

104th MEETING

TAMIL NADU STATE COASTAL ZONE MANAGEMENT AUTHORITY

Date: 27.02.2019

Time: 3.00 P.M.

Venue:

Conference Hall, 2nd floor,
Namakkal Kavinger Maligai,
Secretariat, Chennai - 600 009

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AGENDA ITEM NO.01: Confirmation of the minutes of the 103rd meeting of the Tamil Nadu State Coastal Zone Management Authority held on 03.01.2019.

The 103rd meeting of the Tamil Nadu State Coastal Zone Management Authority was held on 03.01.2019 and the minutes were communicated in letter No. P1/2200/2018 dated 10.01.2019 (copy enclosed) of Director of Environment. It may be confirmed.

**MINUTES OF THE 103rd MEETING OF THE TAMIL NADU STATE COASTAL ZONE
MANAGEMENT AUTHORITY (TNSCZMA) HELD ON 03.01.2019**

As the 103rd meeting of the Authority was the first meeting for the year 2019, the Member Secretary and the Members of the Tamil Nadu State Coastal Zone Management Authority welcomed the Chairman, with greetings.

AGENDA ITEM NO.01: Confirmation of the minutes of the 102nd meeting of the Tamil Nadu State Coastal Zone Management Authority held on 27.09.2018.

The minutes of the 102nd meeting of the Tamil Nadu State Coastal Zone Management Authority (TNSCZMA) held on 27.09.2018, communicated, to the Members of the Authority, in Letter No.P1/2200/2018 dated 08.10.2018 of the Director of Environment was confirmed.

Further the TNSCZMA have, through the Circulation Agenda dated 05.12.2018 resolved to recommend the proposed "Chennai Andaman Nicobar Island (CANI) Submarine Cable System landing at Santhome Beach, Chennai" proposed by M/s. Universal Service Obligation Fund, Department of Telecommunication. The same was also confirmed.

AGENDA ITEM NO.02: The action taken on the decisions of 102nd meeting of the Authority held on 27.09.2018.

The Member Secretary briefed the Members about the action taken by the Department of Environment on the decisions taken during the 102nd meeting of the Tamil Nadu State Coastal Zone Management authority held on 27.09.2018. The Authority noted the action taken.

The Chairman requested to the Member Secretary, TNSCZMA to include the status of the action taken on the Proposals, at the Environment and Forests Department, GoTN in the action taken report.

AGENDA ITEM NO.03 : Proposed construction of Two Bye-Passes at Kelambakkam and Tiruporur under Phase-II of IT Expressway proposed by M/s. Tamil Nadu Road Development Company Ltd., Chennai

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

- a) The stilts or pillars, of the bridges/roads and the culverts should not affect the free flow of tidal water.
- b) The road alignment or formation of any bund should not tamper the existing tanks or lakes.
- c) The Project Proponent should ensure that there should not be letting of sewerage through the culverts/ bridges.
- d) The quality of work should be ensured and necessary facilities shall be provided to inspect the project area by a Committee, comprising the Members of the TNSCZMA, TNPCB and the officers of the Department of Environment, during the construction phase.
- e) The Project Proponent should ensure that the Maintenance Contract executed with the contractor should include the maintenance of aesthetic beauty of the road, survival of the trees, safety of the road, preventing encroachment etc., The possibilities of a third party assessment shall be explored, on the maintenance of the road, as per the contract agreement.
- f) Suitable measures shall be evolved to control the pollution and noise levels, during the construction and post-construction phases and ensure the installation of online monitoring system.
- g) No drawal of ground water in CRZ areas.
- h) The green belt shall be developed with tall local species like Palmyrah in consultation with Forest Department and exotic ornamental trees shall be avoided at any cost.
- i) Ensure that the R & R (Rehabilitation & Resettlement) activities are as per norms.
- j) Proper arrangements should be made for the disposal of solid wastes generated in the project area.

.04.

- k) All the mitigation measures indicated in the Environment Management Plan should be implemented as proposed.
- l) Ensure that the flora and fauna habitations, especially along the tidal influenced water bodies of the project locality should not be affected due to the project implementation.
- m) There should not be any adverse impact on the fishermen and fishing activities due the project.
- n) Necessary statutory clearances from the Salt Department, PWD, SEIAA etc., if any, required for the project should be obtained from the concerned competent authorities, without fail.

AGENDA ITEM NO.04 : Proposed expansion of the LPG import and Storage Terminal by installing additional storage tanks at Plot No.5C, VOC Port Trust, Thoothukudi by M/s. SHV Energy Private Limited, Thoothukudi.

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

- a) The Automatic Fire Fighting / Protection system shall be provided with the latest techniques and the Automation should also be covered the existing Plant operations. The Proponent should ensure the proper implementation of all the aspects indicated under the Safety Management.
- b) The project proponent shall undertake the activities pertaining proposed expansion, only after getting the required Environmental Clearance from the competent authority, including the clearance under CRZ Notification, 2011 and other statutory clearances.
- c) The project proponent shall undertake the construction / establishment works only after getting the required planning permission from the Directorate of Town and Country Planning and plan approval from Thoothukudi Municipal Corporation.

- d) The project proponent shall not draw any ground water in CRZ area, under any circumstance. Further the unit should procure fresh water from the authorized water supplier, approved by the Government/Government agencies or arrange to setup a mini desalination plant to meet their fresh water demand.
- e) The project proponent shall provide STP, as proposed and arrange to utilize the treated sewage on their own land for gardening purposes. It shall be ensured that the untreated sewage shall not be discharged, either on land or into marine coastal areas, under any circumstance.
- f) The project proponent shall provide ETP, followed by Zero Liquid Discharge System, comprising of Reverse Osmosis Plant, as proposed, and shall arrange to utilize the permeate recovered in their industrial activity, and the reject shall be utilize for gardening / greenbelt development.
- g) The green belt shall be developed with tall local species like Palmyrah in consultation with Forest Department and exotic ornamental trees shall be avoided at any cost.
- h) The project proponent shall remit the taxes payable to the Corporation such as Building License Fee for the existing buildings, Vacant Land Tax and Property Tax, payable to Thoothukudi Corporation, as and when such Demands are made.
- i) The project proponent shall not 'use and throwaway' plastics such as plastic sheets used for food wrapping spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bags and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco friendly alternative such as banana leaf, areca nut palm plate, stainless steel glass, porcelain plates / cups, cloth bag, jute bag etc.,
- j) The project proponent shall undertake continual awareness programme against the use of 'use and throw' plastic items, within the premises and also at the community level, by erecting display boards depicting the environmental hazards of plastics,

alternates to plastics, etc., and by organising awareness rallies, exhibitions, street plays, eco-competitions etc., with the participation of NGC/Eco Club students of Government and Government aided schools through the NGC Educational district awareness co-ordinators of the Department of Environment.

- k) The Project Proponent shall ensure implementation of CSR and CER activities, separately, by distinct components, as per norms.
- l) The Project Proponent shall share the soft copy of the Risk Management Plan with the Members of the Authority.
- m) The Project Proponent shall facilitate the Industries Department in conducting the Tamil Nadu Global Investors Meet, 2019 successfully.

AGENDA ITEM NO.05. Inclusion of an additional product viz., at Liquid Storage Terminal at Biden Place in Chennai Port Limited proposed by M/s. Integrated Service Point Pvt. Ltd., Chennai

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

- a) Proper awareness should be created among the public who are residing within the buffer zone .
- b) Training and mock drills should be given to the employees and also to the public to handle emergencies/ accidents duly.
- c) There should not be any extraction of ground water in CRZ.
- d) The project activity should not affect the coastal ecosystem including marine flora and fauna.
- e) The construction of storage tanks shall satisfy the prescribed standard norms.
- f) Any further activity should be carried out in the above site, only with the prior approval of the competent authorities.
- g) The storage tanks should be used for the storage of edible oil and Non hazardous substances only as proposed.

- h) 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.

AGENDA ITEM NO.06 Clearance under CRZ Notification 2011 for the Mahabalipuram Beach Resort Hotel Project at Madura Devaneri village, Mamallapuram, Thirukazhukundram Taluk, Kancheepuram District, Tamil Nadu by M/s Chandrakala Resort Hotel Limited, Chennai.

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

- a) The project proponent shall not draw any ground water in CRZ area, under any circumstance. Further the unit should procure fresh water from the authorized water supplier, approved by the Government/Government agencies or from the legally designated local bodies/TWAD or arrange to setup a mini desalination plant to meet their fresh water demand.
- b) Instead of dual plumbing system, the Project Proponent should provide Ultra Filtration in the STP.
- c) The green belt shall be developed with tall local species like Palmyrah/tropical ever green trees, in consultation with Forest Department and exotic ornamental trees shall be avoided at any cost. E.coli as an indicator may be measured time to time.
- d) The project proponent shall undertake continual awareness programme against the use of 'use and throw' plastic items, within the premises and also at the community level, by erecting display boards depicting the environmental hazards of plastics, alternates to plastics, etc., and by organising awareness rallies, exhibitions, street plays, eco-competitions etc., with the participation of NGC/Eco Club students of Government and Government aided schools through the NGC Educational district awareness co-ordinators of the Department of Environment.

AGENDA ITEM NO.07 : Re-laying of existing Neelankarai Beach Road adjoining the Survey No.83 in Division No.192, Zone 15 of Neelankarai village, Shozhinganallur Taluk, Kancheepuram district for the benefit of the local and general public proposed by the Greater Chennai Corporation for Clearance under CRZ Notification 2011.

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

- a) The proposed relaying of existing mud road of length 370- mts and width 6mts should not be increased and the alignment of the road shall not be changed.
- b) No vegetation shall be cleared off while relaying of the motorable road.
- c) The demolition of wastes generated during the relaying of the road shall used for internal back filling of the motorable road as committed.
- d) Dust generated during relaying of the road shall be mitigated by sprinkling of water.
- e) The relaying activity shall adhere to the ambient noise level standards.
- f) The relaying activity shall comply with the Construction and Demolition Waste Management Rules, 2016.
- g) There should not be any ground water extraction in the CRZ area.

AGENDA ITEM NO.08 Temporary Research laboratory for Marine antifouling research at Beach road, Karapad, Thoothukkudi proposed by the Director, Sacred Heart Marine Research Centre, Thoothukkudi

The Authority resolved to clear the Research activities, subject to the following specific conditions,

- a) The Project Proponent should make use of the already existing temporary structure and facilities and should not create additional or new facilities/structures.
- b) The Project Proponent should complete the research activities within 3 years from the date of the issue of Clearance.

- c) An affidavit to the effect that study samples with antifouling coating will not affect the prevailing marine flora and fauna shall be furnished to the Department of Environment.
- d) The details of coating composition used, which are received from the Foreign Company, should be furnished for record.
- e) The Data sharing policy within Exclusive Economic Zone (EEZ) with foreign Institution requires Clearance of Ministry of Defence. Hence the Project Proponent shall obtain the Clearance from the Ministry of Defence and furnish for record.

AGENDA ITEM NO.09 : Proposed regularization of a plot due to the sub-division of land falling in Plot No. 20, S.No. 99/9C8B1 of Muttukadu village, Thiruporur Panchayat Union, Tambaram Taluk, kancheepuram district proposed by Thiru Suren Prabhu, T.Nagar, Chennai.

