & Lightships, Chennai	As resolved, the proposal has been sent to Environment and Forests Department, GoTN in Ir. Roc. No. P1/1565/2016 dated 08.03.2017.
02	Setting up of 150 MLD Desalination Plant at Nemmeli Village - further details furnished by the CMWSSB for the fresh recommendations of the TNSCZMA	As resolved further details have been called for from the CMWSSB in letter No. P1/745/2016 dated 21.04.2017.

AGENDA ITEM NO.03: Renovation of Fishing Harbour at Mudhunagar, Cuddalore old Town in Cuddalore district proposed by Asst. Director of Fisheries, Cuddalore

The District Environmental Engineer, TNPCB, Cuddalore district has forwarded a proposal for the Renovation of fishing Harbour at S.No. 85 and 86 at Mudhunagar. Cuddalore Old Town, in Cuddalore district proposed by Assistant Director of Fisheries, Cuddalore for Clearance under CRZ Notification 2011.

2) Under the Project, the Fisheries Department has proposed to renovate the existing fishing harbor at Cuddalore with the following waterside and landside facilities:

Water side Facilities:

- a) The existing 200mts north breakwater will be further increased to a distance of 150m. The existing 250m south breakwater will be further increased to a distance of 250m.
- ii) Dredging is proposed to deepen the main channel of the Gadilam river for a length of 2000m and a width of 50m to a depth of (-) 3.0m CD. Further it is proposed to deepen Bar mouth for a length of 200m and a width of 100m to a depth of (-) 4.0 m CD. It is also proposed to deepen the northern creek for a length of 200m and a width of 40m to a depth of (-) 3m CD and further extended upto 300m to a depth (-) 1.0m. In addition, it is also proposed to deepen the South creek for a length of 400m and a width of 50m to a depth of (-) 3.0 m CD. Dredging material will be used for beach nourishment to protect the shore on the northern side of the breakwater.
- iii) It is proposed to construct Diaphragm walls for a total length of 1500m. viz., near fisheries office complex slip way side area about 50m., south bank of fisheries office complex island creek 850m, north bank of fisheries office complex island creek about 400m and river side 200m.
- iv) Slipway- A concrete sloping yard of 20m width and 50m length is proposed for hauling the fishing vessel from (-) 3m CD level from the sea side to the shore with 1 to 10 slope.

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- v) Retaining wall of 2235 m long is proposed along the eastern bank of the Gadilam river from the bar mouth entrance to fisheries complex to protect the erosion of Akkariakori village.

Shore side Facilities:

- vi) Auction hall, net mending sheds, Gear sheds, power room, sloping yard, harbour office, fuelling station, fresh water sump, pump house, STP, Over head tank, Solid Waste Collection facilities, security room, bath and toilet, ice plant, boat building yard, workshop, compound wall, road connectivity, Green and landscaping etc.,

3) The total project cost is Rs.140 crore and the proposed area of the project site is 47.36 acre. The DCZMA of Cuddalore has recommended the proposal for Clearance. The project site is falling in CRZ-I, II and III as per the HTL demarcation of Institute of Remote Sensing, Anna University.

4) The proposal was placed before the 94th meeting of the Authority held on 12.04.2017 and as the applicant has not turned up for the presentation, the Authority resolved to defer the proposal.

5) As per CRZ Notification 2011, vide para 4 (i) (a) Clearance shall be given for any activity within the CRZ only if it requires waterfront and foreshore facilities. Further construction of harbour is permissible activity vide para 4 (i) (f) of the said notification 2011. However, the said activities require clearance from the SEIAA vide para 4.2 (ii) (a) of CRZ Notification 2011.

6) The Authority may consider.

AGENDA ITEM NO.04: Construction of New Fishing Harbour at Tharangambadi, Thillaiyadi Revenue Village, Tharangambadi Taluk, Nagapattinam district proposed by Asst. Director of Fisheries (North)., Sirkali.

