

97th MEETING

TAMIL NADU STATE COASTAL ZONE MANAGEMENT AUTHORITY

Date: 29.11.2017

Time: 3.00 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 - 97th
MEETING**

Date & Time: 29.11.2017 - 3.00 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 96th meeting of the Tamil Nadu State Coastal Zone Management Authority held on 08.09.2017.

The 96th meeting of the Tamil Nadu State Coastal Zone Management Authority was held on 08.09.2017 and the minutes were communicated in letter No. P1/1044/2015 dated 13.09.2017 (copy enclosed) of Director of Environment. It may be confirmed.

**MINUTES OF THE 96th MEETING OF THE TAMIL NADU STATE COASTAL ZONE
MANAGEMENT AUTHORITY HELD ON 08.09.2017**

AGENDA ITEM NO.01: Confirmation of the minutes of the 95th meeting of the Tamil Nadu State Coastal Zone Management Authority held on 22.06.2017.

The minutes of the 95th meeting of the Tamil Nadu State Coastal Zone Management Authority (TNSCZMA) held on 22.06.2017 communicated in Letter No.P1/1044/2015 dated 30.06.2017 of the Director of Environment was confirmed.

AGENDA ITEM NO.02: The action taken on the decisions of 95th meeting of the Authority held on 22.06.2017

The Member Secretary briefed the Members about the action taken by the Department of Environment on the decisions taken during the 95th meeting of the Tamil Nadu State Coastal Zone Management authority held on 22.06.2017.

AGENDA ITEM NO.03: Setting up of ETPS replacement Thermal Power Project (1x660 MW) at Ernavur Village, Thiruvottiyur Taluk, Tiruvallur District proposed by TANGEDCO, Chennai .

The Authority resolved to recommend the proposals to the Ministry of Environment, Forests and Climate Change, GoI with the following specific conditions:

- i) The sea water outfall location shall be based on the dispersion modeling studies.
- ii) The unit shall provide sensors to monitor the temperature of the sea water outfall pipeline at appropriate locations with continuous recording arrangements.
- iii) Debris should not be dumped in to the water bodies /sea.
- iv) Green belt shall be developed based on the soil and climatic conditions in consultation with the Forest Department.

AGENDA ITEM NO.04: Conversion of overhead Distribution lines into Underground Cabling System at Nagapattinam Town, Nagore Town, Velipalayam Town, Thonithurai and Velankannai (Vadakkupoigainallur) of Nagapattinam Taluk proposed by Superintending Engineer, TANGEDCO, Nagapattinam

The Authority resolved to recommend the proposals to the Ministry of Environment, Forests and Climate Change, GoI with the following specific conditions:

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- a) The work shall be carried out, initially through trial pits/ trenches on a pilot scale and after analyzing the pros and cons, the work shall be executed without any adverse impact on the coastal eco-system.
- b) As far as possible, the cutting of trees shall be avoided and if not possible, the transplant of trees should be explored. Further sufficient seedlings/ tall plants should be planted newly, where ever possible in the project site and ensure their growth.
- c) The dismantling of the existing overhead network with wastes materials such as transformers, conductors, poles etc should be reused in a different project areas and the evacuated earth while laying the electrical cables should be reused for backfilling and compaction of the UG cable trenches.
- d) The cable laying activity shall not be carried out in the areas falling under CRZ-I and CRZ-IV.
- e) The cable laying activity shall be carried out in coordination with various Departments / Agencies such as Municipality, Town Panchayat, Village Panchayat, TWAD Board, Highways Department, PWD, BSNL etc. and shall ensure that it does not affect the existing water supply lines, drainage lines, existing cabling system etc.
- f) The project proponent shall ensure that in Velankanni Town area, the cable laying activity shall not be duplicated since already there is a proposal by the Town Panchayat in Velankanni Town to lay underground cables. The project proponent shall consult the Velankanni Town Panchayat in this regard.
- g) The project proponent shall ensure that the height of the LT feeder Pillar / service is kept at least 6 (Six) feet above ground level so as to avoid the possibility of damage as well as to ensure safety due to flooding in case of heavy rain.

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- h) The project proponent shall take all precautionary measures and shall ensure that no power leakage occurs from the cables laid underground under any circumstances.

AGENDA ITEM NO.05: Proposed "Common Corridor Pipeline Project, Re-gasified Natural Gas (R-LNG) Spur pipeline from Ennore to Manali proposed by Indian Oil Corporation Ltd., Southern Region Pipelines, Chennai

The Authority resolved to recommend the proposals to the Ministry of Environment, Forests and Climate Change, GoI with the following specific conditions:

- a. The unit shall ensure that the pipeline is designed and constructed by adhering to OISD (Oil Industry Safety Directorate) Code as applicable.
- b. The unit shall ensure that SCADA (Supervisory Control And Data Acquisition) system as envisaged is provided for monitoring all the operational parameters and integrity of the pipe line.
- c. The unit shall comply with the recommendations as suggested in the Environment Impact Assessment & Risk Assessment Study Report as conducted by M/s. Bagavathi Ana Labs Pvt. Ltd.,
- d. The unit shall comply with all the recommendations suggested in the Environment Management Plan both in the Construction and Operational Phase of the project done by M/s. Bagavathi Ana Labs Pvt. Ltd.,
- e. The unit shall ensure that an Environment Management Cell headed by a Project Manager is created and put in place in order to implement and to continue to maintain all measures suggested in the Environment Management Plan.
- f. Green belt shall be developed based on the soil and climatic conditions in consultation with the Forest Department.
- g. The unit shall provide adequate sanitation for workers to be deployed in the pipe line project.

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- h. The unit shall prepare Emergency Response and Disaster Management Plan (ERDMP) as per PNGRB (Petroleum & Natural Gas Regulatory Board) Regulations for the pipeline project.
- i. The unit shall conduct a safety audit on the compliance of the safety measures adhered to as per OISD (Oil Industry Safety Directorate) Code through CISRA, CLRI, Chennai.
- j. The unit shall display sign boards en-route of the pipeline at every 500 Meter intervals and at strategic locations to indicate the presence of the underground pipeline and the depth at which the pipelines are laid.
- k. The unit shall furnish quarterly report on the pipeline routing progress of the project to TNPCB.
- l. The unit shall ensure that acquisition of land for the project is completed before commencement of the project.
- m. The unit shall obtain all statutory clearance from the concerned authority for laying of the proposed pipe line before commencement of the project.
- n. The unit shall establish the facility only after obtaining the consent to establish from Tamil Nadu Pollution Control Board.
- o. The unit shall implement the CSR activities with the involvement of local bodies and also with local public involvement.
- p. The unit shall ensure that no ecological sensitive area is located within the radius of 10 km from the project site

AGENDA ITEM NO.06 Proposed laying pipeline in CRZ area for discharging treated effluent into sea for the proposed Special Oxide and Metal Plant BARC facility at Pazhayakayal, Thoothukudi district proposed by Bhabha Atomic Research Centre, Navi Mumbai.

The Authority resolved to recommend the proposals to the Ministry of Environment, Forests and Climate Change, GoI with the following specific conditions:

- a) The sea water outfall location shall be based on the dispersion modeling studies.

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- b) The unit shall explore the possibilities of reducing the salinity level of the brine around 45ppt to 40ppt.
- c) An action plan should be evolved to mitigate adverse impact, if any due to the project, on nearby Mangroves.
- d) The Unit should implement a specific programme in the Gulf of Mannar Biosphere in association with the Forest Department / Gulf of Mannar Biosphere Reserve Trust.
- e) There should be no discharge of effluent into the sea or any water body as assured.
- f) Green belt shall be developed based on the soil and climatic conditions in consultation with the Forest Department.
- g) The unit shall ensure that their activities shall not affect the regular fishing activities.

AGENDA ITEM NO.07: Proposed facilitation of New Sea Water Intake System by re-aligning of Existing Intake and Outfall Pipeline route at Ennore proposed by M/s. Coromandel International Limited, Ennore.

The Authority resolved to recommend the proposals to the Ministry of Environment, Forests and Climate Change, GoI with the following specific conditions:

- a) The brackish water outfall location shall be realigned based on the dispersion modeling studies.
- b) The unit shall obtain NOC from TNPCB for the project.
- c) Green belt shall be developed based on the soil and climatic conditions in consultation with the Forest Department.
- d) The unit shall ensure that their activities do not affect the fishing activities of the local communities.
- e) The unit shall implement the CSR activities with the involvement of local bodies and also with local public involvement.

