



Chennai Metropolitan Water Supply and Sewerage Board

DRAWINGS & MAPS

For

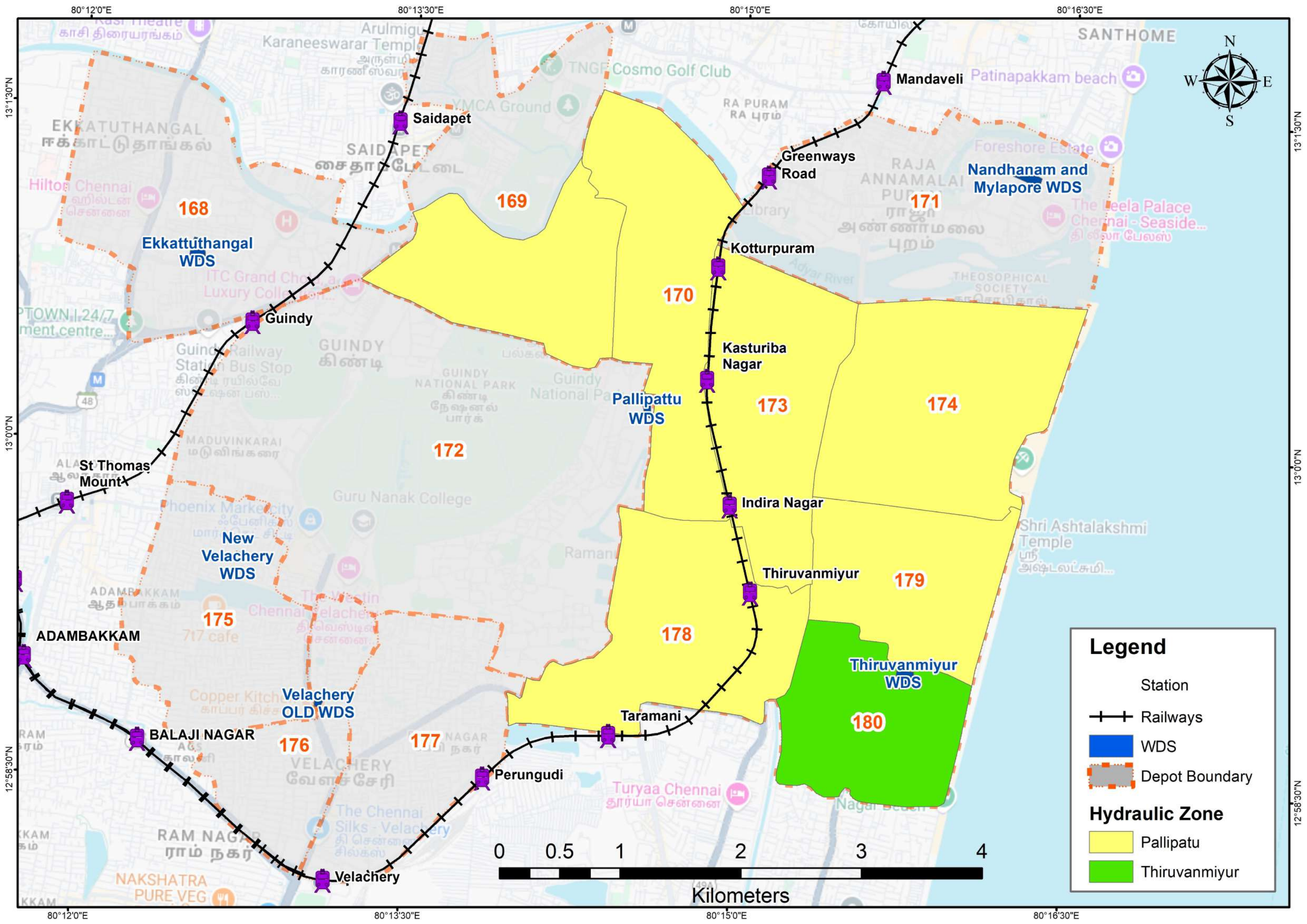
**Selection of Concessionaire for Implementation of Continuous Water Supply in Pallipatu WDS & Thiruvanmiyur WDS
under Area XIII of Chennai City under Hybrid Annuity Model (HAM)**

Tender No.: CNT/WSS/NCB/AMRUT-GoTN/400 MLD/CP4/012/2024-25

**RFP VOLUME – IV
DRAWINGS & MAPS**

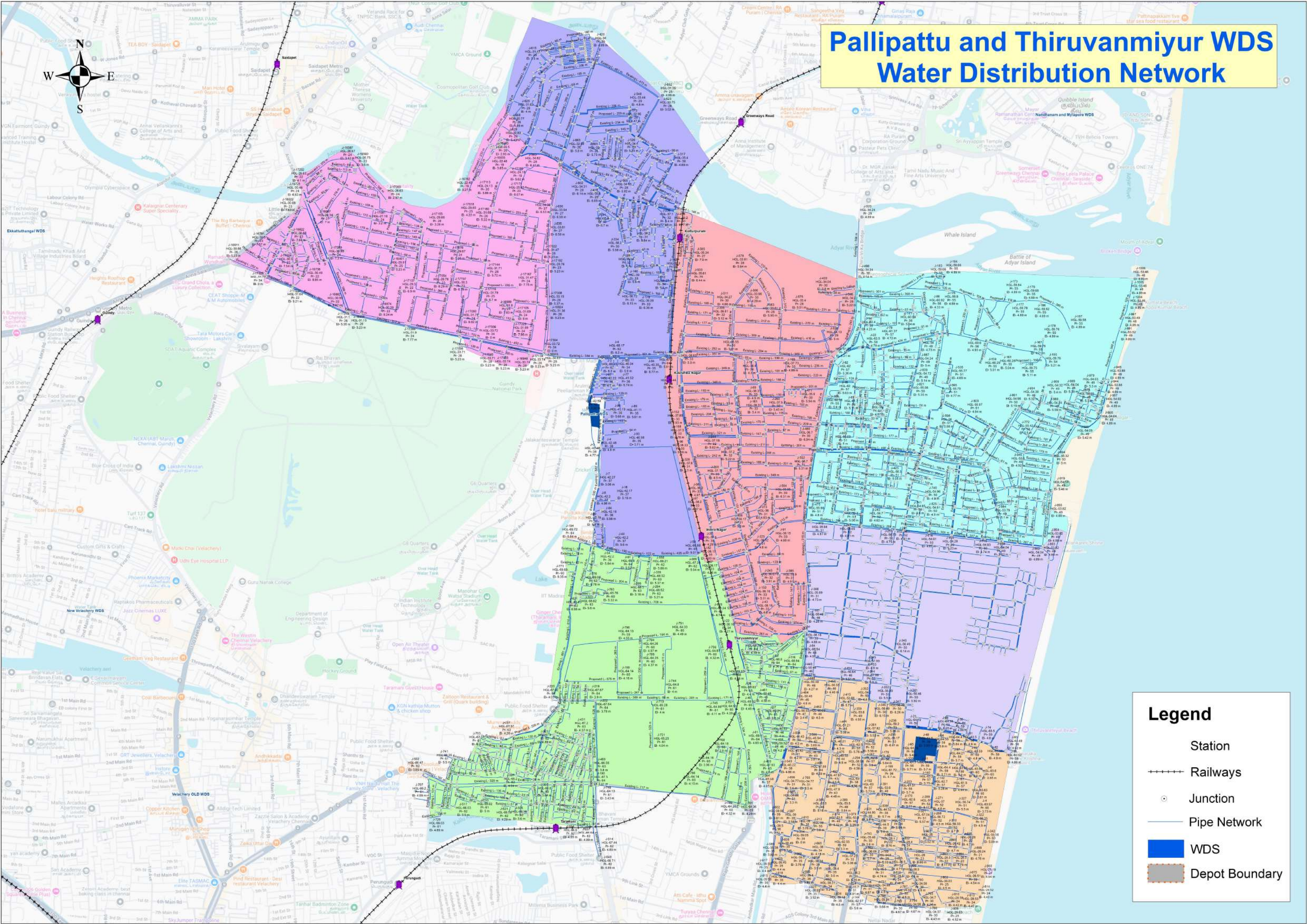
January 2025

VOLUME - III
ANNEXURE – 17 –
PROJECT AREA MAP (PALIPATTU & THIRUVANMIYUR WDS)



VOLUME - III
ANNEXURE – 18 –
PALIPATTU WDS MAP

Pallipattu and Thiruvannmiyur WDS Water Distribution Network

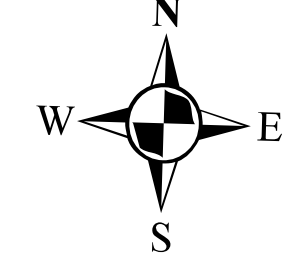
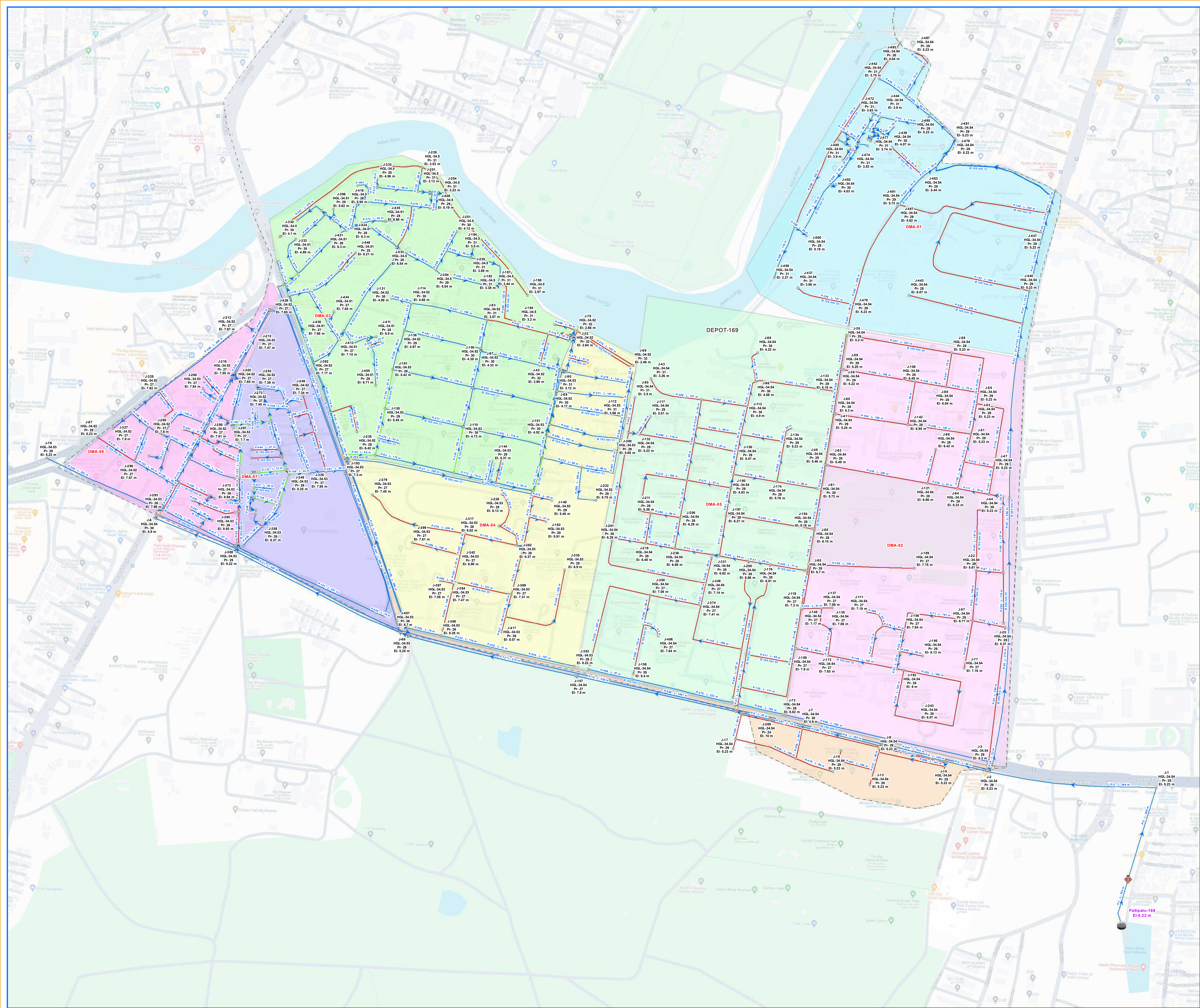