The District Environmental Engineer, TNPCB, Nagapattinam district has forwarded a proposal for the Construction of New Fishing Harbour at S.No. 6, 104 Of Tharangambadi, Thillaiyadi Revenue Village, Tharangambadi Taluk, Nagapattinam district proposed by Asst. Director of Fisheries (North)., Sirkali for Clearance under CRZ Notification 2011.

2) Under the proposal, the Department of fisheries, Government of Tamilnadu has planned to develop a harbour facility to fulfilling the long term aspirations of the people of Tharangambadi and its neighbouring twenty four coastal villages, which can serve the needs of more than 1025 fishing vessels (both mechanized and traditional crafts) in this region. The harbour is planned to provide safe berthing and fish handling facilities. The fish handling capacity of the proposed harbour is 8500 Tons per Annum.

3) The various facilities proposed for the harbour development as per the recommendation of CICEF (Central Institute of Coastal Engineering for Fishery, Bangalore) are given below.

- i) Breakwaters (the length of the northern breakwater is 340 m and southern breakwater is 1070 m and the distance between these breakwaters at shore is 700 m).
- ii) Wharf and berth: A vertical structure will be built close to the shore in the harbour, so that the fishing boats may be moored alongside to load or unload the catches or to lie at rest. The length of wharf is 700 m. Berthing will be along the wharf and depth will be maintained around 3.5 m CD.
- iii) Beach landing: Beach landing is a vital facility for FRP's and Catamarans for its berthing. The space allotted for beach landing is 300 m and this is proposed in the northern side of the harbour.
- iv) Boat repair yard: The Boat repair yard is proposed on the southern end. It comprises of 3 Bays on each shed and each bay is provided with CR100 Rail arrangements. In this boat repair yard six boats can be repaired or built at a time.

4) Beside above it is proposed to provide the facilities viz., Fuel supply and storage, Administrative building, Sloping yard, Auction halls, Ice point, Net mending shed, UG sump, Pump and OHT for fresh water, Communication tower, Internal road pavements, Drainage with screens, Navigational aids, Power and lighting, Security system, Compound wall, Green and landscaping, Gear cloak shed, Restaurant/ Shop/ ATM, Distribution System for Fresh water and Saline water, Vehicle parking area, Toilets with Septic Tanks, Covered Settling Tank with vent, Covered Sludge Drying Beds, Compost Plant, Composted Material Storage Shed, Dried shell Storage shed, Bins for inorganic waste disposal, Generator and Transformer Yard, Waste management facility etc., in the fishing harbor.

5) The District Coastal Zone Management Authority for Nagapattinam district resolved to recommend the above project to the Tamil Nadu State Coastal Zone Management Authority. As per CRZ Notification 2011, the site is falling in CRZ-III, CRZ-I (B)(inter-tidal zone), CRZ-IV. The total project cost is Rs.160 crores.

6) As per CRZ Notification 2011, vide para 4 (i) (a) Clearance shall be given for any activity within the CRZ only if it requires waterfront and foreshore facilities. Further construction of harbor is permissible activity vide para 4 (i) (f) of the said notification 2011. However the said activities require clearance from the SEIAA vide para 4.2 (ii) (a) of CRZ Notification 2011.

7) The Authority may consider.

AGENDA ITEM NO.05: Setting up of 150 MLD Desalination Plant at Nemmeli Village - further details furnished by the CMWSSB for the fresh recommendations of the TNSCZMA

M/s Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB) has proposed to establish a 150 MLD Sea Water Reverse Osmosis Desalination Plant at Perur Village, Thiruporur Taluk, Kancheepuram District within the premises of 100 MLD Seawater Desalination Plant at Nemmeli Village, Thiruporur Taluk, Kancheepuram district. The prime purpose of desalination plant is to remove most of the dissolved solids from filtered seawater to make it potable for supplying the Chennai City. The proposed project involves construction of the following activities:

- a) Laying of seawater intake two pipeline
- b) Laying of outfall pipeline
- c) Construction of seawater intake head (offshore construction)
- d) Construction of outfall diffuser (offshore construction)
- e) Construction of seawater sump with pump house
- f) Installation of pretreatment & reverse osmosis system.