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- f) The unit shall comply with the recommendation as suggested in the EMP as conducted by M/s. Cholamandalam MS Risk Services Ltd.,

AGENDA ITEM NO.08: Proposed event titled "Embrace Our Rivers" - Public Art Awareness during September 2017 proposed by Goethe Institut Chennai, Max Muller Bhavan, Chennai.6

The Authority requested the Member Secretary to make a site visit along with three other Members of the TNSCZMA, on the project areas, within 10 days and furnish a report on the feasibility of the implementation of the project especially with reference to the specific locations of the proposed activities under the proposal to the Authority for consideration.

AGENDA ITEM NO.09 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 Authority resolved to approve the proposal subject to the following specific conditions:

- a) Prior Planning permission should be obtained for the proposed constructions from the local authorities concerned and the proposed constructions should satisfy the local Town and Country Planning regulations and para 8 (i) III CRZ III A (iii) (j) & B (viii) of CRZ Notification 2011.
- b) There should not be any ground water extraction in CRZ.
- c) Proper arrangements should be made for the disposal of solid wastes generated in the project area.
- d) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.

AGENDA ITEM NO.10: Proposed construction of residential building in S.No.597/13 at Kanyakumari Village, Agastheeswaram Taluk, Kanyakumari district proposed by Brahma Kumaris Beena, Anna Nagar, Chennai.

The Authority resolved to approve the proposal subject to the following specific conditions:

- a) Prior Planning permission should be obtained for the proposed constructions from the local authorities concerned and the proposed constructions should satisfy the local Town and Country Planning regulations and para 8 (i) II CRZ II (i) & (ii) of CRZ Notification 2011. The FSI/FAR should be as on 19.02.1991.
- b) There should not be any ground water extraction in CRZ.
- c) Proper arrangements should be made for the disposal of solid wastes generated in the project area.
- d) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.

AGENDA ITEM NO.11 Extension of time for the Clearance already issued to the Director, Sacred Heart Marine Research Centre, Thoothukkudi for the temporary research laboratory at Beach road, Karapad, Thoothukkudi.

The applicant informed that the research will be continued with the latest technology. The Authority however found that the scope of the existing activities has been changed and resolved not to extend the time limit. Further the Authority resolved to request the applicant to apply afresh for Clearance with the current facts and details of the activities for scrutiny.

AGENDA ITEM NO.12 Proposed sub-division of residential property at T.S. No.282/1 and 282/4 at Thiruvanmiyur Village on Ashtalakshmi Koil street, Besant Nagar, Chennai.90 proposed by Thiru P.V. Sanmugam & 2 others, Chennai.28.

The Authority resolved to approve the proposal subject to the following specific conditions:

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- a) Sub-Division approval should be obtained duly from the CMDA / Corporation of Chennai
- b) Prior Planning permission should be obtained for the proposed constructions, if any, from the local authorities concerned and the proposed constructions should satisfy the local Town and Country Planning regulations and para 8 (i) II CRZ II (i) & (ii) of CRZ Notification 2011. The FSI/FAR should be as on 19.02.1991.
- c) There should not be any ground water extraction in CRZ.
- d) Proper arrangements should be made for the disposal of solid wastes generated in the project area.
- e) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.

AGENDA ITEM NO.13 Proposed sub-division of residential property at Door No.3/347C, S.No.227/7A, 7B, 7C, 7D and 7E of Kottivakkam Village, Chennai proposed by Thiru L. Amalraj, K.K. Nagar, Chennai.

The Authority resolved to approve the proposal subject to the following specific conditions:

- a) Sub-Division approval should be obtained duly from the CMDA / Corporation of Chennai
- b) Prior Planning permission should be obtained for the proposed constructions, if any, from the local authorities concerned and the proposed constructions should satisfy the local Town and Country Planning regulations and para 8 (i) II CRZ II (i) & (ii) of CRZ Notification 2011. The FSI/FAR should be as on 19.02.1991.
- c) There should not be any ground water extraction in CRZ.
- d) Proper arrangements should be made for the disposal of solid wastes generated in the project area.
- e) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.

AGENDA ITEM NO.14 Proposed sub-division of residential property at S. No. 224/5A7,5A8, 5A9, 244/ 5A10, 5A11 of Kottivakkam village, Chennai proposed by Thiru Sarath Kakumanu and 4 others, Chennai.

The Authority resolved to approve the proposal subject to the following specific conditions:

- a) Sub-Division approval should be obtained duly from the CMDA / Corporation of Chennai
- b) Prior Planning permission should be obtained for the proposed constructions, if any, from the local authorities concerned and the proposed constructions should satisfy the local Town and Country Planning regulations and para 8 (i) II CRZ II (i) & (ii) of CRZ Notification 2011. The FSI/FAR should be as on 19.02.1991.
- c) There should not be any ground water extraction in CRZ.
- d) Proper arrangements should be made for the disposal of solid wastes generated in the project area.
- e) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.

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
Principal Secretary to Government,
Environment & Forests Dept., Chennai-9.

AGENDA ITEM NO.02: The action taken on the decisions of 96th meeting of the Authority held on 08.09.2017

Sl. No	subject	Action taken
01	Setting up of ETPS replacement Thermal Power Project (1x660 MW) at Ernavur Village, Thiruvottiyur Taluk, Tiruvallur District proposed by TANGEDCO, Chennai.	As resolved, the proposal has been sent to Environment and Forests Department, GoTN in Ir. Roc. No. P1/414/2017 dated 13.09.2017
02	Conversion of overhead Distribution lines into Underground Cabling System at Nagapattinam Town, Nagore Town, Velipalayam Town, Thonithurai and Velankannai (Vadakkupoigainallur) of Nagapattinam Taluk proposed by Superintending Engineer, TANGEDCO, Nagapattinam	As resolved, the proposal has been sent to Environment and Forests Department, GoTN in Ir. Roc. No. P1/433/2017 dated 13.09.2017
03	Proposed "Common Corridor Pipeline Project, Re-gasified Natural Gas (R-LNG) Spur pipeline from Ennore to Manali proposed by Indian Oil Corporation Ltd., Southern Region Pipelines, Chennai	As resolved, the proposal has been sent to Environment and Forests Department, GoTN in Ir. Roc. No. P1/1606/2017 dated 13.09.2017
04	Proposed laying pipeline in CRZ area for discharging treated effluent into sea for the proposed Special Oxide and Metal Plant BARC facility at Pazhayakayal, Thoothukudi district proposed by Bhabha Atomic Research Centre, Navi Mumbai.	As resolved, the proposal has been sent to Environment and Forests Department, GoTN in Ir. Roc. No. P1/502/2016 dated 13.09.2017
05	Proposed facilitation of New Sea Water Intake System by re-aligning of Existing Intake and Outfall Pipeline route at Ennore proposed by M/s. Coromandel International Limited, Ennore.	As resolved, the proposal has been sent to Environment and Forests Department, GoTN in Ir. Roc. No. P1/1023/2017 dated 13.09.2017
06	Proposed event titled "Embrace Our Rivers" - Public Art Awareness during September 2017 proposed by Goethe Institut Chennai, Max Muller Bhavan, Chennai.6	As resolved, field inspection was conducted by a team comprising members of the TNSCZMA on 13.09.2017 and the team suggested to shift the proposed events to the Island ground. Accordingly, the PP was requested to furnish a fresh detailed project report, with reference to the new locations, vide letter R.C.No.P1 /1418/ 2017 dated 23.10.2017