Legend

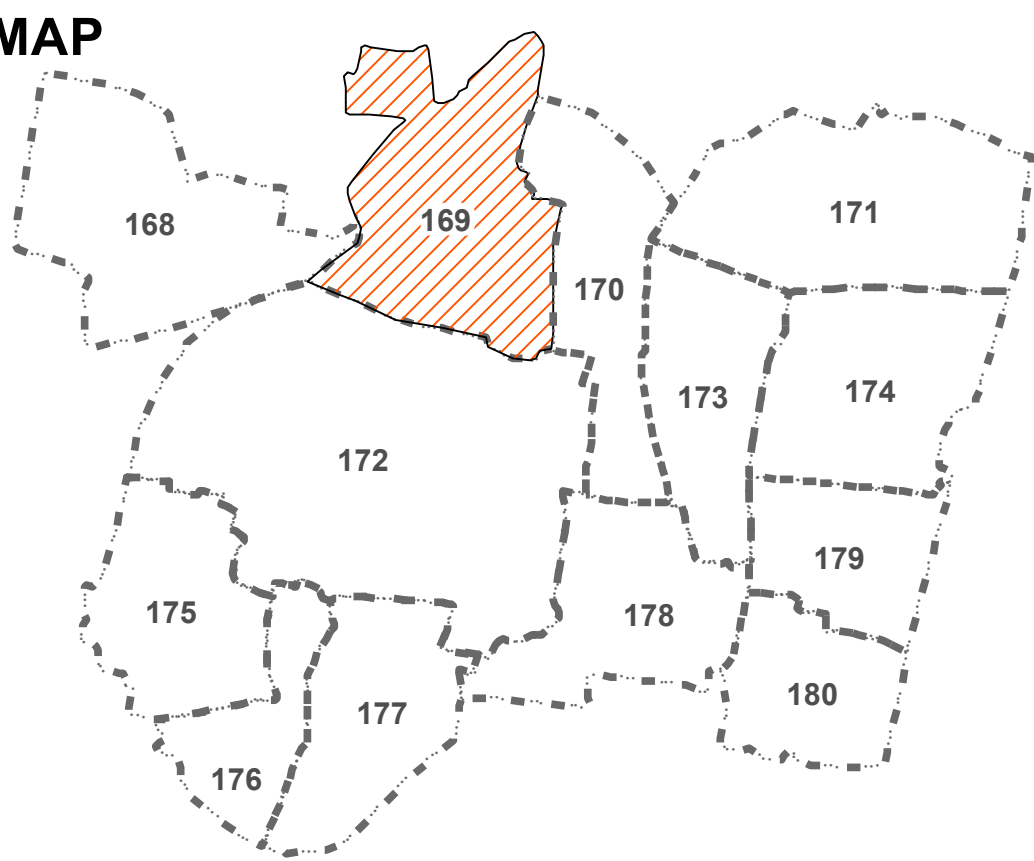
- Station
- Railways
- Junction
- Pipe Network
- WDS
- Depot Boundary

VOLUME - III
ANNEXURE – 19 –
THIRUVANMIYUR WDS MAP

VOLUME - III
ANNEXURE – 20 –
OZ NETWORK DRAWINGS / MAPS



KEY MAP



LEGEND

- PUMP
- JUNCTION
- CONTROL UNIT
- UGR

DISTRIBUTION NETWORK (DIA IN MM)

- Existing
- Proposed
- Replace

DMA BOUNDARY

- DMA-01
- DMA-02
- DMA-03
- DMA-04
- DMA-05
- DMA-06
- DMA-07
- DMA-08

ADMIN BOUNDARY

DEPOT-169 (AREA-XIII)

Depot-169 Abstract												
Row Labels	100	150	200	250	300	350	400	450	500	550	600	Grand Total
Existing	11872	4994	1131	24	863	429	2056	382	354	200	100	22933
Proposed	17854	664	127	570								19515
Replace	11872	664	127	570								19515
DT	11872	77	3									1205
Grand Total	29726	679	1355	1097	963	429	2056	382	354	0	200	42447

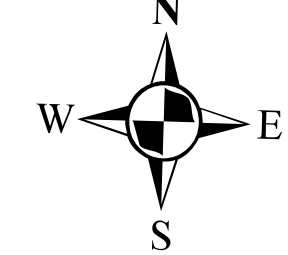
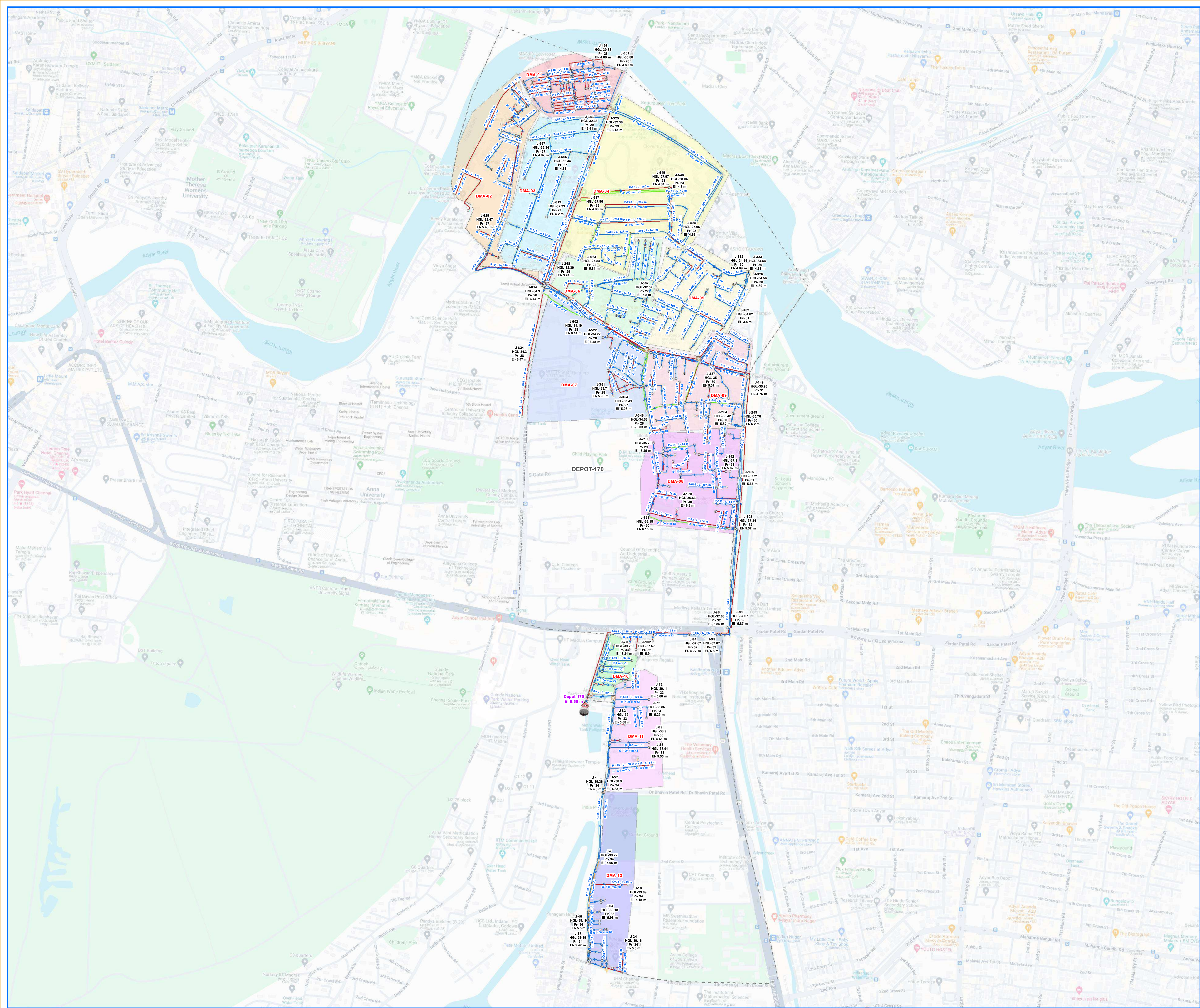
PROJECT :-
IMPROVEMENT OF EXISTING WATER DISTRIBUTION NETWORK IN ALL THE WATER DISTRIBUTION SYSTEMS IN AREA-X & XIII OF CHENNAI CITY

CLIENT :-
CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

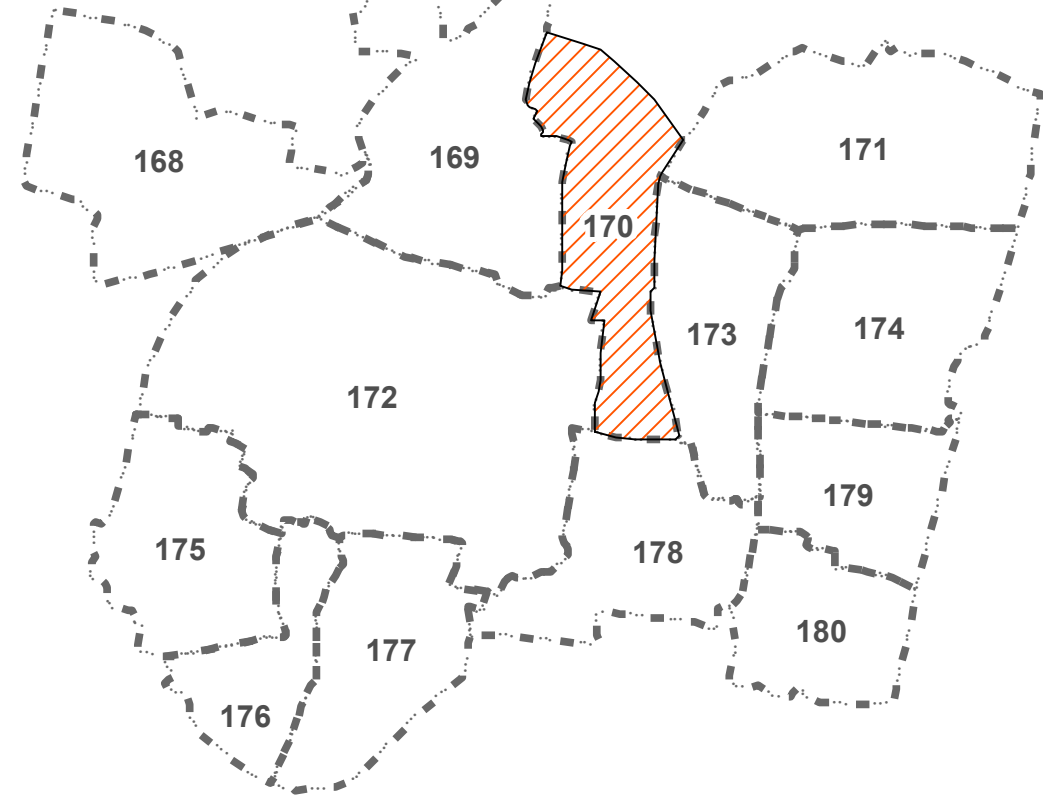
DRAWING TITLE :-
EXISTING & PROPOSED WATER SUPPLY NETWORK OF DEPOT 169/171 (OLD), AREA-XIII, CHENNAI

CONSULTANT:-
WATER CORPORATION OF ODISHA (WATCO)

Designed By:-		Signature/Stamp		Scale :- 1:2,627
S.M.DAS				Date:- 29-MAY, 2024
Checked By:-				Sheet:- 1
Approved By:-				Area:- XIII
				Zone:- XIII
				Depot:- 169/171 (OLD)



KEY MAP



LEGEND

- PUMP
- JUNCTION
- CONTROL UNIT
- UGR

DISTRIBUTION NETWORK (DIA IN MM)

- Existing
- Proposed
- Replace
- Replace PVC
- WATER DISTRIBUTION STATION

DMA BOUNDARY

- DMA-01
- DMA-02
- DMA-03
- DMA-04
- DMA-05
- DMA-06
- DMA-07
- DMA-08
- DMA-09
- DMA-10
- DMA-11
- DMA-12

ADMIN BOUNDARY

- DEPOT BOUNDARY (AREA-XIII)

Depot No-170 Abstract											
Row Labels	100	150	200	250	300	350	400	450	500	600	Grand Total
Existing	18421	6935		43	1753	833	14				27999
CI	18421	6935		43	1753	833	14				27629
DI											370
Proposed	5808	5121	776	1142	74	50	608	527	408	1718	16232
DI	5808	5121	776	1142	74	50	608	527	408	1718	16232
PVC Replace	29	263									292
DI	29	263									292
Replace	945	649	6	727							2327
DI	945	649	6	727							2327
Grand Total	25000	12964	792	1912	1827	883	622	527	408	1718	46600

