

83rd MEETING

TAMIL NADU STATE COASTAL ZONE MANAGEMENT AUTHORITY

Date: 19.05.2015

Time: 02.30 P.M.

Venue:

**Chamber of the Principal Secretary to
Government,
Environment and Forests Department.,
7th floor, Secretariat,
Chennai - 600 009**

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**THE TAMIL NADU STATE COASTAL ZONE MANAGEMENT AUTHORITY -
83rd MEETING**

Date & Time:

19.05.2015 - 03.00 P.M.

**Venue: Chamber of the Principal Secretary to
Government,
Environment and Forests Department
7th floor, Secretariat,
Chennai- 600 009.**

**AGENDA ITEM NO.01: Confirmation of the minutes of the 82nd meeting of the
Tamil Nadu State Coastal Zone Management Authority
held on 17.12.2014.**

The 82nd meeting of the Tamil Nadu State Coastal Zone Management Authority was held on 17.12.2014 and the minutes were communicated in letter no. P1/141/2013 dated 23.12.2014 (Copy enclosed) of Director of Environment. It may be confirmed.

MINUTES OF THE 82nd MEETING OF THE TAMIL NADU STATE COASTAL ZONE MANAGEMENT AUTHORITY HELD ON 17.12.2014

AGENDA ITEM NO.01: Confirmation of the Minutes of the 81st meeting of the Tamil Nadu State Coastal Zone Management Authority held on 27.11.2014.

The minutes of the 80th meeting of the Tamil Nadu State Coastal Zone Management Authority held on 27.11.2014 communicated in Letter No.P1/141/2013 dated 04.12.2014 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 81st meeting of the TNSCZMA.

The Member Secretary, TNSCZMA briefed the members about the action taken by the Department of Environment on the decisions taken during the 81st meeting of the Tamil Nadu State Coastal Zone Management authority held on 27.11.2014.

AGENDA ITEM NO.03: Proposed improvements to the Marina Loop Road by relaying with cement concrete road from the junction of Light House in Kamaraj Salai to the junction of Pattinapakkam proposed by Corporation of Chennai.

As the Corporation of Chennai has sought for clearance under CRZ Notification 2011, only for the relaying the road with cement concrete without beautification such as gallery, planter box, seaside footpath, ornamental items and with the existing lighting arrangements, the Authority resolved to clear the proposal subject to the following specific conditions:

- a) The Corporation should not carryout any activity other than the relaying of road with cement concrete with footpath, cycle track and storm water drain.
- b) The Corporation of Chennai should be involved in the conservation programme of Olive Ridley Turtles through renowned institution / NGO who is actively involved in Sea Turtle Conservation and also with Forest Department.
- c) As the Turtles are very sensitive to Lights the provision of lightings along the road should be kept at the minimum level in such a way the lighting should not

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affect the movement of Turtles. Further the Corporation should ensure to switch off the street lights during nesting period between 11.00 pm to 5.00 am in the month of December to February every year as suggested by the Forests Department.

- a) The Corporation of Chennai shall re-lay the existing marina loop road with white topping road (cement concrete) with cycle track without any widening.
- b) The Corporation of Chennai should ensure, that the Chennai Corporation or any other agency, should not carry out any other allied activity in and around the project area without the prior clearance of the TNSCZMA.
- c) The foot-path and storm water drain shall be provided only on the landward side of the existing road.

AGENDA ITEM NO.04: Construction of groyne at Periathalai Village, Tiruchendur Taluk, Thoothukudi district proposed by PWD/WRO., Korampallam Aru Basin Division, Thoothukudi.

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

- a) Shoreline evolution should be studied. If no time series erosion data is available, a suitable institute can be engaged to prepare a shoreline change map using historical details on berm line or historical images available in Google Earth to indicate erosion and if required, remedial measures need to be planned to prevent further erosion.
- b) The activity should not have any adverse impact on the marine organisms.
- c) No road shall be formed in CRZ.
- d) Only those structures mentioned in the proposal and which are absolutely essential should be constructed.
- e) The proposed activity shall not cause hindrance to the nearby human settlements/ authorised structures and fishing activities. The design of southern groin indicates that it is for multi-purpose, i.e., to protect beach as well as to create moderate tranquility of sea to provide safety to small fishing boats that are beached. This need to be spelt out clearly in the report.

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- f) Suitable management procedures for long-term maintenance of groins should be evolved.
- 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/SDMRI, Tutcorin/ IIT Chennai. Periodical report shall be furnished by the PWD to Department of Environment on the site conditions once in 6 months so as to take mitigation suggestive measures on the event of any adverse impacts on the coast.
- h) The graphical representation on the base line data in the report is not depicted the correct facts and the same need to be revised. Further the baseline data has to be arrived atleast from six sample stations as per convention.
- i) The PWD should arrange for a presentation by Institute of Hydraulics and Hydrology (IHH), Poondi on the features of projects executed by them in the past with the achievement and present stage of the said projects.

AGENDA ITEM NO.05: Proposed sub-division of land falling in S.No. 92/243A1A, 92/272 of Neelankarai village, Kancheepuram district proposed by Thiru A R. Madanagopal, Chennai.

As the proposed sub-divisions of land is planned with the formation of a new passage., the Authority resolved to defer the proposal. The matter will be taken up after ascertaining the permissibility of the proposed development under CRZ Notification 2011.

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

Sd/-xxxxx
Thiru Hans Raj Verma., I.A.S.,
Chairman, TNSCZMA and
Principal Secretary to Government.,
Environment & Forests Dept., Chennai - 9.

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AGENDA ITEM NO.02: The action taken on the decisions of 82nd meeting of the Authority held on 17.12.2014 are given below:

SI. No	Description of proposals	Action taken
01	Proposed improvements to the Marina Loop Road by relaying with cement concrete road from the junction of Light House in Kamaraj Salai to the junction of Pattinapakkam proposed by Corporation of Chennai.	As resolved Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/1337 /2014 dated 24.12.2014
02	Construction of groyne at Periathalai Village, Tiruchendur Taluk, Thoothukudi district proposed by PWD/WRO., Korampallam Aru Basin Division, Thoothukudi.	As resolved, the proposal has been sent to Environment and Forests Department, GoTN in Ir. RoC. No. P1/2033/2014 dated 26.12.2014 for taking further action.

AGENDA ITEM NO.03

Construction of foreshore facilities viz., coal conveyor and cooling water intake and outfall pipelines, structures of the proposed North Chennai Thermal Power Project stage III (1 x 800 MW) at Ennore village, Ponneri Taluk, Thiruvallur district proposed by TANGEDCO., Chennai.

The Tamil Nadu Generation and Distribution Corporation Ltd., (TANGEDCO) has proposed to establish foreshore facilities viz., coal conveyor and cooling water intake and outfall pipelines, structures of the proposed North Chennai Thermal Power Project stage III (1 x 800 MW) at Ennore & puzhuthivakkam villages, Ponneri Taluk, Thiruvallur district, within the North Chennai Thermal Power Station (NCTPS).

2) The TANGEDCO has informed that the above proposed project would be taken within the existing NCTPS complex as a expansion unit. The proposed Power Plant is outside CRZ and the above said foreshore facilities are falling in CRZ-III. The TANGEDCO is proposed to use seawater for the entire water requirement and the sea water would be drawn from Ennore Port through the existing fore bay of NCTPS state-II intake channel and the coolant water would be discharged through outlet pipe to pre cooling channel (existing) of NCTPS complex after circulating through Natural draft cooling tower system and the outfall water finally joins the creek. There are about 6900 m³/ hr for cooling water requirement and 780 m³/hr for raw water requirement. From the proposed desalination plant 375m³/hr of raw water would be produced from 780 m³/hr of sea water. TANGEDCO has also informed that the 100% imported coal, as fuel, would be provided through closed conveyor system to avoid air pollution with enough fire fighting systems. It is indicated that suitable system to reduce water temperature at the final discharge point so that the resultant rise in temperature of receiving water does not exceed over and above the ambient temperature of the receiving water bodies.

3) The Total Project cost in CRZ is 350 crores. The District Coastal Zone Management Authority (DZMA), Tiruvallur has recommended the proposal for consideration. 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 ; and as per CRZ Notification 2011 vide para 8 I CRZ I (i) (b), 8I CRZ I (ii) (e), 8 III A (iii) (h) and 8 III B (v)., the above said activities are permissible activities in CRZ IA., CRZ-IB, and CRZ III (in No Development Zone and in restricted development zone) respectively. However, the proposal requires clearance from the Ministry of Environment and Forests, GoI vide para 4 (ii) (d) & (f) of CRZ Notification 2011.

5) The Authority may consider.