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.	As resolved Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/275/2017 dated 13.09.2017
08	Proposed construction of residential building in S.No.597/13 at Kanyakumari Village, Agastheeswaram Taluk, Kanyakumari district proposed by Brahma Kumaris Beena, Anna Nagar, Chennai.	As resolved Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/954/2017 dated 13.09.2017
09	Extension of time for the Clearance already issued to the Director, Sacred Heart Marine Research Centre, Thoothukkudi for the temporary research laboratory at Beach road, Karapad, Thoothukkudi.	As resolved, the PP has been requested to apply afresh for Clearance with the current facts and details of the activities, vide letter R.C.No.P1 /946/ 2017 dated 13.09.2017
10	Proposed sub-division of residential property at T.S. No.282/1 and 282/4 at Thiruvanmiyur Village on Ashtalakshmi Koil street, Besant Nagar, Chennai.90 proposed by Thiru P.V. Sanmugam & 2 others, Chennai.28.	As resolved Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/1695/2017 dated 13.09.2017
11	Proposed sub-division of residential property at Door No.3/347C, S.No.227/7A, 7B, 7C, 7D and 7E of Kottivakkam Village, Chennai proposed by Thiru L. Amalraj, K.K. Nagar, Chennai.	As resolved Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/269/2017 dated 13.09.2017
12	Proposed sub-division of residential property at S. No. 224/5A7,5A8, 5A9, 244/ 5A10, 5A11 of Kottivakkam village, Chennai proposed by Thiru Sarath Kakumanu and 4 others, Chennai.	As resolved Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/141/2017 dated 13.09.2017

AGENDA ITEM NO.03: Mining of Rare minerals in mining lease area of 141.33 ha & 7.06 ha at Manavalakurichi, Lakshmipuram and Colachel villages of Kalkulam taluk in Kanniyakumari district proposed by M/s. Indian Rare Earths Limited

The Indian Rare Earth Limited, Manavalakurichi, Kanniyakumari district has forwarded TWO proposals for the Mining of Rare minerals in mining lease area of 7.06 hectares and 141.22 hectares at Manavalakurichi village and Manavalakurichi, Lakshmipuram, Colachel villages of Kalkulam taluk in Kanniyakumari district., respectively.

2) As per the decision of the Authority, in the 74th meeting of the TamilNadu State Coastal Zone Management Authority held on 09.10.2013, the proposals have been sent to the Ministry of Environment, Forests & Climate Change, GoI for clearance under CRZ Notification 2011. Among other things, the following condition has been imposed for the above two projects:

"There should not be any mining in CRZ-I (B) areas, i.e. in the inter-tidal zone".

3) The Indian Rare Earth Limited has informed to the Ministry of Environment., GoI that their major portion of mining lease area falls under inter-tidal zone and major concentration is available in the inter - tidal zone only and also CRZ Notification does not restrict mining of rare minerals in inter-tidal zone. The proposal was discussed in the meeting of Environmental Appraisal Committee for CRZ, GOI held on 24.01.2014 at New Delhi, wherein, the committee advised MoEF to seek the necessary clarification from TNSCZMA on the subject matter.

4) In this connection, it is submitted that as per CRZ Notification vide para 3 (x) mining of rare minerals which are not available outside CRZ areas is permissible activity. However, the said activity is not a permissible activity in CRZ-I B i.e., inter tidal zone but permissible only in CRZ-III vide para 8 III CRZ III A (iii) (c) of CRZ Notification 2011. Further vide para 4 (ii) (g) of the said Notification the proposal requires clearance from the MoEF., GoI.

5) The above details were placed before the 78th meeting of the Tamil Nadu State Coastal Zone Management Authority held on 21.07.2014 and in the 89th meeting held on 01.06.2016 and the Authority has resolved as follows:

"to request the Ministry of Environment, Forest and Climate Change, GoI to issue suitable amendment to CRZ Notification 2011, permitting mining in inter-tidal zone areas {(i.e., CRZ-I (B))} and also in CRZ-III areas between 200mts and 500mts from the HTL, based on the opinion of the Ministry of Law and Justice. On receipt of the said new regulation/amendment in the CRZ Notification 2011, the TNSCZMA may take decision on the above mining proposal."

6) Accordingly MoEF&CC, GoI was requested in Ir. No. P1/1688/2013 dated 06.06.2016 to issue suitable amendment to CRZ Notification 2011, as requested by the TNSCZMA.

7) The MoEF&CC., GoI in notification G.S.R. 1227 (E) dated 6th October 2017, has issued amendment accordingly permitting manual mining of atomic minerals in the inter-tidal zone by such agencies as authorized by the Department of Atomic Energy, as per mining plan approved by the Department of Atomic Energy. Provided that the manual mining operations are carried out only by deploying persons using baskets and hand spades for collection of ore or mineral within the inter-tidal zone and as per the approved mining plan.

8) In view of above, the IREL, Manavalakurichi have requested Clearance under CRZ Notification 2011, for the Mining of Rare minerals in mining lease area of 7.06 hectares and 141.22 hectares at Manavalakurichi village and Manavalakurichi, Lakshmipuram, Colachel villages of Kalkulam taluk in Kanniyakumari district., respectively.

9) The Authority may consider.

AGENDA ITEM NO.04: Setting up of 400 MLD SWRO Desalination Plant at Perur along ECR, Chennai - Fresh Recommendation requested as per EAC meeting proposed by CMWSSB

M/s Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB) has proposed to establish a 400 MLD Sea Water Reverse Osmosis Desalination Plant at Perur Village, Thiruporur Taluk, Kancheepuram District at a distance of 600 m in the northern side of the existing 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 sea water requirement for the proposed plant will be 47791.66 cu.m/hr (1147 MLD). The sea water will be drawn by laying two submarine pipelines. Both the seawater intake heads will be located at a distance of about 1150 m from the shoreline at 10m CD (Chart Datum) water depth. The water from the intake head will be drawn by gravity flow through the submarine pipeline buried 1 m below the sea floor.

3) The proposed Desalination plant will have an offshore screen, offshore intake and outfall pipe, onshore screen, lamella clarifier, dissolved air floatation, gravity dual media filter, reverse osmosis system, post treatment, administration building, workshop building, chemicals storage building, product water storage & distribution.

4) The backwash and sludge generated at periodic intervals from various treatment units would be discharged into the sea along with brine. The salinity of the return water released into the sea will be 71 ppt, which will have the salinity of the difference of 33 ppt higher than the seawater ambient salinity of 38 ppt. A chlorine

dosage of 3ppm will be given to the drawn seawater and the return water discharged into the sea will have the concentration of around 0.2 ppm. The brine water discharged into the sea will be 31125 cu.m/hr (747 MLD). The outfall diffuser will be located at 750 m from the shoreline at the water depth of 8 m CD. The outfall will have a multiple port diffuser arrangement system with 18 Nos. x 600mm diameter. Limited excavation work will be carried out for construction of Civil structures. Some amount of leveling / grading through cut and fill is required to make the land suitable for construction. The domestic solid waste will be suitably disposed and the sewage generated will be treated and the treated sewage will be used for green belt development.

5) The District Coastal Zone Management Authority, Kancheepuram district has recommended the project subject to several conditions.

6) The project site is falling in CRZ III, CRZ - I (inter tidal zone) and CRZ-IV (sea water area). The total project cost is Rs. 2891.70 crores. As per CRZ Notification 2011, vide para 4 (i) (a), para 8 I CRZ I (i) (b) and 8 III CRZ III A (h) & B(v) the above activities are permissible activities. However the project requires clearance from the MOEF., GoI vide para 4 (ii) (h) of CRZ Notification 2011.

7) The subject was placed before the 86th Tamil Nadu State Coastal Zone Authority (TNSCZMA) meeting held on 30.09.2015 and the TNSCZMA has requested the following details.

- a) A detailed turtle nesting conservation plan in and around the project areas.
- b) A report on the impact of eco system (flora and fauna) due to the intake and outfall pipelines shall be furnished and the mitigation measures taken on the adverse impacts shall be furnished.
- c) As CMWSSB has already constructed a desalination plant at Nemmeli a report on the functioning of the said plant with reference to the conditions imposed in the Environmental Clearance should be furnished.
- d) Baseline data of the Nemmeli plant, details of the 600MLD plant being constructed by Reliance in Rann of Kutch and other relevant baseline study reports shall be furnished to enable a comparison and obtain learning.

