

# PMC for 400 MLD SWRO Desalination Plant at Perur, Chennai

## Consortium Partners

SMEC International Pty. Ltd. (ACN-065440619/FCRN-F01483)

NJS Engineers India Pvt Ltd, India (CIN - U74210PN2007PTC129798)

Tata Consulting Engineers Limited, India (CIN- U74210MH1999PLC123010)

SMEC (India) Pvt. Ltd. (CIN: U93000DL1997PTC088574)



Ref: SSNT/ CMWSSB / 5061185/340

Date: 29<sup>th</sup> April 2021

To,  
**The Superintending Engineer (Desalination)**  
Urban Administrative Building,  
2<sup>nd</sup> Floor, No.75, Santhome High Road,  
MRC Nagar, Raja Annamalaipuram,  
Chennai 600 028, Tamil Nadu, India

**Sub:** JICA Assisted Project for Construction of 400 MLD Seawater Reverse Osmosis Desalination Plant at Perur  
**CP2- Plot Area Required for Proposed 240 MLD GLR and Pumping Station at Porur - Reg.**

**Ref:** 1. Our Letter No. SSNT PMC 400 MLD/ CMWSSB / 5061185/ 285, dated 19.02.2021  
2. Our Letter No. SMEC/ CMWSSB / 7061563/005, dated 20.01.2020  
3. Your Letter no. Lr.no.CMWSSB/SE(Desal)/400 MLD Plant / PMC/2020, dated 13.01.2020  
4. Our Contract Agreement with CMWSSB, dated 09.01.2020

Dear Sir,

This is in continuation to the letter vide ref. no.1, the layout & the area required for the GLR & Pumping Station is finalized after discussion with CMWSSB Desal team, which is about 8507 Sq. Mtr./ 0.85 Hectares/ 2.1 Acres at Porur.

This is for your kind information and perusal. We request your good self to make sure that the earmarked area is preserved for the intended purpose of construction of GLR & Pumping Station at Porur.

Thanking you and assuring our services at all times.

Yours truly,  
For **Consortium of SMEC International Pty Ltd-TCE-NJS Engineers India Pvt. Ltd.-SMEC (India) Pvt. Ltd.**

  
**S.Srinivasarao**  
Project Coordinator



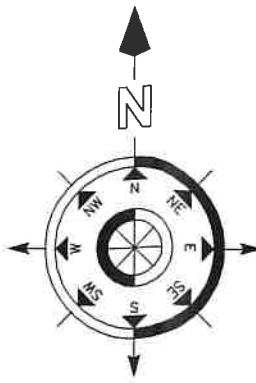
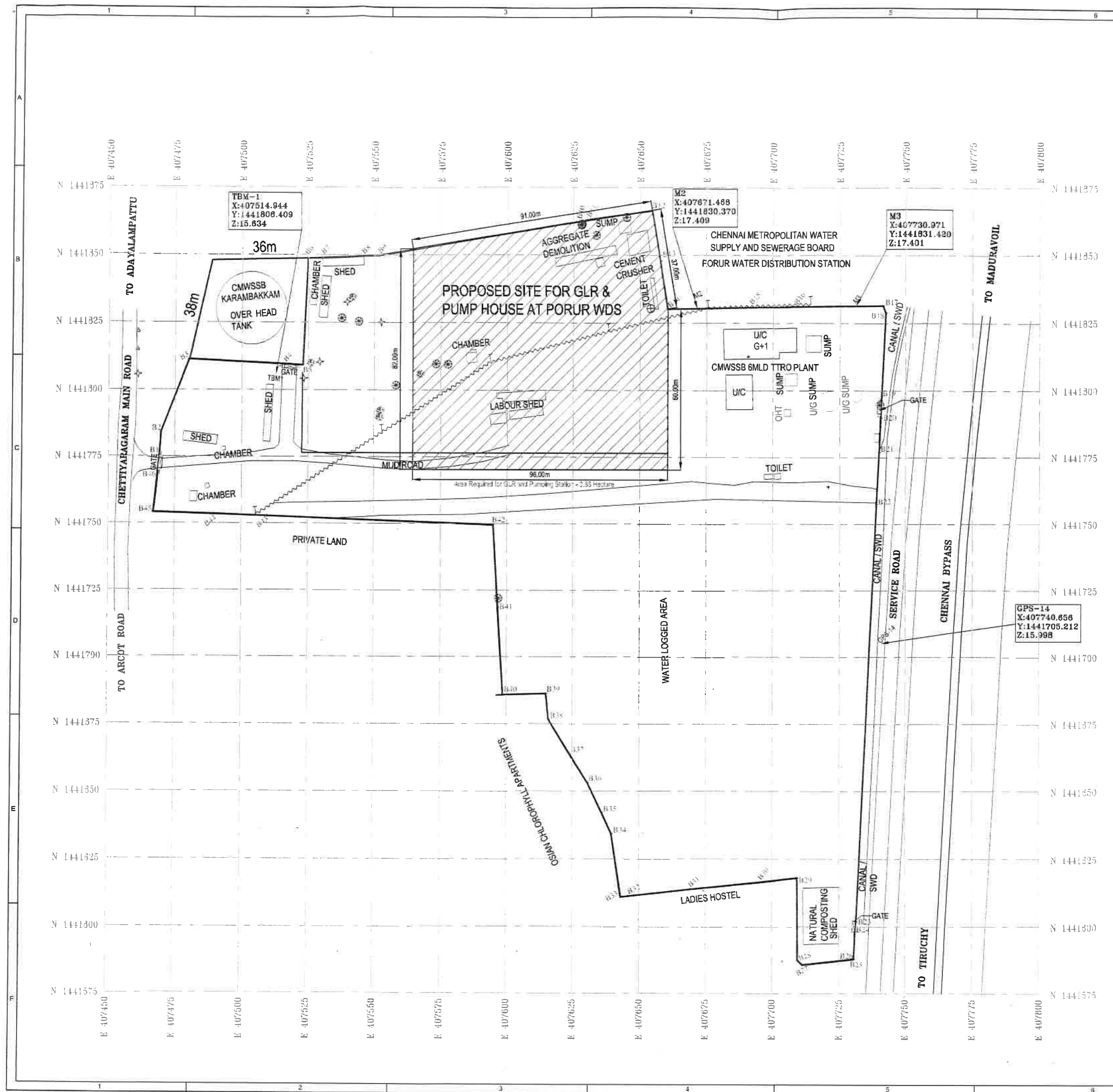
### Encl:

- Proposed Porur GLR & Pumping Station Layout
- Proposed Porur Lyout Plan with Marked Area

### PMC Chennai Office Address:

'A' 13th Floor, Purva Primus, No 236, Okhiyampettai,  
Old Mahabalipuram Road, Thuraipakkam, Chennai, Tamil Nadu 600097

+91 044 66973300 ✉ indiabd@smec.com 🌐 www.smec.com



**NOTE:**  
1. ALL DIMENSIONS ARE IN METER, UNLESS OTHERWISE SPECIFIED.

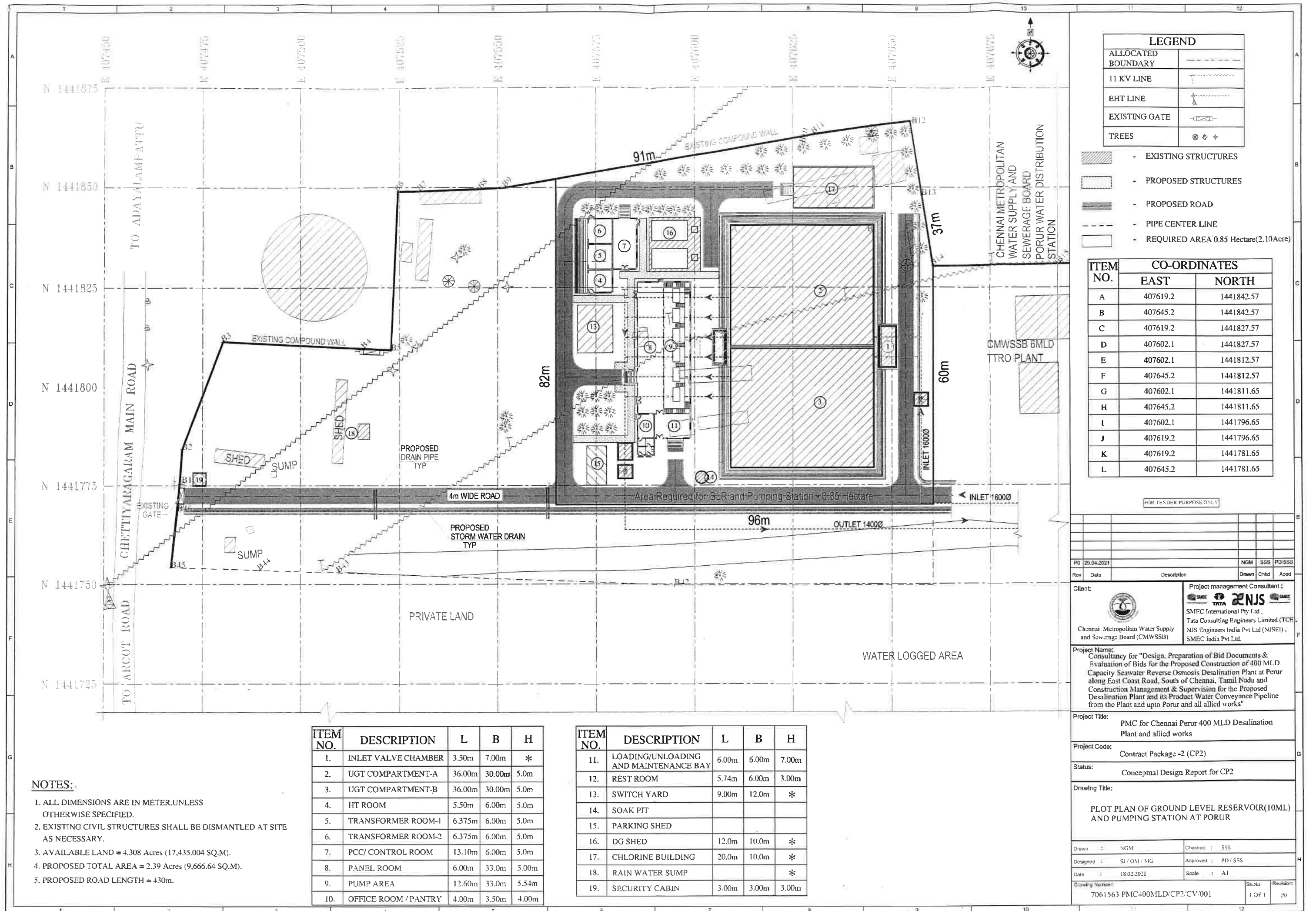
Legend	
SITE BOUNDARY	---
ROAD BT	---
CEMENT ROAD	---
FENCE	---
TREES BOUNDARY	---
CCTV CAMERA	⊙
BORE WELL	⊕
ELECTRICAL POST	⊙
ELECTRICAL TRANSFORMER	⊕
HECTOMETRE STONE	⊕
KILOMETRE STONE	⊕
HAND PUMP	⊕
VODAFONE MANHOLE	⊕
Name Board	---
TREES	⊕ ⊕ ⊕
TRAFFIC SIGN BOARD	⊕
TRAFFIC SIGNAL POLE	⊕
ELECTRICAL LINE	---
GATE	⊕
SURVEY STONE	⊕
ROAD LEVELS	⊕
GROUND LEVELS	⊕
BENCHMARK	⊕
TEMPLE	⊕
LAMP POST	⊕

**LEGEND :**  
REQUIRED AREA (GLR & PUMPING STATION) : 0.85 Hectare (2.10 Acre)

B.NO BOUNDARY CO-ORDINATE		
B.No	EAST	NORTH
81	407450.170	1441775.411
82	407450.783	1441784.183
83	407450.116	1441811.425
84	407518.138	1441806.891
85	407522.812	1441808.347
86	407524.838	1441848.880