AGENDA ITEM NO.04 Proposed re-construction of 712 tenements at S.No.2613/2, 2612/3, 2613/8, 2613/6 of Triplicane Village and Taluk, Chennai District under Ayodhyakuppam scheme proposed by the Tamil Nadu Slum Clearance Board, Chennai.

The Tamil Nadu Slum Clearance Board (TNSCB), Chennai has proposed to re-construct 712 tenements at S.No.2613/2, 2612/3, 2613/8, 2613/6 of Triplicane Village and Taluk, Chennai District under Ayodhyakuppam scheme for clearance under CRZ Notification 2011.

2) Under the proposal the TNSCB has proposed to construct 712 tenements in 4 floors in 31 blocks with facilities of ration shop, Integrated child development service etc. The total extent of plot area is 18,240 sq.m and the total built up area is 26,414.08 sq.m. The site is falling in CRZ-II and the total project cost is 47.88 cr. As per the Environmental Clearance issued by the State Environmental Impact Assessment Authority (SEIAA) the fresh water requirement for the project is worked out as 520 KLD, which will be sourced from water supply scheme of CMWSSB and the sewage generation after primary treatment will be 460 KLD which will be disposed in the existing underground sewerage system of CMWSSB. As per the Environmental Clearance of SEIAA, solid waste generation has been projected as 1880 kgs/day, out of which 742.88 kgs/day of biodegradable waste and 334.29 kgs/day of inert waste and the same will be disposed thro' solid waste collection system of Chennai Corporation. Non bio-degradable waste of quantity 780.03 kgs/day will be handed over to authorized recyclers, bio-sludge of quantity 1.5 kgs/day will be disposed thro' solid waste collection system of Chennai Corporation.

3) District Coastal Zone Management Authority for CMDA areas have recommended the proposal. As per CRZ Notification 2011, vide para 8 II CRZ II (iii) reconstructions shall be permitted subject to the existing local town and country planning regulations including the 'existing' norms of Floor Space Index or Floor Area Ratio as on 19.02.1991 and the Tamil Nadu State Coastal Zone Management Authority shall regulate the said activity.

4) The Authority may consider.

AGENDA ITEM NO.05 Proposed re-construction of 536 at S.No. 7577 and 4600 of Mylapore Village, Mylapore Taluk, Chennai District under Nochikuppam scheme proposed by the Tamil Nadu Slum Clearance Board, Chennai.

The Tamil Nadu Slum Clearance Board (TNSCB), Chennai has proposed to re-construct 536 tenements at S.No. 7577 and 4600 of Mylapore Village, Mylapore Taluk, Chennai District under Nochikuppam scheme for clearance under CRZ Notification 2011.

2) Under the proposal the TNSCB has proposed to construct 536 tenements in stilt and 4 floors in 24 blocks with facilities of ration shop, library, primary health centre, integrated child development service and convenient shops etc. The total extent of plot area is 20,730 sq.m and the total built up area is 21,634.90 sq.m. The site is falling in CRZ-II and the total project cost is 48.06 cr. As per the Environmental Clearance issued by the State Environmental Impact Assessment Authority (SEIAA) the fresh water requirement for the project is worked out as 385 KLD, which will be sourced from water supply scheme of CMWSSB and the sewage generation after primary treatment will be 333 KLD which will be disposed in the existing underground sewerage system of CMWSSB. As per the Environmental Clearance of SEIAA, solid waste generation has been projected as 1430 kgs/day, out of which 644 kgs/day of biodegradable waste and 214 kgs/day of inert waste and the same will be disposed thro' solid waste collection system of Chennai Corporation. Non bio-degradable waste of quantity 572 kgs/day will be handed over to authorized recyclers, bio-sludge of quantity 10kgs/day will be disposed thro' solid waste collection system of Chennai Corporation.

3) District Coastal Zone Management Authority for CMDA areas have recommended the proposal. As per CRZ Notification 2011, vide para 8 II CRZ II (iii) reconstructions shall be permitted subject to the existing local town and country planning regulations including the 'existing' norms of Floor Space Index or Floor Area Ratio as on 19.02.1991 and the Tamil Nadu State Coastal Zone Management Authority shall regulate the said activity.

4) The Authority may consider.

AGENDA ITEM NO.06 Proposed Construction of 416 tenements in T.S. No. 3, Block No. 32, R.S. No. 619/1 of Ernavoor village, Tiruvottiyur tauk, Thiruvallur district proposed by the Tamil Nadu Slum Clearance Board, Chennai.

The Tamil Nadu Slum Clearance Board (TNSCB) has proposed to construct 416 tenements in T.S. No. 3, Block No. 32, R.S. No. 619/1 of Ernavoor village, Tiruvottiyur tauk, Thiruvallur district proposed by the Tamil Nadu Slum Clearance Board, Chennai for clearance under CRZ Notification 2011.

2) Under the proposal the TNSCB has proposed to construct 416 tenements in 13 blocks, each with G+3 floors with facilities of ration shop and convenient shops. The TNSCB has already constructed 5,440 tenements comprising of 141 blocks, for which Clearance under CRZ Notification 1991, has been obtained from the Ministry of Environment, Forests and Climate Change in letter dated 09th November 2006. In total, including the proposed constructions, there will be 5856 residential units comprising of 154 blocks and other units like ration shop, nursery school, library, community hall and convenient shop in an total extent area of 1,51,085.08 sq.m. The total plot area is 1,36,900 sq.m., to rehabilitate the slum families living at various location of Chennai city. The part of the proposed constructions is falling in CRZ-II and a part of the project site is falling away from CRZ. The proposed constructions are falling in non-CRZ area and the project cost is Rs. 27crores. The CMWSSB will supply fresh water and the treated sewage will be disposed off from the AIR land scheme and for development of green belt.

3) District Coastal Zone Management Authority for CMDA areas have recommended the proposal. As per CRZ Notification 2011, vide para 8 II CRZ II (i) & (ii) buildings shall be permitted on the landward side of the existing road subject to the existing local town and country planning regulations including the 'existing' norms of Floor Space Index or Floor Area Ratio as on 19.02.1991 and the Tamil Nadu State Coastal Zone Management Authority shall regulate the said activity.

4) The Authority may consider.

AGENDA ITEM NO:07 Proposed Construction of 36 MLD STP at Sholinganallur village, Tambaram Taluk, Kancheepuram district and to discharge treated sewage from STP into the Buckingham Canal.

The Chennai Metro Water Supply and Sewage Board (CMWSSB) has proposed to construct 36MLD STP at T.S. No. 238/1 of Sholinganallur village, Tambaram Taluk, Kacheepuram district.

2) The CMWSSB has informed that the STP capacity shall be 36 MLD with SBR basins but initially sized for 18 MLD. Civil works will be erected for 36 MLD and pumps for 18 MLD. Space to be provided to accommodate additional pumps for 18 MLD flow. The applicant has informed that the peak flow will be 80.5 MLD. After sewage is treated to conform to standards, the treated sewage will be conveyed through pipe to Buckingham canal.

3) The part of the proposed site is falling in CRZ-II. The location of STP is falling outside CRZ and hence the clearance under CRZ Notification requires for the construction of pipelines for the discharge of treated sewage and also for the discharge of treated sewage into the Buckingham canal. The water area of Buckingham canal is categorized as CRZ- IV. The Project cost is Rs. 25.25 lakhs.

4) The District Coastal Zone Management Authority for CMDA areas have recommended the proposal subject to the condition that the CMWSSB shall explore the possibilities of using the treated sewage for further beneficial use by the nearby industries or to utilize the treated sewage for development of park in and around the site in consultation with the Corporation of Chennai.

5) As per CRZ Notification 2011, vide para 3 (vi) Discharge of untreated waste and effluents from industries, cities or towns and other human settlements is prohibited activity and the concerned authorities shall implement schemes for phasing out existing discharge of this nature, if any. Further the above activity requires clearance from the Ministry of Environment, Forests and Climate Change, GOI vide para 4 (ii) (d) of CRZ Notification 2011.

6) The Authority may consider.

AGENDA ITEM NO:08 Proposed Construction of 31 MLD STP at Sathangadu village, Thiruvottiyur and to discharge treated sewage from STP into the Buckingham Canal.

The Chennai Metro Water Supply and Sewage Board (CMWSSB) has proposed to construct 31MLD STP at T.S. No. 3/2, Block No. 14 of Sathangadu village, Thiruvottiyur. Tiruvallur district.

2) The CMWSSB has informed that the raw sewage will delivered through 600 mm / 800 mm dia pipe into the receiving chamber size of 1.94m x 5.0m x 5m LD and from where it will be taken into down stream screens. After sewage is treated to conform to standards, the treated sewage will be conveyed through pipe to Buckingham canal running at a distance of about 181 mt.