8) The CMWSSB has furnished the above reports/ details and the proposal again placed before the 87th TNSCZMA meeting held on 14.01.2016 and the authority has 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 should not cause coastal erosion and alter the beach configuration.
- b) Untreated chemical waste generated due to membrane protection activity and the sewage generated should not be discharged into the sea.
- c) The project activity should not affect the coastal ecosystem including marine flora and fauna.
- d) It may be ensured that mercury concentration is not present in the end product.
- e) The proponent should ensure that the saline water shall not gain access into ground while conveying or processing the sea water.
- f) Marine water quality should be monitored at the outfall area every quarter and results sent to Tamil Nadu State Coastal Zone Management Authority.
- g) A system shall be evolved for a close and continuous monitoring during the construction and post construction phases through reputed institutions such as National Center for Sustainable Coastal Management (NCSCM), Anna University, Chennai/NIOT, Chennai / IIT Chennai. Periodical report shall be furnished to the Tamil Nadu State Coastal Zone Management Authority on the site conditions every year so as to take mitigation measures on the event of any adverse impacts on the coast.
- h) The impact on the corals, marine organisms, Turtle nesting etc., due to the above constructions, in long run, should be evaluated and monitored through experts, in which, ecologists should be included.
- i) The activities such as intake pipeline and outfall line and intake arrangement in sea and the pipeline should not cause hindrance to fishing activities and to boat movement.
- j) Marking the intake and outfall pipelines adequately such that fishing vessels and fishermen are made aware of its presence.
- k) No blasting or drilling activities in CRZ is permissible.
- l) The proponent should not prevent public from easy access to the beach.
- m) The proponent shall implement the Green Belt as envisaged in EIA report.

9) The proposal was placed before the 165th Expert Appraisal Committee on 16.01.2017 for both proposed 400 MLD and 150 MLD Desalination Plants situated at Perur Village and Nemmeli Village respectively. The EAC had deferred the projects for the want of the following information.

- i) As stated by the Project Proponent (PP), 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 environment implications of two separate units against one single unit with 600 MLD capacity.
- ii) Impact of shoreline change needs to be performed.
- iii) Fresh recommendations from the TNSCZMA after examining all the documents as mentioned para 4.2 of CRZ Notification 2011 including NoC from concerned State PCB.

10) The CMWSSB has already submitted their reply for 150 MLD Desalination Plant and the proposal has been placed before the 95th TNSCZMA meeting and the authority has resolved to recommend the proposal to MoEF & CC. Accordingly, proposals have been sent to MoEF & CC, Govt. of India.

11) The CMWSSB has now submitted the followings details with reference to the 400 MLD Desalination Plant and requested fresh recommendation from TNSCZMA to MoEF & CC, Govt. of India as indicated in the 165th EAC meeting of MoEF & CC, Govt. of India.

- i) Financial as well as environmental implications of two separate units. (i.e. proposed 150 MLD & 400 MLD) against one single unit with 600 MLD capacity.
- ii) Impact of shoreline change have been prepared towards setting up of the 400 MLD SWRO Desalination Plant at Perur.
- iii) The NoC received from TNPCB
- iv) Details on Mathematical Model Study done for the impact of soil erosion due implementation of 150 MLD and 400 MLD plants.

12) The Authority may consider.

AGENDA ITEM NO.05: Proposed construction of two training walls to provide permanent stability of bar mouth in Pulicat Lake at Pulicate Village, Ponneri Taluk, Tiruvallur district proposed by Fishing Harbour Project Division, Fisheries Department.

The District Coastal Zone Management Authority (DCZMA) for Tiruvallur district has forwarded a proposal proposed by the Fishing Harbour Project Division, Fisheries Department for the proposed construction of two training walls to provide permanent stability of bar mouth in Pulicat Lake at Pulicate Village, Ponneri Taluk, Tiruvallur district for Clearance under CRZ Notification 2011.

2) The Fisheries Department has informed that the Pulicat Lake is a shallow salt water lagoon over a length of about 60mts long with the deep opening of about 0.8 km width situated about 1.6 km north of the Pulicat light house. Due to the net northerly littoral drift the formation of sand bars as well as the spits and its migration as well as modification is a common phenomenon, which leads to close the entrance. Further the phenomena leads to adverse effect of hampering the smooth movement of vessel as the depth of the channel is reduced.

3) In view of above, the Fisheries Department has proposed to construct two training walls to stabilize the mouth opening. The rubble stones will be used for the construction of training walls in Pulicat bar mouth. The length of the North training wall is 160mts and South training wall is 150mts. The depth of the training walls are 4.5mts with crest width of 4mts. Further a Channel of width 30mts to 50mts in between the training walls will be created by dredging the sea bed up to -1.5m bed level.

4) The total cost of the project is Rs.27 crores and the project location is falling under IV. The total plot area of the project is 32501 sq.mts. The DCZMA for Tiruvallur district have recommended the project to TNSCZMA.

5) As per CRZ Notification 2011, vide para 3 (i) (a), 3 (iv) (b &c) and 4 (i) (f) measures for control of erosion, based on scientific including Environmental Impact Assessment (hereinafter referred to as the EIA) studies, maintenance or clearing of waterways, channels and ports, based on EIA studies; are permissible activities. However, the said activities require clearance from the SEIAA vide para 4.2 (ii) (f) of the CRZ Notification 2011.

6) However, 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 issued instructions to prepare a Comprehensive Shoreline Protection Management Plan / Scheme for the entire coast of Tamil Nadu especially with reference to erection of Groynes, sea walls and training walls etc., and hence the said works should be carried out on the approval of the said plan from the competent authority. The TNSCZMA has prepared Comprehensive Shoreline Protection Management Plan by engaging IIT, Madras and the copies of the said plan has been submitted to MoEF & CC, Govt. of India for approval and the Hon'ble NGT (SZ).

7) Further the Hon'ble NGT (SZ) has issued orders in application 4 of 2013 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.

8) The Authority may consider.

AGENDA ITEM NO.06: Proposed development of Fishing Harbour at Vellapallam Village, Vedaranyam Taluk, Nagapattinam district proposed by Asst. Director of Fisheries, Nagapattinam (South)

The District Environmental Engineer, Nagapattinam district has forwarded a proposal for the proposed development of Fishing Harbour at Vellapallam Village, Vedaranyam Taluk, Nagapattinam district proposed by Assistant Director of Fisheries, Nagapattinam for Clearance under CRZ Notification 2011.

2) Under the Project, the Fisheries Department has proposed to develop the existing fishing harbour with the following waterside and landside facilities:

1. Southern Break Water : 1400 Meter
2. Northern Break Water : 1100 Meter
3. Diaphragm Wall : 250 Meter

3) Besides the above, the project proponent has also proposed to establish viz., Auction Hall (A), Auction Hall (B), Net Mending Shed (2 Nos.), Gear Cloak Room (2 Nos.), Office Building, Genset Room, Security Room, Toilet Building (2 Nos.), Sewage Treatment Plant, Overhead Tank, Restaurant, Fishermen Rest Shed, Fresh Water Sump, Boat Repair Workshop etc.,

4) After the development of the Harbour, 1000 Nos of traditional crafts and 100 Nos., of Mechanized Boats will be operated and the fishing harbour will be handling 25-30 tonnes per day. The Basin and approach channel have been proposed for dredging depth upto -3.0 mts CD and the dredging materials will be used for reclamation.

5) The total project cost is Rs.152 crore and the proposed area of the project site in land area is 3.00 Hec and Sea side is 21.20 Hec. The DCZMA of Nagapattinam has recommended the proposal for Clearance. The project site is falling in CRZ-I, III and IV as per the HTL demarcation of Institute of Remote Sensing, Anna University.

6) However, 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 issued instructions to prepare a Comprehensive Shoreline Protection Management Plan / Scheme for the entire

coast of Tamil Nadu especially with reference to the erection of Groynes, sea walls and training walls etc., and hence the said works should be carried out on the approval of the said plan from the competent authority. The TNSCZMA has prepared Comprehensive Shoreline Protection Management Plan by engaging IIT, Madras and the copies of the said plan has been submitted to MoEF & CC, Govt. of India for approval and the Hon'ble NGT (SZ).

7) Further the Hon'ble NGT (SZ) has issued orders in application 4 of 2013 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.

8) 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 SEIAA, vide para 4.2 (ii) (c) of CRZ Notification 2011 as the handling capacity of the Fishing Harbour is more than 10,000 MTPA.

9) The Authority may consider.

AGENDA ITEM NO.07: Proposed construction of Fish Landing Centre at Kundthukal, Ramanathapuram district proposed by Asst. Director of Fisheries, Rameswaram

The District Collector, Ramanathapuram district has forwarded a proposal for the proposed construction of Fish Landing Centre at Kundthukal (Near S.No.729 Pt, 1205/1, 2 Pt adjacent to Palk Bay) at Pamban Village, Rameswaram Taluk, Ramanathapuram district proposed by Assistant Director of Fisheries, Rameswaram for Clearance under CRZ Notification 2011.