2) The subject was placed before the 86th and 87th Tamil Nadu State Coastal Zone Authority (TNSCZMA) meetings held on 30.09.2015 and 14.01.2016 respectively. The proposal has been sent to the Ministry of Environment Forests and Climate Change, Government of India as resolved in the 87th meeting of the TNSCZMA.

3) However, the CMWSSB has informed that the said proposal has been placed before the Expert Appraisal Committee in their 165th meeting held on 16.01.2017 and the Committee had deferred the projects for the want of following information.

- a) As stated by the project proponent, both the desalination plants of 150 MLD and 400 MLD are situated at a distance of 600 m. EAC has raised a query why the both plants cannot be installed at the same location. The committee also wanted to know financial as well as environmental implications of two separate units against one single unit with 600 MLD capacity.
- b) Impact of shoreline change needs to be performed.

c) Fresh recommendations from TNSCZMA after examining all the documents as mentioned para 4.2 of CRZ Notification 2011 including NoC from concerned State PCB.

4) The CMWSSB has submitted details as requested by the EAC of MoEF&CC., GoI and further stated that the CMWSSB has proposed to implement the 150 MLD Desalination Plant in the immediate future. The CMWSSB has further informed that they seek Clearance under CRZ Notification 2001, for the 400 MLD plant separately at a later date as the proposal is now under finalization by JICA, the funding agency and signing of loan agreement between JICA and GOI is expected to take some more time.

5) The above facts have been placed before the 94th meeting of the TNSCZMA held on 12.04.2017 and the Authority has requested the following additional details from the CMWSSB.

- a) Report on environmental aspects of existing 100MLD desalination plant along with half yearly/annual environmental monitoring reports to be submitted.
- b) The outfall of proposed 150 MLD plant is about 400m south of intake well of existing 100 MLD plant. Since long shore currents move towards north for about 8 months in a year, there is every possibility that discharge of 150 MLD plant is likely to affect intake water quality of existing 100 MLD plant. This needs to be examined and arrangements to avoid mixing of 150 MLD discharges into intake well of 100 MLD should be explained in the proposal.
- c) Though the buried intake and outfall pipeline is unlikely to affect shoreline changes, since the bed sediments which are lifted to surface due to wave action are likely to get transported northwards by long shore currents, it is necessary to establish through appropriate modeling studies such disturbances do not cause any change in shoreline.
- d) Conservation plan with reference to flora, fauna and turtle nesting should be furnished.

6) The CMWSSB has furnished the above reports in their letter dated 29.05.2017.

7) The Authority may consider.

AGENDA ITEM NO.06 Proposed development of the facilities envisaged in the Port Maser Plan (phase III) of Kamarajar Port Limited, at Puzhuthivakkam village, Ponneri Taluk, Tiruvallur district proposed by the Kamarajar Port Limited, Chennai.

M/S. Ennore Port Limited (KPL), Chennai has already developed at Puzhuthivakkam village, Ponneri Taluk, Tiruvallur district the Phase-I operation in 2001 with two coal berths CB1 and CB2 and is under operation since from 2001, with the coal handling capacity of 16 MTPA in order to meet the coal requirement of thermal power plants of TNEB followed by additional coal berth, iron berth, marine liquid berth, general cargo automobile container in 2006. The construction under Phase-II operation of the expansion of the port facilities again with six berths primarily for handling containers-2 berths, coal - 2 berths, LNG-1 berth 7 Multi Cargo-1 berth, are under progress.

