

BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE CHENNAI
ORIGINAL APPLICATION No. 238 OF 2020 (SZ)

IN THE MATTER OF:

Tribunal on its own motion
 Suo Motu based on the news item in
 The Times of India Newspaper, Chennai Edition
 Dt. 29.10.2020, "Wall of gated community blocks Stream along OMR"
 ...Applicant(s)

-Versus-

1. Engineer in Chief (Water Resources Organization)
 and Chief Engineer (General) Public Works Department
 Chepauk, Chennai-600 005
2. The District Collector
 Chengalpet District
 Collectorate Office, GST Road
 Chengalpattu-603 001
3. The Block Development Officer
 St. Thomas Mount Panchayat Union
 20, Chitlapakkam Main Road
 Kamaraj Colony, Nehru Nagar
 Chitlapakkam, Chennai-600 064

...Respondent(s)

REPORT FILED BY THE SUPERINTENDING ENGINEER,
WRD,PALAR BASIN CIRCLE, CHENNAI

I, A. Muthiah, son of Asokan, aged about 58 years officiating as Superintending Engineer, Water Resources Department (WRD), Palar Basin Circle, having my office at the PWD campus, Chepauk, Chennai-5, I am filing this report pertaining to Water Resources Department pursuant to the orders of this Hon'ble Tribunal dated 09.03.2022 made by this Hon'ble


 25/3/22
 Superintending Engineer, WRD
 Palar Basin Circle,
 Chepauk, Chennai 5.

colony/plots is lower than the level of the Pallikaranai marsh and the rain water collected in its own catchment inundates around the colony itself and this technical fact was not considered in the news item.

5. It is stated that the two major tanks, namely, Ottiyampakkam tank and Madurappakkam tank and the surplus drainage channels of these two tanks also terminate in the patta land which would indicate that the surplus water during rainy season would remain in the patta lands and would dry up after the rain is abated since the lands were fertile lands long back.

6. It is stated that the Surplus Courses of Ottiyambakkam Tank and the Madurapakkam Odai, which drain 34 Tanks into South Pallikaranai Swamp confluence at upstream of Semmanchery Tamil Nadu Slum Clearance Board (TNSCB) Tenements and DLF Garden City. Due to natural topography and as per the Revenue Records, there is no defined Flood Carrier Channel from this confluence point to the Swamp. The combined flood discharge of these Channels is about 4000 Cusecs.

7. It is in this regard stated that the flood mitigation works have been formulated in Semmencheri and Sholinganallur area along Old Mahabalipuram Road (OMR)/Rajiv Gandhi Salai, Madurapakkam odai, Ottiyambakkam Odai and Arasankazhani Odai confluence at DLF/Semmenchery and drains into Pallikaranai Swamp, but due to urbanization, the missing links between Madurapakkam, Ottiyambakkam and Arasankalani Odais at DLF, Nookampalayam Slum Clearance Board Apartment are the reason for the flood whenever there are high

A. M. S.
25/8/20

intensity rains causing flooding in Semmenchery, Ottiyambakkam and Perumbakkam areas.

8. Hence, it is stated that the WRD has proposed following list of permanent flood mitigation works to interlink all these Odais in the form of Cut and Cover Drains:

(i) Linking of Ottiyambakkam and Madurapakkam odai with Arasankazhani odai through three reaches of Cut & Cover drains at a total civil cost of Rupees 96.5 Cr and 68.82 crore, and where land acquisition is required, necessary Land Plan Schedule (LPS) was sent to the District Collector, Chengalpattu for approval under Comprehensive Flood Mitigation Project which was approved by the Government.

9. It is stated that the Water Resources Department (P.W.D) as a permanent measure, is currently carrying out the following projects for averting the flooding in the Semmanchery, Perumbakkam and Arasankalani Area and the Government has accorded Administrative Sanction vide G.O.32, Water Resources (I. Spl.2) Department dated 17.05.2022..

(a) Main Work : Providing Emergency Network of Flood carrier Channel between Ottiyambakkam Channel and Madurapakkam Drain to Pallikaranai Swamp in Semmenchery and Perumbakkam Area in Tambaram Talulk of Chengalpattu District with following sub works in slices:

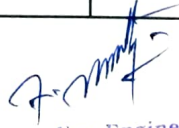
(Rupees in crores)