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

- a) The proposed constructions, if any, in the project site, should conform to the provisions of CRZ Notification in force, at the time of construction.
- b) Planning permission should be obtained for the proposed constructions from the local authorities concerned.
- 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 sub-division of land falling in S.No. 223/3, T.S. No. 38, block no. 67 of Old Door No. 7, New Door No. 1, new Beach Road, Thiruvalluravar Nagar, Thiruvanmiyur, Chennai 600 041 proposed by Thiru Ashok Kumar Bisani and Tmt. Rashmi Bisani, Chennai

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

- a) The proposed constructions, if any, in the project site, should conform to the provisions of CRZ Notification in force, at the time of construction.
- b) Planning permission should be obtained for the proposed constructions from the local authorities concerned.
- 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: Status report on the Coastal Zone Management Plan (CZMP) of Tamil Nadu as per the CRZ Notification, 2011

The Member Secretary explained to the Members of the Authority, about the CZMP of Tamil Nadu, prepared by the Department of Environment through the National Centre for Sustainable Coastal Management (NCSCM), Chennai, as per the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 and about the approval conveyed by the MoEF&CC, GoI, based on the recommendations of the National Coastal Zone Management Authority (NCZMA) vide letter F.No.12-8/2018-IA-III, dated 24.10.2018. Further the Member Secretary informed that the NCSCM has submitted the approved Coastal Zone Management Plan (CZMP) in 117 maps to the Department of Environment on 26.11.2018, after marked the Hazard line in the CZMP and the same has been uploaded in the Website of Department of Environment (<http://www.environment.tn.nic.in>) and ENVIS (<http://tnenvis.nic.in>) on 29.11.2018. Soft copy of the approved CZMP has been sent to all the 13 District Coastal Zone Management Authorities and the Stakeholder Departments for necessary action vide this office letters dated 30.11.2018.

In continuation the Member Secretary also informed to the Members of the Authority that the Department of Environment have already initiated action to prepare the local level CZMP as per the provisions of CRZ Notification 2011, in the village cadastral scale maps, through the Institute of Remote Sensing, Anna University, who is an authorised agency approved by the GoI.

AGENDA ITEM NO.12: Any other subject with the permission of the Chair.

Addl. Agenda Item No.12 (i) : Pipeline for Transfer of Edible Oils from Chennai Port to Storage terminal tank and establishment of storage Transit Terminal at Tondiarpet Village and Taluk, Chennai district and other associated facilities proposed by M/s. KTV Health Food Pvt. Ltd., Chennai - Clearance requested under Post facto clearance for permissible activities

The District Environmental Engineer, Tamil Nadu Pollution Control Board, Chennai District, who is also the Convenor for the District Coastal Zone Management Authority for Chennai District, has informed that no violation was observed, with reference to the CRZ Notification, 2011 except obtaining prior clearance for installation of tanks and laying of pipeline as per CRZ Notification, 2011 as amended, at the project area. Further, the District Environmental Engineer, TNPCB, Chennai District, has inspected the site on 07.12.2018 and stated that the unit was not under operation and the storage tanks and the pipeline laid / provided for the transfer of edible oil from Chennai Port to storage tanks were kept idle.

2) In view of above, the Authority resolved to recommend for the Post facto Clearance for the above Project to the MoEF&CC., GoI, with the above facts.

Addl. Agenda Item No.12 (ii) : Golf Course Project Tamil Nadu by M/s. Sporting Pastime India Limited at Odhiyur hamlet of Mudaliyarkuppam Village, Cheyyur Taluk, Kancheepuram District - To retain in CRZ-III

The Authority resolved to request the District Coastal Zone Management Authority of Kancheepuram District to furnish remarks on the request of the Project Proponent.

2) Further, the Authority resolved to refer the matter to the National Centre for Sustainable Coastal Management (NCSCM), to submit factual report, based on the latest satellite imagery and ground truthing, as prescribed in the CRZ Notification, 2011., for taking further action.

General:

During the meeting, it was pointed out that several beach resorts and hotels are in existence already, along the ECR between Chennai to Mamallapuram and also several projects are under construction. Hence it is emphasized, during the meeting, that a Comprehensive study shall be conducted, on the impact of the presence of the said hotels, beach resorts and other recreational/ tourism activities, on the coastal and marine ecosystem, flora and fauna between Chennai and Mamallapuram, so as to strengthen the monitoring system, developing proper mitigation measures, policy decisions based on the carrying capacity of the coast etc., and the Authority resolved to conduct the said study, through a reputed agency in the said field.

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

Sd./- xxxx
Thiru Shambhu Kallollikar, 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 103rd meeting of the Authority held on 03.01.2019

Sl. No	subject	Action taken
01	Proposed construction of Two Bye-Passes at Kelambakkam and Tiruporur under Phase-II of IT Expressway proposed by M/s. Tamil Nadu Road Development Company Ltd., Chennai	As resolved, Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/2582/2018 dated 10.01.2019
02	Proposed expansion of the LPG import and Storage Terminal by installing additional storage tanks at Plot No.5C, VOC Port Trust, Thoothukudi by M/s. SHV Energy Private Limited, Thoothukudi.	As resolved, the proposal has been sent to Environment and Forests Department, GoTN in Ir. Roc. No. P1 /2923/2018 dated 10.01.2019. The E&F Department, Govt., of TN, forwarded the proposal to MoEF&CC., GoI in letter No. 708/EC-III/2019-1 dated 08.02.2019.
03	Inclusion of an additional product viz., at Liquid Storage Terminal at Biden Place in Chennai Port Limited proposed by M/s. Integrated Service Point Pvt. Ltd., Chennai	As resolved, Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/2546/2018 dated 10.01.2019
04	Clearance under CRZ Notification 2011 for the Mahabalipuram Beach Resort Hotel Project at Madura Devaneri village, Mamallapuram, Thirukazhukundram Taluk, Kancheepuram District, Tamil Nadu by M/s Chandrakala Resort Hotel Limited, Chennai.	As resolved, the proposal has been sent to Environment and Forests Department, GoTN in Ir. Roc. No. P1 /3139/2018 dated 10.01.2019
05	Re-laying of existing Neelankarai Beach Road adjoining the Survey No.83 in Division No.192, Zone 15 of Neelankarai village, Shozhinganallur Taluk, Kancheepuram district for the benefit of the local and general public proposed by the Greater Chennai Corporation for Clearance under CRZ Notification 2011.	As resolved, Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/1758/2018 dated 10.01.2019
06	Temporary Research laboratory for Marine antifouling research at Beach road, Karapad, Thoothukkudi proposed by the Director, Sacred Heart Marine Research Centre, Thoothukkudi	As resolved, Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/946/2017 dated 10.01.2019

Sl. No	subject	Action taken
07	Proposed regularization of a plot due to the sub-division of land falling in Plot No. 20, S.No. 99/9C8B1 of Muttukadu village, Thiruporur Panchayat Union, Tambaram Taluk, kancheepuram district proposed by Thiru Suren Prabhu, T.Nagar, Chennai.	As resolved, Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/2858/2018 dated 10.01.2019
08	Proposed sub-division of land falling in S.No. 223/3, T.S. No. 38, block no. 67 of Old Door No. 7, New Door No. 1, new Beach Road, Thiruvalluravar Nagar, Thiruvanmiyur, Chennai 600 041 proposed by Thiru Ashok Kumar Bisani and Tmt. Rashmi Bisani, Chennai	As resolved, Clearance under CRZ Notification 2011 has been issued for the project in Proc. No. P1/2307/2018 dated 10.01.2019
09	Pipeline for Transfer of Edible Oils from Chennai Port to Storage terminal tank and establishment of storage Transit Terminal at Tondiarpet Village and Taluk, Chennai district and other associated facilities proposed by M/s. KTV Health Food Pvt. Ltd., Chennai - Clearance requested under Post facto clearance for permissible activities.	As resolved, the proposal has been sent to Environment and Forests Department, GoTN in Ir. Roc. No. P1 /1059/2018 dated 10.01.2019. The E&F Department, Govt., of TN, forwarded the proposal to MoEF&CC., GoI in letter No. 709/EC-III/2019-1 dated 08.02.2019.
10	Golf Course Project Tamil Nadu by M/s. Sporting Pastime India Limited at Odhiyur hamlet of Mudaliyarkuppam Village, Cheyyur Taluk, Kancheepuram District - To retain in CRZ-III	As resolved, the proposal has been sent to NCSCM for factual report based on the latest satellite imagery and ground truthing, vide letter No.P1/3194/2018 dated 09.01.2019
11.	Comprehensive study on the impact of the presence of several hotels, beach resorts and other recreational/ tourism activities, on the coastal and marine eco-system, flora and fauna between Chennai and Mamallapuram	Expression of Interest along with tentative cost to carryout the above study has been sought for from the experts, institutions and the replies are awaited.

AGENDA ITEM No.03 Four / Six/ Eight laning of Mamallapuram to Mugaiyur Section of NH-332A from KM. 0.000 to KM 31.000 under Bharathmala Pariyojana, Phase-I (Package-I) in Kancheepuram Dist.by National Highways Authority of India

The District Environmental Engineer, TNPCB, Kancheepuram district has forwarded a proposal for Package-I of NH-332A for the proposed Four / Six/ Eight laning of Mamallapuram to Mugaiyur Section of NH-332A from KM. 0.000 to KM 31.000 under Bharathmala Pariyojana, Phase-I at an estimated project cost of Rs.558 crores. As per the DCZMA Agenda, the proposed project stretch is falling under Kancheepuram District for a length of about 31 KM from KM 0.000 to KM 31.000.

2) The stretch of the road traverses mostly through plain terrain and mixed land use of agriculture, coastal shallow water, salt lands, fallow lands, shrubs/forest, settlements and salt affected water bodies.

3) The construction water requirement of 7,37,884 KL estimated will be met through surface water bodies. The ground water will be used for construction, where surface water is not available or not sustainable for construction activities (saline water) after obtaining prior permission from concerned authorities.

4) As per the DCZMA agenda, it has been reported that adequate number of balancing culverts will be provided to maintain the natural water flow and drainage. The proposed project crossing Palar River at Ch.Km 20.300 near Liayanarkuppam. Also, the road is crossing few creeks, estuaries, lakes and minor streams.

5) A total number of 2 major and 5 minor bridges and 30 box culverts were to be newly constructed. One major and one minor bridge and 5 box culverts were to be retained and widening. Two minor bridges are to be re-habilitated & repaired and 33 box culverts are to be dismantling and reconstructed.

6) The Project Proponent informed that around 3319 trees will be get affected during the construction stage along the stretch. In order to compensate the trees cut, the Project Proponent has indicated that avenue plantation of about 38,472 numbers will be planted along with 27,972 numbers of median plantation.

7) As per the DCZMA agenda, it was reported that the proposed construction of 4/6/8 lane road involves construction of culverts, bridges, junctions, pedestrian/animal underpasses, vehicle underpasses, flyovers, interchanges, side drains etc.,

8) The above proposed project is falling CRZ-IB, CRZ-II, CRZ-III and CRZ-IVB and the DCZMA for Kancheepuram district has recommended the project to SCZMA.

9) As per CRZ Notification 2019, vide para 5.1.2 (i)(a)(c), bridges, road on stilts, public utilities etc., shall be permitted in CRZ-IB, and the above activities are permissible activities vide para 5.3.(i) and para 5.4(a) in respect of CRZ-III and CRZ-IV areas. As per CRZ Notification, 2019 vide Para 7(ii) & (iii), all the development activities or projects in CRZ-I and CRZ-IV areas shall be dealt by the MoEF & CC for clearance.

10) The Authority may consider.