3) The part of the proposed site is falling in CRZ-II. The location of STP is falling outside CRZ and hence the clearance under CRZ Notification requires for the construction of pipelines for the discharge of treated sewage and also for the discharge of treated sewage into the Buckingham canal. The water area of Buckingham canal is categorized as CRZ- IV. The Project cost is Rs. 26.33 lakhs.

4) The District Coastal Zone Management Authority for CMDA areas have recommended the proposal subject to the condition that the CMWSSB shall explore the possibilities of using the treated sewage for further beneficial use by the nearby industries or to utilize the treated sewage for development of park in and around the site in consultation with the Corporation of Chennai.

5) As per CRZ Notification 2011, vide para 3 (vi) Discharge of untreated waste and effluents from industries, cities or towns and other human settlements is prohibited activity and the concerned authorities shall implement schemes for phasing out existing discharge of this nature, if any. Further the above activity requires clearance from the Ministry of Environment, Forests and Climate Change, GOI vide para 4 (ii) (d) of CRZ Notification 2011.

6) The Authority may consider.

AGENDA ITEM NO.09 Construction of groyne at Veerapandiayn Pattinam Village, Tiruchendur Taluk, Thoothukudi district proposed by PWD/WRO., Korampallam Aru Basin Division, Thoothukudi

The DCZMA for Thoothukudi district have forwarded a proposal for the Construction of of groyne at Veerapandiayn Pattinam Village, Tiruchendur Taluk, Thoothukudi district proposed by PWD/WRO., Korampallam Aru Basin Division, Thoothukudi, for clearance under CRZ Notification 2011.

2) The DCZMA have informed that under the above proposal, it is proposed to construct the following four groynes at a cost of Rs.10.64 crores.

- a) G1 - 370m on the Southern side
- b) G2 - 170m on the Northern side.
- c) G3 - Additional Groyne of 75m at a distance of 320m from G2
- d) G4 - Additional groyne of 50m length at a distance of 200m from G2.

3) The net drift is northerly which is expected to erode the beach on the north of G2 and hence as a precautionary measure, it is proposed to construct 2 numbers of Groynes G3 and G4.

4) The PWD has furnished the design report of IIT, Chennai, EIA, Risk Assessment, Disaster Management and EMP reports on Marine and terrestrial components on the proposal and are enclosed.

5) In this connection the MOEF,GoI have issued instructions in Ir No.3-16/2014 IA-III dated 2.12.2014 that the hard structures perpendicular to the coast saves the shoreline on one side and causes erosion on the other side and hence such measures should be considered only if soft measures is not possible. Further the said foreshore facilities should not be considered in the high eroding areas.

6) Hence the PWD was requested to obtain the details that the locations of the proposed groynes are not falling in the High Eroding site from the National Center for Sustainable Coastal Management (NCSCM), Anna University, Chennai 600 025, who have already mapping sediment cells along the coast of Tamil Nadu.

Further the PWD was also requested to obtain details from the Ocean Engineering Department, IIT Madras, whether the possibilities of soft measures have been explored before finalizing the erection of hard structures viz., construction of groynes along the coast.

7) Accordingly the PWD has indicated that the location of the proposed site is not high eroding site as per the Shoreline Change Atlas of the Indian Coast prepared by the ISRO, Ahmedabad & the Coastal Erosion Directorate, Central Water Commission, Ministry of water resources GoI, New Delhi and also furnished details obtained from the IIT for recommending the hard structures instead of soft measures for the above project site (copies enclosed).

8) 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. 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 the amendment issued by MOEF., GoI in Notification S.O. No. 3085 (E) dated 28th November 2014, the above proposal requires clearance from the Tamil Nadu State Coastal Zone Management Authority.

9) The Authority may consider.

AGENDA ITEM NO.10 Construction of groyne at Keelavaippar Village, Vilathikulam Taluk, Thoothukudi district proposed by PWD/WRO., Special Project Division, Virudhunagar Division, Thoothukudi

The DCZMA for Thoothukudi district have forwarded a proposal for the Construction of groyne at Keelavaippar Village, Vilathikulam Taluk, Thoothukudi district proposed by PWD/WRO., Special Project Division, Virudhunagar Division, Thoothukudi, for clearance under CRZ Notification 2011.

2) The DCZMA have informed that under the above proposal, it is proposed to construct the following three groynes at a cost of Rs.11.75 crores.

- a) G1 - 800m at a water depth of 2.5m on the Southern side
- b) G2 - 500m at a distance of 500m from G1
- c) G3 - Additional Groyne of 100m length referred to as training wall.

3) It is expected that the shoreline north of G2 might get eroded due to the predicted net easterly littoral sediment drift and hence an additional Groyne of length 100m (G3) is recommended from the eastern bank of R2.

4) The PWD has furnished the design report of IIT, Chennai, EIA, Risk Assessment, Disaster Management and EMP reports on Marine and terrestrial components on the proposal and are enclosed.

5) In this connection the MOEF,GoI have issued instructions in Ir No.3-16/2014 IA-III dated 2.12.2014 that the hard structures perpendicular to the coast saves the shoreline on one side and causes erosion on the other side and hence such measures should be considered only if soft measures is not possible. Further the said foreshore facilities should not be considered in the high eroding areas.

6) Hence the PWD was requested to obtain the details that the locations of the proposed groynes are not falling in the High Eroding site from the National Center for Sustainable Coastal Management (NCSCM), Anna University, Chennai 600 025, who have already mapping sediment cells along the coast of Tamil Nadu.

Further the PWD was also requested to obtain details from the Ocean Engineering Department, IIT Madras, whether the possibilities of soft measures have been explored before finalizing the erection of hard structures viz., construction of groynes along the coast.

7) Accordingly the PWD has indicated that the location of the proposed site is not high eroding site as per the Shoreline Change Atlas of the Indian Coast prepared by the ISRO, Ahmedabad & the Coastal Erosion Directorate, Central Water Commission, Ministry of water resources GoI, New Delhi and also furnished details obtained from the IIT for recommending the hard structures instead of soft measures for the above project site (copies enclosed).

8) 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. 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 the amendment issued by MOEF., GoI in Notification S.O. No. 3085 (E) dated 28th November 2014, the above proposal requires clearance from the Tamil Nadu State Coastal Zone Management Authority.

9) The Authority may consider.

AGENDA ITEM NO.11 Construction of groyne at Vembar Village, Vilathikulam Taluk, Thoothukudi district proposed by PWD/WRO., Special Project Division, Virudhunagar Division, Thoothukudi

The DCZMA for Thoothukudi district have forwarded a proposal for the Construction of groyne at Vembar Village, Vilathikulam taluk, Thoothukudi district proposed by PWD/WRO., Special Project Division, Virudhunagar Division, Thoothukudi, for clearance under CRZ Notification 2011.

2) The DCZMA have informed that under the above proposal, it is proposed to construct the following three groynes at a cost of Rs.14.20 crores.

- a) G1 - 500m at a water depth of 3.0m on the Southern side
- b) G2 - 200m at a distance of 400m from G1
- c) G3 - Additional Groyne of 170m length referred to as training wall.

3) To train the existing river mouth and prevent/minimize the sand bar formaton an additional Groyne of length 170m (G3) is recommended and is referred as training wall.

4) The PWD has furnished the design report of IIT, Chennai, EIA, Risk Assessment, Disaster Management and EMP reports on Marine and terrestrial components on the proposal and are enclosed.

5) In this connection the MOEF, GoI have issued instructions in Ir No.3-16/2014 IA-III dated 2.12.2014 that the hard structures perpendicular to the coast saves the shoreline on one side and causes erosion on the other side and hence such measures should be considered only if soft measures is not possible. Further the said foreshore facilities should not be considered in the high eroding areas.

6) Hence the PWD was requested to obtain the details that the locations of the proposed groynes are not falling in the High Eroding site from the National Center for Sustainable Coastal Management (NCSCM), Anna University, Chennai

600 025, who have already mapping sediment cells along the coast of Tamil Nadu. Further the PWD was also requested to obtain details from the Ocean Engineering Department, IIT Madras, whether the possibilities of soft measures have been explored before finalizing the erection of hard structures viz., construction of groynes along the coast.

7) Accordingly the PWD has indicated that the location of the proposed site is not high eroding site as per the Shoreline Change Atlas of the Indian Coast prepared by the ISRO, Ahmedabad & the Coastal Erosion Directorate, Central Water Commission, Ministry of water resources GoI, New Delhi and also furnished details obtained from the IIT for recommending the hard structures instead of soft measures for the above project site (copies enclosed).