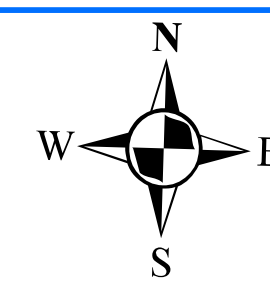
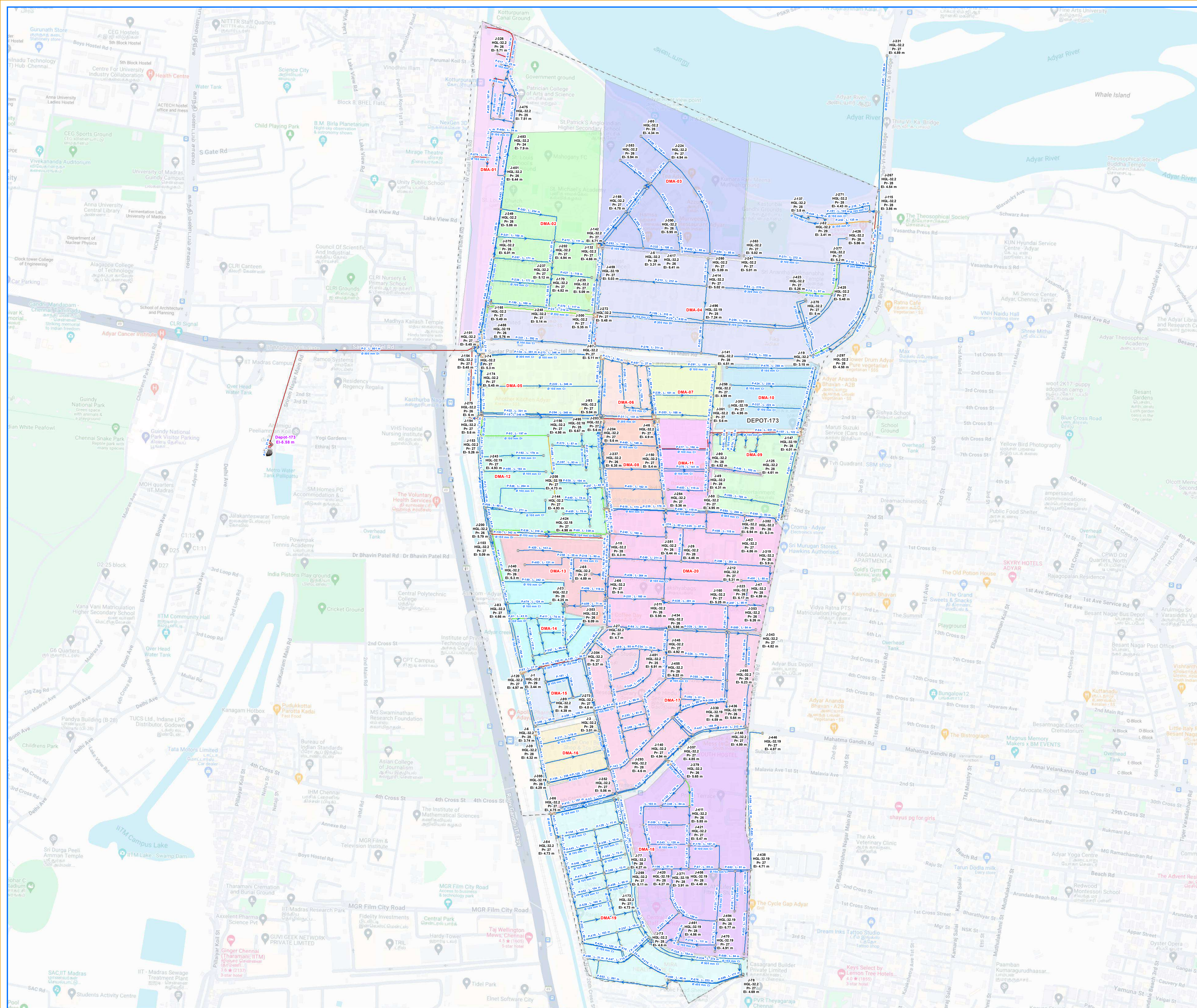
PROJECT :-
IMPROVEMENT OF EXISTING WATER DISTRIBUTION
NETWORK IN ALL THE WATER DISTRIBUTION SYSTEMS IN
AREA-X & XIII OF CHENNAI CITY

CLIENT :-
 CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE
BOARD (CMWSSB), CHENNAI, TAMILNADU

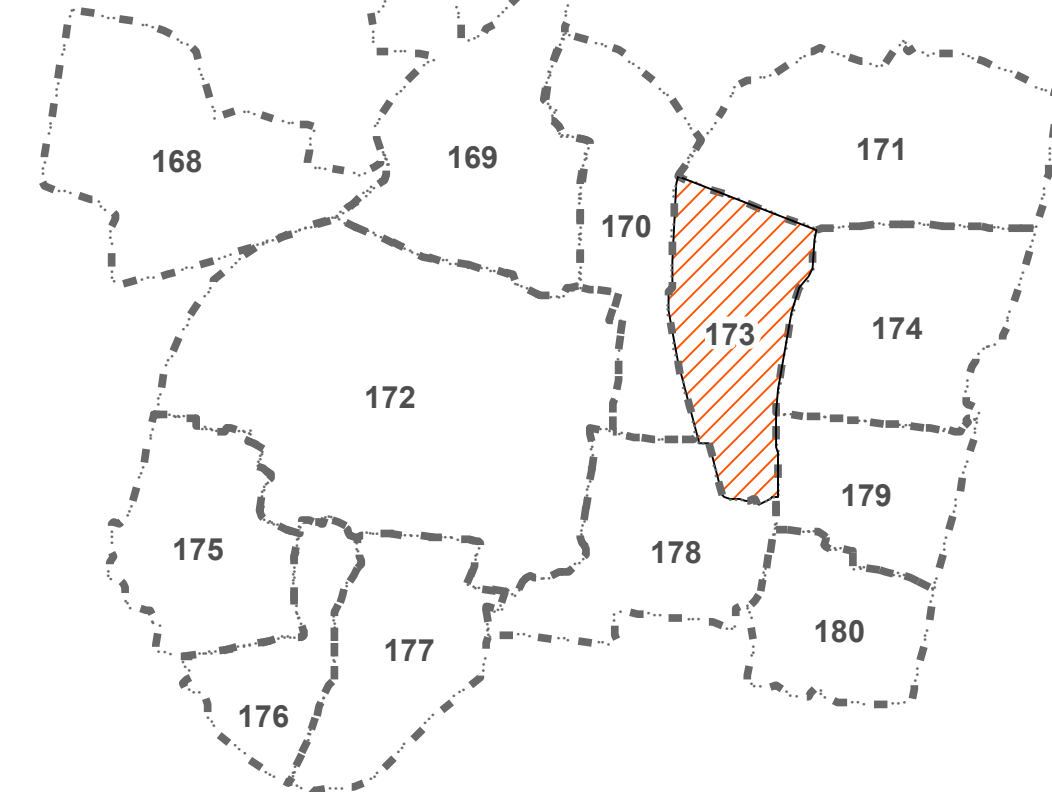
DRAWING TITLE :-
EXISTING & PROPOSED WATER SUPPLY NETWORK OF
DEPOT 170/172 (OLD), AREA-XIII, CHENNAI

CONSULTANT:-
 WATER CORPORATION OF ODISHA
(WATCO)

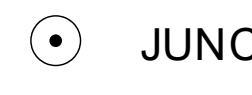
Designed By:-		Signature/Stamp		Scale :- 1:4,479	
S.M.DAS				Date:- 29-MAY, 2024	
Checked By:-				Sheet:- 1	
Approved By:-				Area:- XIII	
				Zone:- XIII	
				Depot:- 170/172 (OLD)	



KEY MAP



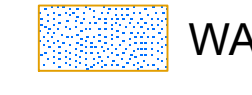
LEGEND

 UCB

DISTRIBUTION NETWORK (DIA IN MM)



EXP

**RMIN_BOUND**

DEPO

ADMIN BOUNDARY

DEPOT BOUNDARY (AREA-XIII)

Depot No 173 Abstract											
Row Labels	100	150	200	250	300	400	450	500	600	700	Grand Tot
Existing	27400	11845	1200	1370	1375	35	649	1767	2945	40	48226
CI	27400	11845	1200	1370	540	35	649	1767	2945	40	47891
DI					835						835
Proposed	544	1287	387		30			822			3070
DI	544	1287	387		30			822			3070
PVC Replace											358
DI		358									358
Replace		968	280	416							1664
DI		968	280	416							1664
Grand Total	27944	14458	1867	1786	1405	35	649	2589	2945	40	53718

PROJECT :-
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AREA-X & XIII OF CHENNAI CITY

CLIENT :-



CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

DRAWING TITLE :

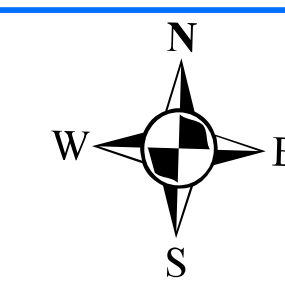
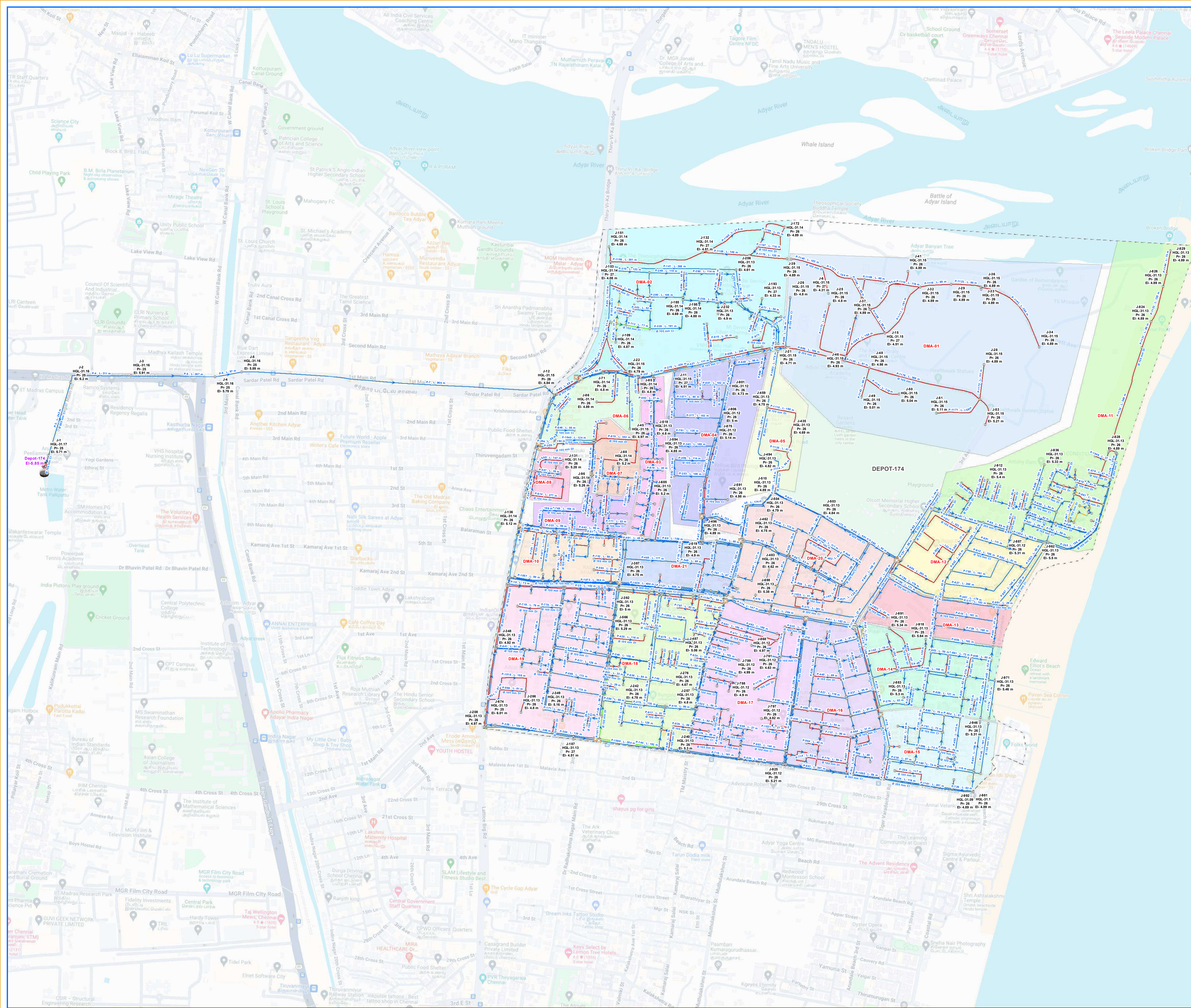
DEPOT 173/175 (OLD), AREA-XIII, CHENNAI

