





Appendix 2.2 (Reference: Paragraph 2.3.2; Page 26)

Joint Field Inspection Report of layout approvals along water body in Kundrathur Panchayat Union (PU), Kundrathur Town Panchayat (TP) and Poonamallee PU

Sl.No	Layout and WRD's conditions	Audit Observations during field visit
(1)	(2)	(3)
1	Site in Survey No (S.No): 490/1, 492 of Manapakkam and 1/1pt of Kolapakkam village: • To provide a channel.	A SWD was under construction to link to the channel. The channel was not maintained as it was stagnant with plastic waste and aqua plants. It was also seen that the waste water from these building were let out through outlet PVC pipes into the channel.
2	Site in S.No: 55/1A1, 58 of Kulathuvancheri and 178/1,2, 179, 180, 181, 182/1, 184/2, 185, 186/1,2,3,4,5,7,8,9, 187 of Srinivasapuram: • Site to be filled up and two culverts provided.	Site was not filled up/raised. Culverts were not provided. The water channel as seen in the layout map was not visible in the site.
3	Site in S.No:15/2A, 3B, 16/2 in Naduveerapattu village Kundrathur PU: • No structure should be developed within three metre from the channel.	Channel's boundaries were not earmarked.
4	Site in S.No: 343/3A, 3B, 4D, 4E, 5E to 5G, 6C2, 7A, 7C, 7E of Naduveerapattu village: • Layout roads should be provided with SWD of size 0.45x0.45m on both sides.	Layout did not have Storm Water Drain
5	Site in S. No: 72, 73/1A1, 1B, 2, 74/1, 2, 3/75, 76, 77/1,2,3, 81/1,2, 82, 83/1B, 1C, 3A to 3H, 84, 85/2 of Varadarajapuram village in Kundrathur PU: • No development allowed in the area upto 1.5 m along the channel.	A residential apartment was built on the bund of the channel. The work of widening of the channel was stopped with this building encroaching into the channel and the width of the channel was narrowed.
6	Site in S. No: 163/2B2, 3, 164/1, 2, 3A, 3B of Varadarajapuram village in Kundrathur PU: • Storm Water Drain network of size 0.60x0.90m to be constructed all-round the site and the channel linked with existing Adayar Odai. — • A compound wall to be constructed around site on west and east side.	The channel/natural drain passing in front of the layout was encroached by a temple and houses. No roads were formed on the layout and storm water drain all around the site connecting to the existing Adayar Odai was not constructed.
7	 Site in S. No: 215 and 216 of Kundrathur village in Kundrathur TP: Minimum offset of one metre should be maintained from the boundary of the channel. A road culvert of 10 metre to be provided across the channel. 	One RCC box type culvert for a length of approximately three meters was provided. The channel was not continuous and found encroached on both sides by buildings.

(1)	(2)	(3)
8	 Site in S. No: 410/1, 2A, 411/1B, 2, 412/1of Kundrathur village in Kundrathur TP: The site should be raised to a minimum level of +18.150 m uniformly. RCC box type culvert with a vent of size 3.00x1.00m should be constructed. Width of the channel to be maintained, setback space of six metres to be provided adjacent to the channel. 	No culvert constructed. Channel not maintained along the road. Ground level not raised. Setback space of six was not provided, but a compound wall constructed.
9	 Site in S. No: 1179/1, 2 of Kundrathur village in Kundrathur TP: No structure within 2m from the channel boundary stone. Box type culvert should be constructed at S.No. 1181. 	Boundary stones were not laid. Channel was not maintained, filled with aqua plants. Unapproved buildings were seen constructed abutting the channel adjacent to this approved layout.
10	 Site in S. No: 36, 37, 38/1, 2A, 2B, 42/1,2of Kundrathur village in Kundrathur TP: Demarcation stone should be laid for the waterway. Ground level to be raised to 17.09 m above MSL. 	No demarcation stone laid. The channel abutting the site was filled with debris to form an unapproved layout (in eastern side). Thereby, the channel was narrowed down into a small drain.
11	Site in S. No: 11/2A1, 2A2, 2A3, 1379/1A to 1C, 2, 3A, 3B, 4A3, 4A4, 4B2, 5, 6A3, 6B of Kundrathur village in Kundrathur TP: • To raise ground level by 2.18 m to reach 18.06 m above MSL.	Ground level was not raised. Clear channel was not maintained including the width required. Channel was covered with shrubs and aqua plants.
12	Site in S. No: 320, 321/2, 322/1 of Kundrathur village in Kundrathur TP: • Width of the channel is to be maintained.	Layout was not clear. The channel was not maintained and was encroached.
13	 Site in S. No: 97 and 123 of Manancherry village in Kundrathur TP Two road culverts to be provided across field channel with a vent opening of four metres. 	No channel was seen. In survey number 96, the channel was occupied by a building. No culvert was seen.
14	Site in S. No: 98, 99/2, 121/2 of Manancherry village in Kundrathur TP: • Culvert should be constructed.	The channel was occupied by a building. No culvert was seen.
15	Site in S.No: 93/2, 99/1 of Manancherry village in Kundrathur TP: • Culvert should be constructed.	
	Joint field inspection report of layout Union	approvals in Poonamallee Panchayat
16	 Site in S.No: 26/2A,2B, 31/1C,1D, 32/1A of Kannapalayam village: Site should be raised in layers by earth by more than 0.30 metre. RCC box type culvert to be provided with a vent of size 7.20 metre x 6.00 metre x 1.2 metre should be constructed and promoter should do periodical desilting work. 	Site was not raised. A smaller culvert was provided and the channel was not desilted.