8) 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. 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 the amendment issued by MOEF., GoI in Notification S.O. No. 3085 (E) dated 28th November 2014, the above proposal requires clearance from the Tamil Nadu State Coastal Zone Management Authority.

9) The Authority may consider.

AGENDA ITEM NO.12 Construction of groyne at Kallamozhi Village, Tiruchendur Taluk, Thoothukudi district proposed by PWD/WRO., Korampallam Aru Basin Division, Thoothukudi

The DCZMA for Thoothukudi district have forwarded a proposal for the Construction of of groyne at Kallamozhi Village, Tiruchendur Taluk, Thoothukudi district proposed by PWD/WRO., Korampallam Aru Basin Division, Thoothukudi, for clearance under CRZ Notification 2011.

2) The DCZMA have informed that under the above proposal, it is proposed to construct the following four groynes at a cost of Rs.07.70 crores.

- a) G1 - 200m on the Southern side
- b) G2 - 160m on the Northern side.
- c) G3 - Additional Groyne of 75m at a distance of 200m from G2
- d) G4 - Additional groyne of 50m length at a distance of 320m from G1.

3) To avoid beach erosion, it is proposed to construct 2 numbers of Groynes G3 and G4.

4) The PWD has furnished the design report of IIT, Chennai, EIA, Risk Assessment, Disaster Management and EMP reports on Marine and terrestrial components on the proposal and are enclosed.

5) In this connection the MOEF,GoI have issued instructions in Ir No.3-16/2014 IA-III dated 2.12.2014 that the hard structures perpendicular to the coast saves the shoreline on one side and causes erosion on the other side and hence such measures should be considered only if soft measures is not possible. Further the said foreshore facilities should not be considered in the high eroding areas (copies enclosed).

6) Hence the PWD was requested to obtain the details that the locations of the proposed groynes are not falling in the High Eroding site from the National Center for Sustainable Coastal Management (NCSCM), Anna University, Chennai 600 025, who have already mapping sediment cells along the coast of Tamil Nadu.

Further the PWD was also requested to obtain details from the Ocean Engineering Department, IIT Madras, whether the possibilities of soft measures have been explored before finalizing the erection of hard structures viz., construction of groynes along the coast.

7) Accordingly the PWD has indicated that the location of the proposed site is not high eroding site as per the Shoreline Change Atlas of the Indian Coast prepared by the ISRO, Ahmedabad & the Coastal Erosion Directorate, Central Water Commission, Ministry of water resources GoI, New Delhi and also furnished details obtained from the IIT for recommending the hard structures instead of soft measures for the above project site.

8) 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. 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 the amendment issued by MOEF., GoI in Notification S.O. No. 3085 (E) dated 28th November 2014, the above proposal requires clearance from the Tamil Nadu State Coastal Zone Management Authority.

9) The Authority may consider.

AGENDA ITEM NO:13

Proposed shore protection works for the coast of North Chennai from Ennore to Ernavur Kuppam proposed by Public Works Department.

The PWD has proposed to construct 19 numbers of groynes along the coast from Ennore (north of Chennai harbor) to Ernavur kuppam as the said stretch of the coast has been experiencing perennial erosion requiring immediate action.

2) The solution that has been proposed by IIT Madras towards combating the erosion is construction of groin field of 19 groins of both T - type as well as straight type. The T-type groins are proposed to retain the movement of cross shore sediments which after being trapped by their straight portions and are provided only at vulnerable points. It is recommended by the IIT Madras that the entire groin field is constructed in two reaches. The REACH I, consists of 5 number of T-groins and 5 number of straight groins for a distance of about 1.5 km. The REACH II, comprises of a proposed set of 4 number of T-groins and 5 number of straight groins extending for a distance about 1.45 km and that the root of each of the groins start at least 5 to 10 m inside the land from the shoreward side.

3) In this connection the MOEF,GoI have issued instructions in Ir No.3-16/2014 IA-III dated 2.12.2014 that the hard structures perpendicular to the coast saves the shoreline on one side and causes erosion on the other side and hence such measures should be considered only if soft measures is not possible. Further the said foreshore facilities should not be considered in the high eroding areas.

4) Hence the PWD was requested to obtain the details that the locations of the proposed groynes are not falling in the High Eroding site from the National Center for Sustainable Coastal Management (NCSCM), Anna University, Chennai 600 025, who have already mapping sediment cells along the coast of Tamil Nadu. Further the PWD was also requested to obtain details from the Ocean Engineering Department, IIT Madras, whether the possibilities of soft measures have been

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explored before finalizing the erection of hard structures viz., construction of groynes along the coast. Accordingly the PWD has furnished the details.

5) 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 the amendment issued by MOEF., GoI in Notification S.O. No. 3085 (E) dated 28th November 2014, the above proposal requires clearance from the Tamil Nadu State Coastal Zone Management Authority.

6) The Authority may consider.

AGENDA ITEM NO.14 Proposed Construction of High Level Bridge from East Coast Road to Indian Maritime University site across the Buckingham Canal at Uthandi, Tambaram Taluk, Kancheepuram district proposed by Indian Maritime University

The Indian Maritime University, Chennai has proposed to a High Level Bridge from East Coast Road to Indian Maritime University site across the Buckingham Canal at Uthandi, Tambaram Taluk, Kancheepuram district for clearance under CRZ Notification 2011.

2) The Indian Maritime University (IMU), Chennai has been established as a Central University under the Ministry of Shipping and infrastructure required are proposed to be established at the area of 300 acres of land falling in S. No. 337 of Semmenjeri village and S. No. 720 and 721 of Sholinganallur village, Tambaram Taluk, Kancheepuram district. The IMU has proposed to construct a high level bridge across Buckingham canal at Uthandi village as a part of providing approach from East Coast Road to National Maritime Academy in S.No.68 & 69 of Uthandi village, Kancheepuram district at a length of 164.80 m. This will shorten the commute distance between the existing Maritime Academy and the proposed IMU. The proposed bridge consists of superstructure of width 15.55m and supported by intermediate piers of rectangular shape and semi circular ends resting on pile supports. The soffit level of superstructure is fixed at (+) 5.075m. The bridge will involve: pile foundation consisting of 1.2m dia concrete piles of 4 pier locations and 2 abutments locations, rectangular piers with semi circular faces from pile cap top level(-2.13m) to bottom of pier cap (+ 2.767) and spans of pre stressed girders and deck slab.

3) District Coastal Zone Management Authority for CMDA areas have recommended the proposal subject to the condition that the stilts or pillars should be erected without affecting the hydraulic flow of water and to carryout construction only after obtaining the CRZ Clearance.

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4) The Project cost is Rs.15.50 crores and the project site is falling in CRZ-II, CRZ -I (B) ie., inter tidal zone and CRZ-IV.

5) 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; and vide para 3 (iv) (a) of the said notification land reclamation, bunding or disturbing the natural course of seawater is permissible activity for the construction of bridges. Further vide para 8 I CRZ-I (ii) (g) and 8 (IV) the above activity is a permissible activity and the Tamil Nadu State Coastal Zone Management Authority shall regulate the said activity.

6) The Authority may consider.

AGENDA ITEM NO.15 **Construction of New Petroleum Storage Terminal with installations for storing and transportation of Petroleum Products at S.No. 1556 B of Vallur village and S.No. 354/1 of Athipattu Village, Ponneri taluk, Thiruvallur district by Bharat petroleum Corporation Ltd., Chennai.**

The District Coastal Zone Management Authority for Tiruvallur District has forwarded a proposal for the Construction of New Petroleum Storage Terminal with installations for storing and transportation of Petroleum Products such as High Speed Diesel (HSD), Motor Spirit (MS), Ethanol & Slop (mixed products) at S.No. 1556 B of Vallur village and S.No. 354/1 of Athipattu Village, Ponneri taluk, Thiruvallur district by Bharat petroleum Corporation Ltd. (BPCL), Chennai for clearance under CRZ Notification 2011.

2) Under the proposal, the BPCL has proposed to construct 12 tanks viz., 6 numbers of above ground petroleum product tanks, 3 numbers of petroleum underground tanks, 2 numbers of horizontal tanks for ethanol and 1 number of 15 KL underground tank for HSD. The Tank and 2 numbers of water tanks, admin. Building, tank truck filling gantry, MCC room, Store room and associated facilities. The product receipt is through existing pipeline of HPCL from where a tap off is being provided at manifold. The pipeline size is 16" dia for MS and 20" dia for HSD and the approximate pipeline length is 200m. The unit has purchased 100 acres of undeveloped land purchased from Salt Department to construct the above facilities. The proposed product storage capacity of installations are: MS 56620 KL., HSD 60115 KL, Ethanol 200 KL & Slop 100KL. Total capacity is 117035 KL.