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Slice A - Providing Emergency network of flood carrier Macro drain from Madurapakkam Odai in DLF Campus road at L.S. 0m to L.S.500m in Sholinganallur Taluk of Chennai District.	21.70
Slice B - Providing Emergency network of flood carrier Macro drain from Madurapakkam Odai in DLF Campus road at L.S. 970m to L.S.m in Sholinganallur Taluk of Chennai District.	26.50
Slice - C Construction of Cut and Cover Macro Drain- From Madurapakkam Odai to Existing Channel (Northen Side of DLF) and Construction of Retaining wall on both side of open channel at Northen side of DLF from LS 0m - 600m in Sholinganallur Taluk of Chennai District.	24.00
Slice D - Construction of Retaining Wall at both side of existing drain in Semmanchery village in Sholinganallur Taluk of Chennai District.	24.30
Total	96.50

B. For linking with Ottiyampakkam Odai to Pallikaranai Swamp

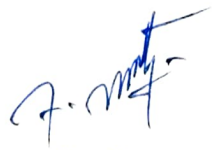
Main Name of Work : PROVIDING MACRO DRAIN CUT & COVER FOR MISSING LINK OF OTTIYAMBAKKAM TANK TO ARASANKALANI TANK AND LINK TO PALLIKKARANI SWAMP IN TAMBARAM TALUK O F CHENGALPATTU DISTRICT.	
Slice - A Construction of Cut & Cover Macro Drain from Arasankalani velanthangal Tank to Swamp in Sholinganallur Taluk of Chennai District.	29.00


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Slice - B Construction of Cut & Cover Macro Drain from Ottiyambakkam Surplus course Missing link to Arasankalani velanthangal Tank in Sholinganallur Taluk of Chennai District.	39.82
Total	68.82

(c) The missing hydraulic link between the Madurapakkam Odai and Ottiyambakkam Surplus Course will be connected to the Pallikkaranaï Swamp with four sets of network of Cut and Cover Drains and retaining walls including Open drains along the Residential Layout Road. This proposal requires Land Acquisition for an extent of 0.51.13 Ha (or) 5113 Sq.m, for which the Land Acquisition sent to Government through District Collector, Chengalpattu.


(c) There are 10 No. of encroachments in the said flood drains. On receipt of the particulars thereof in Form I and II from the Tahsildar, Form III notices were issued to the encroachers. The Compound Walls were constructed in the patta land which once acted as spread overflow patta lands and the compound wall has since been demolished by the WRD. The construction of drainage channel in the land which was gifted to the local body by the GTK Foundation is in progress now. The photograph taken during the demolition of the compound wall is filed herewith.


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 Palar Basin Circle,
 Chepauk, Chennai-5.

10. It is stated that in the comprehensive works detailed in paragraph 13 supra, 30% works such as macro drain for missing links and retaining walls for the existing drainage channels have been completed and further works are pushed through and the photographs during the progress of the works are filed herewith.

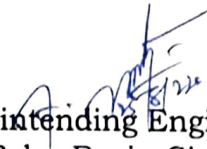
11. Hence, it is stated that the implementation of above said Project will give permanent flood relief to these highly flood vulnerable area due to absence of hydraulic links between 35 Tanks Surplus and Pallikkaranaai Swamp.

It is, therefore, prayed that this Hon'ble Tribunal may be pleased to take on record the individual report now filed on behalf of the Water Resources Department and pass appropriate further orders as deemed fit in the facts and circumstances of the case and thus render justice.


Superintending Engineer, WRD
Palar Basin Circle,
Chepauk, Chennai-600 005

VERIFICATION

I, A. Muthiah, son of Asokan, Superintending Engineer, WRD, Palar Basin Circle, Chennai-5, do verify that the submissions made from paragraph 1 to 10 are correct to the best of my knowledge as per records and I signed this at Chennai on this.....^{25th}.....Day of.....^{August}.....2022 at Chennai.


Superintending Engineer, WRD
Palar Basin Circle,
Chepauk, Chennai-600 005

SLICE – A Triple Vent Cut & Cover



Before



During



During



During

SLICE – A Triple Vent Cut & Cover



Before



During



SLICE – B Triple Vent Cut & Cover



Before



During



During



During

SLICE – B Triple Vent Cut & Cover



Before



During



During



During

SLICE – C Double Vent Cut & Cover



Before



During



During



During

SLICE – C Double Vent Cut & Cover



Before



During



During



During

SLICE – D Cantilever Retaining wall



Before



During



During



During

SLICE – D Cantilever Retaining wall



Before



SEMMANCH Slice D RT wall work
210°
03/07/2022 01:13:21 pm

During



Slice D- FM works
05/07/2022 10:11:28

During



Semmanch Slice D1 RT wall work
204°
02/08/2022 01:01:57 pm

During

SLICE – A Double Vent Cut & Cover



Before



During



During



During

SLICE – A Double Vent Cut & Cover



During



During



During



During

SLICE – B Double Vent Cut & Cover



During



During



During



During

SLICE – B Double Vent Cut & Cover



During



During



During



During