87	407530.303	1441848.018
88	407545.790	1441848.039
89	407551.881	1441850.018
90	407628.050	1441862.812
91	407630.101	1441863.190
92	407654.280	1441866.603
93	407657.813	1441847.878
94	407680.452	1441830.290
95	407691.858	1441830.953
96	407708.253	1441831.190
97	407741.358	1441831.701
98	407742.442	1441829.008
99	407740.792	1441796.378
100	407740.524	1441786.935
101	407739.825	1441777.024
102	407738.927	1441757.478
103	407731.536	1441801.823
104	407731.227	1441598.273
105	407730.883	1441588.017
106	407730.383	1441588.024
107	407711.501	1441585.880
108	407709.891	1441587.511
109	407708.524	1441818.171
110	407698.851	1441818.723
111	407689.127	1441815.887
112	407646.081	1441811.381
113	407643.273	1441811.088
114	407639.790	1441834.385
115	407638.184	1441842.107
116	407630.705	1441853.140
117	407624.147	1441863.886
118	407615.937	1441876.781
119	407615.083	1441886.401
120	407598.878	1441885.898
121	407598.848	1441718.758
122	407594.824	1441746.708
123	407590.588	1441752.888
124	407489.887	1441753.588
125	407489.985	1441754.234
126	407486.505	1441768.487