(1)	(2)	(3)
17	 Site in S.No: 60, 61/1,2 of Meppur village: Site level to be raised to the level of channel. Permanent fencing should be done along the boundary between the site and the channel and the layout to be formed three metres away from the fencing. 	No permanent fencing was constructed along the boundary between the site and the channel. Layout was formed three meters away from the temporary fencing.
18	Site in S.No: 79 to 81, 83/1,2, 84/1,2, 85/1, 86/1, 98/2, 111/2A2, 112, 113/2, 114 of Meppur village: • <i>Minimum offset of 1.50 metre from the channel.</i>	Channel was encroached by plantations.
19	 Site in S.No 83/8B, 9 to 11, 13, 14, 15B, 16B, 84/2B, 3A2, 3B, 4 to 7, 85/3, 86/2, 3, 7, 87/2A, 2B, 3pt, 6, 88/1, 2, 3, 4, 5A, 5B, 11, 12, 13A, 13B, 94/2B of Sorancherry village: Ground level to be raised with an average filling varying from 0.435 to 1.35m. Should provide adequate SWD. Demarcation should be done at both sides of the channel. 	Ground level was not raised. SWD was not provided. The channel was not demarcated, it was encroached.
20	Site in S.No 108/5B of Sorancherry village: • The site should be raised to the level of 24.13 m by filling the earth to the height of 0.75 m.	Channel flowing adjacent to the layout leading to Cooum River not being visible.
21	Site in S.No 107/5 of Sorancherry village: Site should be raised to a height of 1.50 metre • RCC box type culvert with vent size 7.2 x 2.4 m to be constructed	RCC culvert was not provided. Channel was not visible.
22	Site in S.No. 240/2A,2B2 of Voyalanallur village	This site is in continuation of the site in S.No. 107/5 of Soranjeri village. The channel which passes through the layouts ibid in Soranjeri village pass through this layout to join Cooum River. This channel in Voyalanallur village is encroached by a Compound wall and a garden.
23	 Site in S.No. 604/2,3, 605/2 to 5, 606/3, 607/2 of Annambedu village Site should be raised by 1.50 m. RCC box type culvert 3 x 9 m in between S.No. 606/3 and 607/2 Channel running inside the site should not be encroached and boundaries of the channel to be earmarked. 	No channel is visible in the layout and no culvert constructed.

Appendix 2.3 (Reference: Paragraph 2.4.3; Page 33)