CONSULTANT:-

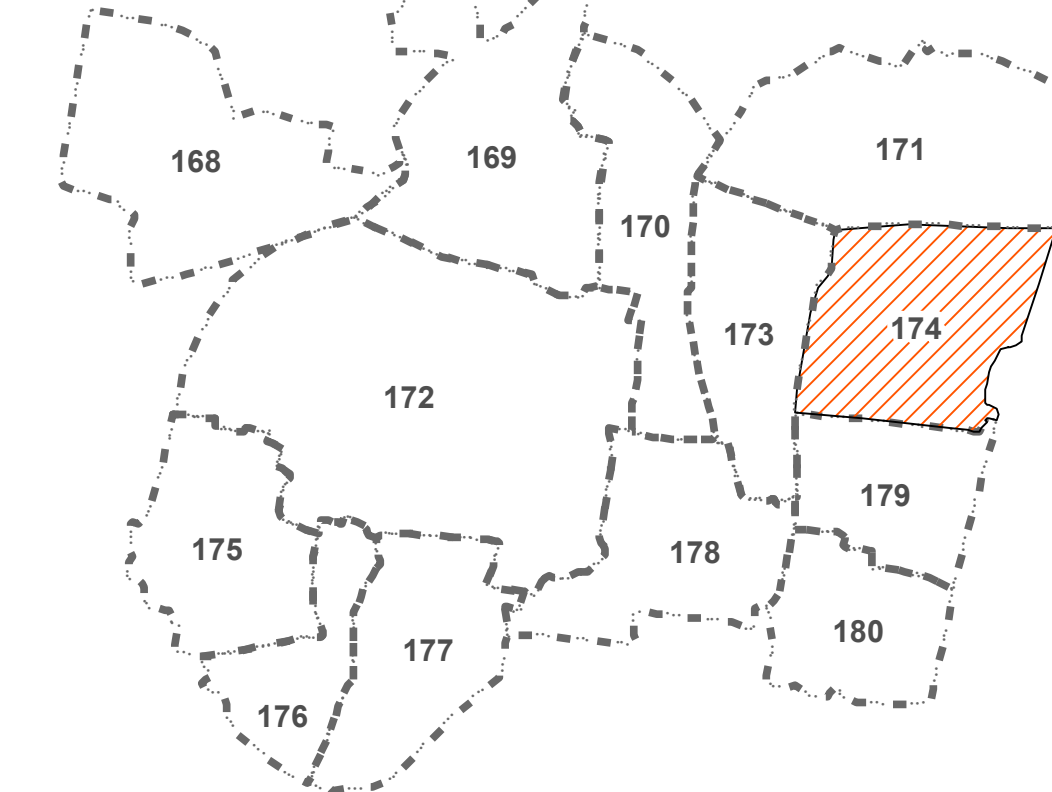


**WATER CORPORATION OF ODISHA
(WATCO)**

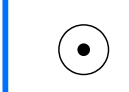
Designed By:- S.M.DAS	<i>Signature/Stamp</i>		Scale :- 1:3,535
Checked By:-			Date:- 29-May, 2024
Approved By:-			Sheet:- 1
			Area:- XIII
			Zone:- XIII
			Depot:- 173/175 (OLD)



KEY MAP



LEGEND



● JUNCTION

 CONTROL UNIT UGF

DISTRIBUTION NETWORK (DIA IN MM)



— Existing



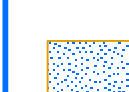
— Proposed



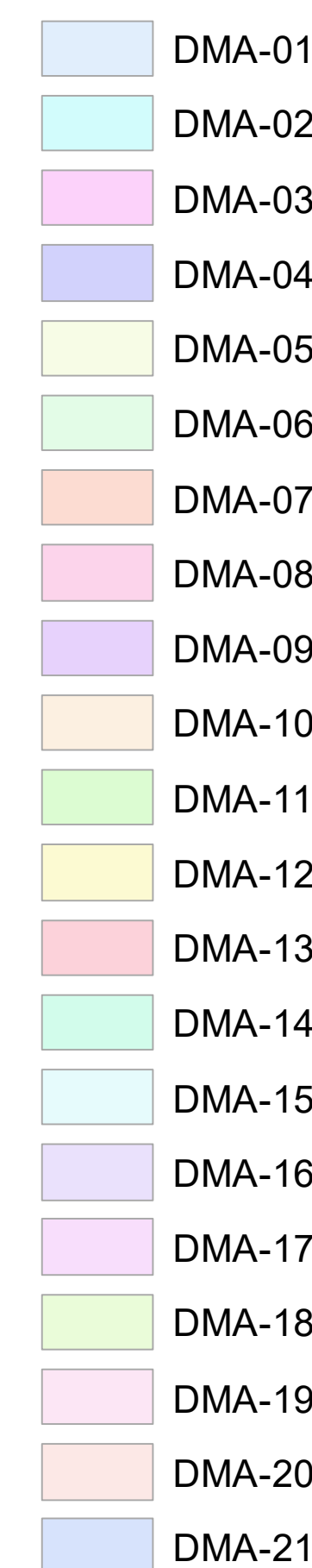
— Replace



— Replace PVC

 WATER DISTRIBUTION STATION

DMA BOUNDARY



ADMIN BOUNDARY



DEPOT BOUNDARY (AREA-XIII)

Deport Mo-174 Abstract											
Row Labels	100	150	200	250	300	350	450	500	600	700	Grand T
Existing	3011	11748	1576	896	790	1532	5085	723	1842	56	\$385
DI	29903	11484	1576	896	790	1532	5085	723	1842	56	\$1818
DI	214	264	197								
Proposed	17955	3015	232	100	463						\$176
DI	17955	3015	232	100	463						0.076
Replace		528									528
DI		528									528
Replace PVC		536									536
DI		536									536
Grand Total	48072	15827	1808	496	1243	1532	5085	723	1842	56	7668

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CLIENT :-


CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

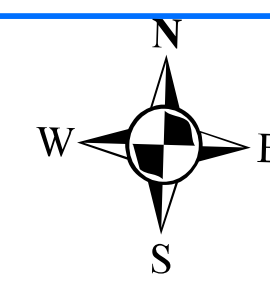
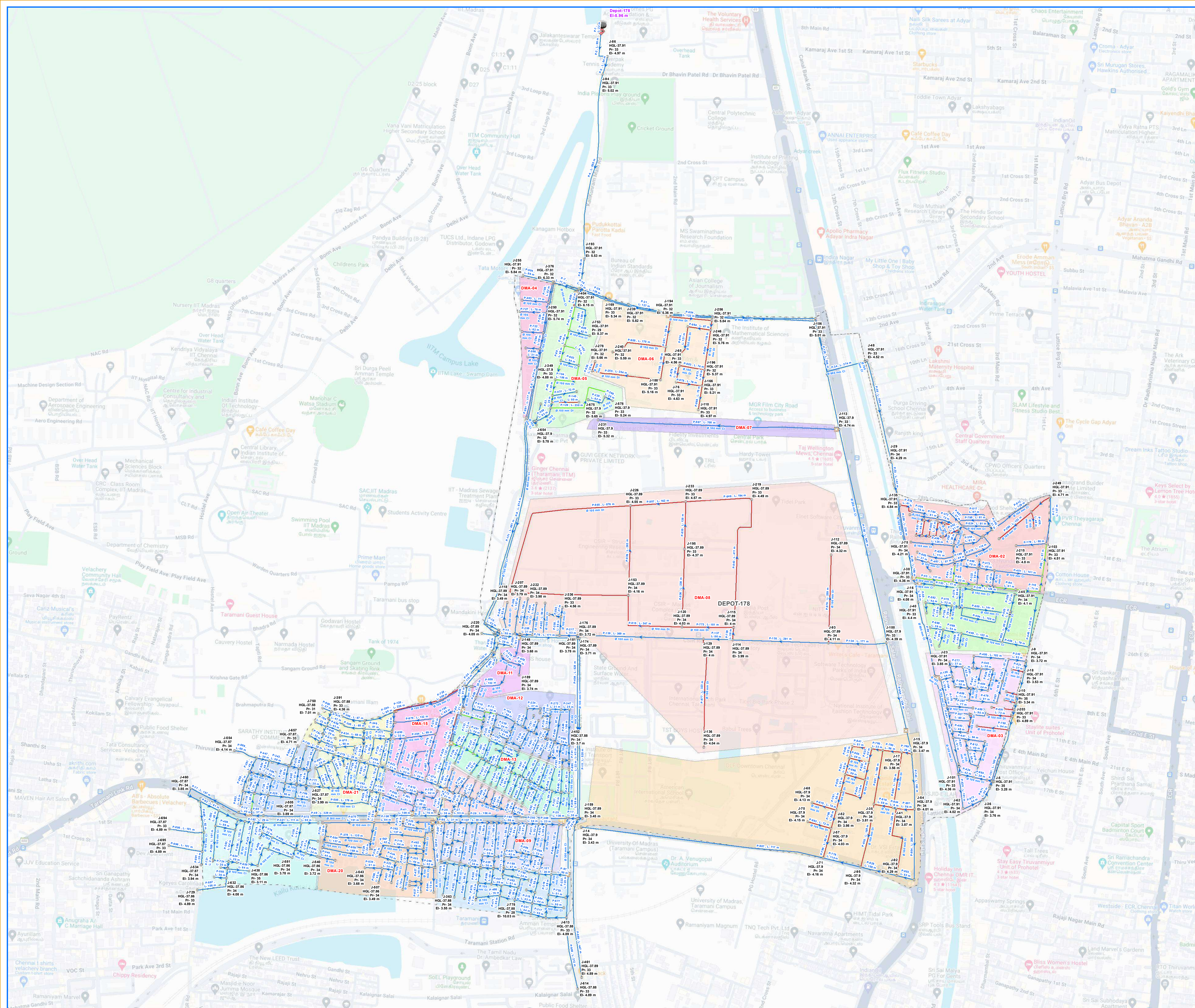
DRAWING TITLE :-

**EXISTING & PROPOSED WATER SUPPLY NETWORK OF
DEPOT 174/176 (OLD), AREA-XIII, CHENNAI**

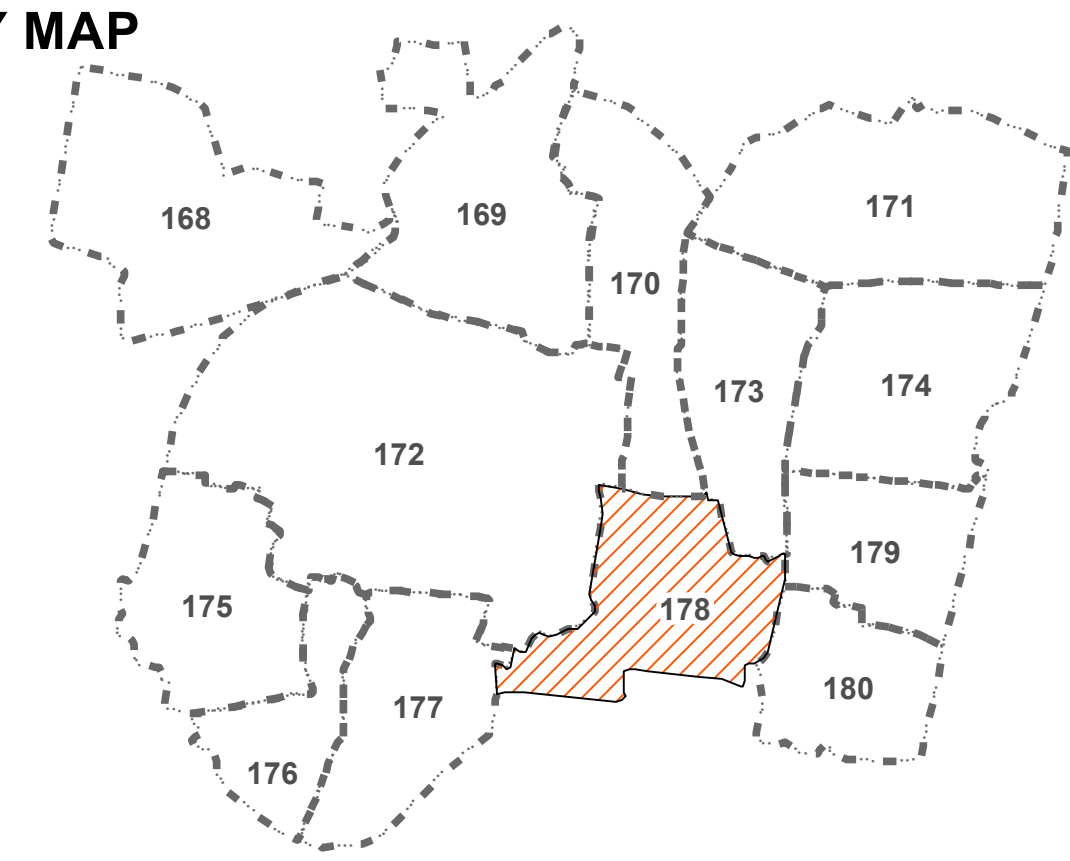
CONSULTANT:-


**WATER CORPORATION
(WATCO)**

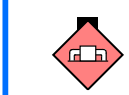
Designed By:-	<i>Signature/Stamp</i>		Scale :- 1:3,840
S.M.DAS			Date:- 29-MAY, 20
Checked By:-			Sheet:- 1
Approved By:-			Area:- XIII Zone:- XIII Depot:- 174/176 (OL)