3) The project cost is 369 crores. The project site is falling in CRZ IA., CRZ IB and CRZ III. The District Coastal Zone Management Authority has recommended the project with the following conditions:

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i) There shall be no facility planned in the CRZ-IA and being a prohibited area and for security reasons, compound wall (approximately 112 m) is planned with either by Stilts/ columns/ structures in CRZ-IA without affecting the tidal flow at the CRZ-I Area.

ii) There shall be no facilities planned in CRZ-II.

iii) There shall be structures planned in Zone-III for administration building, Car and cycle shed, control room, Inspection platform, PVC crew shelter, security cabin, TLF Gantry Bay etc.,

iv) The tank farms and other facilities are proposed in the Non-CRZ area.

v) The unit has proposed to provide STP and ETP to treat the sewage and Trade effluent generated respectively.

vi) The Unit has proposed to provide sufficient safety systems in storage tank areas.

4) As per CRZ Notification 2011, vide para 3 (ii) (a) and (b)., transfer of hazardous substances from ships to ports, terminals and refineries and vice versa; and facilities for receipt and storage of petroleum products in the areas not classified as CRZ- I(A) are permissible activities. Further as per CRZ Notification 2011, vide para 8 III CRZ-III A (iii) (e) and para 8 III CRZ-III B (ii), the above activities are permissible activity in CRZ-III and the Tamil Nadu State Coastal Zone Management Authority shall regulate the activities. However, there should not be any new constructions in CRZ-IA.

5) The Authority may consider.

AGENDA ITEM NO.16 Proposed Construction of "beach resort' at Kadalur village, Cheyyur Taluk, Kancheepuram district proposed by M/s. Dual Structural and Industries Pvt. Ltd., Chennai

The District Coastal Zone Management Authority of Kancheepuram district has forwarded a proposal for the construction of a Beach Resort at S.F. No. 389/B, 485/2B, 556/1A2, 1C, 2B, 3B, 557/1B, 3, 4, 571/2A, 2B, 2C, 2D, 2E of Kadalur village, Cheyyur Taluk, Kancheepuram district proposed by M/s. Dual Structural and Industries Pvt. Ltd., Chennai., in an extent of 8.0239 hectares (80,239.954sq.m.). The entire project area is falling in CRZ-III. The applicant proposed to develop resort with a facility of 95 single rooms, 144 double rooms, 16 VIP rooms, 10 guest rooms besides other features comprising of recreation rooms, meditation dormitory, yoga room, Naturopathy consultation for visitors, spa and tennis court. The maximum height of the building is 7.92 m., with ground floor and first floor with total built up area of 25,346 sq.m. (FSI 0.147) within the development of zone of 200mts to 500mts in CRZ. The Total cost of the project is 24.00 crores.

2) The total water requirement for various uses is 60 KLD and will be met from the ground water from S.No. 404, which is very near the site and falling away from the CRZ. The resort has proposed to implement sewage treatment plant to treat the domestic sewage quantity of 54 KLD. The treated sewage of 34 KLD is to be utilized for gardening purpose and the quantity of 32 KLD will be reused for toilet flushing.

3) The food waste and other organic waste of 117 kg/day generated from the resort will be converted as manure through organic waste converter system and the same will be used for landscaping and gardening purposes. The inorganic waste of 78 Kg/day will be disposed through recyclers. The STP sludge of 10 kg/day will be used for manure for gardening. The unit proposed to install DG set of 60 KVA with stack and with inbuilt acoustic enclosures.

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4) The applicant produced a copy of HTL demarcation map obtained from IRS., Anna University. As per the approved Coastal Zone Management Plan Map the site is categorized as CRZ-III and the entire development area of 47,120.81 sq.m., of site is falling in between 200 mts and 500 mts from HTL of sea. The remaining area of 33119.14 sq. m., is falling in the No Development Zone.

5) The District Coastal Zone Management Authority, Kancheepuram district has recommended the proposal.

6) As per para 8 III CRZ-III (B) (i) of CRZ Notification 2011, development of vacant plots between 200 and 500 metres of HTL in designated areas of CRZ-III with prior approval of Ministry of Environment, Forests & oEF shall be permitted for construction of hotels/beach resorts.

7) The Authority may consider.

AGENDA ITEM NO.17 Proposed constructions of residential apartments at S.NOs. 4288/12 & 107, Block No.94 of Mylapore Division, Triplicane Taluk, Chennai district proposed by M/s. CEEBROS Hotels Private Limited, Chennai.

M/s. Rajah Muthiah Chettiyar Charitable Trust, Chennai has obtained Environmental Clearance (EC) from the Ministry of Environment and Forests, GoI for the construction of Hotel complex at Block No. 94, R.S No, 4288/12 and 4288/107, Sathyadevi Avenue Extension, Raja Annamalai purm Chennai, in Ir. No. 11-103/2006-IA-III dated 19th March 2007. However the building constructed as per the said EC has been demolished. Now the present owner of the said property M/s. CEEBROOS has proposed for the construction of residential apartments in the above project site and requested clearance under CRZ Notification 2011.

2) Under the above proposal the applicant has proposed to construct 7 towers consisting of 321 dwelling units. The towers I to VII consisting of triple basements plus Ground (pt) plus Stilt (pt) and 1st to 17 floors. Part of Tower II consisting of 90 flats for LIG having 1 to 7 floors only with Stilt Parking. Total Plot Area is 22471.47 sq.m., and total built up area is 105728 sq.m. Achieved FSI is 2.494 against the allowed FSI of 2.5. Total Project cost is 135 crores. The Total Solid waste generated, as intimated by the applicant, is 1059 kg/day consisting of Bio degradable and Non-bio degradable wastes of 635 kg/day and 424 kg/day respectively. The existing mechanism of Corporation of Chennai shall be made use for disposal. The Total requirement of water requirement is 223 KLD. It is proposed to reuse of the treated sewage for flushing 74 KLD and for green belt 22 KLD. The fresh water requirement for the proposed development is 149 KLD and will be sourced through CMWSSB. The project site is falling in CRZ-II.

3) As per CRZ Notification 2011, vide para 8 II CRZ II (ii)., buildings shall be permitted on the landward side of the existing (as on 19.02.1991) and proposed roads or existing (as on 19.02.1991) authorized structures subject to the existing

(as on 19.02.1991) local town and country planning regulations including the 'existing' (as on 19.02.1991) norms of Floor Space Index or Floor Area Ratio.

4) However Ministry of Environment, Forests & Climate Change, has issued a draft notification in S.O. 937 (E) dated 31st March 2015 by which the constructions shall be allowed subject to the existing local town and country planning regulations as modified from time to time, except the FSI or FAR, which shall be as per 1991 level. Based on the said draft notification, the MOEF & CC, GoI have issued informed in F.No. 11-9/2012/IA-III dated 3rd March 2015 that the competent authority has approved the above amendment to the CRZ Notification 2011 vide F.No. 11-83/2005-IA-III on 27.02.2015. MoEF & CC has also informed that the final order will be subject to the publication of above proviso in Gazette.

5) As per para 4 (d) of CRZ Notification 2011 the TNSCZMA shall regulate the above said activities. However as the constructions involving more than 20,000 sq.mts., the above said activity also requires the clearance from the SEIAA vide para 4 (b) of CRZ Notification 2011.

6) The Authority may consider.

AGENDA ITEM NO.18 **Proposed reconstruction of residential building at S.No. 142/3, Colachel village, Kalkulam Taluk, Kanyakumari district proposed by Thiru Ugin, Kandarvilagam, Kanyakumari district.**

The District Environmental Engineer, Tamil Nadu Pollution Control Board / Convenor, District Coastal Zone Management Authority, Kanyakumari district has forwarded a proposal for the proposed reconstruction of residential building at S.No. 142/3, Colachel village, Kalkulam Taluk, Kanyakumari district proposed by Thiru Ugin, Kandarvilagam, Kanyakumari district for clearance under CRZ Notification 2011.

2) The project area is 477.43 sq.m. The applicant proposed to construct only ground floor of 1096.31 sq.ft. The Executive officer of Reethapuram Town Panchayat, Kanyakumari district in his letter No. 118/2014/A1 dated 11.11.2014 has forwarded the proposal for consideration with the fact that the existing building is in the name of Thiru Savarimuthu and taxes are levied from the year 1987 onwards for the said building. The site is falling in between 200m to 500m from the HTL of sea in CRZ-III. The Deputy Director of Town and Country Planning, Tirunelveli has also informed that the proposed construction satisfied the norms of building rules. The height of the proposed building is less than 6m. The applicant has furnished drawings, topo sketch, estimate etc., The DCZMA, Thoothukkudi have recommended the proposals to the TNSCZMA for consideration.