Reclassification of Open Space and Recreation (O&R) zone to others

Sl.No	Survey No. / village	Field verification and decision by CMDA
1	Old Survey No 209 part, Present Town Survey (TS) No. 4 Block No 58 Ward –D of Thirumullaivoyal village The Commandant, Tamil Nadu Special Police Battalion-V, Avadi requested for reclassification of O&R zone for construction of Administrative Buildings. The extent of site is 6.92 ha.	CMDA inspected the site and found that the site abuts the 91 feet wide public road. Four to five buildings were existing and used as Administrative office, Barracks (Guest houses for training people) and store rooms etc. The Technical Committee on 6.5.2015 recommended the reclassification of O&R use zone to Institutional use zone and the Authority resolved to reclassify in the meeting held on 4.8.2015.
2	S.No 158/2A1B & 2B of Koladi village, Ambattur Taluk, Thiruvallur District, Thiruverkadu Municipality. The applicant had applied for reclassification of O&R use zone to Mixed Residential use zone to construct a commercial complex. The total extent of the site is 0.36 ha.	CMDA inspected the site on 30.1.2014 and found that the site was vacant. The site abuts 33 feet wide road. The site slopes down from road to its rear side and low lying by about 3.0 m. The Cooum River runs on the southern side after a small parcel of land from the site under reference. The surrounding developments were predominantly with mixed activity. CMDA addressed PWD on 27/1/2014 for NOC on inundation point of view and it was awaited. The Technical Committee in its meeting (7.2.2014) discussed the subject and observed that the site abuts a public road, lying low and adjacent to the Cooum River. The representative from PWD clarified that the ownership of the applicant on the site under reference would be confirmed before issue of NOC for the site as it is close to the Cooum River in which case the ownership of the river part is vested with the PWD. Considering these, the Technical Committee recommended the reclassification and the Authority resolved on 10.9.2014 to reclassify the land.
3	S.No. 59/7A1A (old survey No 14/18, 15/14) of Numbal Village, Ambattur Taluk The applicant requested for reclassification of Green Belt use zone. to Industrial zone. Extent is 0.07 ha.	As per CMDA inspection report, the site abuts 45 m wide Poonamallee High Road and was surrounded on the north by vacant land, south by PH Road, east by vacant land and west by IT company & College. The Technical committee recommended (27.02.2012) to reclassify the site under reference from Green Belt Use zone to Industrial use zone subject to the condition that the applicant had to demolish the existing small structure before applying for planning permission for new/additional building and the Authority resolved on 13.03.2014 to reclassify the site.

Sl.No	Survey No. /Village/File No.	Field verification and decision by CMDA
4	Survey No 2/3,3C and 2/3B of Veeraraghavapuram and 25/1A, Sundarasholavaram village The applicant requested reclassification from O&R use zone to Institutional zone for construction of College building Extent 1.21 ha	CMDA in their inspection report stated that the land was vacant with abutting road width of 22.6 metre with surrounding developments as residences and Cooum River on the eastern side. The Technical Committee stated that the site under reference abuts 22.60 metre Avadi-Poonamallee High Road. The local body had recommended for reclassification of land use from partly Agricultural use zone and partly O&R use zone into Institutional use zone subject to the condition that the applicant should get NOC from PWD before making any development in the site under reference. The Authority resolved on 7.5.2012 for reclassification of land use.
5	TS No 5 Block No 16 Velachery Village The applicant requested for reclassification from O&R use zone to commercial use zone- Extent 1.96 ha	CMDA in its inspection report stated that the present use of the land was old horse stable and old Quarters for horse trainers with abutting road width of 23.5 metre with surrounding developments as residences and commercial buildings. The Technical Committee viewed that the site was a <i>patta</i> land and did not form part of 10 <i>per cent</i> OSR land. Considering the adjacent developments, the Committee recommended for reclassification of the site and the Authority also resolved to reclassify the site on 7.5.2012.
6	TS No 7/2,3&4 Block No 17 Velachery— The applicant requested for reclassification from O&R use zone to commercial use zone- Extent 0.15 ha	CMDA in its inspection report stated that the classification of land as 'wet' land abutting 55 feet wide Tar Road with surrounding developments as residences and commercial buildings. The Technical committee noted that a ground Floor and first floor (part) building was in existence in the site and it was being used as Hospital and also the applicant had furnished approved demolition plan for the building. Therefore, the compliance of existing building to Development Regulations did not arise. Also, the committee noted that the site was surrounded by residences, commercial and institutional activities and recommended to reclassify the site under reference from O&R use zone to commercial use zone and the Authority resolved on 14.2.2011 to reclassify the site.
7	Survey No. 159/1A2, 5, 6 of Koladi village, Tiruverkadu Municipality The applicant requested for reclassification from O&R use zone to Mixed Residential zone Extent: 0.30.90 ha	The site was abutting 11.40 m wide Permalagaram Road on the North and vacant lands on other sides. The Technical Committee recommended the site under reference for reclassification of site subject to the condition that the applicant obtain NOC from PWD and Authority resolved to reclassify the site on 16-02-2016.