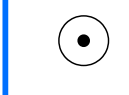
KEY MAP



LEGEND



PUMP



● JUNCTION

 CONTROL UNIT UGR

DISTRIBUTION NETWORK (DIA IN MM)



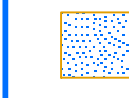
— Existing



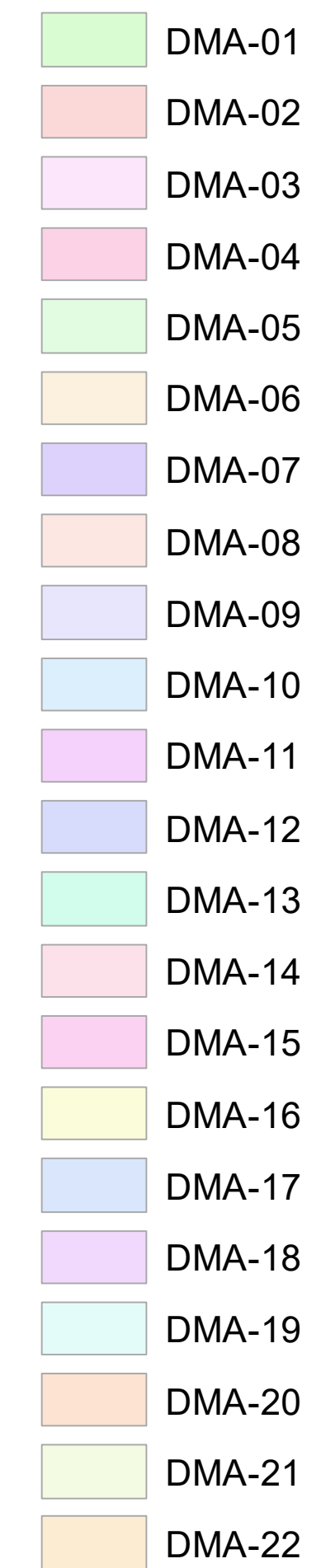
— Propose



— Replace

 WATER DISTRIBUTION STATION

DMA BOUNDARY



ADMIN BOUNDARY



DEPOT BOUNDARY (AREA-XIII)

Depto No-178 Asset											
Row Labels	100	150	200	250	300	450	600	700	800	900	Grand Tot
Existing	27783	5919	2467	235	1562	2640	972	312	723	811	43424
DI	27783	5919	2367	235	1562	2640	972	312	723	811	43304
Proposed	7435	772									8219
DI	7435	772									8219
Replace		2258									1649
DI		1258									1649
Grand Total	35218	7949	5401	235	1574	2640	972	312	723	811	53442

PROJECT :-
IMPROVEMENT OF EXISTING WATER DISTRIBUTION
NETWORK IN ALL THE WATER DISTRIBUTION SYSTEMS IN
AREA-X & XIII OF CHENNAI CITY

CLIENT :-


CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

DRAWING TITLE :-

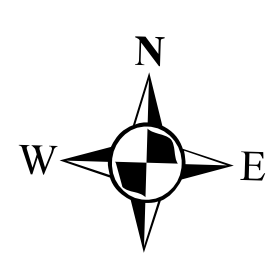
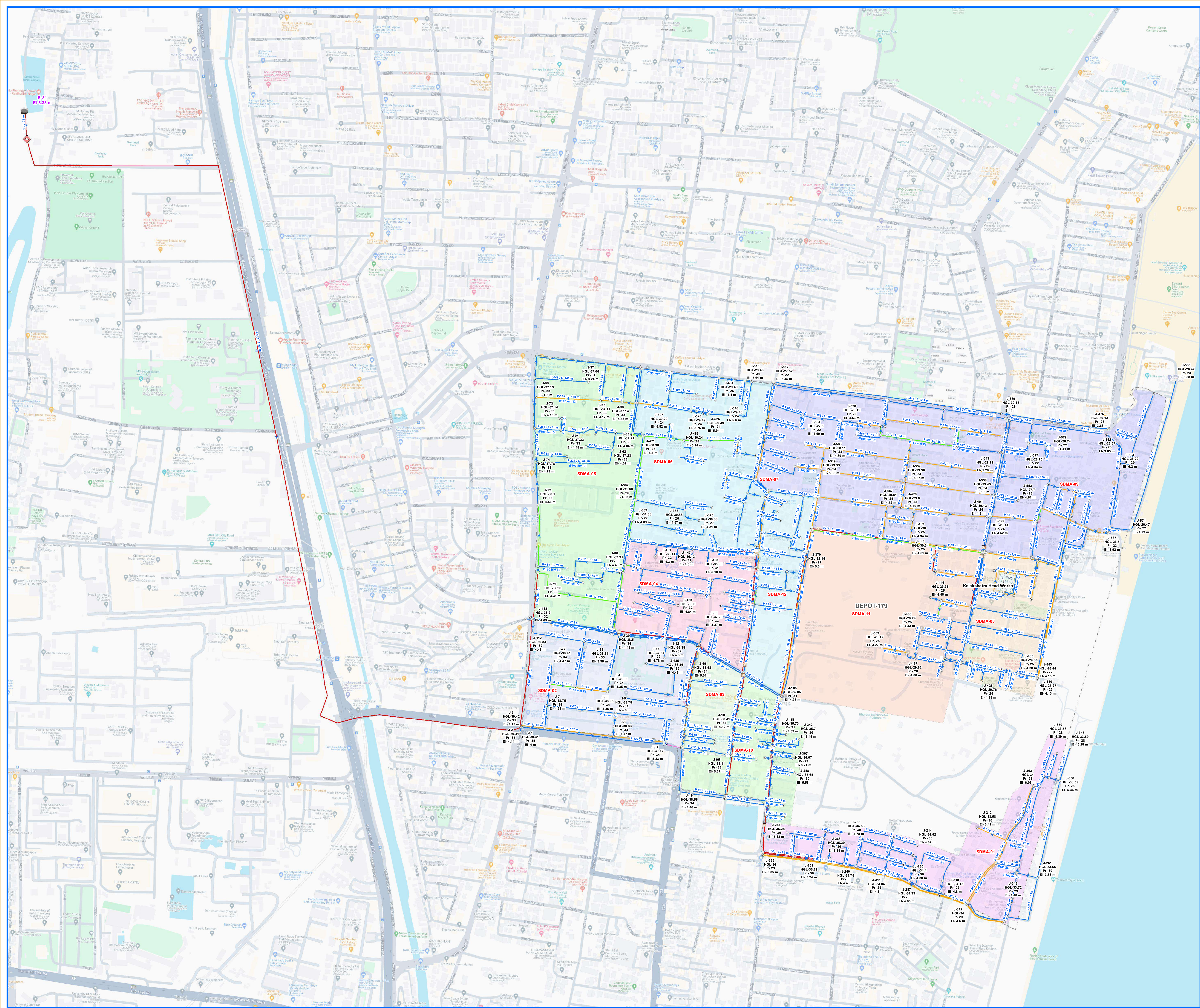
**EXISTING & PROPOSED WATER SUPPLY NETWORK OF
DEPOT 178/180 (OLD), AREA-XIII, CHENNAI**

CONSULTANT:-

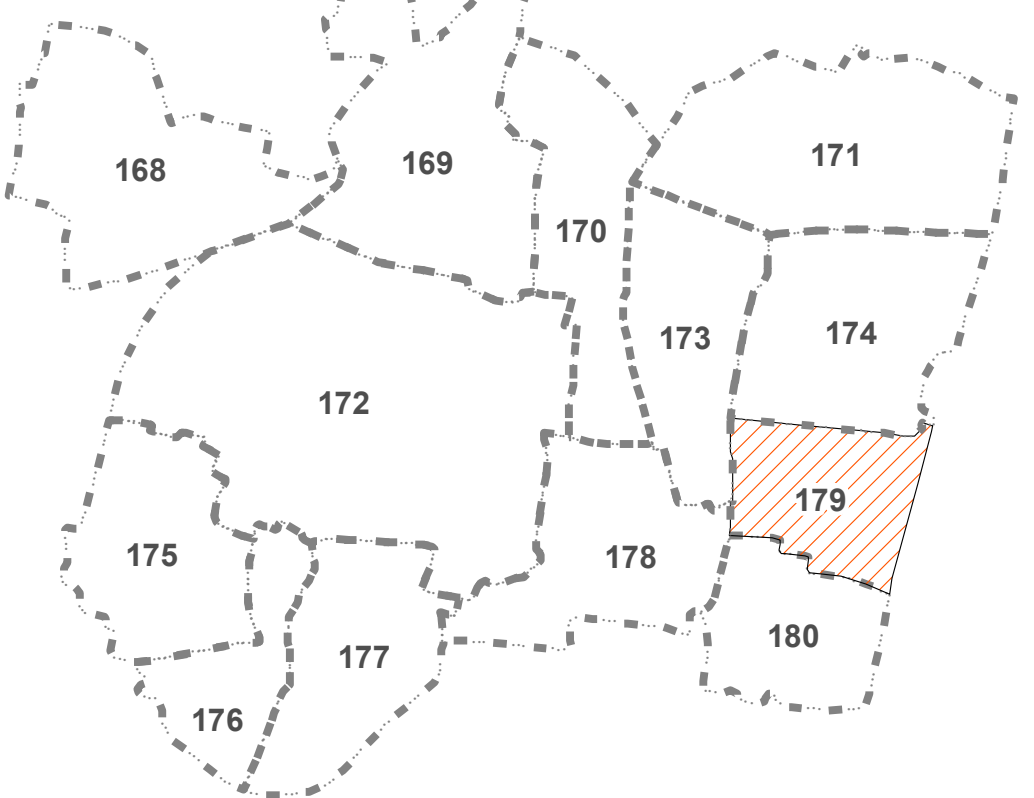


**WATER CORPORATION OF ODISHA
(WATCO)**

Designed By:- S.M.DAS	<i>Signature/Stamp</i>	Scale :- 1:3,541
Checked By:-		Date:- 29-MAY,2024
Approved By:-		Sheet:- 1
		Area:- XIII
		Zone:- XIII
		Depot:- 178/180 (OLD



KEY MAP



LEGEND

PUMP

JUNCTION

CONTROL UNIT

UGR

Existing

Proposed

Replace

Replace PVC

DISTRIBUTION MAIN

WATER DISTRIBUTION STATION

DMA DETAILS

DMA-01
DMA-02
DMA-03
DMA-04
DMA-05
DMA-06
DMA-07
DMA-08
DMA-09
DMA-10
DMA-11
DMA-12

ADMIN BOUNDARY

DEPOT BOUNDARY (AREA-XIII)

Row Labels	100	150	200	250	300	350	400	450	Grand Total
Existing	19237	5490	1908	563	253	1320	747	468	29859
CI	2189	3473	200		915	747	468		23341
DI	1368	194	1202	467	253	405			6254
Proposed									
DI	1368	194	1202	467					3033
Replace									
DI									
Replace PVC	6439	688	2231						9358
DI	6439	688	2231						9358
Grand Total	27044	7982	5391	1495	253	1320	747	3501	47793

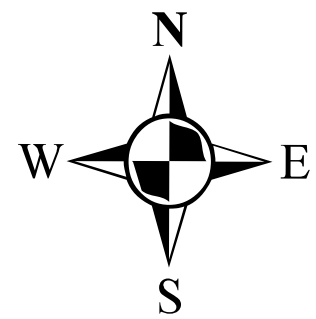
PROJECT :-
IMPROVEMENT OF EXISTING WATER DISTRIBUTION NETWORK IN ALL THE WATER DISTRIBUTION SYSTEMS IN AREA-X & XIII OF CHENNAI CITY