Rev	Date	Description	Drawn	Checked	Approved
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Client:	Project Management Consultant:				
Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB)	SMEC International Pvt Ltd, Tata Consulting Engineers Limited (TCE), NJS Engineers India Pvt Ltd (NJS), SMEC India Pvt Ltd.				
Project Name:	Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Perur and all allied works"				
Project Code:	Contract Package -2 (CP2)				
Status:	Details Design Report for CP2				
Drawing Title:	PROPOSED LAYOUT FOR PORUR NEW WDS				
Drawn :	NGM	Checked :	SS		
Designed :	JS	Approved :	PD		
Date :	APRIL - 2021	Scale :	A2		
Drawing Number:	7061563/PMC400MLD/CP2/GENERAL DWG/004	Sheet No:	1 OF 1	Revision:	RD



LEGEND	
ALLOCATED BOUNDARY	---
11 KV LINE	~ ~ ~
EHT LINE	~ ~ ~
EXISTING GATE	+
TREES	⊗ ⊗ ⊗

- EXISTING STRUCTURES
- PROPOSED STRUCTURES
- PROPOSED ROAD
- PIPE CENTER LINE
- REQUIRED AREA 0.85 Hectare(2.10Acre)

ITEM NO.	CO-ORDINATES	
	EAST	NORTH
A	407619.2	1441842.57
B	407645.2	1441842.57
C	407619.2	1441827.57
D	407602.1	1441827.57
E	407602.1	1441812.57
F	407645.2	1441812.57
G	407602.1	1441811.65
H	407645.2	1441811.65
I	407602.1	1441796.65
J	407619.2	1441796.65
K	407619.2	1441781.65
L	407645.2	1441781.65

FOR TENDER PURPOSE ONLY

PD	29.04.2021		NGM	SSS	PD/SSS
Rev	Date	Description	Drawn	Chkd	Appd

Client:  
  
Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB)

Project management Consultant:  
  
SMEC International Pvt Ltd.,  
Tata Consulting Engineers Limited (TCE),  
NJS Engineers India Pvt Ltd (NJSI),  
SMEC India Pvt Ltd.

Project Name:  
Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works"

Project Title:  
PMC for Chennai Perur 400 MLD Desalination Plant and allied works

Project Code:  
Contract Package- 2 (CP2)

Status:  
Conceptual Design Report for CP2

Drawing Title:  
PLOT PLAN OF GROUND LEVEL RESERVOIR(10ML) AND PUMPING STATION AT PORUR

Drawn : NGM	Checked : SSS
Designed : SJ / OM / MIG	Approved : PD / SSS

Date : 18.02.2021	Scale : A1
Drawing Number: 7061563 PMC400MLD/CP2/CV/001	Sh.No 1 OF 1

Revision:  
PD

- NOTES:
1. ALL DIMENSIONS ARE IN METER.UNLESS OTHERWISE SPECIFIED.
  2. EXISTING CIVIL STRUCTURES SHALL BE DISMANTLED AT SITE AS NECESSARY.
  3. AVAILABLE LAND = 4.308 Acres (17,435.004 SQ.M).
  4. PROPOSED TOTAL AREA = 2.39 Acres (9,666.64 SQ.M).
  5. PROPOSED ROAD LENGTH = 430m.

ITEM NO.	DESCRIPTION	L	B	H
1.	INLET VALVE CHAMBER	3.50m	7.00m	*
2.	UGT COMPARTMENT-A	36.00m	30.00m	5.0m
3.	UGT COMPARTMENT-B	36.00m	30.00m	5.0m
4.	HT ROOM	5.50m	6.00m	5.0m
5.	TRANSFORMER ROOM-1	6.375m	6.00m	5.0m
6.	TRANSFORMER ROOM-2	6.375m	6.00m	5.0m
7.	PCC/ CONTROL ROOM	13.10m	6.00m	5.0m
8.	PANEL ROOM	6.00m	33.0m	5.00m
9.	PUMP AREA	12.60m	33.0m	5.54m
10.	OFFICE ROOM / PANTRY	4.00m	3.50m	4.00m

ITEM NO.	DESCRIPTION	L	B	H
11.	LOADING/UNLOADING AND MAINTENANCE BAY	6.00m	6.00m	7.00m
12.	REST ROOM	5.74m	6.00m	3.00m
13.	SWITCH YARD	9.00m	12.0m	*
14.	SOAK PIT			
15.	PARKING SHED			
16.	DG SHED	12.0m	10.0m	*
17.	CHLORINE BUILDING	20.0m	10.0m	*
18.	RAIN WATER SUMP			*
19.	SECURITY CABIN	3.00m	3.00m	3.00m