

Ref: SMEC/ CMWSSB / 16100912/007

23<sup>rd</sup> January 2020

To,  
**Superintending Engineer (Desal),**  
6<sup>th</sup> Floor, Chennai Metropolitan Water Supply & Sewerage Board,  
No.1 Pumping Station Road,  
Chintdaripet, Chennai 600 002

**Sub:** Consultancy for Design, Preparation of Bid Documents & Evaluation of Bids for the proposed construction of 400 MLD capacity Sea Water 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 - List of Data / Documents required for the project – Reg.

**Ref:**

1. Our Letter no. Ref: SMEC/ CMWSSB / 7061563/005, dated 20.01.2020
2. Your Letter no. Lr.no.CMWSSB/SE(Desal)/400 MLD Plant / PMC/2020, dated 13.01.2020
3. Our Contract Agreement with CMWSSB, dated 09.01.2020
4. Kick-off meeting held at CMWSSB on 10.12.2019
5. Our Letter no. Ref : 1600991/LOA/07, dated 08.11.2019
6. Your Letter no. Lr.no.CMWSSB /CNT/CON/DESAL/ICB/Gol/016/2018-19, dated 06.11.2019

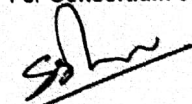
Dear Sir,

With reference to our Contract Agreement with CMWSSB vide our letter cited in reference no.3, dated 09.01.2020 for the subject project, we request you to kindly provide the data / copy of documents / drawings/ previous studies undertaken as per our list enclosed along with this letter.

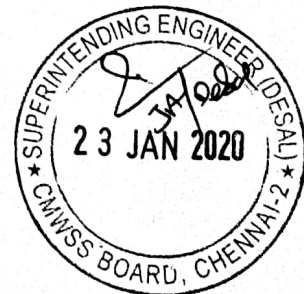
Thanking you assuring you of services always.

Yours truly,

For Consortium of SMEC International-TCE-NJSEI-SMEC (India) Pvt Ltd.



**S.Srinivasa Rao**  
Project Coordinator,  
SMEC India Pvt. Ltd.



Encl: List of data / documents / previous study undertaken

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## **LIST OF DATA / DOCUMENTS / PREVIOUS STUDY UNDERTAKEN**

### **A) GENERAL**

- a) Updated Master Plan for Chennai prepared by M/s Shah Technical Consultants
- b) Full report **including all appendices** for the Preparatory Survey on Chennai Seawater Desalination Plant Project (Final Report) prepared by Nippon Koei and INGEROSEC for JICA (Feb 2017)
- c) Kirloskar report "Detailed Engineering Design of Water Distribution System for Chennai City" Sept 1998
- d) CPHEEO Manual for water supply
- e) CMWSSB standards for water supply design (if available), including any documented preferred equipment lists

### **B) SEA WATER REVERSE OSMOSIS (SWRO) DESALINATION PLANT**

- a) Detailed Project Report for 400 MLD Desalination at Perur by M/s AECOM and any other reports, but not limited to the following:
  - Bathymetry surveys
  - Topographical surveys of the site for the proposed plant
  - Tidal effect for various seasons
  - Geotechnical investigation carried out
  - FMB sketch and adangal of the project area
  - Detailed Design Report for 400 MLD Desalination plant including all Drawings.
  - Bid documents prepared for 400 MLD Plant in DBO mode
  - List of permission obtained for various departments like MoEF, CRZ, PCB etc.
- b) Historical Seawater quality data from Nemeli for the last 5 years. Sea water quality data –by Nemeli Plant and third party lab testing.
- c) Historical power consumption data from Nemeli Plant for the past 5 years.

### **C) PRODUCT WATER TRANSMISSION PIPELINE**

- Topographical Survey
- Geotechnical Investigation (Bore hole and trial pit details)
- DPRs prepared for the pipeline including hydraulics
- Length, Diameter and Material of Pipe for the proposed alignment
- Longitudinal Section Profile
- Major Road Crossing in the pipe alignment details
- Railway Crossing in the pipe alignment details
- List of permission obtained from various departments
- Tender Documents

### **D) IMPROVEMENT TO EXISTING WATER DISTRIBUTION SYSTEM IN THE CORE CITY**

- a) Project Area / Administrative boundaries in Auto CAD or GIS format:
  - Chennai Metropolitan Area
  - Chennai Corporation
  - Chennai Core City

- Urban Local Bodies
  - Municipalities
  - Panchayats (town and village)
  - Wards
  - Towns
- b) Census Population for 5 decades (For the year 1981 to 2011)
- c) Present Population for the project area
- d) Ward-wise area and population for the year 2011
- e) Ward Map showing Ward Number and Boundary
- f) Present Per-capita and projected water demand
- g) Road / Street details**
- Name
  - Length, Width
  - Material Type of Road etc.
- h) Latest Topographical survey details**
- Contour Map at 1m interval
  - Street level at every 30m interval, junction etc.
- i) Existing sources**
- Location and type of intake works
  - Water design and drawl quantity
  - Raw water and clear water quality test reports of various seasons
- j) Existing Pumping Machinery and reservoirs Details**
- Location
  - Number of pumps in operation and standby
  - Duty and Total Design Head
  - Efficiency
  - Year of installation etc.
  - Bilk storage Reservoir Details
- k) Existing Water Distribution System in Auto CAD drawing or in GIS format**
- Zone Map showing location of Service Reservoirs
  - Piping appurtenances (sluice valve, scour valve, air valve)
  - Length, Diameter, Material, Years of pipe laid etc.
  - As-Built drawings of the latest network in Core project Area
- l) Existing House Service Connection**
- Number Wardwise
  - Water Tariff and
  - New Connection Deposit etc.