AGENDA ITEM No.04

Four / Six/ Eight laning of Mugaiyur to Marakkanam Section of NH-332A from KM 31.000 to KM. 62.000 under Bharathmala Pariyojana, Phase-I, Package II, in Villupuram & Kancheepuram Dist. by National Highways Authority of India

The District Environmental Engineer, TNPCB, Villupuram district has forwarded a proposal for Package-II of NH-332A for the proposed Four / Six/ Eight laning of Mugaiyur to Marakkanam Section of NH-332A from KM. 31.000 to KM 61.400 under Bharathmala Pariyojana, Phase-I. As per the DCZMA Agenda, the proposed project stretch is falling under Villupuram District for a length of about 6.680 Km from Km 54.720 to Km 61.400. The stretch of 6.680 km length is passing through / near Marakkanam and traversing mostly through plain terrain and mixed land use of agriculture, backwater, salt pan, settlements, shrubs, fallow lands etc.,

2) The proposed road passing through CRZ-IB, CRZ-III and CRZ-IVB area and the proposed construction of 4/6/8 lane road involves construction of culverts, bridges, junctions, underpasses, overpasses, flyovers, interchanges, side drains etc.,

3) There are one major bridge is rehabilitated and repaired and two new major bridges proposed. One minor bridge is rehabilitated and repaired. Twenty box culverts are proposed, one box culvert widened and thirty two slab / pipe culverts reconstructed to box culverts in the project.

4) The DCZMA for Villupuram district has recommended the project to SCZMA with the following conditions.

- a) The Mangrove species in the proposed area has to be recounted by the Project Consultant in the presence of Forests, Fisheries and NHAI officials.
- b) The project proponent shall furnish the co-ordinates of the alternative location proposed for Mangrove afforestation.
- c) The project proponent shall obtain hydraulic discharge details of the creek and drainage canals from PWD, WRO before designing the major bridge / minor bridge and re-designing the existing bridges / culverts so as to enable free flow of water in the creek and drainage canals.

- d) All the existing and proposed pipe culverts shall be converted into box culverts to avoid flooding on the road sides. Box culverts shall be provided wherever required on real time basis if required more than the norms of NHAI (Two culverts per km).
- e) Proper permission has to be obtained from Forest Department and Revenue Department to cut the trees on the proposed project alignment areas.
- f) The debris and other waste material should be properly handled and disposed during the time of construction without hindering the movement of water and aquatic life in estuary and other channels.
- g) The bridge construction work in the creek must be carried out in designated manner without contaminating the creek water.

5) The applicant has submitted compliance report in respect of above views of the DCZMA, Villupuram district which is furnished along with EIA Report. Around 1560 numbers of trees (excluding mangroves) will get affected during construction stage and it is proposed for avenue plantation of about 7568 numbers besides 20,247 numbers of medial plantation.

6) The proposed project is also covered in the Kancheepuram District for a length of 4.198 km. The DCZMA for Kancheepuram district have recommended the proposal in its meeting held on 13.12.2018. The proposed cost of the project is Rs.564.93 crores, and the project is falling in CRZ-IA, IB, CRZ III and CRZ (IV) areas.

7) As per CRZ Notification 2019, vide para 5.1.1. (ii), 5.1.2 (i)(a)(c), bridges, road on stilts, public utilities etc., shall be permitted in CRZ-IA and CRZ-IB respectively and the above activities are permissible activities vide para 5.3.(i) and para 5.4(a) in respect of CRZ-III and CRZ-IV areas. As per CRZ Notification, 2019 vide Para 7(ii) & (iii), all the development activities or projects in CRZ-I and CRZ-IV areas shall be dealt by the MoEF & CC for clearance.

8) The Authority may consider.

AGENDA ITEM NO.05. Development of Rail Corridor at Marine Infrastructure Developer Pvt., Ltd., Port (Kattupalli Port) (MIDPL) at Kattupalli Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu proposed by M/s. MIDPL.

M/s. MIDPL intends to develop a rail corridor for the Port facility for handling port cargoes by connecting the existing port facility to the nearest existing rail connectivity that connects the Kamarajar Port to the Southern Railway Line (Chennai - Gudur). The Proposed rail corridor will be developed and operated by MIDPL and the rail corridor would be developed parallel to the Buckingham canal on the eastern side by replacing the existing Kattupalli road, after the existing bridge (bridge No.15) near Kamarajar Port Limited and a new connectivity road will be developed east of the proposed rail corridor by shifting the KPL Port Boundary to further east. Under the proposed development, Railway yard for receiving and dispatching facility will also be developed within the MIDPL Port.

2) Total area of the project is 31.175 Ha. As per the approved CZMP except part of the new road is falling outside CRZ and all the other facilities are passing through the Mangrove buffer zone in CRZ-I A (Ecologically Sensitive Area), CRZ-I B(the inter-tidal area), CRZ-III (under developed area) and CRZ-IV (water area)., The total length of the railway line with associated infrastructure facilities are indicated in the Annexure. The total number of bridges including pipe/box culverts, steel girder bridges will be 14 in numbers. Total Project cost is Rs. 51.806 Crores.

3) The District Coastal Zone Management Authority for Tiruvallur district have recommend the project for Clearance under CRZ Notification 2019 subject to the important observations viz.,

- (i) the MIDPL shall obtain necessary NOC from the respective units and wherever the gas and oil pipelines to be crossed across this rail corridor project,
- (ii) that necessary clearances from the TIDCO, Kamarajar Port Limited, L&T ship building, TNRDC etc.,,

- (iii) that necessary NoC from the PWD for the construction of pillars to be provided in the Buckingham Canal and Kossathalaiyar rivers.
- (iv) that necessary right of way will be maintained between the corridor route and the Buckingham Canal along the entire route.

4) As per CRZ Notification 2019, vide para 5.1.1 (ii) and 5.3 (i), all the above activities are permissible activities. However vide para 7 (ii) and (iii) of the said CRZ Notification 2019, the above project activities requires Clearance from the MoEF&CC., GoI., as part of the project features are falling in CRZ-I and CRZ-IV areas.

5) The Authority may consider.

AGENDA ITEM No.06

Construction of 1200 slum tenements at T.S.No.1/1 and 3/1, Kargil Nagar, Thiruvottiyur Village, Tiruvallur District under Pradan Mandri Awas Yojana (Housing for all Scheme) by Tamil Nadu Slum Clearance Board

The Tamil Nadu Slum Clearance Board (TNSCB) have proposed to construct 1200 slum tenements consists of 10 blocks (stilt + 10 Floors) and other units like Ration Shops (2 Nos.), Convenient Shops (4 Nos.), Integrated Child Development Service (4 Nos.), Commercial Shops (15 Nos.) and a High School with a total built up area of 54, 525.72 Sq.m at Town Survey Nos. 1/1 & 3/1 of Block No.8, Thiruvottiyur Village & Taluk, Tiruvallur District under Kargil Nagar Scheme.

2) Total Plot area is 59,376 sq.mtr. and the proposed Built up area is 54,525.72 sq.mtr. Height of the structure is 34.4m and FSI ratio is 0.77. Total water requirement for the construction would be around 34 KLD and the fresh water requirement during operation will be 847 KLD. The fresh water will be sourced from CMWSSB. The estimated quantity of Municipal Solid Waste (MSW) generated during operation will be 3243 kg/day and it will be disposed through Authorized recyclers. The 32 KLD of sewage will be treated in 35 KLD of proposed Sewage Treatment Plant. The proposed Green Belt is 9180 Sq.m.

3) The DCZMA for CMDA area has recommended the project to SCZMA with the following conditions.

- a) The FSI to be implemented for the project shall not exceed the FSI exist as on 19.02.1991.
- b) The unit shall obtain necessary planning permission from CMDA for the proposed construction of the project.
- c) The Unit shall obtain Environment Clearance under EIA Notification, 2006 for the construction project as the proposed built up area exceeds 20,000 sq.mts.
- d) No groundwater from Coastal Regulation Zone area shall be extracted for the construction project.
- e) The unit shall provide adequate rainwater harvesting facility to collect the roof water during monsoon.

- f) The unit shall provide STP of adequate capacity with UF and UV disinfection components for the treatment and disposal of domestic sewage and proposed.
 - g) The Unit shall not let out the domestic sewage either treated (or) untreated into the Buckingham Canal.
 - h) The Unit shall obtain in principle approval from CMWSSB for the supply of freshwater and discharge of untreated sewage into the sewer line of Tiruvottiyur sewage treatment plant for further treatment and disposal before commissioning of the project.
 - i) The Unit shall ensure segregation of waste at source, facilitate collection of segregated waste and handover recyclable material either to authorized waster pickers (or) authorized recyclers.
 - j) The biodegradable waste shall be processed, treated and disposed off through composting (or) bio-methanation process within the premises.
 - k) No construction activity shall be started / undertaken by the proponent until obtaining the CRZ clearance from the competent authority.
 - l) The unit shall make marking of No Development Zone area at the site before taken up the construction activity.
- 4) A part of the project area is falling in CRZ-II on the landward of the existing road and all the proposed constructions are falling outside CRZ. The proposed project cost is Rs.167.15 crores.
- 5) As per CRZ Notification 2019, vide para 5.2 (ii) & (iii), construction of buildings for residential purposes is permissible activities and the buildings permitted shall be subject to the local town and country planning regulations as applicable from time to time and the norms for the FSI or FAR should be as on the date of the Notification, 2019. Powers have been delegated to the SCZMA for all the permissible and regulated activities purely falling in CRZ-II and CRZ-III, vide Para 7 (iii) of the said Notification.
- 6) The Authority may consider.

AGENDA ITEM No.07 Construction of tenements at Foreshore Estate in R.S.No.7581, 7582, Block No.48 & 49 of Mylapore Village, Triplicane Taluk, Chennai district by Tamil Nadu Slum Clearance Board

The Tamil Nadu Slum Clearance Board (TNSCB) have proposed to construct 1404 MSB (Multi- Storeyed building) EWS (Economically Weaker Section) tenements which consists of 13 Blocks (G+4 Floors) of 108 dwelling units per block and other facilities like Integrated Child Development Services, Ration Shop located at Foreshore Estate in R.S. No. 7581 and 7582, Block No.48 & 49, Mylapore Village, Mylapore-Triplicane Taluk, Chennai District. The total built up area and the land area of the proposed project is 52,665.75 sq.m and 43,000 sq.m respectively.

2) Height of the structure is 19.20m and FSI ratio is 1.167. Total water requirement for the construction would be around 34 KLD and the fresh water requirement during operation will be 639 KLD. The fresh water will be sourced from CMWSSB. The estimated quantity of Municipal Solid Waste (MSW) generated during operation will be 3655 kg/day and it will be disposed through authorized recyclers. They proposed to construct 600 KLD Sewage Treatment Plant. The treated Grey water is reused for Toilet Flushing (320 KLD), Green Belt Development (23 KLD) and Excess treated water (232 KLD) and sewage generated (320 KLD) is disposed through existing CMWSSB Sewer line. The proposed Green Belt is 6476 Sq.m.

3) The DCZMA for CMDA area has recommended the project to SCZMA with the following conditions.

- a) The FSI to be implemented for the project shall not exceed the FSI exist as on 19.02.1991.
- b) The proponent shall obtain necessary planning permission from CMDA for the proposed construction of the project.
- c) The proponent shall obtain Environment Clearance under EIA Notification, 2006 for the construction project as the proposed built up area exceeds 20,000 sq.mts.