2) Under the Project, the Fisheries Department has proposed to construct a Fish Landing Centre, designed for berthing of about 250 Fishing boats with facilities of T-Jetties, L-Jetties, Diaphragm wall besides facilities viz., Fish Auction Hall, Rest rooms for Fishermen, facilities to carryout minor repairs to the boats, toilets, facility for drying fish, cold storage for storing of fish, restaurant, radio communication tower, administrative office, parking area, internal and access roads etc. The fish landing capacity is projected to be about 9750 TPA.

3) The Fish Landing Centre is aimed at decongesting the fishing jetty on the Palk Bay side and persuade a section of fishermen to take to deep sea fishing in India Ocean and avoid getting arrested by the Srilankan Navy in the Palk Bay. Under the proposal, the applicant has proposed to reclaim of shore for a length of about 250 mtr. for the formation of passage. Quay is proposed to be placed at -3.0 m depth. The Fish Landing Quay is 132m, Outfitting Quay is 50m, Repair Quay is 50m and Idle-berthing Quay is 705m.

4) The total project cost is Rs.60 crore and the proposed area of the project site in land area is 4.45 Hec. The DCZMA of Ramanathapuram district has recommended the proposal for Clearance. The project site is falling in CRZ-I and IV as per the HTL demarcation of Institute of Remote Sensing, Anna University.

5) As per CRZ Notification 2011, vide para 3 (i) (a) & 3 (iv) (b to d) construction for the foreshore facilities in CRZ and land reclamation, bunding or disturbing /the natural course of seawater for the construction or modernization or expansion of foreshore facilities like Ports, harbours, jetties etc., are permissible activities. Further facilities required for traditional inhabitants living in the Biosphere reserve are permissible activities as per para 8 I CRZ I (ii) (b) of CRZ Notification, 2011.

6) The Authority may consider.

AGENDA ITEM NO.08: Proposed Four laning of Villupurm - Puducherry - Cuddalore - Nagapattinam Section of NH-45A in the State of Tamil Nadu under NHDP Phase-IV proposed by National Highway Authority of India

The National Highway Authority of India (NHAI), Villupuram has requested Clearance under CRZ Notification 2011 for the proposed Four laning of Villupurm - Puducherry - Cuddalore - Nagapattinam Section of NH-45A in the State of Tamil Nadu / Union Territory of Puducherry under NHDP Phase-IV from Km 00.000 (Design Ch.0.000) to Km 194.000 (Design Ch.180.620) of NH-45A in the State of Tamil Nadu and Puducherry (in 3 packages).

2) The project proponent has stated that the project road starts at existing KM 0.000 of NH-45A at Villupruam and ends at existing KM 194.000 of NH-45A at Nagapattinam. The total existing length of the project road is 194 km. The packages details are given below.

3) The Package-I is from Villupuram Bypass to Poondiankuppam Village in 67 km, Package-II is from Poondiankuppam Village to end of Sirkazhi bypass in 56.800 km and Package-III is from the end of Sirkazhi bypass to Nagapattinam in 56.764 km.

Package 1 : Villupuram (km 0.000) to Poondiyankuppam (67.000) at Villupuram and Cuddalore district of Tamil Nadu and Puducherry district of Puducherry UT. There is **one** location i.e. Nathapattu Village, Cuddalore district falls in CRZ-IB & CRZ-III

Package 2 : Poondiyankuppam (Km 67.000) to Allivilagam (Km 123.800) at Cuddalore and Nagapattinam district of Tamil Nadu. There are **five** locations in Cuddalore district falls in the CRZ area i.e. Thiruchchopuram, Puvankuppam and Erukankattupadugai Villages are falls in CRZ-IB & CRZ-III, Andarmullippallam Village falls in CRZ-III and Mutlur Village falls in CRZ-IB, CRZ-II and CRZ-IVB areas.

Apart from the above, **three** locations in Nagapattinam district falls in CRZ area i.e. Gopalamuthiram Village falls in CRZ-IB & CRZ-III, Sirkazhi & Sattanathapuram Villages falls in CRZ-II, CRZ-III and CRZ-IVB and Sattanathapuram & Karaimedu Villages falls in CRZ-III and CRZ-IVB.

Package 3 : Allivilagam (km 123.800) to Nagore & Nagapattinam Bypass (km 180.620) at Nagapattinam district of Tamil Nadu. There are **six** locations in Nagapattinam district falls in the CRZ area i.e. Karaimedu Village falls in CRZ-IB, CRZ-III and CRZ-IVB, Kalamanallur & Tirukkadaiyur Villages are falls in CRZ-IB and CRZ-III, Erukkattancheri Village is falls in CRZ-IB and CRZ-III, Poraiyar and Kattuchcheri (Tevanur) Villages are falls in CRZ-IB and CRZ-III, Panangudi Village is falls in CRZ-III and CRZ-IVB and Palaiyur Village is falls in CRZ-IB and CRZ-III.

4) In the said proposal, the NHAI is proposed to construct Vehicular Underpass (VUP), Light Vehicular Underpass (LVUP), Grade & Grade separated junctions, Rail Over Bridges, Major and Minor bridges, Culvert, Toll Plaza etc., The design speed of the road is 80-100 kmph. The total project cost for the road project is Rs.3987 crores. The proposal involves right of way varies from 15m to 40m. Further a "Tree Plantation Strategy" has been furnished by the project proponent. However the details of existing trees to be felled have not been furnished.

5) The DCZMA for Cuddalore district has recommended the proposal to TNSCZMA with the following remarks.

1. Executive Engineer, PWD/WRO, Chidambaram suggested to obtain hydraulic discharge details of the rivers from PWD, WRO before designing the major bridge / minor bridge and re-designing the existing bridges so as to enable free flow of water in the rivers.
2. Division Engineer, Highways, Cuddalore suggested the following points to be taken care of while finalizing the DPR
 - i) Connectivity to customs road in the proposed highway.
 - ii) Connectivity to Pondicherry
 - iii) Vehicular under pass and service road to all State highways and major district road intersections.
 - iv) The previous flood time breach locations in the NH-45A have to be taken care of.
 - v) The inundation in the Chidambaram bypass road at flood time has to be cleared by providing sufficient vent way as recommended by State PWD.

6) The four lane alignment in Villupuram does not falling in CRZ areas.

7) The DCZMA for Nagapattinam district has also recommended the proposal to TNSCZMA with the following conditions.

- a) The Assistant Executive Engineers, PWD/WRO, Myladuthurai and Thiruthuraipoondi suggested for obtaining discharge details of the rivers and drainage canals from PWD, WRO before designing the major bridge / minor bridge and re-designing the existing bridges so as to enable free flow of water in the rivers and drainage canals.
- b) All the existing and proposed pipe culverts shall be converted into box culverts to avoid flooding on the road sides.
- c) Proper permission has to be obtained from Forest Department and Revenue Department to cut the trees on the proposed project alignment areas.

8) As per CRZ Notification 2011 vide para 8 ICRZI (ii) (g) construction of roads on stilts or pillars, without affecting the tidal flow of water is permissible activity. Further vide para 8 III CRZ III (A) (iii) (j) and (B) (viii) of the said notification, the above activities are permissible activities in CRZ-III. However, the said project attracts the provisions of EIA Notification 2006 as "A" Category project, it requires Clearance from the MoEF&CC., GoI vide para 4 (ii) (a) of CRZ Notification 2011.

9) The Authority may consider.

AGENDA ITEM NO.09: Proposed Infrastructure development works at the existing Fish Market at Rameswaram proposed by Rameswaram Municipality

The District Collector/ Chairman, District Coastal Zone Management Authority (DCZMA) for Ramanathapuram district has forwarded a proposal for the proposed infrastructure development works at the existing Fish Market at Rameswaram proposed by Rameswaram Municipality at S.F.No.710 (Part), Ramswaram Village, Ramnad district.