3) As per CRZ Notification 2011, vide para 8 III CRZ-III (B) (ix) reconstruction of buildings shall be permitted in CRZ-III areas between 200-500m and the Tamil Nadu State Coastal Zone Management Authority shall regulate the said activity.

4) The Authority may consider.

AGENDA ITEM NO.19: Proposed sub-division of land falling in S.No. 92/243A1A, 92/273 of Neelankarai village, Kancheepuram district proposed by Thiru A R. Madanagopal, Chennai.

Thiru AR Madanagopal, Chennai has furnished a copy of letter received from the Corporation of Chennai dated 20.11.2014 along with a proposal for the sub-division of his land into 8 plots, which is falling in S.No. 92/243A1A, 92/273 of Neelankarai village for Clearance under CRZ Notification 2011. The site is falling in CRZ-II area on the landward side of the the existing Neelankarai Kuppam streets. The applicant has proposed to sub-divide the property of 5161.21 sq.mts into eight plots of around 545 sq.mts., each.

2) 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 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. In the last meeting the proposal was deferred as the sub-division involves formation of a passage.

3) As per CRZ Notification 2011, vide para 8 II CRZ-II (i) and (ii) construction shall be allowed by the State Coastal Zone Management Authority subject to the condition that the proposed construction should satisfy the local Town and Country Planning regulations including norms of FSI/FAR as on 19.02.1991.

4) The Authority may consider.

AGENDA ITEM NO.20

Proposed sub-division of land falling in S.No. 225/6A.,6B, 6C, 6D, 225/5B, 5C, 5D, 5E of Kottivakkam village Corporation of Chennai Division No. 18 (Zone 14) proposed by Thiru Allu Aravind Babu, Chennai.

Thiru Allu Aravind Babu, Chennai submitted a proposal for the sub-division of his land into 8 plots, which is falling in S.No. 225/6A.,6B, 6C, 6D, 225/5B, 5C, 5D, 5E of Kottivakkam village, Corporation of Chennai Division No. 183, Zone 14 for Clearance under CRZ Notification 2011. The Corporation of Chennai in Ir. No.W.D.C. No. T.P. SD/WDCN 14/00119/2015 dated 18.03.2015 has informed that the site is falling in CRZ-II. The site is falling in CRZ-II area on the landward side of the existing Kuppam beach road. The applicant has proposed to sub-divide the property of 4103.84 sq.m. into eight plots of around 450 to 550 sq.m. each.

2) 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 the Corporation of Chennai with reference to sub-division 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.

3) As per CRZ Notification 2011, vide para 8 II CRZ-II (i) and (ii) construction shall be allowed by the State Coastal Zone Management Authority subject to the condition that the proposed construction should satisfy the local Town and Country Planning regulations including norms of FSI/FAR as on 19.02.1991.

4) The Authority may consider.

AGENDA ITEM NO.21 **Proposed layout of land falling in T.S.No. 8, 11/2 part Block No. 14 of Adyar Village, Mambalam - Guindy Taluk, Chennai district proposed by M/s. Baashyaam Construction Private Limited, Chennai.**

M/s. Baashyaam Construction Private Limited, Chennai has submitted a proposal for the layout of their land into 9 plots, which is falling in T.S.No. 8, 11/2 part Block No. 14 of Adyar Village, Mambalam - Guindy Taluk, Chennai for Clearance under CRZ Notification 2011. The site is falling in CRZ-II area. The applicant has proposed to sub-divide the property of 8008.42 sq.mts into nine plots of various sizes between 247.69 sq.m. to 1190.79 sq.m. each. The proposal involves a formation of 9m wide road for approach.

2) 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.

3) As per CRZ Notification 2011, vide para 8 II CRZ-II (i) and (ii) construction shall be allowed by the State Coastal Zone Management Authority subject to the condition that the proposed construction should satisfy the local Town and Country Planning regulations including norms of FSI/FAR as on 19.02.1991.

4) The Authority may consider.

AGENDA ITEM NO.22 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 Director, Sacred Heart Marine Research Centre, Thoothukdi have previously obtained CRZ clearance for establishing a temporary research laboratory at Beach Road, Karapad, Thoothukudi for conducting research on marine antifouling agent and the environmental clearance was issued in Proc. No. P1/624/2004 dated 09.06.2004 with a validity for three years. The Director, Sacred Heart Marine Research Centre, Thoothukudi has then requested for the extension of time to continue their research in Thoothukudi. As resolved in the 43rd meeting of the Tamil Nadu Coastal Zone Management Authority held on 03.10.2007, the environmental clearance already issued has been extended for three more years from 10.06.2007 to 09.06.2010 in pro. No P1/624/2004 dated 19.10.2007 and subsequently extended for the further period of 5 years in pro. No. P1/1487/2007 dated 03.06.2010 as resolved in the 59th meeting held on 28.05.2010.

2) The site falls in CRZ-I(ii) - inter tidal zone. The structures are of temporary nature and located in the land belonging to Thoothukudi Port Trust.

3) Now the institution has requested for extension of time for 5 more years to complete the research subject to the conditions already imposed. The applicant has informed that they conducting practical and applied research to develop nontoxic coatings that will prevent the attachments of barnacles on submerged surfaces based on "Static Immersion Test". It is to determine the effect of different velocities at any point in the panel and the corresponding erosion rate resulting from the fluid shear forces generated by the undersea rotation. Hence the institution has requested clearance to continue their research in their existing laboratory for 5 more years subject to the conditions already imposed for the benefit of mankind and marine environment.

4) The institution have informed that the Port Trust has given permission for the project and the Port Authorities have no objection to continue the project.

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The institution has also informed that there are no additional constructions and there is no other existing laboratory with such focus on the environment.

5) 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;

6) The Authority may consider.

AGENDA ITEM NO.23 Any other issues with the permission of the Chair.

Sd/-xxxx

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

Sd/- xxxxx

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

**MINUTES OF THE 83rd MEETING OF THE TAMIL NADU STATE COASTAL
ZONE MANAGEMENT AUTHORITY HELD ON 19.05.2015**

**AGENDA ITEM NO.01: Confirmation of the Minutes of the 82nd meeting of
the Tamil Nadu State Coastal Zone Management
Authority held on 27.11.2014.**

The minutes of the 82nd meeting of the Tamil Nadu State Coastal Zone Management Authority held on 17.12.2014 communicated in Letter No.P1/141/2013 dated 23.12.2014 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 82nd meeting of the
TNSCZMA.**

As this is the first meeting after reconstitution, the Chairman and the Member Secretary have greeted the members. The Chairman focused the need for the critical scrutiny of the proposals and emphasized that the decisions of the Authority should aim for a fine balance between development and conservation. Its deliberations should take into account the development imperatives as well as the concerns of coastal management, conservation of resources, protection of ecology, social responsibilities etc.,

The Member Secretary briefed the members about the action taken by the Department of Environment on the decisions taken during the 82nd meeting of the Tamil Nadu State Coastal Zone Management authority held on 23.12.2014.

**AGENDA ITEM NO.03 Construction of foreshore facilities viz., coal
conveyor and cooling water intake and outfall
pipelines, structures of the proposed North
Chennai Thermal Power Project stage III (1 x 800
MW) at Ennore village, Ponneri Taluk, Thiruvallur
district proposed by TANGEDCO., 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:

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- a) The fly ash generated should be disposed / reused by implementing a suitable concrete plan.
- b) Closed conveyor system, with latest technology, should be provided for coal handling. A proper Ambient Air Quality Monitoring plan shall be evolved in consultation with the Tamil Nadu Pollution Control Board in such a way to monitor air quality frequently as well as cumulative impact of air quality in that area taken into considering all stages of the project. If necessary, more number of monitoring stations shall be formed for monitoring the air quality.
- c) Shoreline evolution due to the littoral drift on either side of the project site, along the coast, should be monitored continuously based on the LITPAC OF MIKE 21 modeling studies with reference to the intake and outfall points of water and proper remedial action should be taken on the event of any adverse impacts.
- d) Turbulance caused at intake point due to drawl of water and at the outfall point due to discharge of coolant water should be under close and continuous monitoring especially on the turbidity levels so as to take mitigation measures on the event of adverse implications.
- e) Impact of chemicals (used for cleaning of membrane of RO plant) in the R.O. reject (brine) on the marine organisms shall be closely monitored so as to take remedial action on the event of any adverse impact.
- f) A feasibility study on the flora shall be prepared. Further a detailed action plan should be evolved to minimize the impact of project on mangroves available near the project site. Necessary conservation programme shall be implemented for preserving the existing mangroves and also to create fresh mangrove belt in consultation with Forest Department.
- g) The temperature of water at the outfall point should be maintained within the prescribed levels.
- h) The Project should not in any way affect the fishing activities and also should not hinder the livelihood of the Fishermen.