2) Now the Kamarajar Port Limited has proposed for the development of the facilities envisaged in the Port Maser Plan (phase III) and requested Clearance under CRZ Notification 2011 for the said development. The Phase III expansion contemplates creation of ten berths comprising two Automobile berths/import terminal with the capacity of 6 MTPA, three Container berths (1000m quay length) with the capacity of 24 MTPA, two Marine liquid terminals (including IOC captive jetty) with the capacity of 5 MTPA each, two Bulk cargo terminals with the capacity of 18 MTPA and one Multi cargo berth with the capacity of 2 MTPA. Besides above, the various facilities and activities proposed under phase III are listed below.

- i) Capital Dredging & Disposal of 33 million cubic meter
- ii) Development of Bulk Cargo Stack yard
- iii) Development of Multi Cargo Stack yard
- iv) Construction of Automobile Park yard
- v) Construction of Container Park yard
- vi) Construction of MLT Storage tank
- vii) Erection of Liquid Pipeline
- viii) Construction of Bulk cargo Conveyor belt

3) The Kamarajar Port Limited has proposed to dispose the entire volume at the designated offshore disposal location or to use a minor part of the dredge sediments for land reclamation/ beach nourishment if necessity arises. In that case, the dredging quantity will be used for reclaiming the area between north of north break water to the northern boundary of the port (1.8 km length). Also the dredged sand can be utilized for reclaiming the land associated with Northern Rail Connectivity projects and other projects based on requirement. The rest of the quantity will be disposed into the sea at a suitable location offshore. Further Development of Bulk Cargo Stack yard for the proposed two dry bulk terminals, a stackyard is proposed east of existing iron ore stackyard and west of Kosathalaiyar River (beyond the CRZ).

4) The applicant has informed that the project will not involve any new land acquisition or re-settlement/ re-habilitation. The proposed site is falling in inter tidal zone CRZ - I(B), CRZ-III and CRZ IV areas. The Project cost is Rs. 6415 crores. The District Coastal Zone Management Authority for Tiruvallur district has recommended the project for Clearance.

5) With reference to the above Project, it is informed that Thiru M.R. Thiyagarajan, President Meenava Thanthai K.R. Selvakumar Meenavar Nala Sangam has filed an application (NO.52/2017) against the project at the National Green Tribunal (SZ) praying to declare the works of the Kamarajar Port Limited particularly the work of Capital Dredging Phase-III at Kamarajar Port without obtaining CRZ Clearance and authenticated approved Master Plan from the Competent Authority.

6) As per CRZ Notification 2011, vide para 3 (i) (a) & 3 (iv) (b) construction for the foreshore facilities in CRZ and land reclamation, bunding or disturbing /the natural course of seawater as a measure for control of erosion based on EIA studies is permissible activity. Further, as per CRZ Notification 2011, vide para 4 (i) (a) clearance shall be given for any activity within the CRZ if it requires waterfront and foreshore activities ; However the proposal requires clearance from the Ministry of Environment and Forests, GoI vide para 4 (ii) (a) of CRZ Notification 2011.

7) The Authority may consider.

AGENDA ITEM NO.07: Proposed construction of additional St. Vincent De Paul school building at R.S. No. 384/3 (pt), 384/6, 384/7A Manavalakurichi village, Kalkulam Taluk, Kanyakumari district proposed by Fr.E. Joseph, Parish priest, Periaviali, Manavalackurich, Kanyakumari district.

The District Environmental Engineer, TNPCB Kannyakumari has forwarded a proposal for the additional construction of St. Vincent De Paul school building at R.S. No. 384/3 (pt), 384/6, 384/7A Manavalakurichi village, Kalkulam Taluk, Kanyakumari district proposed by Fr.E. Joseph, Parish priest, Periaviali, Manavalackurich, Kanyakumari district for Clearance under CRZ Notification 2011.