CLIENT :-
CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

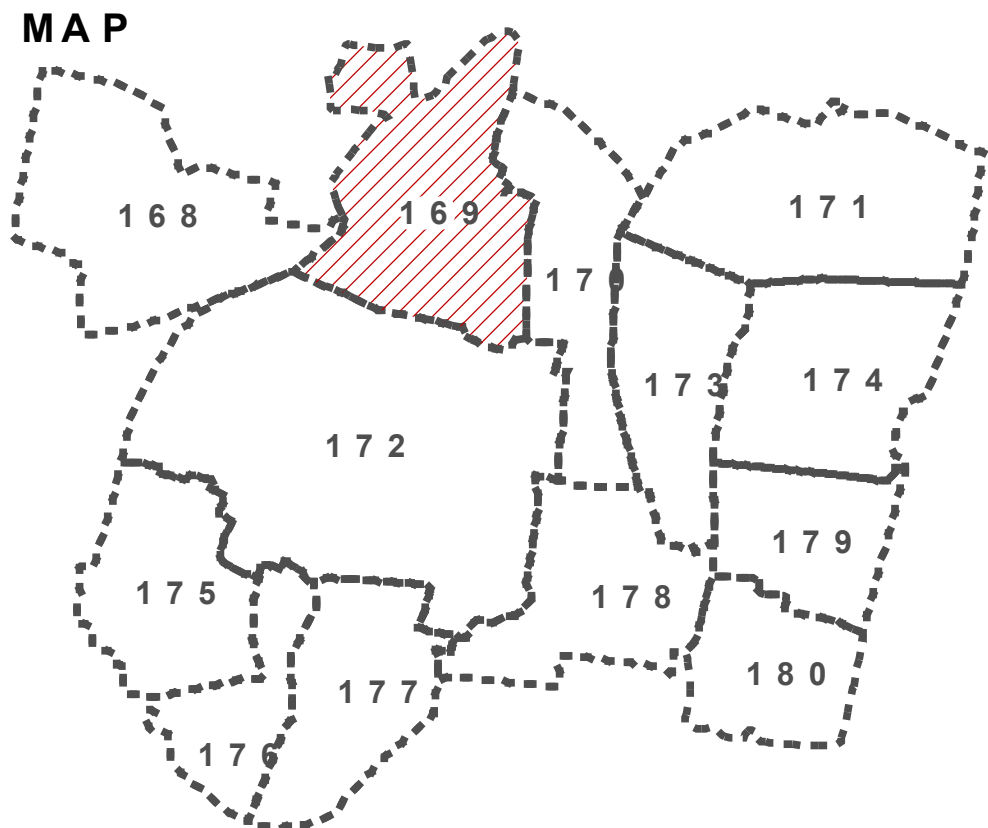
DRAWING TITLE :-
EXISTING & PROPOSED WATER SUPPLY NETWORK OF DEPOT 179/181 (OLD), AREA-XIII, CHENNAI

CONSULTANT:-
WATER CORPORATION OF ODISHA (WATCO)

Designed By:-	Signature/Stamp	Scale :- 1:3,284
Checked By:-		Date:- 29-MAY, 2024
Approved By:-		Sheet:- 1
		Area:- XIII
		Zone:- XIII
		Depot:-179/181 (OLD)



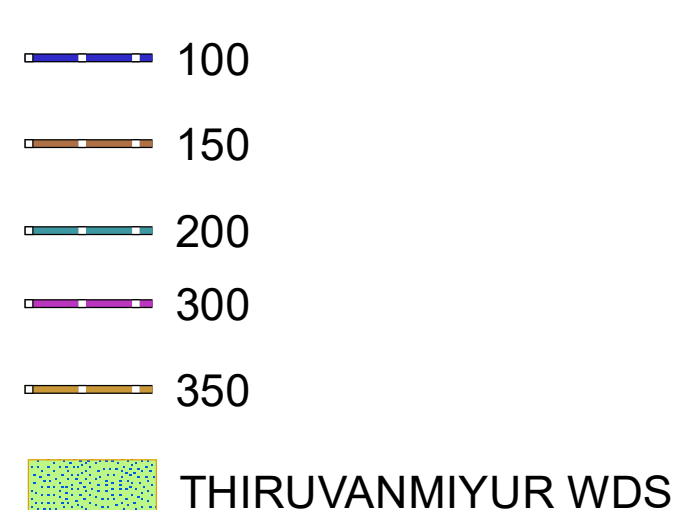
KEY MAP



L legend

- Pump
- Junction
- CONTROL UNIT

FEEDER MAIN DIA IN MM



ADMIN BOUNDARY

CMWSSB AREA XIII DEPOT BOUNDARY

SUB DMA BOUNDARY

- DMA-1
- DMA-2
- DMA-3
- DMA-4
- DMA-5
- DMA-6
- DMA-7
- DMA-8

PROJECT :-

IMPROVEMENT OF EXISTING WATER DISTRIBUTION NETWORK IN ALL THE WATER DISTRIBUTION SYSTEM IN AREA- X AND XIII OF CHENNAI CITY

CLIENT :-

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

DRAWING TITLE :-

EXISTING TRANSMISSION MAIN NETWORK OF DEPOT 169 AREA XIII, CHENNAI

CONSULTANT :-

WATER CORPORATION OF ODISHA (WATCO)

DESIGNED BY :-

CHECKED BY :-

APPROVED BY :-

SIGNATURE/

SCALE :-

1:67.567

DATE :-

STAMP2024

SHEET :-

AREA :-

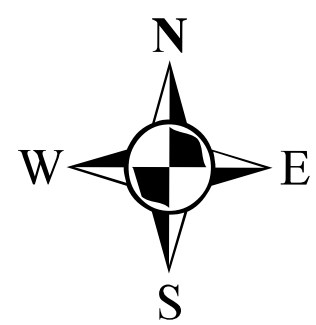
XIII

ZONE :-

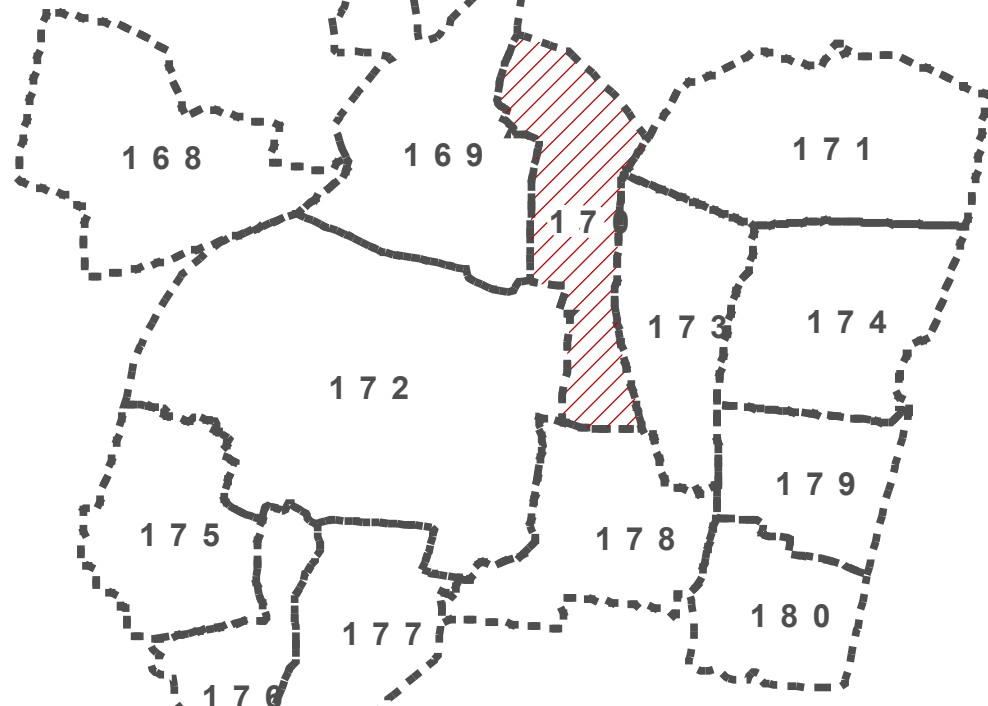
XIII

DEPOT :-

169 (NEW)



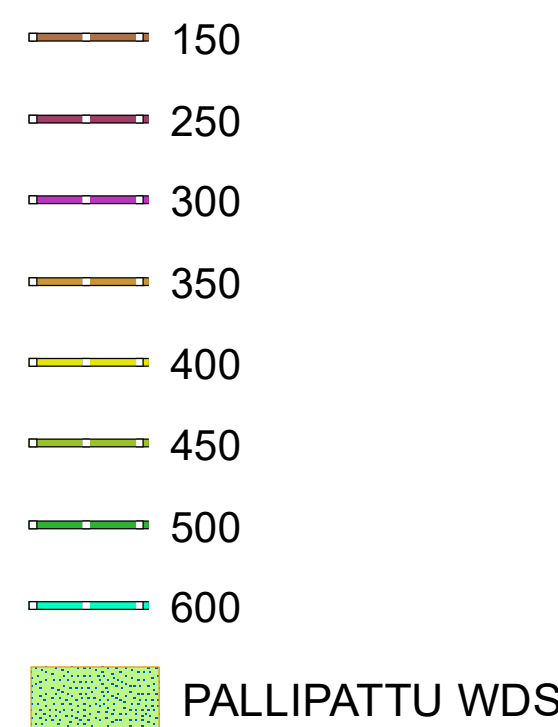
KEY MAP



L legend

- Pump
- Junction
- CONTROL UNIT

FEEDER MAIN DIA IN MM



ADMIN BOUNDARY

CMWSSB AREA XIII DEPOT BOUNDARY

SUB DMA BOUNDARY

- SDMA-01
- SDMA-02
- SDMA-03
- SDMA-04
- SDMA-05
- SDMA-06
- SDMA-07
- SDMA-08
- SDMA-09
- SDMA-10
- SDMA-11
- SDMA-12

PROJECT :-

IMPROVEMENT OF EXISTING WATER DISTRIBUTION NETWORK IN ALL THE WATER DISTRIBUTION SYSTEM IN AREA- X AND XIII OF CHENNAI CITY

CLIENT :-

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

DRAWING TITLE :-

EXISTING TRANSMISSION MAIN NETWORK OF DEPOT 170 AREA XIII, CHENNAI

CONSULTANT :-

WATER CORPORATION OF ODISHA (WATCO)

DESIGNED BY :-

CHECKED BY :-

APPROVED BY :-

SIGNATURE/

SCALE :-

1:4,228

SHEET :-

AREA :-

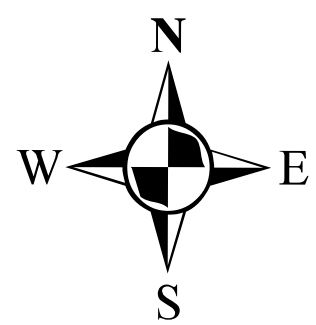
XIII

ZONE :-

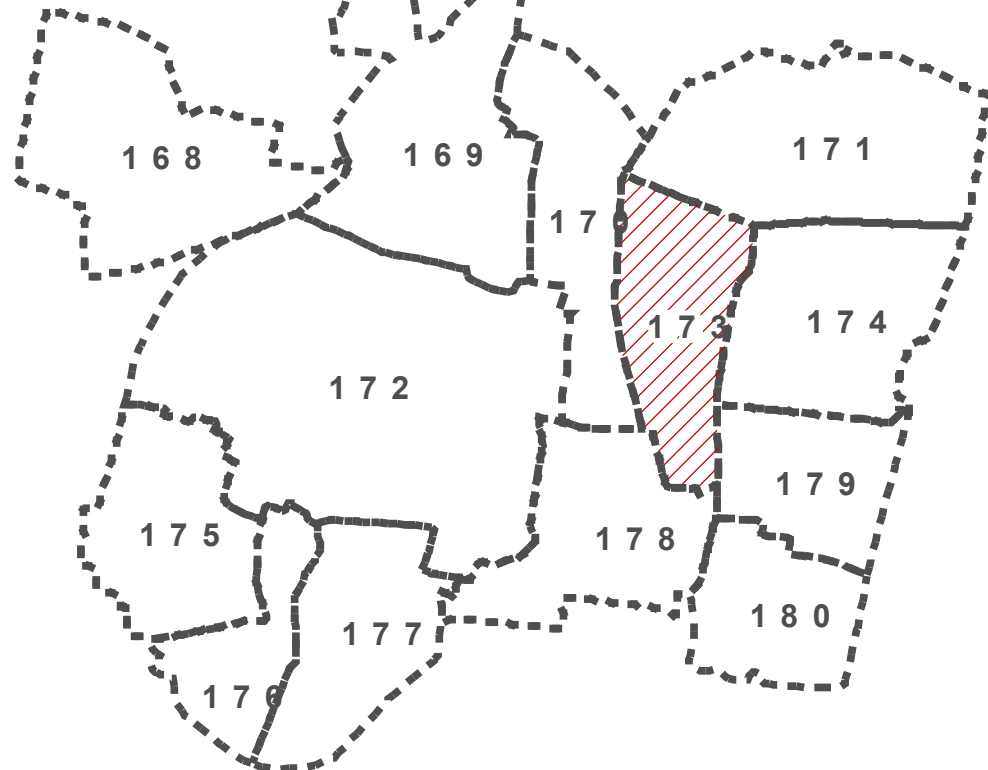
XIII

DEPT :-

170 (NEW)



