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Save – Rain Water"

WATER RESOURCES DEPARTMENT

From	To
Er.K.SELVAKUMAR, M.E., Executive Engineer, W.R.D., Lower Palar Basin Division, Kancheepuram.	The Superintending Engineer, W.R.D., Palar Basin Circle, Chepauk, Chennai - 5.

Letter No. JDO 3 / F.28 (CMDA-NOC- Mannivakkam) / 2023 / Dated: 09 .09.2024

Sir,

Sub : Chennai Metropolitan Development Authority – Area Plan unit – Layout Division Planning Permission for laying out of house sites comprised in **SF. No. 237/1A1, 1A2, 1A3 & 237/2 of Mannivakkam Village, Vandalur Taluk, Chengalpattu District,** Kattankolathur Panchayat Union particulars called for Remarks on inundation Point of view - Requested – Technical Report Submitted – Reg.

Ref :
1. The Member Secretary, Chennai Metropolitan Development Authority Letter. No. L1 / 171 / 2024 / Dated 26.07.2024.
2. The Chief Engineer, Chennai Region, Chepauk, Chennai -5 Endt. No. DB / T5 (3) / F-6583 Mannivakkam village (237) / 2024 / SE & EE / Dated : 13.08.2024.
3. The Superintending Engineer, WRD., Palar Basin Circle, Chepauk, Chennai-5 Letter No. DB / DO-1 / F.NOC / 2302 EE / 2024 / Dated. 27.08.2024
4. The Assistant Executive Engineer, WRD., Lower Palar Basin Sub Division, Chengalpattu Letter No.F.99 / 1383 - Mannivakkam / 2024 / Dated.30.08.2024.

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Adverting to the above references cited, it is submitted that the Member Secretary, CMDA, has requested this department to offer specific remarks on inundation point of view for proposed Layout Division Planning Permission for laying out of house sites at comprised in **SF. No. 237/1A1, 1A2, 1A3 & 237/2 of Mannivakkam Village, Vandalur Taluk, Chengalpattu District,** Kattankolathur Panchayat Union limit of which

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Mrs. K. Kalaiyarasi, W/o.R.Kumaresan, No.22, Madurakavi Street, East Tambaram, Chennai-600 059 has applied planning permission for the above said Land.

In this regard, the above site was inspected by the Assistant Engineer, W.R.D., Irrigation Section, Chengalpattu and the field levels were taken and recorded from the Crest level of Mannivakkam Periya Eri **(+) 12.340 m** (FTL). Based on the observed field levels, the technical report is submitted as follows.

An Approach road for the site is running on the Northern side of the applicant land. The residential layout is located on the Eastern side and Vacant land is located on the Southern side of the applicant land. The Mannivakkam Vettaikaran Thangal is located on the Western side of the applicant land.

These lands are classified as **"Dry lands"** as per the Adangal Register and Patta of Revenue Records and the total extent of the applicant land is **0.60.35 Hectare.**

i. The present ground level of the applicant site varies from **(+)13.960m to (+)14.050m.**
ii. The top level of the Existing approach road which is running on the Northern side of the applicant land is **(+)14.380m.**
iii. The Full Tank Level and Maximum Water Level of the Mannivakkam Vettaikaran Thangal which is located at the Western side of the applicant site are **(+)12.340m and (+)13.020m** respectively.
iv. The Maximum Flood Level (MFL) of the site during the year 2015, 2021 & Michaung Cyclone in 2023 was assessed as **(+) 14.680m.**

During the 2015, 2021 & 2023 floods the approach road opposite to the applicant land was inundated 1 feet from the existing Road level.

Under these circumstances and recent flood of 2015, 2021 and 2023, In order to overcome any possibility of inundation it is suggested that the filled ground level of the site under reference should be raised up to the level of **(+) 15.130 m.** (i.e.,) (0.45 m above the Maximum Flood Level (MFL) of the site during which is **(+) 14.680m** (+) 14.680 m + 0.45m = 15.130m.)