2) The site is falling in CRZ-III within 200 to 500mts from the HTL of Sea as per the report of the District Coastal Zone Management Authority (DCZMA), Kanyakumari district. Project cost is Rs.23 lakhs. The total area of the project site is 5505.28 sq.mts. Existing Plinth area of the construction is 1257.79 sq.mts. The Proposed Plinth Area of the Construction is 852.88 sq.ft., Vacant area is 4344.59 sq.mts. The applicant has proposed to construct ground and First floor building with head room. The applicant has stated that Periavilai village has 501 household with 576 families and the one third of the total population of 1976 is school going children. The school desire to provide low cost affordable English education to the very poor families of the village and surrounding villages.

3) The Executive officer, Manavalakurichi Town Panchayat, Kanyakumari district has stated that the fresh water from Town Panchayat Water supply scheme is available for the proposed school building. The DCZMA of Kanyakumari District has recommended the proposal for Clearance under CRZ Notification 2011.

4) As per CRZ Notification 2011, vide para 8 III CRZ III (B) (viii) construction of school buildings for local inhabitants of the area of those panchayats, the major part of which falls within CRZ if no other area is available for construction of such facilities.

5) The Authority may consider.

AGENDA ITEM NO.8: Any other subjects with the permission of the Chair.

Sd./- xxxxx
Dr. H. Malleshappa., I.F.S.
Member Secretary, TNSCZMA &
Director, Dept. of Environment,
Chennai - 15.

Sd./- xxxxx
Thiru. Md. Nasimuddin, I.A.S.,
Chairman, TNSCZMA and
the Principal Secretary to Government,
Environment & Forests Dept., Chennai-9.

**MINUTES OF THE 95th MEETING OF THE TAMIL NADU STATE COASTAL ZONE
MANAGEMENT AUTHORITY HELD ON 22.06.2017**

AGENDA ITEM NO.01: Confirmation of the minutes of the 94th meeting of the Tamil Nadu State Coastal Zone Management Authority held on 12.04.2017.

The minutes of the 94th meeting of the Tamil Nadu State Coastal Zone Management Authority (TNSCZMA) held on 12.04.2017 communicated in Letter No.P1/1044/2015 dated 20.04.2017 of the Director of Environment was confirmed.

AGENDA ITEM NO.02: The action taken on the decisions of 94th meeting of the Authority held on 12.04.2017

The Member Secretary briefed the Members about the action taken by the Department of Environment on the decisions taken during the 94th meeting of the Tamil Nadu State Coastal Zone Management authority held on 12.04.2017.

AGENDA ITEM NO.03: Renovation of Fishing Harbour at Mudhunagar, Cuddalore old Town in Cuddalore district proposed by Asst. Director of Fisheries, Cuddalore

The Authority resolved to clear the project subject to the following specific conditions:

- a) There should not be any adverse impact on coastal eco-system due to the dredging activity and the dumping of dredged materials. Besides proper mitigation measures should also be evolved and implemented.
- b) A detailed plan for the source segregation and disposal of solid waste (Bio-degradable / non- degradable etc..) generated shall be formulated. Further solid waste such as plastics may be collected and disposed through the local bodies.
- c) The Fishermen community shall be adequately educated on the segregation of solid waste for proper management of the solid waste.
- d) No drawal of ground water in CRZ areas is permitted.
- e) Adequate mitigation measures to be taken to prevent any Oil spillage and its adverse impact.