Appendix 5.1 (Reference: Paragraph 5.2.1; Page75)

Details of missing links

Sl.No	Zone No.	Division No.	Name of the Street	Length in Metres
(1)	(2)	(3)	(4)	(5)
1	1	5	TH Road junction of MRF Road	8
2	1	6	Kalaignar Nagar	275
3	2	15	Manalai New Town 60 Feet Road	11.2
4	2	16	Rajiv Gandhi Nagar from TPP salai to Andarkuppam Main Road	100
5	2	16	From Kanniammanpet pond to Kadapakkam Lake	80
6	3	22	Mahalakshmi Nagar	6
7	3	23	Punitha Anthoniyar Street	15
8	3	23	Othai Vadai Street	10
9	4	45	Ganesapuram Main Road	12
10	4	47	KH Road	16
11	5	58	EVK Sampath Salai	17
12	5	61	Egmore High Road	720
13	5	62	Arunachalam Road	70
14	5	63	Chella Pillayar Kovil Street	50
15	5	63	G.P.Road	45
16	6	68	Maduraiswamy Madam Street	100
17	6	70	Bharathi Main Road	560
18	8	100 & 101	5 th Main Road Surroundings	100
19	8	100 & 101	4 th Main Road Surroundings	40
20	9	118	Mayor Sundra (Rao) Road	120
21	9	121	Thiru-Vi-Ka 3 rd Street	9
22	10	136	North Usman Street	22
23	10	127	100 Feet Road (Junction of Kaliamman Koil Street)	25
24	10	127	Kaliamman Koil Street (in front of Police Station)	20
25	11	154	Bharathi Salai	20

(1)	(2)	(3)	(4)	(5)
26	12	167	Nanganallur 44 th Street	12.3
27	13	173	MRC Nagar	370
28	13	173	Vasantha Avenue	270
29	13	173	Kasthuri Avenue	164
30	13	175	L.B. Road	8
31	13	175	Kasthuribai Nagar	20
32	13	175	Indra Nagar	6
33	13	175	Anna Avenue	5
34	13	176	Sastri Nagar II, IX & XV Cross Street	18
35	13	178	A.G.S Colony	20
36	13	179	V.G.P.Selva Nagar Extension I to V streets	856
37	13	179	V.G.P.Selva Nagar I Cross Street & I Main Road	440
38	13	179	Bhuvaneswari Nagar I & III Cross Street & III Main Road	299
39	13	179	Veenus Colony II Street	200
40	13	181	Dr.Radhakrishnan Nagar	50
41	13	181	Valmigi Street	100
42	13	180	CSIR Road	10
43	13	174	Nehru Nagar – Veerapandiya Kattabomman Street	270
44	13	174	Nehru Nagar – Periyar Street	330
45	13	174	Nehru Nagar – Anbil Dharmalingam Street	270
46	13	174	Velacherry Main Road	900
47	13	182	Journalist Colony	200
48	14	169	Ram Nagar (North)	30
49	15	192	Ellaiamman Koil Street	160
50	15	193	MCN Nagar	100
51	15	194	OMR – Mettukuppam (VGP Avenue Junction)	180
52	15	197	Wipro Salai	2,500

Appendix 5.2 (Reference: Paragraph 5.3(ii); Page78)