2) The Rameswaram Municipality has indicated that the existing market, functioning since 1987, is in dilapidated condition and the same is proposed to be improved by constructing new shops along with cold storage, toilet facilities, parking area etc., at an estimated cost of Rs. 100 lakhs. Presently there are only 20 shops functioning in covered building and 16 shops are functioning in top covered structure. It is proposed to develop 49 shops, all are fully covered, concreted structures. The land area of the project site is 1695 sq.mts. located in part of S.F. No. 710 of Rameswaram Village and the proposed built-up area shall be 1128 sq.mt., and as such Floor Space Index (FSI) works out to 0.67 against the permissible limit of 1.50. The solid waste that would be generated would be taken to the existing composting facility located at Vadakadu village, as being done. The applicant has proposed Green belt development with neem tree, Poovarasu and Pungai, which are deemed to be inadequate. The Rameswaram Municipality has informed that the fresh water requirement of 10 KLD will be met from their distribution main and nearby well situated in slaughter house.

3) The DCZMA for Rameswaram have informed that as per the approved Coastal Zone Management Plan, the site in which the project is proposed to be executed lies in CRZ-II, and located at landward side of the existing roads, and as such the activity is permissible. The DCZMA has recommended the proposal to TNSCZMA subject to the following conditions.

- a) Planning permission should be obtained from the competent authority of Director of Town and Country Planning Department, before commencing the construction.

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- b) No new Ground Water source shall be developed in CRZ area for the project.
- c) All the provisions of the CRZ Notification 2011 shall be adhered without any deviation.
- d) The solid wastes that would be generated during the operation of the market shall be disposed through composting.
- e) The liquid wastes shall be properly collected and used for composting or for biomethanization.

4) As per CRZ Notification 2011, vide para 8 II CRZ II (i) and (ii), buildings permitted on the landward side of the existing and proposed roads or existing authorised structures shall be subject to the existing local town and country planning regulations as modified from time to time, except the Floor Space Index or Floor Area Ratio, which shall be as per 1991 level and as per para 8 II CRZ-II (iii) of the said Notification 2011, reconstruction of authorized building to be permitted subject with the existing Floor Space Index or Floor Area Ratio Norms and without change in present use.

5) The Authority may consider.

AGENDA ITEM NO:10: Proposed relaying of pipelines and redevelopment of Edible Oil Storage transit terminal having a combined capacity of 33152 KL at TS No. 316/2/3, East Madha Church Street, Royapuram, Chennai proposed by M/s. Ruchi Infrastructure Ltd., Chennai.

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M/s. Ruchi Infrastructure Ltd., Chennai has applied for Clearance under CRZ Notification 2011 for their Proposed relaying of pipelines and redevelopment of Edible Oil Storage transit terminal having a combined capacity of 33152 KL at TS No. 316/2/3, East Madha Church Street, Royapuram, Chennai.

2) The project site is falling in CRZ - II, adjacent to the Chennai Port on the landward side. Under the proposal the applicant has proposed to lay a pipeline of 12" dia and 8" dia pipeline of length of 880 mts and 1547 mts from the Port to project site. The unit develop the transit facility to receive the products through pipeline to their transit terminal at the project site and transfer the said edible oil in Tanker lorries to the refinery /processing/packaging. There is no processing in the project site. The present storage capacity of the Transit Terminal is 33152 KL consisting of 14 tanks of various capacities between 1413 KL to 3679 KL. The project proponent has informed that prior to 1997 the edible oil was transported via tanker lorries and pipelines were established within port land to transfer edible oil from ship to the transit terminal with the permission of Port Authorities.

3) The site is falling in CRZ - II and the Project cost is 614.29 lakhs. The total project area is 5132 sq.mts. Complaints have been received to take action on the existing activities of the applicant, as the unit has not obtained clearances. The District Coastal Zone Management Authority for CMDA areas have recommended the project subject to the following conditions, as the unit has obtained required clearances from the Chennai Port Trust for the activities in Port area and the unit has furnished copies of documents for the existence of their buildings from the year 1994.

1. As indicated by the Chennai Port Trust in letter dated 13.07.2017, relaying of pipeline should be proposed upto WQII without disturbing NO.
2. The applicant should utilize tank at the project site only as transit terminals.
3. The operation of the facility should conform to land use classification zone as per CMDA.

4. The applicant should have adequate storage facility outside CRZ area for the storage of edible oil handled.
5. The unit shall ensure the integrity of pipeline proposed for the transport of edible oil from Chennai Port to the transit terminal to ensure any leak.
6. The construction of storage tanks shall satisfy the prescribed standard norms.
7. The transit tanks should be used for the transit of edible oil only.
8. Appropriate facility should be created for the collection of solid and liquid waste, if any, and their safe disposal should be ensured at the storage location and as well as transit points.
9. Training and mock drills should be given to the employees and also the public to handle emergencies / accidents duty.
10. There should not be any extraction of ground water in CRZ.
11. Under Corporate Social Responsibility, the unit shall explore the possibilities of allocation of more funds for preserving ecology and environment.
12. The applicant shall obtain consent under Water (P&CP) Act, 1974 and Air (P&CP) Act, 1981 from the TNPCB.
13. The unit shall comply with the Environment Management Plan suggested both during construction and operational phases.
14. The unit shall establish the facility only after obtaining CRZ clearance of CTE of the Board.

4) As per CRZ Notification 2011, vide para 8 II CRZ-II (vi) storage of non-hazardous cargo, such as edible oil, fertilizers and food grain shall be established only in notified ports; However vide para 3 (ii) (a) & (b) of CRZ Notification 2011, transfer of hazardous substances from ships to ports, terminals and refineries and vice versa; facilities for receipt and storage of petroleum products and liquefied natural gas, facilities for receipt and storage of fertilizers and raw materials required for manufacture of fertilizers like ammonia, phosphoric acid, sulphur, sulphuric acid, nitric acid and the like, is permissible activity in CRZ area (other than CRZ-I (A) ecologically sensitive areas). The project site is falling in CRZ-II and the applicant has proposed only for the transfer of Edible oil. Further as per para 4 (ii) (d), the above activities require clearance from the Ministry of Environment, Forests and Climate Change, GoI.

5) The Authority may consider.

AGENDA ITEM NO.11: Construction of Ice Plant at S.No.352/3, Neendankarai B Village, Agastheeswaram Taluk, Kanyakumari district proposed by Arokya Madha Ice Plant, Nagercoil

The District Environmental Engineer, Kanyakumari district has forwarded a proposal for the proposed construction of Ice Plant at S.No.352/3, Neendankarai B Village, Agastheeswaram Taluk, Kanyakumari district proposed by Arokya Madha Ice Plant, Nagercoil for Clearance under CRZ Notification 2011.

2) Under the Project, the project proponent has proposed to manufacture 30 Tons of Ice per day (TPD) with each Ice block of 50 Kg weight i.e. 600 Ice Blocks/day by Ice Can System. Out of 2,703.42 sq. mtr, the building area will be 176.50 sq.mtr with built-up area of about 240 sq.mtr. in Ground Floor only. The maximum building height will be 7.6 mtr. above ground level. Total project cost is Rs.75.00 lakhs.

3) The site is falling in CRZ-III partly in 0-200 mts. and partly in 200-500 mts. as per the report of the DCZMA. The DCZMA for Kanyakumari district has recommended the project stating that the construction of Ice Plants in between 0-200 mts. is permissible activities vide para 8 III CRZ III (iii) (I) of CRZ Notification, 2011.

4) 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 facilities. Further as per para 8 III CRZ-III A (iii) (I), construction of Ice Plant in "No Development Zone" of CRZ-III area is permissible activities.

5) The Authority may consider.

AGENDA ITEM NO.12: Proposed sub-division of residential property at S.No.8/4, 9/10, M.G.R. Salai, Palavakkam, Chennai proposed by Thiru R. Veerarahghavan, T. Nagar.

Thiru R. Veerarahghavan, T. Nagar has submitted an application for the sub-division of his property at S.No.8/4, 9/10, M.G.R. Salai, Palavakkam, Chennai for Clearance under CRZ Notification 2011.

2) The site is falling in CRZ-II area. The applicant has proposed to sub-divide his property of 3765.23 sq.m., into 7 plots of sizes viz., 4447.61 sq.m., 446.58 sq.mts., 447.23 sq.mts., 446.85 sq.mts., 446.49 sq.mts, 446.58 sq.mts., and 367.80 sq.mt., The proposal involves a formation of 24 ft wide road with the area of 716.09 sq.mt., for approach. The site is falling on the landward side of the existing roads at Palavakkam.