KEY MAP



L legend

- Pump
- Junction
- CONTROL UNIT

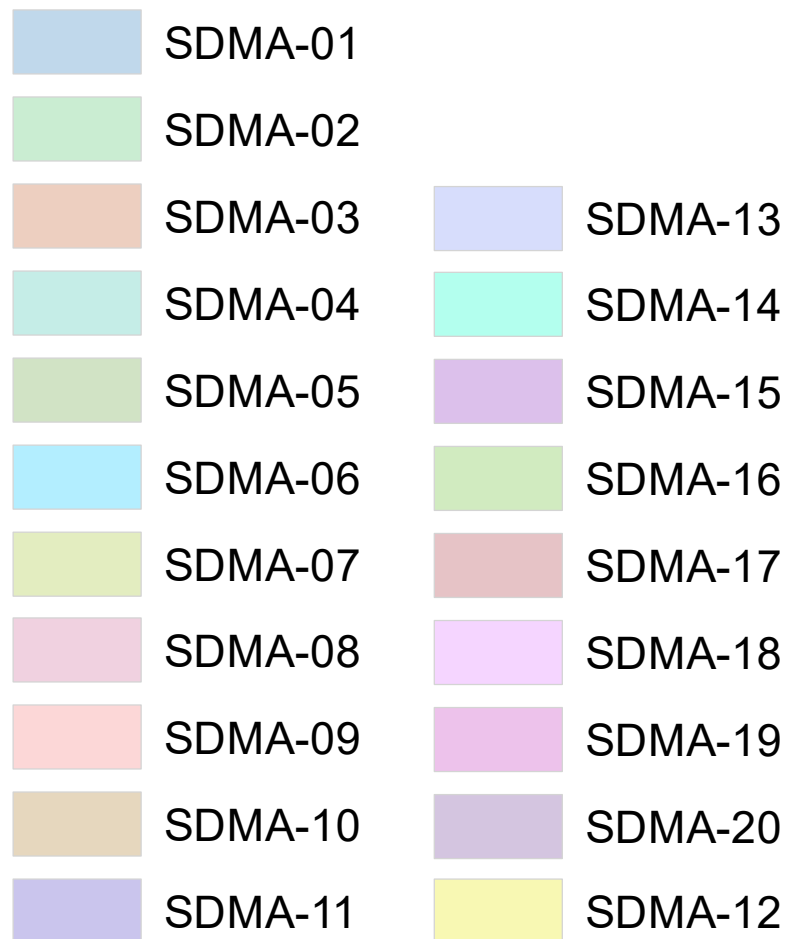
FEEDER MAIN DIA IN MM



ADMIN BOUNDARY

CMWSSB AREA XIII DEPOT BOUNDARY

SUB DMA BOUNDARY



PROJECT :-

IMPROVEMENT OF EXISTING WATER DISTRIBUTION NETWORK IN ALL THE WATER DISTRIBUTION SYSTEM IN AREA- X AND XIII OF CHENNAI CITY

CLIENT :-

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

DRAWING TITLE :-

EXISTING TRANSMISSION MAIN NETWORK OF DEPOT 173 AREA XIII, CHENNAI

CONSULTANT :-

WATER CORPORATION OF ODISHA (WATCO)

DESIGNED BY :-

SIGNATURE/

CHECKED BY :-

APPROVED BY :-

SCALE :-

1:3,630

20-01-2024

SHEET :-

AREA :-

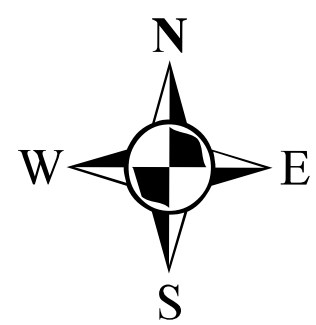
XIII

ZONE :-

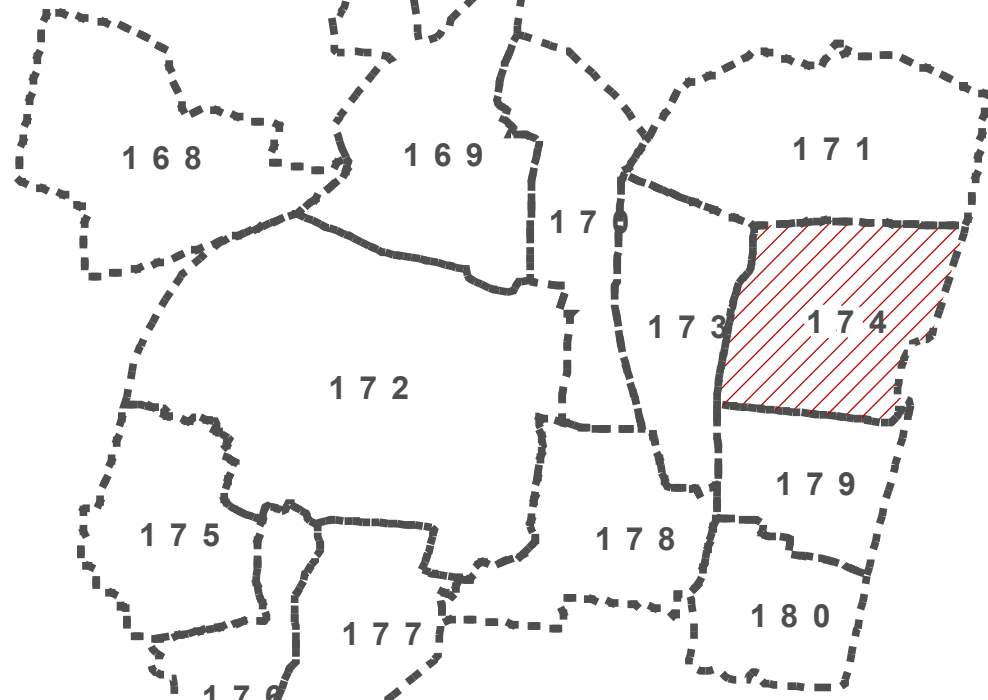
XIII

DEPOT :-

173 (NEW)



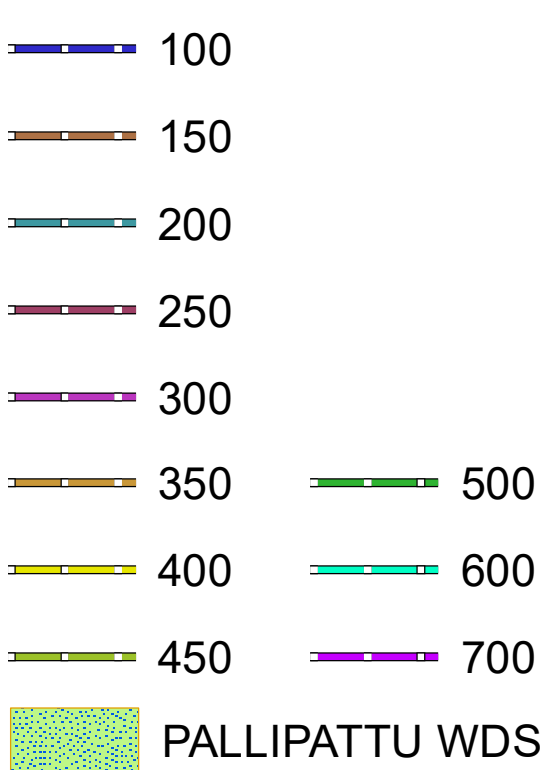
KEY MAP



L legend

- Pump
- Junction
- CONTROL UNIT

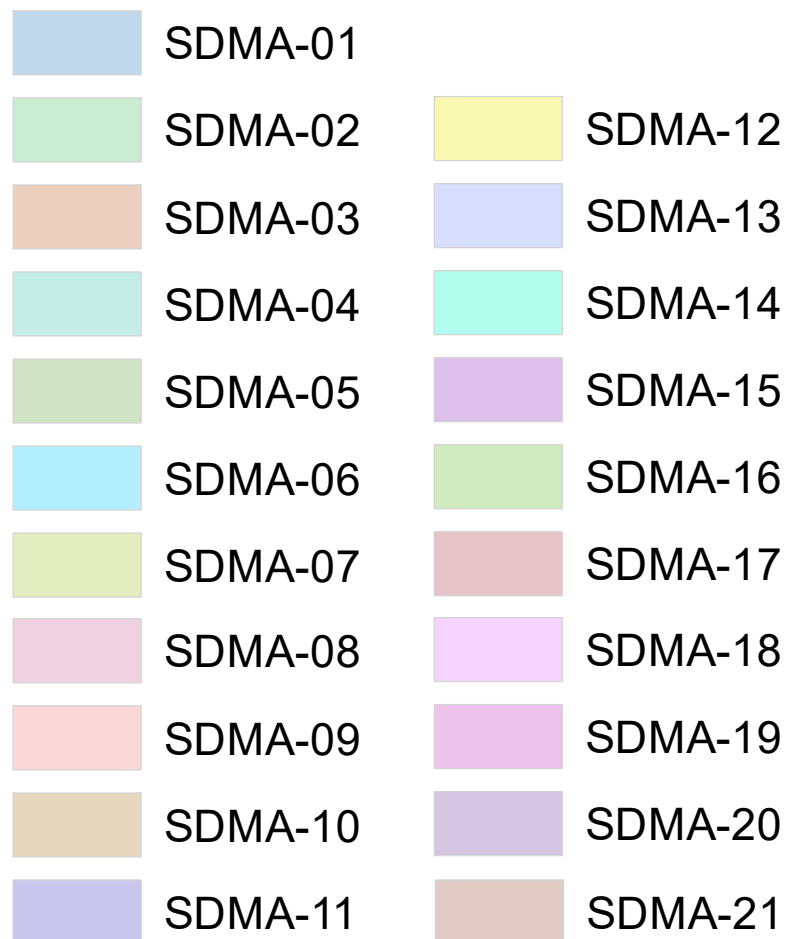
FEEDER MAIN DIA IN MM



ADMIN BOUNDARY

CMWSSB AREA XIII DEPOT BOUNDARY

SUB DMA BOUNDARY



PROJECT :-

IMPROVEMENT OF EXISTING WATER DISTRIBUTION NETWORK IN ALL THE WATER DISTRIBUTION SYSTEM IN AREA- X AND XIII OF CHENNAI CITY

CLIENT :-

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

DRAWING TITLE :-

EXISTING TRANSMISSION MAIN NETWORK OF DEPOT 174 AREA XIII, CHENNAI

CONSULTANT :-

WATER CORPORATION OF ODISHA (WATCO)