Physical and Financial Progress of works under TNSUDP as on 31 August 2016

		io.			Leng	th (in 'm	') comple	ted		crore		rders
Sl. No.	Package No.	Name of the Contractor	Total length (in 'm') as per BoQ	Earthwork	PCC	RCC Raft	RCC Side Walls	RCC Top Slab	percentage of physical progress	Value of work done₹ in crore	Percentage of financial progress	Delay in issue of work orders (in months)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1	1	M/s RPP Infraproject (P) Ltd	13,299	1,454	1431	1,431	1211	1041	7.83	2.13	5.38	5
2	2	M/s RPP Infraproject (P) Ltd	8,825	1,227	1,192	1,164	1,057	1,033	11.71	2.03	6.10	5
3	3	M/s Saravana Engineering Bhavani (P) Ltd	2,801	1,115	1,115	1,115	1,085	1,065	38.02	4.90	12.57	2
4	4	M/s Sri Sivaram & Co.	7,791	2,952	2,932	2,902	2,802	2,782	35.71	6.29	21.82	-
5	5	M/s RPP Infraproject (P) Ltd	7,608	1,395	1,350	1,315	1,315	1,240	16.30	3.47	7.60	5
6	6	M/s P&C Project (P) Ltd	2,848	428	413	338.4	308.1	299	10.50	2.35	9.12	2
7	7	M/s P&C Project (P) Ltd	8,071	1,007	978	976	956	946	11.72	1.97	5.93	2
8	8	M/s Kumar Builders	2,244	60	0	0	0	0	2.67	0.01	0.04	2
9	9	M/s Gurumurthy Engineering Enterprises	6,901	2,781	2,781	2,756	2,581	2,581	37.40	5.88	16.31	2
10	10	M/s Annai Infra Developers (P) Ltd	12,893	2,661	2,641	2,601	2,601	2,506	19.44	6.06	14.15	2
11	11	M/s Saravana Engineering Bhavani (P) Ltd	7,049	3,002	2,965	2,940	2,894	2,864	40.63	7.85	28.76	2
12	12	M/s P&C Project (P) Ltd	11,557	1,490	1,486	1,458	1,432.6	1,372	11.87	2.42	6.92	2
13	13	M/s Sri Sivaram & Co.	10,644	2,405	2,385	2,380	2,360	2,360	22.17	4.49	19.62	5
14	14	M/s P&C Project (P) Ltd	5,278	246	215	200	182	182	3.45	0.11	0.31	2
15	15	M/s Annai Infra Developers (P) Ltd	4,743	196	172	150	150	104	2.19	0.12	0.30	5
16	16	M/s Annai Infra Developers (P) Ltd	9,792	1,106	1,066	1,011	935	853	8.71	2.74	6.63	5
17	17	M/s Annai Infra Developers (P) Ltd	15,294	2,177	2,170	2,098	2,078	2,014	13.17	6.14	10.37	5
18	18	M/s Sree Venkateswara Road Constructions	4,966	872	852	784	746	658.2	13.25	1.43	9.58	2
19	20	M/s Thirumala Traders	1,927	590	340	80	0	0	1.30	0.61	3.44	5
20	21	M/s Landmark Corporation	8,462	3,069	2,984	2,854	2,806	2,759	32.60	5.27	18.99	5
21	22	M/s Gurumurthy Engineering Enterprises	10,124	4,190	4,155	4,095	4,012	3,880	38.32	10.87	35.17	2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
22	23	M/s R.Krishnamurthy & Co.	12,249	1,190	1,123	1,081	1,072	814	6.65	1.78	3.95	2
23	26	M/s Selliamman Constructions (P) Ltd	1,326	787	787	787	787	782	58.97	2.19	11.50	-
24	27	M/s Sakthi Constructions	9,798	1,693	1,693	1,687	1,622	1,579	16.12	1.30	3.64	2
25	28	M/s Rock & Arch Construction India (P) Ltd	14,845	1,860	1,776	1,771	1,771	1,759	11.85	3.52	8.95	2
26	29	M/s Rock & Arch Construction India (P) Ltd	7,289	429	429	419	419	395	5.42	0.89	3.32	5
27	30	M/s Landmark Corporation	8,921	1,722	1,680	1,555	1,464	1,400	15.69	1.90	8.13	-
28	31	M/s R.Krishnamurthy & Co.	9,129	1,246	1,246	1,155	1,111	997	10.92	1.76	4.93	2
29	32	M/s R.Krishnamurthy & Co.	9,996	2,143	2,108	2,100	2,100	1,953	19.54	4.56	13.41	2
30	33	M/s Selliamman Constructions (P) Ltd	11,028	4,239	3,969	3,747	3,637	3,557	32.25	4.27	12.20	2
31	34	M/s Sree Venkateswara Road Constructions	4,047	2,126	1,996	1,926	1,926	1,906	47.10	2.99	12.88	2
32	35	M/s P&C Project (P) Ltd	8,684	550	505	490	465	425	4.89	0.82	2.77	2
33	36	M/s P&C Project (P) Ltd	9,060	467	467	419	344	300	3.31	0.54	1.62	2
34	37	M/s Annai Infra Developers (P) Ltd	10,982	1,408	1,348	1303	1,283	1,238	11.27	1.13	2.89	2
35	38	M/s Annai Infra Developers (P) Ltd	11,414	1,412	1,389	1,337	1,297	1,267	11.10	1.88	4.14	2
		Total	2,91,885	55,696	54,140	52,426	50,811	48,912	16.76	106.66	9.16	

Total length = 2,91,885 metres; Physical progress percentage = 16.76; Financial progress percentage = 9.16; PCC- Plain Cement Concrete; RCC- Reinforced Cement Concrete

Appendix 5.3

(Reference: Paragraph 5.4.1; Page 81)