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- f) Shoreline evolution should be monitored periodically through a reputed institution. Remedial measures need to be planned to prevent further erosion, if any, on the adjacent coastal areas.
- g) The activity should not have any adverse impact on the marine organisms. The impact on the corals, marine organisms, Turtle nesting etc., due to the above constructions, in long run, should be evaluated and monitored through a panel of experts, in which, ecologists should be included.
- h) Only those structures mentioned in the proposal and which are absolutely essential should be constructed. Soft solutions like providing geo-bags, geo-tubes shall be integrated with the hard structures.
- i) The proposed activity shall not cause hindrance to the nearby human settlements/ authorised structures and fishing activities in any manner.
- j) In Application No. 04 of 2013 in the matter of O.Fernandes versus Union of India pending before NGT at Chennai, the Hon'ble NGT (SZ) has issued orders on 4th September 2015 that the PWD or any other agency shall not proceed with any work either by putting up sea wall or groyne until further orders from the Tribunal. Hence shore protection work on the coast of Tamil Nadu should be carried out only as per the final orders of the Tribunal in the above said application.
- k) Environmental Clearance under EIA Notification shall be obtained from the State Environmental Impact Assessment Authority, Tamil Nadu.

AGENDA ITEM NO.04: Construction of New Fishing Harbour at Tharangambadi, Thillaiyadi Revenue Village, Tharangambadi Taluk, Nagapattinam district proposed by Asst. Director of Fisheries (North)., Sirkali.

The Authority resolved to clear the project, subject to the following specific conditions:

- a) Only those structures mentioned in the proposal and which are absolutely essential should be constructed. Soft solutions like providing geo-bags, geo-tubes shall be integrated with the hard structures and erosion control measure should be done on regular basis by beach nourishments.

- b) It should be ensured that there is no adverse impact on coastal eco-system due to the project and proper mitigation measures should be evolved and implemented.
- c) A detailed plan for the source segregation and disposal of solid waste (Bio-degradable / non- degradable etc.,) generated shall be formulated. Further solid waste such as plastics may be collected and disposed through the local bodies,
- d) The Fishermen community shall be adequately educated on the segregation of solid waste for proper management of the solid waste.
- e) No drawal of ground water in CRZ areas is permitted.
- f) Adequate mitigation measures to be taken to prevent the Oil spillage and its adverse impact.
- g) Shoreline evolution should be monitored periodically through reputed institutions. Remedial measures need to be planned to prevent further erosion, if any, on the adjacent coastal areas. As erosion is likely to happen, remedial measures have to be included in the current report and to submit the same for record and for future action.
- h) The activity should not have any adverse impact on the marine organisms. The impact on the corals, marine organisms, Turtle nesting etc., due to the above constructions, in long run, should be evaluated and monitored through a panel of Experts, in which, ecologists should be included.
- i) The proposed activity shall not cause hindrance to the nearby human settlements/ authorised structures and fishing activities in any manner.
- j) In Application No. 04 of 2013 in the matter of O.Fernandes versus Union of India pending before NGT at Chennai, the Hon'ble NGT (SZ) has issued orders on 4th September 2015 that the PWD or any other agency shall not proceed with any work either by putting up sea wall or groyne until further orders from the Tribunal. Hence shore protection work on the coast of Tamil Nadu should be carried out only as per the final orders of the Tribunal in the above said application.

- k) Environmental Clearance under EIA Notification shall be obtained from the the State Environmental Impact Assessment Authority.

AGENDA ITEM NO.05: Setting up of 150 MLD Desalination Plant at Nemmeli Village - further details furnished by the CMWSSB for the fresh recommendations of the TNSCZMA

The Authority resolved to recommend the proposal to the Ministry of Environment Forests and Climate Change. Government of India subject to the following specific conditions:

- a) The conditions imposed already for the project in the 87th meeting of the TNSCZMA held on 14.01.2017 shall be adhered.
- b) Besides turtle conservation plan shall be prepared and implemented during the project period.

AGENDA ITEM NO.06 Proposed development of the facilities envisaged in the Port Maser Plan (phase III) of Kamarajar Port Limited (KPL), at Puzhuthivakkam village, Ponneri Taluk, Tiruvallur district proposed by the Kamarajar Port Limited, Chennai.

