MINUTES OF MEETING REGARDING IMPROVEMENT OF EXISTING DISTRIBUTION NETWORKS (CP4) CONDUCTED BY THE CHIEF ENGINEER (O&M) - II, CMWSSB WITH THE OFFICIALS OF CMWSSB & THE PROJECT MANAGEMENT CONSULTANT (PMC SERVICES) FOR THE PROPOSED 400MLD DESALINATION PLANT AT PERUR AND ITS ALLIED WORKS ON 10.03.2020 AT 04:00 PM

Venue: 1st Floor Conference Hall

Members present:

CMWSSB

1. Chief Engineer (O&M) - I
2. Superintending Engineer (WTT)
3. Superintending Engineer (P&D)
4. Superintending Engineer (South West)
5. Superintending Engineer (North)
6. Superintending Engineer (North East)
7. Superintending Engineer (South)
8. Superintending Engineer (Desal)
9. Area Engineer IV
10. Area Engineer V
11. Area Engineer VI
12. Area Engineer VIII
13. Area Engineer IX
14. Area Engineer X
15. Area Engineer XIII
16. Executive Engineer (Desal)
17. Executive Engineers (P&D)
18. Executive Engineer (Veeranam)
19. Assistant Executive Engineers (Desal)
20. Assistant Engineer (Desal)

PMC SERVICES

Representative from M/s. SMEC International Pty Limited,
Representative from M/s. Tata Consulting Engineers,
Representatives from M/s. SMEC India Pvt. Ltd.,

- The Chief Engineer (O&M) - II welcomed the Engineers of CMWSSB & the PMC team members.
- The PMC Consultant Mr. Shane Farquharson delivered a detailed presentation on scope of services involved with the Components CP2, CP3 & CP4, GIS/CAD Development and Modelling Process with regard to Water Transmission & Distribution Systems, Data Requirements, Consideration on System Design Criteria (DMA) and Contracting Strategy with regard to the work.
- The Chief Engineer (O&M) – II enquired about the proposal for mapping and the PMC Consultant Mr. Shane Farquharson explained that the maps collected will be converted into digital format & validated with respective Area Engineers. Further site visits will be conducted by PMC to match the digital maps with reality and corresponding changes will be made by PMC.

- The Area Engineer VIII suggested the PMC Consultant to use SCADA to monitor pipelines as its widely used in developed countries. The PMC Consultant Mr. Shane Farquharson agreed to it.

- The PMC Consultant Mr. Shane Farquharson discussed about the hydraulic boundary conditions, operating strategy, design conditions for selection of regulating valve, design conditions for flow/pressure at Porur headworks, water hammer mitigation measures for system protection of Transmission System.

- The Chief Engineer (O&M) – II informed that the system should be analyzed and designed in a such a way that water can be transmitted from South Chennai to North Chennai. The PMC Consultant agreed to it.

- The PMC Consultant Mr. Shane Farquharson explained about the different cases in pumping such as Direct pumping, two step pumping for efficient design of Hydraulic Grade Line from Perur DSP to Porur Headworks.

- The PMC Consultant Mr. Shane Farquharson explained in detail about the key activities in Distribution System such as Model Development for WDZs, Model Calibration, DMA Zoning and Evaluation of Network Performance of DMA zoning and Determine Network Improvements and proceed accordingly.

- The Chief Engineer (O&M) - II stated that the consultant should make sure that the inputs received from depots are matching the real life conditions and provide onsite training to officials of CMWSSB. The PMC Consultant agreed to it.

- The Chief Engineer (O&M) - II enquired whether the boundary of DMA can be re-aligned if necessity arises and for which the PMC Consultant Mr. Nagesh Chinnam explained that the boundary of DMA depends on physical boundary like railway track at site conditions and also committed that DMA can be re aligned if required.

- The Superintending Engineer (P&D) enquired about Residual pressure, Staging Height of the OHT to be maintained. The PMC Consultant Mr. Nagesh Chinnam stated the new residual pressure will be maintained at 12 metres uniformly and the staging height of OHT will be designed as 15m. The Chief Engineer (O&M) - II suggested to verify with the standards of CPHEEO. The PMC Consultant Mr. Shane Farquharson agreed to consider the design criteria as per standards.

- The PMC Consultant Mr. Shane Farquharson requested the Master Plan drawing of Transmission & Distribution Systems (available data). Further, he explained that the data sought is Spatial since it is used for coordinate system and mapping projection and informed that Topographic surveys will be conducted in areas of non availability of datas.

- The PMC Consultant Mr. Shane Farquharson informed that maintenance history, customer complaints, customer metering will be maintained by them for future additions.

- The Chief Engineer (O&M) – II suggested to prepare a common format for data collection and circulate it to Engineers. The email of Desalination wing

(sedesalwing@gmail.com) was informed for forwarding of data by the field Engineers of Board.

- The PMC Consultant Mr. Shane Farquharson agreed to it and informed that any missing data will be collected by them through surveys at required areas.

- The Area Engineer VIII stated that the DMA should be designed considering the water supply at tail ends and Mobile Water supply in order to optimize the Water Supply to Consumers and subsequently reduce the Mobile water supply.

- The Chief Engineer (O&M) – II suggested to study and analyze the Interconnections between Pipelines and tappings in Network Systems and design accordingly.

- The PMC Consultant Mr. Nagesh Chinnam stated that the DMA will be formulated considering the equitable water supply to the DMA with provision of Isolation Valves, Sector/District meters. Further, the water shall be transmitted between DMA in case of Droughts/Necessity.

- The PMC Consultant enquired about the GIS team of CMWSSB. The Chief Engineer (O&M) – II informed that formation of GIS is in initial stage.

- The PMC Consultant Mr. Shane Farquharson enquired about the zone of highest priority to proceed with the study on Improvement Works. The Chief Engineer (O&M)-II on consultation with Chief Engineer (O&M)-I, informed that Vysarpadi & Patel Nagar shall be prioritized and the work shall be commenced on these locations/zones.

Sd/-xxx 20.03.2020
Chief Engineer (O&M) – II
CMWSSB

20/03/2020

Superintending Engineer
(Desalination)