Areas in selected suburban areas affected by flood

Name of the local body	Areas affected
Tambaram Municipality	CTO Colony, Mullai Nagar, Mangalapuram, Arputham Nagar, Nehru Nagar, Motilal Nagar, Tiruvallur Nagar, Adhi Nagar, Ananthapuram, Ambedkar Nagar and Bharat Nagar
Sembakkam Municipality	Raja Rajeswari Nagar, Tellus Avenue, VallalUsuf Nagar, Gokul Nagar, Sivakami Nagar and Shanthi Nagar
Pallavapuram Municipality	Sakthi Nagar, Medavakkam Main Road, Bhavani Nagar, Ambaal Nagar, Mummoorthy Nagar and Nethaji Nagar
Perungalathur Town Panchayat	Bharathi Nagar, Moovendar Nagar Extn., Samathuva Periyar Nagar, AnnaiAnjugam Nagar, Indira Nagar, Kannan Avenue, Meenatchi Avenue, Goodwill Nagar, Kurunji Nagar, Balaji Nagar, Sasivaradhan Nagar, Kumaran Nagar, Gandhi Nagar, Thangaraj Nagar, EB Colony, Sri Ram Nagar, Parvathi Nagar and Mudichur Road
Peerkankaranai Town Panchayat	Sri Ram Nagar, Devanesan Nagar, KK Nagar, Imanuel Street and Cross Street, Velu Nagar and Cross Street, Ambedkar Street, Kalaimagal Street, Rajiv Gandhi Street, Gandhi Road, Uma Nagar, Archana Nagar, Shakthi Nagar, Mullai Nagar, Bhavani Street, Church Road, Karthik Avenue, AS Rajan Nagar and Extension, Swami Vivekandar Street Extension, Balaji Avenue, Annai Indira Nagar, Bharathidasan Nagar, TTK Nagar and Cross Streets and Thanga Raj Nagar
Thiruneermalai Town Panchayat	Subbaraya Nagar, Saraswathipuram, Parvathipuram, Ranga Nagar, Anna Street, MallimaVeethi, Arignar Anna Street, Selva Vinayagar Koil Street, V.G.N. Nagar and Bajanai Koil Street

Appendix 5.4 (Reference: Paragraph 5.4.5; Page 84)

Details of SWD constructed partially in Pallavapuram Municipality

Sl.	M.Book	Book Nature of the work Est		Expenditure	Length	Difference	
No.	No.		amount (in ₹).	incurred (in ₹)	As per estimate	As per execution	in metres
1	197/14-15	Construction of SWD at Ramaswamy street in ward No.30	8,00,000	3,62,290	210	188.95	21.05
2	37/14-15	Construction of SWD at Joy Nagar Ist street and Padmavathy street in ward No.24	7,00,000	2,07,400	140	130.30	9.70
3	112/13-14	Construction of SWD with RCC culvert at Dharga Road in ward No.11	11,70,000	3,93,485	371	79.00	292.00
4	63/13-14	Construction of SWD at Janakiraman street and Hasthinapuram Main Road in Ward No.22	4,50,000	2,80,435	220	121.60	98.40

Appendix 5.5 (Reference: Paragraph 5.6.2; Page 87)

Maintenance of water bodies in selected Zones/Municipalities and Town Panchayats

Sl. No.	Name of the local body	Details of water bodies Position obtained		Department responsible for maintenance
(1)	(2)	(3)	(4)	(5)
1	Adyar Zone of GCC	Guindy industrial estate canal, Raj Bhavan Canal, Mambalam Canal	Width of Canal reduced due to encroachment	GCC
2	Alandur Zone of GCC	Adambakkam Lake and Veerangal odai	Width of Veerangal Odai reduced due to encroachment	WRD
3	Ambattur Zone of GCC	Korattur Canal, Ambattur Canal, Canal near VAO Office,, Padikuppam Canal and Coovam Canal	Width of Canals reduced due to encroachment	GCC
		Korattur and Ambattur Lakes	Water bodies were poorly maintained and encroachment was noticed	WRD
4	Kodambakkam Zone of GCC	Virugambakkam Canal, MGR nagar Canal, Jaferkhanpet Canal and Mambalam Canal	Width of canals reduced due to encroachment	GCC
5	Pallavapuram Municipality	Pallavapuram Periya Eri, Kilkattalai Eri, Sembakkam Eri and Moovarasampattu Eri	Water bodies were poorly maintained and encroachment was noticed	PWD
6	6 Sembakkam Municipality	Rajakilpakkam and Sembakkam Lakes	Water bodies were poorly maintained and encroachment was noticed	PWD
		Gowrivakkam Lake	Water body poorly maintained	St. Thomas Mount Panchayat Union
7	Tambaram Municipality	Peerkankaranai Lake, Irumbuliyur Lake and Thiruvancheri Lake	Water bodies were poorly maintained and encroachment was noticed	WRD
		Pappan Channel	Channel abruptly ended and WRD was diverting the channel to join with Adyar River. Width of Channel reduced due to encroachment and developments	PWD
		Adyar River (Kishkinta Road point)	River was poorly maintained and encroachment noticed	PWD
8	Perungalathur Town Panchayat	Periya Eri and Sitheri	Water bodies were poorly maintained and encroachment was noticed	PWD
9	Peerkankaranai Town Panchayat	Periya Eri and Sitheri	Periya Eri was poorly maintained and encroachments noticed. Sitheri was encroached and converted into residential areas	PWD
10	Thiruneermalai Town Panchayat	Periya Eri, Sitheri and Veeraraghavan Lake	Water bodies were poorly maintained and encroachments were noticed	PWD
		Channel connecting Periya Eri and Adyar River	Width of channel reduced due to encroachments	PWD