AGENDA ITEM NO.04 Proposed re-construction of 712 tenements at S.No.2613/2, 2612/3, 2613/8, 2613/6 of Triplicane Village and Taluk, Chennai District under Ayodhyakuppam scheme proposed by the Tamil Nadu Slum Clearance Board, Chennai.

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

- a) The proposed constructions should satisfy the FSI/ FAR norms as per the Town and Country Planning regulations as on 19.02.1991 and Planning Permission shall be obtained from the Chennai Metropolitan Development Authority.
- b) Consent for Establishment from Tamil Nadu Pollution Control Board should be obtained.
- c) Explore the possibilities of designing eco-friendly elevation.
- d) Premium FSI is not permissible.
- e) There should not be any ground water extraction in CRZ.
- f) Sewage should not be let off into the sea.
- g) Solid Waste Management Plan should be formulated and to be implemented without depending wholly on Corporation of Chennai for this purpose.
- h) Green belt development shall be implemented and site specific plants shall be identified for plantation.
- i) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.
- j) Sufficient budget allocations shall be provided for the proper maintenance of the project constructions and facilities especially for the maintenance of STPs, green belt and for solid waste management.

.4.

AGENDA ITEM NO.05 Proposed re-construction of 536 at S.No. 7577 and 4600 of Mylapore Village, Mylapore Taluk, Chennai District under Nochikuppam scheme proposed by the Tamil Nadu Slum Clearance Board, Chennai.

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

- a) The proposed constructions should satisfy the FSI/ FAR norms as per the Town and Country Planning regulations as on 19.02.1991 and Planning Permission shall be obtained from the Chennai Metropolitan Development Authority.
- b) Consent for Establishment from Tamil Nadu Pollution Control Board should be obtained.
- c) Explore the possibilities of designing eco-friendly elevation.
- d) Premium FSI is not permissible.
- e) There should not be any ground water extraction in CRZ.
- f) Sewage should not be let off into the sea.
- g) Solid Waste Management Plan should be formulated and to be implemented without depending wholly on Corporation of Chennai for this purpose.
- h) Green belt development shall be implemented and site specific plants shall be identified for plantation.
- i) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.
- j) Sufficient budget allocations shall be provided for the proper maintenance of the project constructions and facilities especially for the maintenance of STPs, green belt and for solid waste management

AGENDA ITEM NO.06 Proposed Construction of 416 tenements in T.S. No. 3, Block No. 32, R.S. No. 619/1 of Ernavoor village, Tiruvottiyur tauk, Thiruvallur district proposed by the Tamil Nadu Slum Clearance Board, Chennai.

The Authority resolved to request the Tamil Nadu Slum Clearance Board to furnish the following details/ documents for taking further action.

.5.

- a) As the threat of sea erosion is high along the coast adjacent to project area a profile on the aggressive sea erosion and the measures to mitigate the adverse impact shall be furnished.
- b) Green belt development shall be evolved with site specific plants for plantation and furnished.

AGENDA ITEM NO:07 Proposed Construction of 36 MLD STP at Sholinganallur village, Tambaram Taluk, Kancheepuram district and to discharge treated sewage from STP into the Buckingham Canal proposed by CMWSSB.

The Authority resolved to request the CMWSSB to furnish the following details/ documents for taking further action.

- a) As the secondary treatment of sewage water is not fit for reuse, CMWSSB may explore the possibilities of providing another alternative primary membrane treatment of sewage water with the adaptation of latest methods instead of chlorination and furnish the details for further action.
- b) A detailed report indicating the present water quality levels/ characters of the Buckingham canal, estimated water quality levels of proposed discharge and the estimated resultant water quality levels of the Buckingham canal after discharge, on various parameters, with reference to standard permissible limit shall be furnished.
- c) A plan for the continuance long term monitoring of quality/ characters of the treated water shall be furnished.
- d) CMWSSB shall explore the possibilities of using the treated sewage for further beneficial use by the nearby industries or to utilize the treated sewage for development of park in and around the site in consultation with the Corporation of Chennai and furnish the details on the proposed reuse of water.
- e) The CMWSSB shall design the STP in comparing with the performance of any one of the similar STP in the State and furnish the report.

AGENDA ITEM NO:08 **Proposed Construction of 31 MLD STP at Sathangadu village, Thiruvottiyur and to discharge treated sewage from STP into the Buckingham Canal.**

The Authority resolved to request the CMWSSB to furnish the following details/ documents for taking further action.

- a) As the secondary treatment of sewage water is not fit for reuse, CMWSSB may explore the possibilities of providing primary membrane treatment of sewage water with the adaptation of latest methods instead of chlorination and furnish the details for further action.
- b) A detailed report indicating the present water quality levels/ characters of the Buckingham canal, estimated water quality levels of proposed discharge and the estimated resultant water quality levels of the Buckingham canal after discharge, on various parameters, with reference to standard permissible limit shall be furnished.
- c) A plan for the continuance long term monitoring of quality/ characters of the treated water shall be furnished.
- d) CMWSSB shall explore the possibilities of using the treated sewage for further beneficial use by the nearby industries or to utilize the treated sewage for development of park in and around the site in consultation with the Corporation of Chennai and furnish the details on the proposed reuse of water.
- e) The CMWSSB shall design the STP in comparing with the performance of any one of the similar STP in the State and furnish the details.

AGENDA ITEM NO.09 **Construction of groyne at Veerapandiayn Pattinam Village, Tiruchendur Taluk, Thoothukudi district proposed by PWD/WRO., Korampallam Aru Basin Division, Thoothukudi.**

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

.7.

- a) Shoreline evolution should be monitored periodically. Remedial measures need to be planned to prevent further erosion, if any, on the adjacent coastal areas.
- b) The activity should not have any adverse impact on the marine organisms.
- c) No road shall be formed in CRZ.
- d) 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.
- e) The design of groynes indicates that they are for multi-purpose, i.e., to protect beach as well as to create moderate tranquility of sea to provide safety to small fishing boats that are beached. The proposed activity shall not cause hindrance to the nearby human settlements/ authorised structures and fishing activities.
- f) Suitable management procedures for long-term maintenance of groynes should be evolved for which the PWD should form a separate, permanent wing and the periodical evolution of coastal areas to mitigate the adverse impact may also be entrusted to the said wing.
- 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/SDMRI, Tutcorin/ IIT Chennai. Periodical report shall be furnished by the PWD to Department of Environment on the site conditions every year so as to take mitigation suggestive 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 a panel of experts, in which, ecologists should be included.

AGENDA ITEM NO.10 Construction of groyne at Keelavaippar Village, Vilathikulam Taluk, Thoothukudi district proposed by PWD/WRO., Special Project Division, Virudhunagar Division, Thoothukudi.

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

- a) Shoreline evolution should be monitored periodically. Remedial measures need to be planned to prevent further erosion, if any, on the adjacent coastal areas.
- b) The activity should not have any adverse impact on the marine organisms.
- c) No road shall be formed in CRZ.
- d) 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.
- e) The proposed activity shall not cause hindrance to the nearby human settlements/ authorised structures and fishing activities
- f) Suitable management procedures for long-term maintenance of groynes should be evolved for which the PWD should form a separate, permanent wing and the periodical evolution of coastal areas to mitigate the adverse impact may also be entrusted to the said unit.
- 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/SDMRI, Tuticorin/ IIT Chennai. Periodical report shall be furnished by the PWD to Department of Environment on the site conditions every year so as to take mitigation suggestive 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 a panel of experts, in which, ecologists should be included.

AGENDA ITEM NO.11 Construction of groyne at Vembar Village, Vilathikulam Taluk, Thoothukudi district proposed by PWD/WRO., Special Project Division, Virudhunagar Division, Thoothukudi.

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

- a) Shoreline evolution should be monitored periodically. Remedial measures need to be planned to prevent further erosion, if any, on the adjacent coastal areas.
- b) The activity should not have any adverse impact on the marine organisms.
- c) No road shall be formed in CRZ.
- d) 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.
- e) The proposed activity shall not cause hindrance to the nearby human settlements/ authorised structures and fishing activities.
- f) Suitable management procedures for long-term maintenance of groynes should be evolved for which the PWD should form a separate, permanent wing and the periodical evolution of coastal areas to mitigate the adverse impact may also be entrusted to the said wing.
- 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/SDMRI, Tuticorin/ IIT Chennai. Periodical report shall be furnished by the PWD to Department of Environment on the site conditions every year so as to take mitigation suggestive 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 a panel of experts, in which, ecologists should be included.