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- d) No groundwater from Coastal Regulation Zone area shall be extracted for the construction project.
 - e) The proponent shall relook the provision of the STP since underground CMWSSB sewer line prevails in the project area.
 - f) The proponent shall not let out the domestic sewage either treated (or) untreated into any water body/ sea.
 - g) The proponent shall obtain in principle approval from CMWSSB for the supply of freshwater and discharge of sewage into the CMWSSB sewer line before commissioning of the project.
 - h) The proponent shall ensure segregation of waste at source, facilitate collection of segregated waste and handover recyclable material either to authorized waster pickers (or) authorized recyclers.
 - i) No construction activity shall be started / undertaken by the proponent until obtaining the CRZ clearance from the competent authority.
- 4) The project area is falling in CRZ-II and the proposed project cost is Rs.152 crores.
- 5) As per CRZ Notification 2019, vide para 5.2 (ii) & (iii), construction of buildings for residential purposes is permissible activities only on the landward side of the existing road or on the landward side of the existing authorized fixed structures and the buildings permitted shall be subject to the local town and country planning regulations as applicable from time to time and the norms for the FSI or FAR should be as on the date of the Notification, 2019. Powers have been delegated to the SCZMA for all the permissible and regulated activities purely falling in CRZ-II and CRZ-III, vide Para 7 (iii) of the said Notification.
- 6) The Authority may consider.

AGENDA ITEM No.08 **Development of Mall at R.S.Nos. 169/1B, 170/2A, 170/2B and 173 Pt of Thiruvottiyur, Chennai District by M/s. Alwarpet Properties Pvt. Ltd., Chennai.6**

M/s. Alwarpet Properties Private Limited have proposed for a commercial development at new S.No.15 (old S.Nos. 169/1B, 170/2A pt., 170/2B pt., and 173 2pt.) of Thiruvottiyur Village, Chennai District with a total plot area of 26,454.63 sq.m and built up area of 1,06,268.18 sq.m. inclusive of FSI, Non FSI and Free of FSI area. The building contains common basement + Lower Ground + Upper Ground + 4 Floors with parking block with 8th floors and terrace parking.

2) The proposed site is abutting 12m wide Thiruvottiyur High Road. The FSI area is 52,399.73 sq.m and non FSI area is 5248.02 sq.m. FSI achieved is 1.99.

3) The total water requirement of 203 KLD will be met from CMWSSB and treated water from Sewage Treatment Plant. The project involves 200 KLD capacity of STP and the sewage of 185 KLD will be treated in STP of Moving Bed Biofilm Reactor (MBBR) Process and the treated sewage will be reused for Heating, Ventilation, and Air Conditioning (HVAC) (49KLD), Greenbelt (14 KLD) and Flushing (113 KLD) maintaining Zero Liquid Discharge.

4) The solid waste of 2.70 Mt/day will be segregated at site and disposed through authorized waste handlers/ recyclers and Greater Chennai Corporation. The site is falling in CRZ-II and the expected cost of the project is Rs.371 crores.

5) The DCZMA for CMDA area has recommended the project to TNSCZMA with the following conditions.

- a) The FSI to be used for the project shall not exceed the FSI as existed on 19.02.1991.
- b) The unit shall obtain the approval of CMDA for the proposed construction.
- c) The unit shall obtain Environmental Clearance under EIA Notification, 2006 for the construction project as the proposed built up area exceeds 20,000 sq.m.
- d) No groundwater from Coastal Regulation Zone area shall be tapped for the housing complex.

- e) The unit shall provide adequate rainwater harvesting facility to collect the roof water during rains.
- f) The unit shall provide STP of adequate capacity with UF and UV disinfection components for the treatment and disposal of domestic sewage.
- g) The unit shall obtain permission approval from CMWSSB for the supply of freshwater and discharge of treated sewage into the sewer line before commissioning of the project.
- h) The unit shall ensure segregation of waste at source, facilitate collection of segregated waste and handover recyclable material to either the authorized waster pickers (or) the authorized recyclers.
- i) The biodegradable waste shall be processed, treated and disposed off through composting (or) bio-methanation process within the premises.

6) As per CRZ Notification 2019, vide para 5.2 (ii) & (iii), construction of buildings for residential purposes is permissible activities only on the landward side of the existing road or on the landward side of the existing authorized fixed structures and the buildings permitted shall be subject to the local town and country planning regulations as applicable from time to time and the norms for the FSI or FAR should be as on the date of the Notification, 2019. Powers have been delegated to the SCZMA for all the permissible and regulated activities purely falling in CRZ-II and CRZ-III, vide Para 7 (iii) of the said Notification.

7) The Authority may consider.

AGENDA ITEM No.09 **Development of Residential Project at R.S.No. 4061 pt., Old S.Nos. 3761, 3762 & 3763 of Tondiarpet Village, Tondiarpet Taluk, Chennai District by M/s. Voora Property Developers Private Limited, Chennai.**

M/s. Voora Property Developers Private Limited have proposed to residential development in Tondiarpet Village, Chennai District with 150 Nos. of Dwelling Units at R.S.No.4061pt, old S.Nos. 3761, 3762 and 3763 of Block No.78 of Tondiarpet Village, Chennai District. The total Plot area of 7097.09 sq.m. and built up area of 25,774.28 sq.m inclusive of FSI, Non FSI and Free of FSI area. Two Nos. of Towers will be constructed with common basement, stilt, Ground and 27 Floors with a Shop at Ground Floor and Parking at 2nd Floor.

2) The proposed site is abutting 21m wide Ennore High Road. The FSI area is 19,766.25 sq.m and non FSI area is 561.50 sq.m with FSI ratio 2.785.

3) The project involves 100 KLD capacity of Sewage Treatment Plant. The sewage of 97 KLD will be treated in 100 KLD STP with extended aeration and treated sewage will be reused for greenbelt (4KLD) and flushing (41 KLD) and remaining water will be sent through the existing CMWSSB sewer.

4) The solid waste of 615 Kg/day will be segregated at site and disposed through authorized waste handlers/ recyclers and Greater Chennai Corporation. The fresh water requirement about 111 KLD, in which about 70 KLD of fresh water is utilized towards domestic purposes will be met through CMWSSB, rainwater harvesting. The site is falling in CRZ-II and the expected cost of the project is Rs.40 crores.

5) The DCZMA for CMDA area has recommended the project to TNSCZMA with the following conditions.

- a) The FSI to be used for the project shall not exceed the FSI as existed on 19.02.1991.
- b) The unit shall obtain the approval of CMDA for the proposed construction.

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- c) The unit shall obtain Environmental Clearance under EIA Notification, 2006 for the construction project as the proposed built up area exceeds 20,000 sq.m.
- d) No groundwater from Coastal Regulation Zone area shall be tapped for the housing complex.
- e) The unit shall provide adequate rainwater harvesting facility to collect the roof water during rains.
- f) The unit shall provide STP of adequate capacity with UF and UV disinfection components for the treatment and disposal of domestic sewage.
- g) The unit shall obtain permission approval from CMWSSB for the supply of freshwater and discharge of treated sewage into the sewer line before commissioning of the project.
- h) The unit shall ensure segregation of waste at source, facilitate collection of segregated waste and handover recyclable material to either the authorized waster pickers (or) the authorized recyclers.

6) As per CRZ Notification 2019, vide para 5.2 (ii) & (iii), construction of buildings for residential purposes is permissible activities only on the landward side of the existing road or on the landward side of the existing authorized fixed structures and the buildings permitted shall be subject to the local town and country planning regulations as applicable from time to time and the norms for the FSI or FAR should be as on the date of the Notification, 2019. Powers have been delegated to the SCZMA for all the permissible and regulated activities purely falling in CRZ-II and CRZ-III, vide Para 7 (iii) of the said Notification.

7) The Authority may consider.

AGENDA ITEM No.10 Construction of Sea view Garden arrangement and reconstruction of existing road along with temporary facilities in Kanyakumari Village, Kanyakumari district by Kanyakumari Town Panchayat

The Kanyakumari Special Grade Town Panchayat proposed to develop Sea View Garden arrangement and reconstruction of existing road along with temporary facilities such as drinking water kiosks, E.toilets, installation of solid waste bins, solar street lights and installation of new container with first aid equipments in Kanyakumari Village, Agasteeswaram Taluk, Kanyakumari district. The proposed sea view garden arrangement comprises of children play area and greenbelt.

2) The sea view garden arrangement is proposed along the beach road will comprises of children play area, gardens with greenbelt of native tree species, shrubs, lawn and turf, walkways and maintenance ways with natural stones. The site area for sea view garden arrangement is 7,500 Sq.m.

3) The existing road will be reconstructed for 960m length and 8.5m width from Siluvai Nagar to Sunset Point in Kanyakumari Town Panchayat.

4) Three nos. of water kiosks will be provided at Beach Road, Near Town Panchayat and inside Poomphuhar Shipping Corporation campus to supply safe, affordable and reliable water. Two numbers of E.Toilets will be provided at Beach Road.

5) In order to improve the source segregation, they proposed to install 20 sets of solid waste bins at various places in Kanyakumari Town Panchayat. They also proposed to fix solar street lights, installation of 20 Nos. of information signage system and installation of first aid container.

6) The water for gardening will be sourced through piped water supplied by the Kanyakumari Town Panchayat and the water required for reconstruction of existing road will be met from tankers supply. The daily water requirement for gardening, drinking water kiosks is about 150 KLD which will be sourced through piped water supply available in the project area. The municipal waste generated in the project site will be collected from in the bins and disposed through Town Panchayat and there will not any discharge of sewage from the proposed project in the land or water. The domestic sewage generated from the project site will be disposed to common sewer line.

7) As per CRZ Notification 2019, vide para 4 (vi) dumping of city or town wastes including construction debris, industrial solid wastes, fly ash for the purpose of land filling is prohibited activities. Further para 4(x), in order to safeguard the aquatic system and marine life, disposal of plastic into the coastal waters shall be prohibited and adequate measures for management and disposal of plastic materials shall be undertaken in the CRZ. Vide Para 5.2 (i) of the said notification (i.e. 5.1.2.c), construction of all necessary associated public utilities are permissible activity. Further, powers have been delegated to the SCZMA for all the permissible and regulated activities purely falling in CRZ-II and CRZ-III, vide Para 7 (iii) of the said Notification.

8) The expected cost of the project is Rs.9.09 crores and the DCZMA for Kanyakumari district is recommended the proposal in their meeting held on 13.11.2018 as the project is only to protect and provide a clean environment to the surrounding community and the present condition of the road is not viable for transportation. The proposed project site is falling purely in CRZ-II, as per the approved CZMP of Tamil Nadu.

9) The Authority may consider.

AGENDA ITEM No.11 Construction of Sea view Garden arrangement along with temporary facilities at Neendakarai 'B' Village of Ganapathipuram Town Panchayat proposed by Ganapathipuram Town Panchayat, Kanyakumari District.

The Ganapathipuram Town Panchayat has proposed to develop a Sea view garden arrangement along with temporary facilities such as drinking water kiosks, E-toilets and installation of information signage system at Neendakarai 'B' Village of Ganapathipuram Town Panchayat, Agasteeswaram Taluk, Kanyakumari district. The total land area available for the project is 800 sq.m at 8°7'23.92" North latitude and 77°21'4.63" East longitude in unsurveyed area below (towards seaside) R.S. No. 868 of Neendakarai 'B' Village, Kanyakumari district.

2) The "sea view garden" will comprise of garden with greenbelt of native tree species, shrubs, lawn and turf, walkways & maintenance ways with natural stones in the project area of 800 sq.m. One No. of Drinking water kiosks and one No. of E.Toilet will be provided with the temporary seating arrangements. 25 Nos. of information signage system about the place is a comprehensive process developed to familiarize people in a physical space and provide directional assistance to get from one point to another point.