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Sl. No.	Survey Nos.	Extent in Ares	Existing Ground Level	Proposed filling level	Filling depth	Owner Name
1	237/1A1	0.08.90	14.050	15.130	1.080	Mrs. K.Kalaiyarasi
2	237/1A2	0.08.32				
3	237/1A3	0.09.63				
4	237/2	0.33.50	13.960	15.130	1.170	
	Total	**0.60.35 Hect (or) 1.49 Acre**				

The Existing ground depth requires filling varying between (+)1.08m to (+)1.17m. The field levels require filling against the tolerable standards.

Based on the flood experiences in 2015, Michaung Cyclone flood in 2023, the technical opinion for inundation point of view for the land in **SF. No. 237/1A1, 1A2, 1A3 & 237/2 of Mannivakkam Village** is recommended with following terms & conditions.

CONDITIONS:-

1. The existing ground level of the site should be raised to a minimum level of **(+) 15.130m** (i.e.,0.45 m above the Maximum Flood Level of the site) with filling depth varying from **1.080 m to 1.170 m** over the entire area of the applicant site so, as to avoid inundation during maximum flood periods.

2. The process of filling and compaction should be done in layers of not more than 0.30 meter depth to achieve required degree of compaction.

3. The applicant should provide the necessary Set Back at the Western side of her own land which is adjoining to Mannivakkam Vettaikaran Thangal Tank water spread area (S.No. 236) as per the norms in existence and as per the rules in force of CMDA of applicant land. (Circular issued by the office of the Commissioner and Town and Country Planning, Chennai-02 vide **ROC No. 4367 / 2019 / BA2 / Dated. 13.03.2019).** During development no Construction activities are allowed, in the Set Back areas in future also. The CMDA should issue the completion certificate only after compliance certificate from WRD.

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4. Proper storm water drain of size **1.20 m x 1.00 m** should be constructed all – round the site within the premises at her own cost and this channel is to be linked with the Street storm water drain draining into the Mannivakkam Vettaikaranthangal Tank.

5. No encroachment activities should be done in the existing water body in S.F.No.236 (Mannivakkam Vettaikaran Thangal) which is adjacent to the applicant site and, the applicant boundary should be demarked & maintained as it is in the revenue records.

6. The Technical Report hereunder presented to the applicant is solely regarding the Inundation point of view.

7. The Technical Report is wholly dependent upon the documents produced by the applicant thereby inspected with the same relevant documents. However the Technical Report stands cancelled, if there is any discrepancy or any other encroachment activities held in Mannivakkam Vettaikaranthangal in the future.

8. No sewage should be let into the existing Water body (Thangal) & adjacent, lands and necessary arrangements should be made by the applicant at his own cost for treatment of sewage which should be ensured by the CMDA while approving the construction plan.

9. Necessary demarcation should be done in the applicant's land by the Revenue Department in the Presence of the W.R.D., Officials.

10. Also, the applicants has to obtain a Concurrence from the Revenue Department with respect to the accuracy of the documents produced for the applicant's land and also for the upright free from encroachment activities.

11. The applicant should allow the water to the Agriculture purpose for downstream side of the applicant land and they should not disturb to the agriculture activity.

12. The Water Resources Department Officials should be allowed to inspect the site at any time in future.

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13. The applicant should provide rain water harvesting arrangements and sewage treatment plant at the above site at her own cost after getting the approval and ensured by the CMDA.

14. The applicant should abide by the rules and regulations of the Water Resources Department from time to time.

15. Failing to comply with any of the above conditions, this department reserves full right to withdraw the technical report for the above said land and in this event, the applicant shall not be eligible for any compensation whatsoever.

Encl:

1. FM sketch, Patta & Chitta.
2. Villge plan marked with level
3. Topo plan
4. Layout sketch

} 2 Sets.

05/09/24

Executive Engineer, W.R.D.,
Lower Palar Basin Division,
Kancheepuram.

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