DESIGNED BY :-

SCALE :-

CHECKED BY :-

1:2481

APPROVED BY :-

STAMP

20-01-2024

SHEET :-

AREA :-

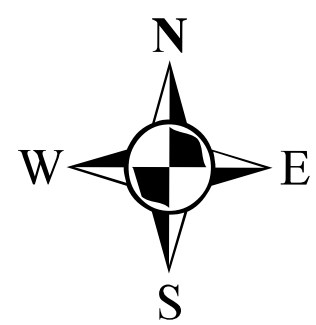
XIII

ZONE :-

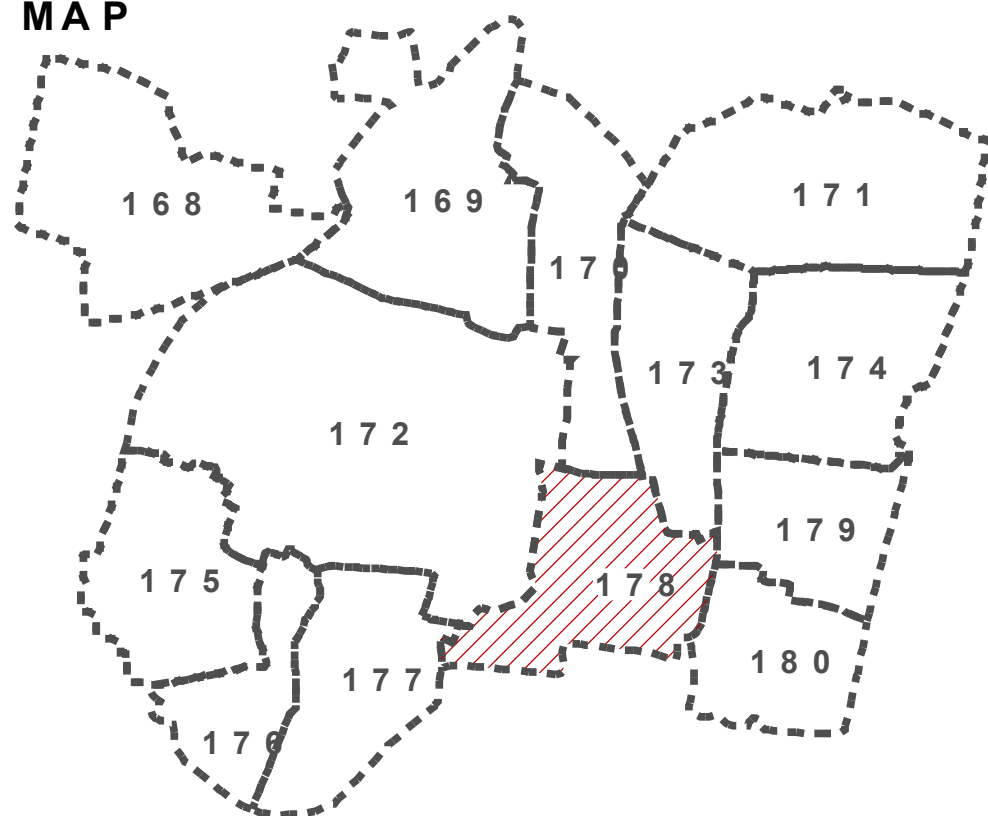
XIII

DEPOT :-

174 (NEW)



KEY MAP



L legend

- Pump
- Junction
- CONTROL UNIT

FEEDER MAIN DIA IN MM

- 100
- 150
- 200
- 300
- 450
- 600
- 900
- PALLIPATTU WDS

ADMIN BOUNDARY

CMWSSB AREA XIII DEPOT BOUNDARY

SUB DMA BOUNDARY

- | | |
|---------|---------|
| SDMA-01 | SDMA-12 |
| SDMA-02 | SDMA-13 |
| SDMA-03 | SDMA-14 |
| SDMA-04 | SDMA-15 |
| SDMA-05 | SDMA-16 |
| SDMA-06 | SDMA-17 |
| SDMA-07 | SDMA-18 |
| SDMA-08 | SDMA-19 |
| SDMA-09 | SDMA-20 |
| SDMA-10 | SDMA-21 |
| SDMA-11 | SDMA-22 |

PROJECT :-

IMPROVEMENT OF EXISTING WATER DISTRIBUTION NETWORK IN ALL THE WATER DISTRIBUTION SYSTEM IN AREA- X AND XIII OF CHENNAI CITY

CLIENT :-

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

DRAWING TITLE :-

EXISTING TRANSMISSION MAIN NETWORK OF DEPOT 178 AREA XIII, CHENNAI

CONSULTANT :-

WATER CORPORATION OF ODISHA (WATCO)

DESIGNED BY :-

SCALE :-
1:2,597

20-01-2024

CHECKED BY :-

SHEET :-

APPROVED BY :-

AREA :-
XIII

ZONE :-
XIII

DEPOT :-
178 (NEW)

SCALE :-
1:2,597

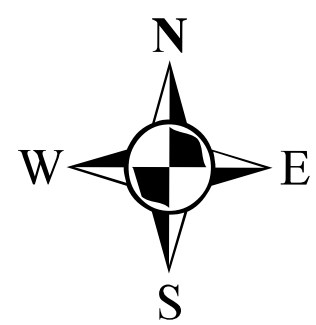
20-01-2024

SHEET :-

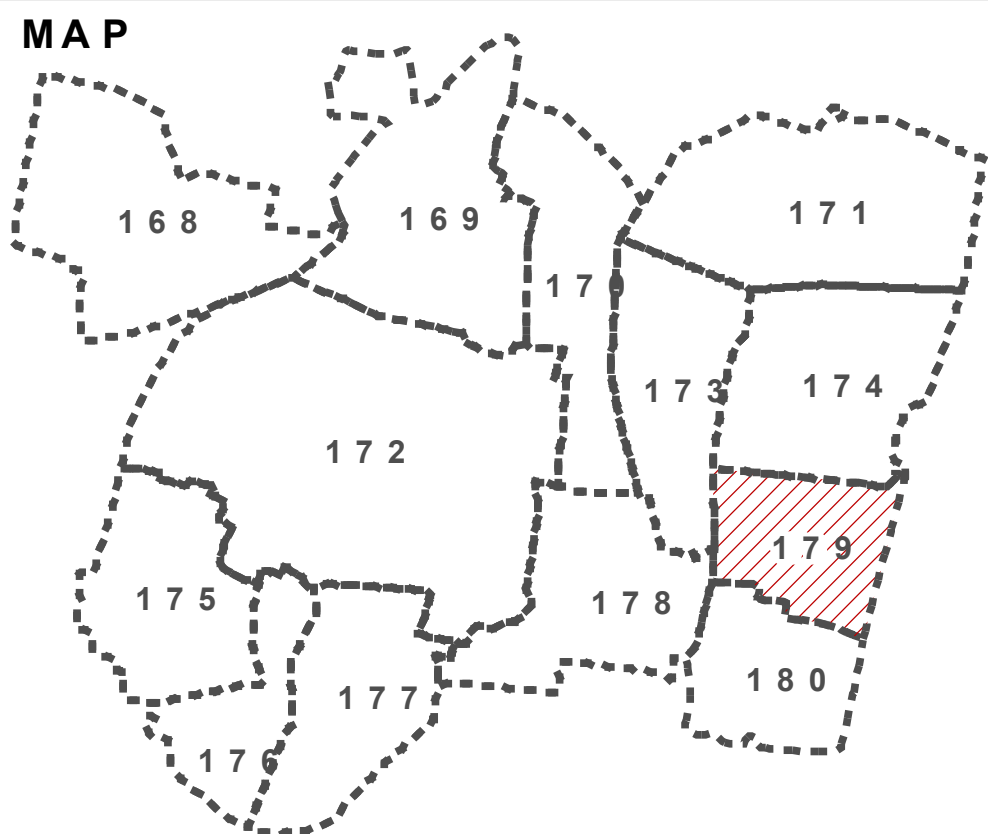
AREA :-
XIII

ZONE :-
XIII

DEPOT :-
178 (NEW)



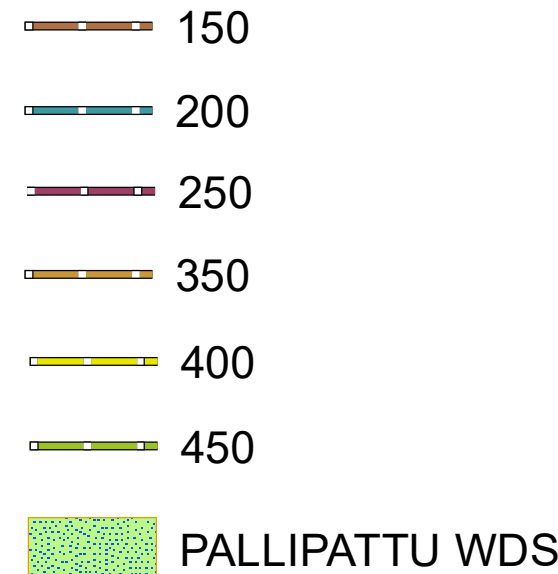
KEY MAP



L legend

- Pump
- Junction
- CONTROL UNIT

FEEDER MAIN DIA IN MM



ADMIN BOUNDARY

CMWSSB AREA XIII DEPOT BOUNDARY

SUB DMA BOUNDARY

- DMA-1
- DMA-2
- DMA-3
- DMA-4
- DMA-5
- DMA-6
- DMA-7
- DMA-8
- DMA-9
- DMA-10
- DMA-11
- DMA-12

PROJECT :-

IMPROVEMENT OF EXISTING WATER DISTRIBUTION NETWORK IN ALL THE WATER DISTRIBUTION SYSTEM IN AREA- X AND XIII OF CHENNAI CITY

CLIENT :-

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

DRAWING TITLE :-

EXISTING TRANSMISSION MAIN NETWORK OF DEPOT 179 AREA XIII, CHENNAI

CONSULTANT :-

WATER CORPORATION OF ODISHA (WATCO)

DESIGNED BY :-

SIGNATURE/

CHECKED BY :-

APPROVED BY :-

SCALE :-

1:67.567

11-01-2024

SHEET :-

AREA :-

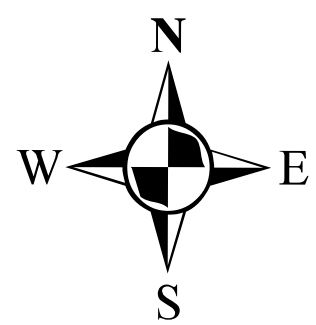
XIII

ZONE :-

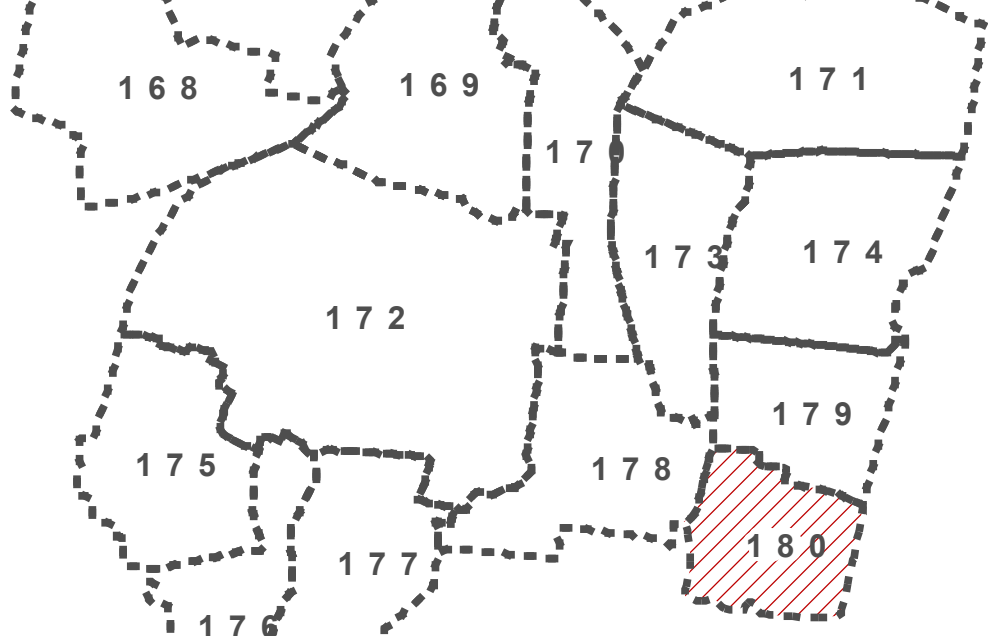
XIII

DEPOT :-

179 (NEW)



KEY MAP



L legend

- Pump
- Junction
- CONTROL UNIT
- FEEDER MAIN DIA IN MM
 - 100
 - 150
 - 200
 - 250
 - 300
 - 350
 - 450
 - 600
 - 700
- THIRUVANMIYUR WDS

ADMIN BOUNDARY

- CMWSSB AREA XIII DEPOT BOUNDARY
- SUB DMA BOUNDARY

DMA-1	DMA-11	DMA-21
DMA-2	DMA-12	DMA-22
DMA-3	DMA-13	DMA-23
DMA-4	DMA-14	DMA-24
DMA-5	DMA-15	DMA-25
DMA-6	DMA-16	DMA-26
DMA-7	DMA-17	DMA-27
DMA-8	DMA-18	DMA-28
DMA-9	DMA-19	
DMA-10	DMA-20	

PROJECT :-

IMPROVEMENT OF EXISTING WATER DISTRIBUTION NETWORK IN ALL THE WATER DISTRIBUTION SYSTEM IN AREA- X AND XIII OF CHENNAI CITY

CLIENT :-

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD (CMWSSB), CHENNAI, TAMILNADU

DRAWING TITLE :-

EXISTING TRANSMISSION MAIN NETWORK OF DEPOT 180 AREA XIII, CHENNAI

CONSULTANT :-

WATER CORPORATION OF ODISHA (WATCO)

DESIGNED BY :-

SI G NATURE /

CHECKED BY :-

APPROVED BY :-

SCALE :-

1:2033.78

DATE :-

STAMP 2024

SHEET :-

AREA :-

XIII

ZONE :-

XIII

DEPOT :-

180 (NEW)