3) The daily water requirement for the gardening, drinking water kiosks is estimated to be about 35 KLD which will be sourced through Ganapathipuram Town Panchayat. Adequate number of collection bins, separately for biodegradable and non-biodegradable waste will be provided at necessary locations and will be collected manually on a daily basis and taken over by the Ganapathipuram Town Panchayat.

4) As per CRZ Notification 2019, vide para 4 (vi) dumping of city or town wastes including construction debris, industrial solid wastes, fly ash for the purpose of land filling is prohibited activities. Further para 4(x), in order to safeguard the aquatic system and marine life, disposal of plastic into the coastal waters shall be prohibited and adequate measures for management and disposal of plastic materials shall be undertaken in the CRZ. Vide Para 5.2 (i) of the said notification (i.e. 5.1.2.c), construction of all necessary associated public utilities are permissible activity. Further, powers have been delegated to the SCZMA for all the permissible and regulated activities purely falling in CRZ-II and CRZ-III, vide Para 7 (iii) of the said Notification.

5) The expected cost of the project is Rs.1.84 crores and the DCZMA for Kanyakumari district is recommended the proposal in their meeting held on 13.11.2018 as the project is only to protect and provide a clean environment to the surrounding community. The proposed project site is falling purely in CRZ-II, as per the approved CZMP of Tamil Nadu.

6) The Authority may consider.

AGENDA ITEM No.12 Providing temporary walkways for the differently abled persons at Marina Beach of Triplicane and Mylapore Village, Mylapore Taluk, Chennai District proposed by the Greater Chennai Corporation

The Greater Chennai Corporation has proposed to provide temporary walkways for the differently abled persons at Marina Beach in Block No.61, S.F.No.3373(pt) of Triplicane Village and Block No.20, Mylapore Village of Chennai District. The location for the project is selected based on the possibility for passive surveillance from passers-by vendors to ensure safety of disabled persons and proximity to other allied facilities such as disabled access toilets, disabled parking facilities and disabled access friendly galleries along the beach promenades. The main aim of the project is to provide walkways in order to provide access to the disabled persons to reach the seashore.

2) The location of walkways i.e. behind the Labour statue with the length 380m and the width 3m and behind Gandhi Statue with the length 125m and width 3m. The proposed walkways design is done with the natural material i.e. wooden sleepers and wooden deckers and the rubber mat.

3) The Project Proponent informed that the water required for the construction phase will be sourced through the tanker supply. Adequate number of collection bins, separately for biodegradable and non-biodegradable waste will be provided and the wastes will be collected manually on daily basis by the Greater Chennai Corporation.

4) The project is falling in CRZ-IA due to the presence of turtle nesting grounds as per the CZMP. Hence, the DCZMA for CMDA areas on its meeting held on 24.01.2019 recommended the project subject to the conditions that the temporary walkway should be laid on the existing pathway used by public at present and also subject to the following conditions.

- a) Designated accessible parking areas and ingress / egress access routes should be provided for the differentially abled people to ensure safety precautions.

- b) The conditions of the surrounding beach environment, beach elevation and slope, seasonal tide fluctuations, shoreline change rates, dune system, wave action shall be considered while providing the temporary walkways.
- c) Temporary walkways shall be constructed in accordance to the locally adopted building code to provide for public safety.
- d) The temporary walkways surface shall be durable, stable, firm and slip resistant; and should be regularly maintained to prevent land accumulation that may hinder access.
- e) The Greater Chennai Corporation should regularly inspect the temporary walkways, monitor and maintain the same. The temporary walkways should be dedicated only to disabled persons.
- f) Conspicuous signage shall be provided for the parking areas and temporary walkways of the differentially abled persons.
- g) No ground water from Coastal Regulation Zone area shall be tapped for the project.
- h) No construction activity shall be started / undertaken by the proponent until obtaining the CRZ clearance from the competent authority.

5) As per CRZ Notification 2019, vide para 5.1.1 (iii), construction of roads and roads on stilts, by way of reclamation in CRZ-I areas, shall be permitted only in exceptional cases for defence, strategic purposes and public utilities, subject to a detailed marine or terrestrial or both environmental impact assessment, to be recommended by the concerned CZMA and approved by the MoEF & CC, Govt. of India. As per CRZ Notification, 2019 vide Para 7(ii) & (iii), all the development activities or projects in CRZ-I and CRZ-IV areas shall be dealt by the MoEF & CC for clearance.

6) The Authority may consider.

AGENDA ITEM No.13 Providing temporary walkways for the differently abled persons and garden arrangements at Besant Nagar Beach of Urur Olcott Kuppam Village, Velachery Taluk, Chennai District by the Greater Chennai Corporation

The Greater Chennai Corporation has proposed to provide temporary walkways for the differently abled persons and garden arrangements along with temporary facilities such as drinking water kiosk, first aid kiosk and E.Toilet at S.F.No. 1(pt), 5(pt), 52(pt), 87(pt), 179(pt) at Besant Nagar Beach of Urur Olcott Kuppam Village, Velachery Taluk, Chennai District. The location for the project is selected to develop and improve the Environmental Condition of the region, to provide direct contact with nature and a cleaner environment, to provide opportunities for physical activity and social interaction and to minimize the risk and increase mobility for disabled people of all types.

2) The location of walkways i.e. behind the Ashtalakshmi Kovil for the length of 34m and width of 3m without the use of any kind of foundation. Also, the thick landscaping will be developed on the along the beach road to improve the local environment on the length of 1000m and width of 8m.

3) The temporary facilities such as drinking water kiosk and first aid kiosk are proposed within the area. Two Nos. of drinking water kiosk will be installed and the total fresh water requirement for the project will be 48 KLD which will be sourced through CMWSSB piped water supply. The first aid container will be installed in the proposed area. Two Nos. of E.Toilets will be installed in the proposed area and the sewage from the E. Toilet will be disposed through CMWSSB sewer line the CMWSSB sewer line is existing in the vicinity of the project site.

4) The DCZMA for CMDA areas has recommended the proposal in their meeting held on 24.01.2019 with the following conditions.

- a) Designated accessible parking areas and ingress / egress access routes should be provided for the differentially abled people to ensure safety precautions.
- b) The conditions of the surrounding beach environment, beach elevation and slope, seasonal tide fluctuations, shoreline change rates, dune system, wave action shall be considered while providing the temporary walkways.
- c) Temporary walkways shall be constructed in accordance to the locally adopted building code to provide for public safety.

- d) The temporary walkways surface shall be durable, stable, firm and slip resistant; and should be regularly maintained to prevent land accumulation that may hinder access.
- e) The Greater Chennai Corporation should regularly inspect the temporary walkways, monitor and maintain the same. The temporary walkway should be laid on the existing pathway used by public at present.
- f) Conspicuous signage shall be provided for the parking areas and temporary walkways of the differentially abled persons.
- g) No ground water from Coastal Regulation Zone area shall be tapped for the project.
- h) Bio Medical Waste generated from first aid kiosk should be segregated and disposed properly to the TNPCB authorized disposal agency.
- i) The freshwater requirement for the proposed project should be obtained through CMWSSB water supply only.
- j) No permanent structures using construction materials shall be put up in the gardening arrangements proposed; only grasses, plants, shrubs and trees of indigenous species relevant to the coastal ecology shall be planted in the garden arrangements proposed.
- k) The sewage generated from the e-toilet shall be properly discharged into the CMWSSB sewer line as proposed.
- l) No construction activity shall be started / undertaken by the proponent until obtaining the CRZ clearance from the competent authority.

5) As per CRZ Notification 2019, vide para 4 (vi) dumping of city or town wastes including construction debris, industrial solid wastes, fly ash for the purpose of land filling is prohibited activities. Further para 4(x), in order to safeguard the aquatic system and marine life, disposal of plastic into the coastal waters shall be prohibited and adequate measures for management and disposal of plastic materials shall be undertaken in the CRZ. Vide Para 5.2 (i) of the said notification (i.e. 5.1.2.c), construction of all necessary associated public utilities are permissible activity. Further, powers have been delegated to the SCZMA for all the permissible and regulated activities purely falling in CRZ-II and CRZ-III, vide Para 7 (iii) of the said Notification.

6) The expected cost of the project is Rs.6.12 crores and the DCZMA for CMDA areas have recommended the proposal, as the project is only to improve the environment condition and to provide temporary walkway to the differently abled persons. The proposed project site is falling purely in CRZ-II, as per the HTL demarcation map issued by IRS, Anna University prepared based on the approved CZMP of Tamil Nadu.

7) The Authority may consider.

AGENDA ITEM No.14 Safe Disposal of oil spill waste in storage at Kamarajar Port proposed by Centre for Environment, Health & Safety, Annamalai University

Consequence on the collision of two ships off Ennore Kamarajar Port area on 28.01.2017 and the resultant of oil spill, Environment & Forest Department, Govt. of Tamil Nadu have constituted a Committee under the chairmanship of Dr. B.R. Subramanian, Project Director (Retd.), ICMAM PD, MoES, Chennai to assess the environmental impact and to suggest remedial measures vide G.O (D) No.65, Environment & Forests (EC.3) Department, dated 14.03.2017 and the committee has furnished the report on assessment of impact of Oil spill occurred due to collision of two ships in the sea off Ennore, Chennai.

2) The Government have accepted the Expert Committee report and requested the Director of Environment to take appropriate action on the consolidated recommendations of the Expert Committee vide G.O (3D) No.39, Environment & Forests (EC.3) Department, dated 09 .08.2017. Accordingly, several items of works are being taken up based on the recommendations of the Expert Committee.

3) In respect of work on "Treatment and Disposal of Oil Sea water mixture recovered from the damaged fuel Tank of MT Dawn Kancheepuram ship", the experts from the various Institutions/agencies like NIOT, Annamalai University, ICMAM, NCSCM, IOM & IIT have been requested to send the detailed proposal, based on the recommendations of the Expert Committee.

4) Accordingly, Dr. Nehru Kumar, Professor & Director, Centre for Environment, Health & Safety, Annamalai University has submitted the proposal on " Treatment and disposal of Oil Spill waste in storage at Kamarajar Port" for Rs. 190 Lakhs + taxes vide letter dated 17.01.2019. In the Proposal, it has been described the methods for safe disposal of the oil spill waste in four-fold i.e, i) Pre treatment, ii) salvage of recyclables, iii) Bioremediation & iv) Incineration and the said works will be carried out by CEHS,

Annamalai University in association with LANGAN, USA. The task/schedule of the works are i) Due Diligence, Proximate & Ultimate analysis, ii) Detailed technical Proposal (Inception report), iii) Project Execution including offsite incineration at Treatment, storage, Disposal facility (TSDF) & iv) Post Project Monitoring, on-site Bioremediation yard. The time/Duration of the project is 6 months for all the project activities except Bioremediation, which is to go 4- 5 Years.

5) The Authority may decide, as no other institutions/agencies have come forward to carry out the work.

AGENDA ITEM No.15: Any other subject with the permission of the Chair.

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

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

Additional Agenda No.1: Proposed project of design, Fabrication, Testing and Installation of Solar Multi Effect Distillation System for providing potable water in arid rural areas at Narippaiyur village, Kadaladi Taluk, Ramanathapuram district at S.No. 285/2B4 proposed by M/s. KGDS Renewable Energy Private Limited, Coimbatore

The District Environmental Engineer, TNPCB, Sivagangai District has forwarded a proposal for design, Fabrication, Testing and Installation of Solar Multi Effect Distillation System for providing potable water in arid rural areas at Narippaiyur village, Kadaladi Taluk, Ramanathapuram district at S.No. 285/2B4 proposed by M/s. KGDS Renewable Energy Private Limited, Coimbatore with the recommendation of the DCZMA for Ramanathapuram for clearance under CRZ Notification 2011.