Appendix 5.6 (Reference: Paragraph 5.8.5; Page 93)

Details of inflow and surplus discharge from Chembarambakkam Tank

Date	Time	Water availability (in TMC)		Inflow (cusec)	Discharge through	Depth (feet)
		Maximum capacity	available		Surplus course (cusec)	
16.11.2015	21.00	3.645	3.388	17,685	5,000	22.85
	21.00	3.645	3.388	17,685	5,000	22.85
	2.00	3.645	3.293	12,722	18,000	22.67
	4.00	3.645	3.256	12,762	18,000	22.53
	6.00	3.645	3.197	12,031	18,000	22.30
	10.00	3.645	3.141	12,000	15,000	22.08
17.11.2015	12.00	3.645	3.113	11,000	10,000	21.97
17.11.2013	14.00	3.645	3.113	10,000	10,000	21.97
	16.00	3.645	3.108	9,653	10,000	21.95
	18.00	3.645	3.094	7,362	10,000	21.90
	20.00	3.645	3.080	7,362	7,500	21.85
	22.00	3.645	3.080	7,500	7,500	21.85
	24.00	3.645	3.067	6,350	6,000	21.80
	6.00	3.645	3.141	960	900	22.08
	9.00	3.645	3.197	7,500	3,000	22.30
	10.00	3.645	3.248	10,000	10,000	22.50
	12.00	3.645	3.299	14,000	12,000	22.70
	14.00	3.645	3.377	23,629	20,960	23.02
1.12.2015	16.00	3.645	3.390	24,932	20,960	23.06
1.12.2013	17.00	3.645	3.429	25,000	28,000	23.20
	18.00	3.645	3.429	29,000	29,000	23.20
	19.00	3.645	3.460	30,000	29,000	23.35
	20.00	3.645	3.481	31,000	29,000	23.40
	22.00	3.645	3.481	29,000	29,000	23.40
	24.00	3.645	3.481	29,000	29,000	23.40
	2.00	3.645	3.455	26,000	29,000	23.30
	3.00	3.645	3.442	26,000	29,000	23.25
	6.00	3.645	3.396	26,000	29,000	23.07
	9.00	3.645	3.332	23,000	29,000	22.83
2.12.2015	12.00	3.645	3.284	23,000	29,000	22.64
	15.00	3.645	3.225	23,000	20,000	22.41
	18.00	3.645	3.200	15,000	15,000	22.31
	21.00	3.645	3.161	12,000	14,000	22.16
	24.00	3.645	3.132	11,500	13,000	22.05
3.12.2015	6.00	3.645	3.094	10,200	11,000	21.90
3.12.2013	9.00	3.645	3.067	5,000	3,500	21.80

Appendix 7.1 (Reference: Paragraph 7.1.4; Page 121)