3) Powers have been delegated to Corporation of Chennai in Roc. No. P1/443/2011 dated 16.02.2012 for the construction of ordinary buildings and other small buildings, falling in CRZ-II areas. Delegation of powers has not been issued to CMDA and Corporation of Chennai with reference to sub-division/ layout proposals and hence the CMDA in letter No. L1/2862/2011 dated 16.11.2011 has requested to place the proposals in respect of sub-divisions and layouts before the TNSCZMA for approval as such proposals involves forming of roads/ passages etc.

4) As per the amendment issued by MoEF., GoI in notification S.O. No. 1599 (E) dated 16th June 2015 as para 8 II CRZ-II (ii) "buildings permitted on the landward side of the existing and proposed roads or existing authorized structures (19.02.1991) shall be subject to the local town and country planning regulations as modified from time to time, except the Floor Space Index or Floor Area Ratio which shall be as per 1991 level".

5) The Authority may consider.

AGENDA ITEM NO.13: Proposed residential layout for housing at S.No. 4058/2, 4059/18, 4061/3, 4061/39 and 4061/33, Block No. 78, Tondiarpet Village, Chennai proposed by M/s. Idream Properties, Royapuram, Chennai.

The Greater Chennai Corporation have forwarded a proposal for the sub-division of their property at S.No. 4058/2, 4059/18, 4061/3, 4061/39 and 4061/33, Block No. 78, Tondiarpet Village, Chennai proposed by M/s. Idream Properties, for Clearance under CRZ Notification 2011.

2) The site is falling in CRZ-II area. The applicant has proposed to sub-divide his property of 9716 sq.m., into 61 plots of sizes between 825 sq.ft to 1492 sq.ft. The Total area of the plots is 6410.28 sq.mts., and the proposal involves a formation of roads of having 3094.494 sq.mts., for approach. The site is falling on the landward side of the existing roads at Tondiarpet village, Chennai.

3) Powers have been delegated to Corporation of Chennai in Roc. No. P1/443/2011 dated 16.02.2012 for the construction of ordinary buildings and other small buildings, falling in CRZ-II areas. Delegation of powers has not been issued to CMDA and Corporation of Chennai with reference to sub-division/ layout proposals and hence the CMDA in letter No. L1/2862/2011 dated 16.11.2011 has requested to place the proposals in respect of sub-divisions and layouts before the TNSCZMA for approval as such proposals involves forming of roads/ passages etc.

4) As per the amendment issued by MoEF., GoI in notification S.O. No. 1599 (E) dated 16th June 2015 as para 8 II CRZ-II (ii) "buildings permitted on the landward side of the existing and proposed roads or existing authorized structures (19.02.1991) shall be subject to the local town and country planning regulations as modified from time to time, except the Floor Space Index or Floor Area Ratio which shall be as per 1991 level".

5) The Authority may consider.

AGENDA ITEM NO.14: Any other subjects with the permission of the Chair.

Sd/-xxxx
Thiru A.V. Venkatachalam, 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.

**MINUTES OF THE 97th MEETING OF THE TAMIL NADU STATE COASTAL ZONE
MANAGEMENT AUTHORITY HELD ON 29.11.2017**

AGENDA ITEM NO.01: Confirmation of the minutes of the 96th meeting of the Tamil Nadu State Coastal Zone Management Authority held on 08.09.2017.

The minutes of the 96th meeting of the Tamil Nadu State Coastal Zone Management Authority (TNSCZMA) held on 08.09.2017 communicated in Letter No.P1/1044/2015 dated 13.09.2017 of the Director of Environment was confirmed.

AGENDA ITEM NO.02: The action taken on the decisions of 96th meeting of the Authority held on 08.09.2017

The Member Secretary briefed the Members about the action taken by the Department of Environment on the decisions taken during the 96th meeting of the Tamil Nadu State Coastal Zone Management authority held on 08.09.2017.

AGENDA ITEM NO.03: Mining of Rare minerals in mining lease area of 141.33 ha & 7.06 ha at Manavalakurichi, Lakshmipuram and Colachel villages of Kalkulam taluk in Kanniyakumari district proposed by M/s. Indian Rare Earths Limited

The Authority resolved to recommend the proposal to the Ministry of Environment, Forests and Climate Change, GoI with the following specific conditions:

- a) The unit shall adhere to the guidelines / stipulations / conditions of mining lease and shall follow the mining plan.
- b) The unit shall not use any explosives for the mining. No blasting or drilling for mining shall be carried out.
- c) In inter-tidal zone, Manual mining operations are to be carried out, only by deploying persons using baskets and hand spades for collection of ore or mineral, as per the approved mining plan.
- d) The unit shall ensure that the mined area is refilled with the tailings. The aesthetic appeal of the beaches should be retained by avoiding artificial sand-dunes of greater heights.

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- e) The beach profile shall be monitored periodically with the maintenance of relevant records / measurements / details so as to take appropriate remedial action on the event of any adverse impacts.
- f) There shall be no extraction of ground water without permission from the Competent Authority.
- g) There should not be any sea water intrusion due to the project activities and periodical water quality monitoring shall be conducted.
- h) No road shall be formed in CRZ
- i) No liquid or solid waste shall be generated and disposed off in CRZ.
- j) The unit shall develop green belt within / outside mining area.
- k) The unit shall not establish new mineral separation plant / processing unit within CRZ areas and also there should not be any expansion of existing mineral separation plant/processing unit.
- l) The unit shall obtain consents, in appropriate stages, from the Tamil Nadu Pollution Control Board.

AGENDA ITEM NO.04: Setting up of 400 MLD SWRO Desalination Plant at Perur along ECR, Chennai - Fresh Recommendation requested as per EAC meeting proposed by CMWSSB.

The Authority resolved to recommend the proposals to the Ministry of Environment, Forests and Climate Change, GoI with the following specific conditions:

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.05: Proposed construction of two training walls to provide permanent stability of bar mouth in Pulicat Lake at Pulicate Village, Ponneri Taluk, Tiruvallur district proposed by Fishing Harbour Project Division, Fisheries Department.

The Authority resolved to Clear the Project subject to the following specific conditions:

- a) Construction of two training walls should be exactly as per the design provided by IIT Madras, with no compromise on materials used and dimensions on the groin.
- b) The performance of the proposed 2 North groins to arrest likely erosion and the training walls should be continuously monitored to ensure their effectiveness in controlling erosion and maintaining desired depths at mouth of the lake.
- c) It should be ensured that no over topping of sand occur on southern groins which may totally bury the groin.
- d) The Fisheries Department should furnish a factual report on the status of groins once in three months and a team from the Department of Environment should monitor the impacts regularly along with the livelihood of fishermen the overall eco-system due to the above activity. The Fisheries Department should provide sufficient allocation of funds for monitoring and maintenance of the groins at-least for 5 years, initially.
- e) The activity should not have any adverse impact on the marine organisms and hence 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. The Fisheries Department should also Co-opt with an Institution like MSSRF., CAS Marine Biology in Annamalai University, Parangipettai,
- f) The proposed activity shall not cause hindrance to the nearby human settlements/ authorized structures and fishing activities.
- g) Prior Clearance under EIA Notification 2006 should be obtained from the SEIAA.

- h) Prior Clearance from the Forest Department should be obtained if the location of the project, is falling under protected area, under the control of Forests Department.
- i) 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 as per the final orders of the Tribunal in the above said application.

AGENDA ITEM NO.06: Proposed development of Fishing Harbour at Vellapallam Village, Vedaranyam Taluk, Nagapattinam district proposed by Asst.Director of Fisheries, Nagapattinam (South).

The Authority resolved to request the Fisheries Department to furnish the following documents/ details to take further action.

- a) The Proposed 2 break-waters for fishing harbor at Vellapallam are likely to affect coastal process especially the dynamics of silt movement between kodikkarai and the Vellapallam, as silt on shore bed is washed during southwest monsoon are transported southwards during the following southerly drift period. The silt transported southwards may supply silt to the creek systems southward and enrich the mangroves. Further the coast is accreting in nature. The proposed backwater may prevent or alter the silt balance of the coast affecting the mud flats and mangroves which are the ecologically sensitive. It is necessary to estimate the likely silt loss to Vedaranyam and Muthupet creeks using field measurements and simulation studies for the subcell 13 A (between Kodikkarai and Karaikal harbor south) sub-cell 12 C (Kodikkarai to north of Agniar river) and the revised proposal to be submitted considering the impact of break waters on silt budget of the above two sub-cell areas with remedial measures.