2) The KGDS has informed that this is a R&D project funded by Department of Science and Technology, GoI. The KGDS has developed an indigenous method of concentrating solar energy by the Linear Fresnel Reflector (LFR). A solar collection field with 1440 sq.mt. of mirror area works regularly. On a hot day, with directed solar isolation around 850 W/sq.mt, this field collects 480 KW of heat energy and produces about 640 Kg/h of steam. A peak output of 6000 lts/h or around 36,000 lts/day of desalinated water can be produced. As per the applicant this is the first of its kind indigenous solar thermal desalination plant. This technology show cases the collaborative research work of the NIOT (an autonomous R&D organization under the Ministry of Earth Sciences and KGDS Renewable Energy Private Limited (an in house R&D unit recognized by the Department of Scientific and Industrial Research, GoI).

3) The DCZMA have informed that under the project, it is proposed to produce desalinated water from sea water using solar energy. The unit will take sea water from nearby existing TWAD Board Desalination plant and the capacity of unit is 800 cubic meter per day sea water intake, with the production of 40 cubic meter per day of desalinated water. The reject water (brine) will be combined into TWAD Board reject line and discharged into sea. Total dissolved solids (TDS) in the brine will be in the range of 34000 ppm which is much less than the TDS level from the effluent of existing TWAD Board desalination plant which will be around 50000 ppm. In the absence of solar energy, the unit provided a baby boiler to generate the steam for heating the sea water, a stack of height 30m is provided for the boiler emission.

4) As per the applicant, the project is using only renewable energy for the generation of desalinated water where other methods will use fossil fuel as energy and this is the only project using renewable energy in India and the quality of water is more pure than RO technology (ie., TDS of product will be 2ppm only).

5) As the proposal is the first of its kind indigenous solar thermal desalination plant and the technology show cases the collaborative research work of the NIOT (an autonomous R&D organization under the Ministry of Earth Sciences and KGDS Renewable Energy Private Limited (an in house R&D unit recognized by the Department of Scientific and Industrial Research, GoI) and the applicant has also intended to utilize the existing TWAD Board Desalination plant facilities., the Authority resolved to recommend the proposal to the Ministry of Environment and Forests, Government of India subject to the following specific conditions:

- a) It shall be ensured that the temperature of outfall seawater shall not higher 5° C than that of intake seawater temperature..
- b) The proponent should ensure that the saline water shall not gain access into ground while conveying or processing the sea water.
- c) There should not be any extraction of ground water in CRZ.

- d) Natural landforms in the coastal zone like sand dunes should not be altered or leveled.
- e) Necessary consents from TNPCB shall be obtained.

6) However, the applicant in the representation dated 20.02.2019 have indicated that their project area was falling in CRZ-I as per the CZMP approved by Govt. of India during 1996. However, as per the CZMP approved during 2018 based on the provisions of the CRZ Notification, 2011, the site is falling in CRZ-III. Further, the applicant stated that the powers have been delegated to TNSCZMA to clear all proposals which are falling in CRZ-II and CRZ-III as per the CRZ Notification, 2019. Hence, the applicant requested to issue clearance for the above proposal. The applicant has not indicated the status of the existing application at MoEF & CC, Govt. of India.

7) The applicant has made changes in the above proposals and indicated that in Phase-I, 20,000 lts./day of drinking water will be produced and on the successful completion, the system will be scaled up to produce 2,00,000 lts./day of the drinking water. In this connection, the applicant has informed that the salinity of the rejected sea water will be 56,000 ppm whereas this would have been typically 58,000 ppm for the normal seawater RO Plant.

8) Now, the project proponent has requested clearance under CRZ Notification, 2019, vide para 5.3 (i) i.e. 5.1.2(xviii), setting of Desalination Plant and associated facilities are permissible activity in CRZ-III. The brine of the R.O Plant is proposed to discharge into the TWAD Board Discharge outlet, which in turn is letout into the sea which is CRZ-IV. However, the applicant informed that the Total dissolved solids (TDS) in the brine will be much less than the TDS level from the effluent of existing TWAD Board desalination plant as stated above.

.04.

9) As per CRZ Notification, 2019, vide para 5.3 (i) i.e. 5.1.2(xviii), setting of Desalination Plant and associated facilities are permissible activity in CRZ-III. Powers have been delegated to the SCZMA for all the permissible and regulated activities purely falling in CRZ-II and CRZ-III, vide Para 7 (iii) of the said Notification. However vide para 7 (ii) and (iii) of the said CRZ Notification 2019, the project activities requires Clearance from the MoEF&CC., GoI., if the part of the project features are falling in CRZ-I and CRZ-IV areas.

10) The Authority may consider.

Addl. Agenda-2

Proposed Doctor's Beach Project of Residential Plots in S.F.Nos. at S.No. 106/2, 106/3, 106/4, 106/5, 106/6, 108/1, 108/2A(p), 108/2B, 108/2C1(p), 108/2C2, 109/1, 109/2, 109/3(p), 109/4, 110/1(p), 110/2(p), 110/3, 110/4, 110/5, 111/1, 111/2, 111/3 and 111/4 at Marakkanam North Village (Thalangadu Village), Marakkanam Taluk, Villupuram district by M/s. DS Propertiei, Chennai.40

M/s. DS Propertiei, Chennai.40 have sent a proposal for the proposed Doctor's Beach Project of Residential Plots in S.F.Nos. at S.No. 106/2, 106/3, 106/4, 106/5, 106/6, 108/1, 108/2A(p), 108/2B, 108/2C1(p), 108/2C2, 109/1, 109/2, 109/3(p), 109/4, 110/1(p), 110/2(p), 110/3, 110/4, 110/5, 111/1, 111/2, 111/3 and 111/4 at Marakkanam North Village (Thalangadu Village), Marakkanam Taluk, Villupuram district.

2) In the minutes of the DCZMA meeting, it has been indicated that the project proponent proposed to develop 545 Nos. of housing plots for residential purposes. The entire layout is on the landward side of the existing earthen burial ground road available for public use, connecting the Vasavankuppam Village and burial ground of Vasavankuppam Village.

3) The project area at S.Nos. 108/1, 108/2A(p), 108/2B, 108/2C1(p), 108/2C2, 109/1, 109/2, 109/3(p), 109/4, 110/1(p), 110/2(p), 110/3, 110/4 and 110/5 is falling in CRZ-II comprising in 1,01,625 Sq.mts. and the area at S.Nos. 106/2, 106/3, 106/4, 106/5, 106/6, 111/1, 111/2, 111/3 & 111/4 is falling outside CRZ. The minimum plot size is 85 sq.mtr and the maximum size is 434 sq.mtr. The proposed cost of the project is Rs.2.50 crores.

4) The DCZMA for Villupuram District has recommended the project in their meeting held on 21.02.2019 to the SCZMA with the following conditions.

- a) The project proponent shall obtain Layout Plan approval from DTCP after getting CRZ clearance from State Level Impact Assessment Authority, Chennai.

.2.

- b) The Unit shall provide adequate common sewage treatment plant along with conveyance arrangements to transport sewage from residence to sewage treatment plant for the treatment and disposal of sewage generated from the residential houses and the treated sewage is utilized for gardening purposes.
- c) The unit shall provide solid waste management disposal facility for the collection, transportation, treatment and disposal of Municipal Solid waste generated from the residential houses in scientific manner.
- d) The unit shall ensure that there shall not be any discharge of treated / untreated sewage and municipal solid waste into outside of the premises and nearby sea.

5) As per CRZ Notification 2019, vide para 5.2 (ii) & (iii), construction of buildings for residential purposes is permissible activities only on the landward side of the existing road or on the landward side of the existing authorized fixed structures and the buildings permitted shall be subject to the local town and country planning regulations as applicable from time to time and the norms for the FSI or FAR should be as on the date of the Notification, 2019. Powers have been delegated to the SCZMA for all the permissible and regulated activities purely falling in CRZ-II and CRZ-III, vide Para 7 (iii) of the said Notification. Further, as per para 7(vi) of the CRZ Notification, 2019, construction self-dwelling units to a total built up area above 300 square meters should be sent to the concerned State Coastal Zone Management Authority, for clearance under CRZ Notification, 2019.

6) The Authority may consider.

Addl. Agenda-3: Proposed Integrated Road Over Bridge in-lieu-of existing LC No.2A at Ennore High Road and LC No.2B at Manali Road across Buckingham Canal by Greater Chennai Corporation.

The Superintending Engineer, Bridges Department, Greater Chennai Corporation has proposed to construction an Integrated Road Over Bridge in-lieu-of existing railway level crossings at LC No.2A in Ennore High Road and LC 2B in Manali High Road across Buckingham Canal. The frequent closure of railway gates at two railway level crossings 2A and 2B resulted in pilling up of vehicles on both the sides of the level crossing. The total length of the integrated ROB is 1704m in which 778m is in Ennore High Road and 926m is in Manali Road.

2) The Manali Road is crossing Buckingham Canal, around 120m before LC No.2B, for which Minor Bridge is available. The proposed ROB along Manali road is crossing Buckingham Canal, around 6m above the existing bridge level and the proposed project falls under CRZ-II as per the approved CZMP. The project cost for the CRZ area is Rs.4.95 crores.

3) The proposed ROB on Manali Road starts off from ROB of Ennore High Road at IOCL junction, cross LC No.2B with 5.525m vertical clearance under the bridge at railway lines and ends 50m before the existing causeway across a canal in Manali Road. Single span of 16.654m, 13 spans of 30m, 1 span of 28m, 1 span of 45m at Buckingham canal crossing, 2 spans of 30m, 1 span of 29m, 1 span of 17.4m, 1 Railway span of 37.4m at LC No.2B, 1 span of 17.4m, 5 spans of 30m and solid fill portion of 130m length at the end are proposed. They stated that the Buckingham Canal is not disturbed by the proposal.

4) The LC No.2A is 400m away from the Buckingham Canal (in Non-CRZ area) whereas LC No.2B is 120m from the Buckingham Canal (in CRZ area). 100m/width of the creek either side of the Buckingham Canal is designated as CRZ-II area.

.2.

5) The DCZMA for CMDA areas in their meeting held on 24.01.2019 recommended the project subject to the following conditions.

- a) The construction of ROB shall be carried out such that it does not disturb the flow in the Buckingham Canal.
- b) No cutting of trees shall be envisaged during implementation of the project.
- c) Necessary green belt of native species shall be developed along the roads of the project area to improve the air environment.
- d) The project shall adhere to the construction and demolition waste disposal and management Rules, 2018.
- e) No ground water from CRZ area shall be tapped for the project.
- f) No construction activity shall be started / undertaken by the proponent until obtaining the CRZ Clearance from the competent Authority.
- g) The proponent shall comply with the Environmental Management Plan both during construction and operational phases.

6) As per CRZ Notification 2019, vide para 5.2 (i) i.e. 5.1.2 (i)(a)(c), bridges, road on stilts, public utilities etc., shall be permitted in CRZ-II area. Powers have been delegated to the SCZMA for all the permissible and regulated activities purely falling in CRZ-II and CRZ-III, vide Para 7 (iii) of the said Notification.

7) The Authority may consider.

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

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

**MINUTES OF THE 104th MEETING OF THE TAMIL NADU STATE COASTAL ZONE
MANAGEMENT AUTHORITY (TNSCZMA) HELD ON 27.02.2019**

AGENDA ITEM NO.01: Confirmation of the minutes of the 103rd meeting of the Tamil Nadu State Coastal Zone Management Authority held on 03.01.2019.