AGENDA ITEM NO.12 Construction of groyne at Kallamozhi Village, Tiruchendur Taluk, Thoothukudi district proposed by PWD/WRO., Korampallam Aru Basin Division, Thoothukudi.

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

- a) Shoreline evolution should be monitored periodically. Remedial measures need to be planned to prevent further erosion, if any, on the adjacent coastal areas.
- b) The activity should not have any adverse impact on the marine organisms.
- c) No road shall be formed in CRZ.
- d) 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.
- e) The design of groynes indicates that they are for multi-purpose, i.e., to protect beach as well as to create moderate tranquility of sea to provide safety to small fishing boats that are beached. The proposed activity shall not cause hindrance to the nearby human settlements/ authorised structures and fishing activities.
- f) Suitable management procedures for long-term maintenance of groynes should be evolved for which the PWD should form a separate, permanent wing and the periodical evolution of coastal areas to mitigate the adverse impact may also be entrusted to the above wing.
- 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/SDMRI, Tuticorin/ IIT Chennai. Periodical report shall be furnished by the PWD to Department of Environment on the site conditions every year so as to take mitigation suggestive 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 a panel of experts, in which, ecologists should be included.

AGENDA ITEM NO:13 **Proposed shore protection works for the coast of North Chennai from Ennore to Ernavur Kuppam proposed by Public Works Department.**

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

- a) Shoreline evolution should be monitored periodically. Remedial measures need to be planned to prevent further erosion, if any, on the adjacent coastal areas.
- b) The activity should not have any adverse impact on the marine organisms.
- c) No road shall be formed in CRZ.
- d) 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.
- e) The proposed activity shall not cause hindrance to the nearby human settlements/ authorised structures and fishing activities
- f) Suitable management procedures for long-term maintenance of groynes should be evolved for which the PWD should form a separate, permanent wing and the periodical evolution of coastal areas to mitigate the adverse impact may also be entrusted to the above wing.
- 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/SDMRI, Tuticorin/ IIT Chennai. Periodical report shall be furnished by the PWD to Department of Environment on the site conditions every year so as to take mitigation suggestive measures on the event of any adverse impacts on the coast.

.12.

- 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 a panel of experts, in which, ecologists should be included.
- i) The PWD should arrange for a presentation by Institute of Hydraulics and Hydrology (IHH), Poondi on the features of projects executed by them in the past with the achievement and present stage of the said projects.

AGENDA ITEM NO.14 Proposed Construction of High Level Bridge from East Coast Road to Indian Maritime University site across the Buckingham Cana at Uthandi, Tambaram Taluk, Kanceepuram district proposed by Indian Maritime University

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

- a) The stilts or pillars should be erected without affecting the hydraulic flow of water.
- b) Necessary approval from the Indian Waterways Authority specifically with reference to the design, height, soffit level etc. of the bridge.
- c) In the construction operation, due to the use of machineries, heavy noise will be generated. The Specific plan of the noise prevention and control measures should be furnished.
- d) Green belt along the approach roads to the bridge should be formed.
- e) There shall be no extraction of ground water.
- f) No liquid or solid waste shall be generated and disposed off in CRZ.
- g) No blasting activities in CRZ are permissible.
- h) Proper arrangements should be made for the disposal of solid wastes generated in the project area then and there.

AGENDA ITEM NO.15 **Construction of New Petroleum Storage Terminal with installations for storing and transportation of Petroleum Products at S.No. 1556 B of Vallur village and S.No. 354/1 of Athipattu Village, Ponneri taluk, Thiruvallur district by Bharat petroleum Corporation Ltd., Chennai.**

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

- a) The construction of storage tanks shall satisfy the prescribed standard norms.
The storage tanks should be used only for the storage of petroleum products as proposed and change of storage products should require fresh clearance.
- b) 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.
- c) Additional activity, if any, should be carried out in the above site, only with the prior approval of the TNSCZMA.
- d) There should not be any civil structures in the CRZ-I areas. The compound wall should not be constructed in the water body, mud flats and CRZ-I areas.
- e) A comprehensive risk analysis report along with the disaster management plan should be furnished. The said report should include the risk contour and consequences by suitable accepted modeling.
- f) Proper awareness should be created among the public who are residing within the buffer zone.
- g) Training and mock drills should be given to the employees and also to the public to handle emergencies/ accidents duly and a plan in this regard should be submitted to the Authority.
- h) There should not be any extraction of ground water in CRZ.
- i) The project activity should not affect the coastal ecosystem including marine flora and fauna. As the project area is located near to ecology sensitive features, the activities under Corporate Social Responsibility should be refined and addressed more effectively and the allocation should be given more for preserving ecology. The revised report should be furnished.

AGENDA ITEM NO.16 Proposed Construction of "beach resort' at Kadalur village, Cheyyur Taluk, Kancheepuram district proposed by M/s. Dual Structural and Industries Pvt. Ltd., Chennai

The Authority resolved to request the applicant to furnish the following details / documents for taking further action.

- a) Site elevation contour maps of project site and adjacent areas should be furnished.
- b) A report shall be furnished from a competent institution on the presence of sand dunes in the project site, with a historical ten year data base.
- c) A report shall be furnished from a competent agency on the presence of habitats in and around the project site and also with reference to Red Olive Turtle nesting in that area.

AGENDA ITEM NO.17 Proposed constructions of residential apartments at S.NOs. 4288/12 & 107, Block No.94 of Mylapore Division, Triplicane Taluk, Chennai district proposed by M/s. CEEBROS Hotels Private Limited, Chennai.

The Authority resolved to approve the proposal subject to the publication of proviso indicated in the draft notification S.O. 937 (E) dated 31st March 2015 in Gazette and also subject to the following specific conditions.

- a) The proposed constructions should satisfy the FSI/ FAR norms as per the Town and Country Planning regulations as on 19.02.1991 and Planning Permission shall be obtained from the Chennai Metropolitan Development Authority.
- b) Environmental Clearance shall be obtained under EIA Notification 2006 from the competent Authority.
- c) Consent for Establishment from Tamil Nadu Pollution Control Board should be obtained.

.15.

- d) The structural engineering of the proposed constructions shall be designed to withstand in the event of earth quakes.
- e) Premium FSI is not permissible.
- f) There should not be any ground water extraction in CRZ.
- g) Solid Waste Management Plan should be formulated and to be implemented without depending wholly on Corporation of Chennai for this purpose.
- h) Green belt development shall be implemented and site specific plants shall be identified for plantation. The activities under Corporate Social Responsibility shall be carried out in association with the Chennai River Restoration Trust (CRRRT).
- i) Adequate Rain Water Harvesting structures shall be created for water percolation and to harvest the rainwater to the maximum extent possible.
- j) The new concept for creating terrace gardens may be explored to facilitate migrating birds, as the project area is on the bank of Adyar creek.

AGENDA ITEM NO.18

Proposed reconstruction of residential building at S.No. 142/3, Colachel village, Kalkulam Taluk, Kanyakumari district proposed by Thiru Ugin, Kandarvilagam, Kanyakumari district.

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

- a) 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. 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.

.16.

AGENDA ITEM NO.19: Proposed sub-division of land falling in S.No. 92/243A1A, 92/273 of Neelankarai village, Kancheepuram district proposed by Thiru A R. Madanagopal, Chennai.

The Authority resolved to request the applicant to make a power point presentation to the Members of the Authority, in respect of their proposed sub-division and the impacts of the proposal with reference to the adjacent sea and layout surroundings for consideration.

AGENDA ITEM NO.20 Proposed sub-division of land falling in S.No. 225/6A.,6B, 6C, 6D, 225/5B, 5C, 5D, 5E of Kottivakkam village Corporation of Chennai Division No. 18 (Zone 14) proposed by Thiru Allu Aravind Babu, Chennai.

Project proponent not present. To be taken up in next meeting.

AGENDA ITEM NO.21 Proposed layout of land falling in T.S.No. 8, 11/2 part Block No. 14 of Adyar Village, Mambalam - Guindy Taluk, Chennai district proposed by M/s. Baashyaam Construction Private Limited, Chennai.

The Authority resolved to request the applicant to make a power point presentation to the Members of the Authority, in respect of their proposed layout and the impacts of the proposal with reference to the adjacent Adyar river for consideration.

AGENDA ITEM NO.22 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 Authority resolved to extend the Clearance issued under CRZ Notification 2011, for two more years, subject to the conditions already imposed at the time of issue of the original environmental clearance in proceedings dated 09.06.2004.

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

Sd.- xxxxx
Thiru Hans Raj Verma., I.A.S.,
Chairman, TNSCZMA and
Principal Secretary to Government Chennai -
Environment & Forests Dept., Chennai - 9