The Authority resolved to recommend the proposal to the Ministry of Environment Forests and Climate Change. Government of India subject to the following specific conditions:

- a) The proposed activities involve capital dredging in Port basin and Navigational channel resulting in a quantity of 33 MCM of dredged material and the dredging is proposed to be carried out for a period of 5 years. A dredge disposal site at a depth of 25-50m depth has been identified for disposal of dredged material amounting to 30 MCM and the disposal will be made in a phased manner for a period of 5 years. The disposal site measures about 30 sq km and the dumped dredged material is expected to rise the sea bed level from 0.5 to 1 m after completion of the dumping. The Authority felt that blanketing of 30 sq km seabed area with a cover of dredge soil up to 1m may affect drastically the benthic fauna of the area.

Using the models, the dump area size should be designed in such a way that it extends from 20 km or more from 50m depth in the offshore area with a narrow band of dumping area say 100- 200m width and low discharge rate, leading to marginal increase of sea bed level. Such an arrangement may minimize the damaging effect on fauna. Fine scale bathymetry data should be collected before initiation of dumping in the proposed site and repeated annually till completion of the dumping. A report in this regard has to be submitted to the Authority as a part of Compliance report that will be submitted to the MoEF&CC, GoI after obtaining Environmental Clearance.

- b) It should be ensured that the proposed construction of Truss does not affect free flow of water.
- c) No interference of any kind to be done in Mangroves and salt marsh areas, including construction of coal conveyor belt.
- d) Area under wetlands as elaborated by the EIA report need to be considered and managed as wetlands, and not reclaimed or built up in future.
- e) In addition to the mangroves, the existing patch of sand dune / beach vegetation within the Kamarajar Port Limited (KPL) premises needs to be scientifically studied, covering aspects such as checklist of flora and fauna, diversity, representativeness, population trends, regeneration and recruitment trends, percentage coverage of invasive alien species and presence of breeding populations. The proposed afforestation / green belt programme needs to be based on the above assessment, with habitat specific greening plans being developed and implemented.
- f) The afforestation / green belt programme needs to be representative of the typical vegetation of the Ennore estuary, covering all the major habitat types including salt marshes. It is further recommended that a set of biological indicators be identified based on the scientific assessment and be used for monitoring the efficacy of the afforestation / greening programme.

- g) It is also recommended that impact assessment studies be commissioned that cover a select number of species as also the different phases of project execution. The Kamarajar Port Limited shall develop and implement ecological restoration programmes with the support of the Tamil Nadu Forest Department, especially addressing wetlands and wetland bio-diversity.
- h) In view of the location of the project within the landscape that encompasses a perennial river and its estuarine complex, it is recommended that a dedicated programme be developed and implemented on the hydrological services of the landscape, notably flood mitigation.
- i) The concerns expressed during the public hearing that was held by the Kamarajar Port need to be addressed during the project implementation. These would cover socio-economic as also ecological and environmental concerns.
- j) Oil Spill Contingency Plan should be prepared and a team of trained men formed to be available 24 X 7 to tackle any disasters.
- k) A detailed plan for the source segregation and disposal of solid waste (Bio-degradable / non- degradable etc.,) generated shall be formulated. Further solid waste such as plastics may be collected and disposed as per rules. ETP should be provided and treatment done meticulously.

AGENDA ITEM NO.07 Proposed construction of additional St. Vincent De Paul school building at R.S. No. 384/3 (pt), 384/6, 384/7A Manavalakurichi village, Kalkulam Taluk, Kanyakumari district proposed by Fr.E. Joseph, Parish priest, Periavali, Manavalackurich, Kanyakumari district.

The Authority resolved to defer the proposal to the next meeting for discussion.

Sd./- xxxx

Dr. H. Malleshappa., I.F.S.
Member Secretary, TNSCZMA &
Director, Dept. of Environment,
Chennai - 15.

Sd./- xxxx

Thiru. Md. Nasimuddin, I.A.S.,
Chairman, TNSCZMA and
Principal Secretary to Government,
Environment & Forests Dept., Chennai-9.