The minutes of the 103rd meeting of the Tamil Nadu State Coastal Zone Management Authority (TNSCZMA) held on 03.01.2019, communicated, to the Members of the Authority, in Letter No.P1/2200/2018 dated 10.01.2019 of the Director of Environment was confirmed.

AGENDA ITEM NO.02: The action taken on the decisions of 103rd meeting of the Authority held on 03.01.2019.

The Member Secretary briefed the Members about the action taken by the Department of Environment on the decisions taken during the 103rd meeting of the Tamil Nadu State Coastal Zone Management authority held on 03.01.2019. The Authority noted the action taken.

The Authority resolved to issue Clearance under CRZ Notification 2019, for the Mahabalipuram Beach Resort Hotel Project at Madura Devaneri village, Mamallapuram, Thirukazhukundram Taluk, Kancheepuram District, Tamil Nadu proposed by M/s Chandrakala Resort Hotel Limited, Chennai subject to the conditions stipulated in the 103rd meeting of the Authority held on 03.01.2019.

The Authority requested the Member Secretary, TNSCZMA that the ToR in respect of the Comprehensive study on the impact of the presence of several hotels, beach resorts and other recreational/tourism activities, on the coastal and marine eco-system between Chennai and Mamallapuram shall be finalized in consultation with the expert Members of the Authority.

AGENDA ITEM No.03

Four / Six/ Eight laning of Mamallapuram to Mugaiyur Section of NH-332A from KM. 0.000 to KM 31.000 under Bharathmala Pariyojana, Phase-I (Package-I) in Kancheepuram Dist.by National Highways Authority of India and

AGENDA ITEM No.04

Four / Six/ Eight laning of Mugaiyur to Marakkanam Section of NH-332A from KM 31.000 to KM. 62.000 under Bharathmala Pariyojana, Phase-I, Package II, in Villupuram & Kancheepuram Dist. by National Highways Authority of India

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

- a) The Mangrove species in the proposed area has to be assessed by the Project Consultant in the presence of Forests, Fisheries and NHAI officials. The trees of native species, littoral species should be planted.
- b) The project proponent shall furnish the co-ordinates of the alternative location proposed for Mangrove afforestation.
- c) The project proponent shall obtain hydraulic discharge details of the creek and drainage canals from PWD, WRO before designing the major bridge / minor bridge and re-designing the existing bridges / culverts so as to enable free flow of water in the creek and drainage canals.
- d) All the existing and proposed pipe culverts shall be converted into box culverts to avoid flooding on the road sides. Box culverts shall be provided wherever required on real time basis if required more than the norms of NHAI (Two culverts per km). The maximum flood level is to be obtained from the concerned Government agencies and if not available, the same should be assessed with latest techniques and the Culverts shall be constructed accordingly.
- e) The Bridges should not affect the High Tide and Low Tide hydraulic flow of water. The quantity of discharge of water with reference to the Bridge should taken into consider for the designing of the bridges. To ensure the free flow of water, the big bridges shall be designed on the concept of "Road on Stilts".

.3.

- f) The Pier cap should be below the bed level.
- g) Proper permission has to be obtained from Forest Department and Revenue Department to cut the trees on the proposed project alignment areas.
- h) The debris and other waste material should be properly handled and disposed during the time of construction without hindering the movement of water and aquatic life in estuary and other channels.
- i) No drawal of ground water shall be abstracted and the surface water shall be ensured, with the prior approval of PWD.
- j) The bridge construction work in the creek must be carried out in designated manner without contaminating the creek water.
- k) Necessary NOC/Clearances shall be obtained from the PWD/ Revenue / Salt Department, if the alignment is falling on their land.
- l) The CER component of 0.5% shall be paid to the Environment Management Agency of Tamil Nadu (EMAT) so as to take eco-restoration activities.
- m) The construction and demolition handling rules shall be adhered.
- n) The Project Proponent shall make an extensive study on the impact of the project to the nearby Kazhuveli Wetland, adjacent to the project site and ensure that there will be no adverse impact.
- o) The quality of work should be ensured and necessary facilities shall be provided to inspect the project area by a Committee, comprising the Members of the TNSCZMA, TNPCB and the officers of the Department of Environment, during the construction phase.
- p) The Project Proponent should ensure that the Maintenance Contract executed with the contractor should include the maintenance of aesthetic beauty of the road, survival of the trees, safety of the road, preventing encroachment etc., The possibilities of a third party assessment shall be explored, on the maintenance of the road, as per the contract agreement.

.4.

- q) Suitable measures shall be evolved to control the pollution and noise levels, during the construction and post-construction phases and ensure the installation of online monitoring system.
- r) Ensure that the R & R (Rehabilitation & Resettlement) activities are as per norms.

AGENDA ITEM NO.05. Development of Rail Corridor at Marine Infrastructure Developer Pvt., Ltd., Port (Kattupalli Port) (MIDPL) at Kattupalli Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu proposed by M/s. MIDPL.

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

- a) the MIDPL shall obtain necessary NOC from the respective units and wherever the gas and oil pipelines to be crossed across this rail corridor project.
- b) that necessary clearances from the TIDCO, Kamarajar Port Limited, L&T ship building, TNRDC etc., shall be obtained.
- c) that necessary NoC from the PWD for the construction of pillars to be provided in the Buckingham Canal and Kossathalaiyar rivers.
- d) that necessary right of way will be maintained between the corridor route and the Buckingham Canal along the entire route.
- e) that the ownership of the project area should be executed before the commencement of the project by way of legal documents such as lease agreement/ sale deed/ contract agreement etc.,
- f) The restoration works of Mangroves in the Ennore Creek may be entrusted to Forest Department.
- g) The constructions of the project should not affect the free flow of water in the river, backwater available at the project area, for which the proposed bridges for the railway track and the road in the CRZ IB and CRZ IV B should be designed in conformity with the provisions of vide para 5.1.2 and 5.4 of CRZ Notification 2019.

.5.

- h) The stability of the steel girder bridge over Buckingham canal for crossing proposed rail corridor shall be ensured and the construction should be based on the latest, acceptable standards.
- i) The debris and other waste material should be properly handled and disposed during the time of construction without hindering the movement of water and aquatic life at the project area and also should not affect the fishing activities.
- j) The quality of work should be ensured and necessary facilities shall be provided to inspect the project area by a Committee, comprising the Members of the TNSCZMA, TNPCB and the officers of the Department of Environment, during the construction phase.
- k) The Project Proponent should ensure that the Maintenance Contract executed with the contractor should include the maintenance of aesthetic beauty of the road, survival of the trees, safety of the road, preventing encroachment etc., The possibilities of a third party assessment shall be explored, on the maintenance of the road/ railway corridor, as per the contract agreement.
- l) Suitable measures shall be evolved to control the pollution and noise levels, during the construction and post-construction phases and ensure the installation of online monitoring system.

AGENDA ITEM No.06 Construction of 1200 slum tenements at T.S.No.1/1 and 3/1, Kargil Nagar, Thiruvottiyur Village, Tiruvallur District under Pradan Mandri Awas Yojana (Housing for all Scheme) by Tamil Nadu Slum Clearance Board

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

- a) The FSI to be implemented for the project shall not exceed the FSI exist as on 18.01.2019.
- b) The unit shall obtain necessary planning permission from CMDA for the proposed construction of the project.
- c) The Unit shall obtain Environment Clearance under EIA Notification, 2006 for the construction project as the proposed built up area exceeds 20,000 sq.mts.

.6.

- d) No groundwater from Coastal Regulation Zone area shall be extracted for the construction project.
- e) The unit shall provide adequate rainwater harvesting facility to collect the roof water during monsoon.
- f) The unit shall provide STP of adequate capacity with UF and UV disinfection components for the treatment and disposal of domestic sewage and proposed. The Project Proponent should ensure budget allocations for the maintenance of the facilities and stipulated responsibilities to the executors.
- g) The Unit shall not let out the domestic sewage untreated into the Buckingham Canal / CRZ areas / water bodies.
- h) The Unit shall obtain in principle approval from CMWSSB for the supply of freshwater and discharge of untreated sewage into the sewer line before commissioning of the project.
- i) The Unit shall ensure segregation of waste at source; facilitate collection of segregated waste and handover recyclable material either to authorized waste pickers (or) authorized recyclers.
- j) The biodegradable waste shall be processed, treated and disposed off through composting (or) bio-methanation process within the premises.
- k) The unit shall make marking of No Development Zone area at the site before taken up the construction activity.
- l) The unit should not construct any additional constructions without the prior clearance from the Competent Authorities in CRZ or Non-CRZ areas.

AGENDA ITEM No.07

Construction of tenements at Foreshore Estate in R.S.No.7581, 7582, Block No.48 & 49 of Mylapore Village, Triplicane Taluk, Chennai district by Tamil Nadu Slum Clearance Board

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

- a) The FSI to be implemented for the project shall not exceed the FSI exist as on 18.01.2019.

.7.

- b) The unit shall obtain necessary planning permission from CMDA for the proposed construction of the project.
- c) The Unit shall obtain Environment Clearance under EIA Notification, 2006 for the construction project as the proposed built up area exceeds 20,000 sq.mts.
- d) No groundwater from Coastal Regulation Zone area shall be extracted for the construction project.
- e) The unit shall provide adequate rainwater harvesting facility to collect the roof water during monsoon.
- f) The unit shall provide STP of adequate capacity with UF and UV disinfection components for the treatment and disposal of domestic sewage and proposed. The Project Proponent should ensure budget allocations for the maintenance of the facilities and stipulated responsibilities to the executors.
- g) The Unit shall not let out the domestic sewage untreated into the Buckingham Canal / CRZ areas/ water-bodies.
- h) The Unit shall obtain in principle approval from CMWSSB for the supply of freshwater and discharge of untreated sewage into the sewer line before commissioning of the project.
- i) The Unit shall ensure segregation of waste at source, facilitate collection of segregated waste and handover recyclable material either to authorized waster pickers (or) authorized recyclers.
- j) The biodegradable waste shall be processed, treated and disposed off through composting (or) bio-methanation process within the premises.
- k) The unit shall make marking of No Development Zone area at the site before taken up the construction activity.
- l) The unit should not construct any additional constructions without the prior clearance from the Competent Authorities in CRZ or Non-CRZ areas.

AGENDA ITEM No.08

Development of Mall at R.S.Nos. 169/1B, 170/2A, 170/2B and 173 Pt of Thiruvottiyur, Chennai District by M/s. Alwarpet Properties Pvt. Ltd., Chennai.

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

- a) The FSI to be implemented for the project shall not exceed the FSI exist as on 18.01.2019 and the maximum possibilities of green building concepts shall be ensured. Further the disaster risk aspects should be considered in designing the constructions.
- b) Soil test should be conducted before the constructions through TNPCB and structural designs should be stipulated accordingly.
- c) The unit shall obtain necessary planning permission from CMDA for the proposed construction of the project.
- d) The Unit shall obtain Environment Clearance under EIA Notification, 2006 for the construction project as the proposed built up area exceeds 20,000 sq.mts.
- e) No groundwater from Coastal Regulation Zone area shall be extracted for the construction project.
- f) The unit shall provide adequate rainwater harvesting facility to collect the roof water during monsoon.
- g) The unit shall provide STP of adequate capacity with UF and UV disinfection components for the treatment and disposal of domestic sewage and proposed. The Project Proponent should ensure budget allocations for the maintenance of the facilities and stipulated responsibilities to the executors.
- h) The Unit shall not let out the domestic sewage either treated (or) untreated into the Buckingham Canal / water-bodies / CRZ areas.
- i) the Unit shall obtain in principle approval from CMWSSB for the supply of freshwater.
- j) The Unit shall ensure segregation of waste at source, facilitate collection of segregated waste and handover recyclable material either to authorized waster pickers (or) authorized recyclers.