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- b) Robust overall ecological assessment should be done. The assessment should be on habitat approach such as the bird population, sacred groves etc., covering at-least 10 kms radius from the project site.

AGENDA ITEM NO.07: Proposed construction of Fish Landing Centre at Kundthukal, Ramanathapuram district proposed by Asst. Director of Fisheries, Rameswaram.

The Authority resolved to request the Fisheries Department to furnish the following documents/ details to take further action.

- a) As the project area is falling in Gulf of Mannar Bio-sphere, Robust ecological assessment should be done. The assessment should be on habitat approach such as the bird population, sacred groves etc., covering at-least 10 kms radius from the project site.
- b) Fish waste should not be thrown in sea and a detailed proper management of fish waste should be furnished.
- c) A detailed report on the powers and functions of Management Committees and Co-Management Committees, indicated during the meeting, for the aesthetic maintenance of the Fish Landing Center shall be furnished.

AGENDA ITEM NO.08: Proposed Four laning of Villupurm - Puducherry - Cuddalore - Nagapattinam Section of NH-45A in the State of Tamil Nadu under NHDP Phase-IV proposed by National Highway Authority of India

The Authority resolved to request the following documents from the Project Proponent for taking further action.

- a) The HTL demarcation map, as per the approved Coastal Zone Management Plan, from an authorized agency, approved by GoI may be furnished.
- b) If additional locations/ stretch of alignment is falling in CRZ, as per the revised mapping, the details of the Environmental Impact Assessment along with the mitigation / Management Plan to counter the adverse impact may be furnished.

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- c) As the road alignment is falling in CRZ-IB (inter-tidal zone) and CRZ-IV (B) (water area), the tidal flow mathematical models or any stimulation models to be furnished to ensure free tidal flow of water, due to the proposed constructions.
- d) An action plan consisting the details viz., actual number of trees to be routed, the proposed number of trees to be planted, the details of species of trees to be planted, the condition of survival of tree species and survival expected to be furnished.
- e) A detailed report on the carbon emission and carbon sequestration in commensurate with the proposed vehicular traffic and the tree plantation shall be furnished.

AGENDA ITEM NO.09: Proposed Infrastructure development works at the existing Fish Market at Rameswaram proposed by Rameswaram Municipality

The Authority resolved to Clear the proposal subject to the following specific conditions:

- a) Prior Planning permission should be obtained for the proposed constructions from the local authorities concerned, keeping in view para 8 (i) III CRZ III A (iii) (l) & B (ix) of CRZ Notification 2011 also.
- b) There should not be any ground water extraction in CRZ.
- c) A detailed plan for the source segregation and disposal of solid waste (Bio-degradable / non- degradable etc.,) generated shall be formulated. Further proper arrangements should be made for the disposal of solid wastes in the project area.
- d) The liquid wastes shall be properly collected and used for composting or for bio-methanization.
- e) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.

AGENDA ITEM NO:10: Proposed relaying of pipelines and redevelopment of Edible Oil Storage transit terminal having a combined capacity of 33152 KL at TS No. 316/2/3, East Madha Church Street, Royapuram, Chennai proposed by M/s. Ruchi Infrastructure Ltd., 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) As indicated by the Chennai Port Trust in letter dated 13.07.2017, relaying of pipeline should be proposed upto WQII without disturbing NO.
- b) The applicant should utilize tanks at the project site only as transit terminals.
- c) The operation of the facility should conform to land use classification zone as per CMDA.
- d) The applicant should have adequate storage facility outside CRZ area for the storage of edible oil handled.
- e) The unit shall ensure the integrity of pipeline proposed for the transport of edible oil from Chennai Port to the transit terminal to ensure any leak.
- f) The transit tanks should be properly maintained as per the prescribed standard norms.
- g) Appropriate facility should be created for the collection of solid and liquid waste, if any, and their safe disposal should be ensured at the storage location and as well as transit points.
- h) Training and mock drills should be given to the employees and also the public to handle emergencies / accidents duty.
- i) There should not be any extraction of ground water in CRZ.
- j) Under Corporate Social Responsibility, the unit shall explore the possibilities of allocation of more funds for preserving ecology and environment.

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- k) The applicant shall obtain consent under Water (P&CP) Act, 1974 and Air (P&CP) Act, 1981 from the TNPCB.
- l) The unit shall comply with the Environment Management Plan suggested both during construction and operational phases.

AGENDA ITEM NO.11: Construction of Ice Plant at S.No.352/3, Neendankarai B Village, Agastheeswaram Taluk, Kanyakumari district proposed by Arokya Madha Ice Plant, Nagercoil

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

- a) There should not be any ground water extraction in CRZ
- b) The Safety measures system indicated in the Project profile which facilitates safety plant operation shall be erected without fail and shall also to be maintained properly.
- c) The unit shall ensure the adequate safety precautions are provided for handling ammonia in the proposed ice plant.
- d) Proper arrangements should be made for the disposal of solid wastes generated in the project area.
- e) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.
- f) Consent for Establishment from Tamil Nadu Pollution Control Board should be obtained.

AGENDA ITEM NO.12: Proposed sub-division of residential property at S.No.8/4, 9/10, M.G.R. Salai, Palavakkam, Chennai proposed by Thiru R. Veerarahghavan, T. Nagar.

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

- a) Sub-Division approval should be obtained duly from the CMDA / Corporation of Chennai

- b) Prior Planning permission should be obtained for the proposed constructions, if any, from the local authorities concerned and the proposed constructions should satisfy the local Town and Country Planning regulations and para 8 (i) II CRZ II (i) & (ii) of CRZ Notification 2011. The FSI/FAR should be as on 19.02.1991.
- c) There should not be any ground water extraction in CRZ.
- d) Proper arrangements should be made for the disposal of solid wastes generated in the project area.
- e) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.

AGENDA ITEM NO.13: Proposed residential layout for housing at S.No. 4058/2, 4059/18, 4061/3, 4061/39 and 4061/33, Block No. 78, Tondiarpet Village, Chennai proposed by M/s. Idream Properties, Royapuram, Chennai.

The Authority resolved to Clear the proposal subject to the following specific conditions:

- a) Layout approval should be obtained duly from the CMDA / Corporation of Chennai
- b) Prior Planning permission should be obtained for the proposed constructions, if any, from the local authorities concerned and the proposed constructions should satisfy the local Town and Country Planning regulations and para 8 (i) II CRZ II (i) & (ii) of CRZ Notification 2011. The FSI/FAR should be as on 19.02.1991.
- c) There should not be any ground water extraction in CRZ.
- d) Proper arrangements should be made for the disposal of solid wastes generated in the project area.
- e) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.

AGENDA ITEM NO.14: Any other subjects with the permission of the Chair.

The Chairman, TNSCZMA pointed out that the Environment Assessment with reference to the flora and fauna is found to be inadequate in most of the cases. Hence the Chairman suggested that a checklist may be prepared, indicating the existing status as well as long-term and short-term impacts, with reference to the flora and fauna, and the overall biodiversity in the impact zone, by the project proponent as indicated in the EIA Notification 2006 vide para 3 and 4 of Appendix II.

- a) The area studied for ecological assessments including wetlands, river courses and water bodies needs to be of the extent of 10km radius of the project site, with Standardized analytic methods.
- b) Nearby protected areas, globally significant areas and notified forests need to be listed and their importance need to be elaborated. Similarly historical data and published reports/ papers need to be cited for the above.
- c) The broad habitat types and elements (terrestrial, open, protected forests, agriculture areas and sacred groves) need to be listed, including manner of organization. The planned modification of the habitats as per notifications especially for tress and vegetations and the anticipated impact needs to be detailed. Measures to handle non-target organisms need to be discussed.
- d) Faunal studies should cover all major faunal groups, highlighting local, migrant, rare, threatened, endangered, endemic and Scheduled Species. Both direct and indirect methods of assessment should be used and not limited to sighting.
- e) In the event of a fishing harbor/ landing centre, the marine fish that would be normally handled needs to be listed and described.

Sd/-xxx
Thiru A.V. Venkatachalam., I.F.S.
Member Secretary, TNSCZMA &
Director, Dept. of Environment,
Chennai - 15.

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