Achievement against service level bench mark

(i) Provision of SWD

Name of the local body	Total length of road network (more than 3.5 metres carriage way) (Kms.)	Total length of primary, secondary and tertiary drains (only pucca construction and covered drains)	Percentage of coverage	As per GoI norms (in percentage)	Shortfall (Percentage)
Adyar Zone	411.52	136.33	33.13	100	66.87
Alandur Zone	231.84	86.17	37.17	100	62.83
Ambattur Zone	496.51	29.97	6.03	100	93.97
Kodambakkam Zone	456.37	189.60	41.55	100	58.45
Pallavapuram	242.00	3.00	1.04	100	98.96
Peerkankaranai	41.65	Nil	0.00	100	100.00
Perungalathur	83.50	Nil	0.00	100	100.00
Perungudi zone	455.47	55.94	12.28	100	87.72
Sembakkam	100.42	85.35	85.00	100	15.00
Tambaram	164.75	142.75	86.65	100	13.35
Thiruneermalai	39.36	Nil	0.00	100	100.00

(ii) Report of water logging

Name of the local body/GCC Zone	Number of flood prone areas identified* (A)	Number of occasions of flooding/ water logging in a year (B)	Aggregate number of incidents of water logging (stagnant water for more than four hours of a depth more than six inches) (A x B)	As per GoI norms (Number of water loggings)	Shortfall (in percentage)
Adyar Zone	75	1	75	0	100
Alandur Zone	60	1	60	0	100
Ambattur Zone	74	1	74	0	100
Pallavapuram	6	2	12	0	100
Peerkankaranai	27	1	27	0	100
Perungalathur	18	1/2	9	0	100
Sembakkam	6	2	12	0	100
Tambaram	11	1	11	0	100
Thiruneermalai	12	1	12	0	100
Perungudi Zone	31	3	93	0	100
Kodambakkam Zone	6	3	18	0	100

^{*} Water logging at key road intersections, or along a road length of 50 m or more, or in a locality affecting 50 households or more

Glossary of Abbreviations

Abbreviation	Full form		
AGM	Annual General Body Meeting		
ALTM	Airborne Laser Terrain Mapping		
C&AG	Comptroller and Auditor General of India		
CE	Chief Engineer		
CMA	Chennai Metropolitan Area		
CMDA	Chennai Metropolitan Development Authority		
CMRL	Chennai Metro Rail Limited		
CMWSSB	Chennai Water Supply and Sewerage Board		
COR	Compendium of Rules of Regulations		
СРНЕЕО	Central Public Health Environmental Engineering Organisation		
CRA	Commissioner of Revenue Administration		
CRRT	Chennai Rivers Restoration Trust		
CWC	Central Water Commission		
DCR	Development Control Rules		
DEOC	District Emergency Operation Centre		
DHT	Director of Handlooms and Textiles		
DM Act, 2005	Disaster Management Act, 2005		
DMP	Disaster Management Plan		
DPR	Detailed Project Report		
DR	Development Regulations		
E&RSA	Economic & Revenue Sector Audit		
EAP	Emergency Action Plan		
EC	Executive Council		
EE	Executive Engineer		
ELCOT	Electronics Corporation of Tamil Nadu		
EOC	Emergency Operation Centre		
ETRP	Emergency Tsunami Reconstruction Project		
FMP	First Master Plan		
FPZ	Flood Plain Zoning		
G&SSA	General & Social Sector Audit		
GCC	Greater Chennai Corporation		
GoI	Government of India		
GoTN	Government of Tamil Nadu		
IRC	Indian Roads Congress		
ISRO	Indian Space Research Organisation		
JNNURM	Jawaharlal Nehru National Urban Renewal Mission		
Mcft	Million Cubic Feet		
MRTS	Mass Rapid Transit System		
MSL	Mean Sea Level		
NCDS	National Committee on Dam Safety		
NDM	National Disaster Management		

NDMA	National Disaster Management Authority
NDRF	National Disaster Response Force
NHAI	National Highways Authority of India
NOC	No Objection certificate
NWP	National Water Policy
O&R Zone	Open Space and Recreation Zone
OTA	Officers Training Academy
PAC	Public Accounts Committee
PWD	Public Works Department
SDRF	State Disaster Response Fund
TNSDMA	Tamil Nadu State Disaster Management Agency
SMP	Second Master Plan
SO	Section Officer
STP	Sewage Treatment Plant
SWD	Storm Water Drain
SWM	Solid Waste Management
SWP	State Water Policy
TAC	Technical Advisory Committee
TMC	Thousand Million Cubic Feet
TNCSC	Tamil Nadu Civil Supplies Corporation
TNEB	Tamil Nadu Electricity Board
TNSCB	Tamil Nadu Slum Clearance Board
TNSUDP	Tamil Nadu Sustainable Urban Development Programme
UC	Utilisation Certificate
UGSS	Underground Sewage System
VHF	Very High Frequency
WRD	Water Resources Department