- k) The biodegradable waste shall be processed, treated and disposed off through composting (or) bio-methanation process within the premises.
- l) The unit should not construct any additional constructions without the prior clearance from the Competent Authorities in CRZ areas.

AGENDA ITEM No.09 **Development of Residential Project at R.S.No. 4061 pt., Old S.Nos. 3761, 3762 & 3763 of Tondiarpet Village, Tondiarpet Taluk, Chennai District by M/s. Voora Property Developers Private Limited, Chennai.**

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

- a) The FSI to be implemented for the project shall not exceed the FSI exist as on 18.01.2019 and the maximum possibilities of green building concepts shall be ensured. Further the disaster risk aspects should be considered in designing the constructions.
- b) Soil test should be conducted before the constructions through TNPCB and structural designs should be stipulated accordingly.
- c) The unit shall obtain necessary planning permission from CMDA for the proposed construction of the project.
- d) The Unit shall obtain Environment Clearance under EIA Notification, 2006 for the construction project as the proposed built up area exceeds 20,000 sq.mts.
- e) No groundwater from Coastal Regulation Zone area shall be extracted for the construction project.
- f) The unit shall provide adequate rainwater harvesting facility to collect the roof water during monsoon.
- g) The unit shall provide STP of adequate capacity with UF and UV disinfection components for the treatment and disposal of domestic sewage and proposed. The Project Proponent should ensure budget allocations for the maintenance of the facilities and stipulated responsibilities to the executors.
- h) The Unit shall not let out the domestic sewage either treated (or) untreated into the Buckingham Canal / water-bodies / CRZ areas.

- i) the Unit shall obtain in principle approval from CMWSSB for the supply of freshwater.
- j) The Unit shall ensure segregation of waste at source, facilitate collection of segregated waste and handover recyclable material either to authorized waster pickers (or) authorized recyclers.
- k) The biodegradable waste shall be processed, treated and disposed off through composting (or) bio-methanation process within the premises.
- l) The unit should not construct any additional constructions without the prior clearance from the Competent Authorities in CRZ areas.

AGENDA ITEM No.10 Construction of Sea view Garden arrangement and reconstruction of existing road along with temporary facilities in Kanykumari Village, Kanyakumari district by Kanyakuari Town Panchayat.

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

- a) No ground water from Coastal Regulation Zone area shall be tapped for the project and the freshwater requirement for the proposed project should be ensured by the local body.
- b) No permanent structures using construction materials shall be put up in the gardening arrangements proposed; only grasses, plants, shrubs and trees of indigenous species relevant to the coastal ecology shall be planted in the garden arrangements proposed.
- c) The sewage generated from the e-toilet shall be properly discharged.
- d) The solid wastes generated during the relaying of the road shall be disposed off safely and the activity shall comply with the Construction and Demolition Waste Management Rules, 2016.
- e) Dust generated during relaying of the road shall be mitigated by sprinkling of water.

- f) The relaying activity shall adhere to the ambient noise level standards.
- g) The local body should ensure adequate budget provisions for the maintenance of the park every year and the area should be maintained aesthetically.

AGENDA ITEM No.11 Construction of Sea view Garden arrangement along with temporary facilities at Neendakarai 'B' Village of Ganapathipuram Town Panchayat proposed by Ganapathipuram Town Panchayat, Kanyakumari District.

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

- a) No ground water from Coastal Regulation Zone area shall be tapped for the project and the freshwater requirement for the proposed project should be ensured by the local body.
- b) No permanent structures using construction materials shall be put up in the gardening arrangements proposed; only grasses, plants, shrubs and trees of indigenous species relevant to the coastal ecology shall be planted in the garden arrangements proposed.
- c) The sewage generated from the e-toilet shall be properly discharged.
- d) The solid wastes generated during the construction phase shall be disposed off safely and the activity shall comply with the Construction and Demolition Waste Management Rules, 2016.
- e) Dust generated during the construction phase shall be mitigated by sprinkling of water.
- f) The local body should ensure adequate budget provisions for the maintenance of the park every year and the area should be maintained aesthetically.

AGENDA ITEM No.12 Providing temporary walkways for the differently abled persons at Marina Beach of Triplicane and Mylapore Village, Mylapore Taluk, Chennai District proposed by the Greater Chennai Corporation

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

- a) Designated accessible parking areas and ingress / egress access routes should be provided for the differentially abled people to ensure safety precautions.
- b) The conditions of the surrounding beach environment, beach elevation and slope, seasonal tide fluctuations, shoreline change rates, dune system, wave action shall be considered while providing the temporary walkways.
- c) Temporary walkways shall be constructed in accordance to the locally adopted building code to provide for public safety.
- d) The temporary walkways surface shall be durable, stable, firm and slip resistant; and should be regularly maintained to prevent land accumulation that may hinder access.
- e) The Greater Chennai Corporation should regularly inspect the temporary walkways, monitor and maintain the same. The temporary walkways should be dedicated only to disabled persons.
- f) Conspicuous signage shall be provided for the parking areas and temporary walkways of the differentially abled persons.
- g) No ground water from Coastal Regulation Zone area shall be tapped for the project.
- h) No construction activity shall be started / undertaken by the proponent until obtaining the CRZ clearance from the competent authority.
- i) The local body should ensure adequate budget provisions for the maintenance of the park and walkway every year and the area should be maintained aesthetically.

AGENDA ITEM No.13 **Providing temporary walkways for the differently abled persons and garden arrangements at Besant Nagar Beach of Urur Olcott Kuppam Village, Velachery Taluk, Chennai District by the Greater Chennai Corporation**

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

- a) Designated accessible parking areas and ingress / egress access routes should be provided for the differentially abled people to ensure safety precautions.
- b) The conditions of the surrounding beach environment, beach elevation and slope, seasonal tide fluctuations, shoreline change rates, dune system, wave action shall be considered while providing the temporary walkways.
- c) Temporary walkways shall be constructed in accordance to the locally adopted building code to provide for public safety.
- d) The temporary walkways surface shall be durable, stable, firm and slip resistant; and should be regularly maintained to prevents land accumulation that may hinder access.
- e) The Greater Chennai Corporation should regularly inspect the temporary walkways, monitor and maintain the same. The temporary walkway should be laid on the existing pathway used by public at present.
- f) Conspicuous signage shall be provided for the parking areas and temporary walkways of the differentially abled persons.
- g) No ground water from Coastal Regulation Zone area shall be tapped for the project.
- h) Bio Medical Waste generated from first aid kiosk should be segregated and disposed properly to the TNPCB authorized disposal agency.
- i) The freshwater requirement for the proposed project should be obtained through CMWSSB water supply only.
- j) There should not be any activity in the eco-sensitive CRZ-I (A) area viz., Turtle nesting ground.

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- k) No permanent structures using construction materials shall be put up in the gardening arrangements proposed; only grasses, plants, shrubs and trees of indigenous species relevant to the coastal ecology shall be planted in the garden arrangements proposed.
- l) The sewage generated from the e-toilet shall be properly discharged into the CMWSSB sewer line as proposed.
- m) The local body should ensure adequate budget provisions for the maintenance of the walk-ways every year and the area should be maintained aesthetically.

AGENDA ITEM No.14 Safe Disposal of oil spill waste in storage at Kamarajar Port proposed by Centre for Environment, Health & Safety, Annamalai University

The Authority resolved to get the opinion of the Expert Member of the Authority Dr. R. Venkatesan, Scientist "G" , NIOT, Ministry of Earth Sciences, GoI and instruct the Member Secretary, TNSCZMA to follow the Tender formalities, while entrusting the work, as the proposal involves financial commitment of around 2.00 crores.

ADDL. AGENDA

ITEM No. 01. Proposed project of design, Fabrication, Testing and Installation of Solar Multi Effect Distillation System for providing potable water in arid rural areas at Narippaiyur village, Kadaladi Taluk, Ramanathapuram district at S.No. 285/2B4 proposed by M/s. KGDS Renewable Energy Private Limited, Coimbatore

The proposed activities are falling only on the landward side in CRZ-III area, as per the approved CZMP based on the CRZ Notification 2019. The meager drawal of sea water and the discharge of brine are passing through the existing TWAD Board Desalination Plants. The Total dissolved solids (TDS) in the brine will be much less than the TDS level from the effluent of existing TWAD Board desalination. Further this proposal is of its first kind indigenous solar thermal desalination plant. The Authority, after considering the above aspects, resolved to clear the proposal subject to the following specific conditions.

- a) It shall be ensured that the temperature of outfall seawater shall not higher 5° C than that of intake seawater temperature.
- b) The proponent should ensure that the saline water shall not gain access into ground while conveying or processing the sea water.
- c) There should not be any extraction of ground water in CRZ.
- d) Natural landforms in the coastal zone like sand dunes should not be altered or leveled.
- e) Necessary consents from TNPCB shall be obtained.

ADDL. AGENDA

ITEM No. 02. Proposed Doctor's Beach Project of Residential Plots in S.F.Nos. at S.No. 106/2, 106/3, 106/4, 106/5, 106/6, 108/1, 108/2A(p), 108/2B, 108/2C1(p), 108/2C2, 109/1, 109/2, 109/3(p), 109/4, 110/1(p), 110/2(p), 110/3, 110/4, 110/5, 111/1, 111/2, 111/3 and 111/4 at Marakkanam North Village (Thalangadu Village), Marakkanam Taluk, Villupuram district by M/s. DS Propertiei, Chennai.40

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

- a) Copy of FMB sketch to show the availability of the existing road in between the project site and the sea shall be furnished.
- b) The Unit shall provide adequate common sewage treatment plant along with conveyance arrangements to transport sewage from residence to sewage treatment plant for the treatment and disposal of sewage generated from the residential houses and the treated sewage is utilized for gardening purposes. The details of facilities and the site wherein such facilities will be provided shall be incorporated in the layout plan and furnish the documents for scrutiny.
- c) The unit shall provide solid waste management disposal facility for the collection, transportation, treatment and disposal of Municipal Solid waste generated from the residential houses in scientific manner and the details of the same may be furnished.
- d) Commitment letter for the supply of fresh water from the local body should be furnished.

ADDL. AGENDA

ITEM No. 03. Proposed Integrated Road Over Bridge in-lieu-of existing LC No.2A at Ennore High Road and LC No.2B at Manali Road across Buckingham Canal by Greater Chennai Corporation.

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

- a) The construction of Road Over Bridge shall be carried out such that it does not disturb the flow in the Buckingham Canal and the piers should be constructed outside the High Tide Line.
- b) No cutting of trees shall be envisaged during implementation of the project.
- c) Necessary green belt of native species shall be developed along the roads of the project area to improve the air environment.
- d) The project shall adhere to the construction and demolition waste disposal and management Rules, 2018.
- e) No ground water from CRZ area shall be tapped for the project.
- f) No construction activity shall be started / undertaken by the proponent until obtaining the CRZ Clearance from the competent Authority.
- g) The proponent shall comply with the Environmental Management Plan both during construction and operational phases.
- h) There should not be any constructions in the CRZ - IV areas (i.e., inter-tidal or water area of the Buckingham Canal).
- i) The engineering cross section may be submitted.

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

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