

**MINUTES OF PROGRESS REVIEW MEETING CONDUCTED BY THE CHIEF ENGINEER (O&M) - II, CMWSSB WITH THE PROJECT MANAGEMENT CONSULTANT (PMC SERVICES) FOR THE PROPOSED 400MLD DESALINATION PLANT AT PERUR AND ITS ALLIED WORKS ON 14.02.2020 AT 04.00 PM**

**Venue:** CMWSSB Head Office, Conference Hall (1<sup>st</sup> Floor)

**Members present:**

**CMWSSB**

1. Superintending Engineer (C&M)
2. Superintending Engineer (Desal)
3. Executive Engineer (Desal)
4. Executive Engineers (C&M)
5. Assistant Executive Engineers (C&M)
6. Assistant Executive Engineers (Desal)
7. Assistant Engineers (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.,  
Representatives from M/s. NJS Engineers India Pvt Ltd., Pune

- The Chief Engineer (O&M) - II informed the PMC Consultant to prepare tender documents for CP1 component at the earliest as per Government's direction by strictly following JICA SBD & Pre Qualification. The Chief Engineer (O&M) - II requested to have internal discussions among JV members & present unanimous decision to CMWSSB and also instructed that any correspondence with JICA has to be done only through CMWSSB.
- The PMC consultant Mr.S.Siddappaswamy, Senior Civil Engineer presented their progress of work, major activities carried out along with the Team Mobilization and the Project Organization Chart. Further, informed that the bidding process of "Two Stage Two Cover" will be followed wherein the First stage is Request for Qualification ie., RFQ (Qualifying Criteria on Financial Aspects and Experience) followed by Request for Proposal ie., RFP. The Request for Proposal (ie., RFP) consists of two covers namely technical bid and financial bid which in continuation of evaluation, tenders will be awarded.
- The PMC consultant Mr. S.Siddappaswamy, Senior Civil Engineer stated that the Request for Qualification (RFQ) of CP-1 component is under preparation & PQ criteria has been drafted.
- The PMC consultant highlighted the Data/Information Collection Status and requested to furnish the Product water quality reports of 100MLD Desalination Plant at Nemmeli, Hydraulic Design calculation of Product Water Transmission Main from Perur to Porur and requested to follow up with concerned department for enter upon permission for Perur Desalination Plant Site. The Executive Engineer (Desal) informed that the details are available with CMWSSB and the same will be furnished. Further, informed that enter upon

permission for Perur Desalination Plant is being followed with HR&CE Department & will be furnished.

- The PMC consultant informed that during the visit to the Porur Headworks, it was noticed that other project construction work is under progress in the land which is allocated for the Construction of UGT at Porur to receive the Product Water from the Desalination Plant. The Superintending Engineer (Desal) informed that the Porur land allocated for the Construction of UGT will be checked and will be earmarked.
- The PMC consultant emphasized the key learning's such as Adverse Sea Water Quality issues, Pumping and Holding Capacity of the treated water Reservoir, Time requirement for CP4 component, Requirement of Study on Entire Transmission System and its Interconnection, House Service Connections with Water Meters, Parallel follow up on Component CP5, Approvals from Government Department for Road Crossing and Pipe Carrying Bridge etc.
- Further, the PMC consultant Mr. S.Srinivasarao, Project Coordinator highlighted on the Pumping and Holding Capacity of the treated water Reservoir and stated that the storage capacity at Perur is very less and stated that pumping should not be disturbed due to any fluctuations in water flow. The PMC consultant Mr. S.Siddappaswamy, Senior Civil Engineer briefed about the meter installation to each House Service connection (HSC) and the PMC consultant Mr. Ghulam Mustafa, Desalination Expert discussed the importance of social awareness to public regarding meter installation.
- The PMC consultant Mr. S.Siddappaswamy, Senior Civil Engineer requested CMWSSB to simultaneously initiate the process of CP5 component since dependencies between work packages should not affect the project. Further, requested to initiate approvals from other Government Departments for the component CP3 - Product water transmission line works. The Executive Engineer (Desal) informed that the G.O has been already obtained for the Project Steering Committee and the Co-ordination Committee will be appointed by the Government shortly in order to co-ordinate with the Project.
- The Chief Engineer (O&M) – II, with regard to the Study on Entire Transmission System and its Interconnection, insisted that the existing Transmission Main System in Chennai city need to be studied and analyzed and suggestion of the Consultant is required on the transmission of water from South Chennai to North Chennai.
- The PMC consultant Mr. Shane Farquharson, Water Supply Engineer suggested to maintain a Specific Register for Approvals such as Environmental Clearances, Land Clearances, Road Crossing and other Approvals to be followed, Requirement before and After Bidding Process etc.,
- The Chief Engineer (O&M) – II informed that the major clearances such as CRZ clearance have been obtained and remaining will be followed during execution of work in co-ordination with the contractors.
- The PMC consultant Mr. S.Siddappaswamy, Senior Civil Engineer presented the details regarding Bidding Procedure of Component CP1 in terms of Pre Qualification and Bidders Qualification Forms.



- The Superintending Engineer (C&M) informed that the Cost Estimate as per JICA is on higher side and requested the PMC consultant to go through the Estimate furnished by JICA.
- The Executive Engineer (C&M) enquired whether the pre condition on litigation history list as per National Company Law Tribunal (NCLT) is 5 years or 10 years, further stated that the general procedure of CMWSSB is 10 years. The PMC consultant Mr.S.Siddappaswamy, Senior Civil Engineer informed that NCLT is 5 years as per JICA's guidelines. The Chief Engineer (O&M) - II suggested to consult JICA on this guideline & Board's procedure.
- The PMC consultant Mr. S.Srinivasarao, Project Coordinator enquired whether to specify/insist on SWRO Desalination Plant or just as Desalination Plant. The Chief Engineer (O&M) - II informed to specify as SWRO Desalination Plant.
- The PMC consultant Mr. S.Siddappaswamy, Senior Civil Engineer presented certain modifications in Specific Construction Experience in Pre Qualification (ie., Atleast 1 SWRO plant of min.300 MLD product water capacity (75% of 400 MLD) or Atleast 2 SWRO plants of min. 200 MLD product water capacity each (50% of 400MLD) or Atleast 3 SWRO plants of min. 100 MLD product water capacity each (25% of 400 MLD)) and requested whether it shall be proceeded as mentioned. The Superintending Engineer (C&M) informed that it can be discussed and shall be finalized during finalization of PQ.
- The PMC consultant Mr. S.Siddappaswamy, Senior Civil Engineer presented the qualification of SCADA-Operation for minimum of one year. CMWSSB agreed to it.
- The Executive Engineer (C&M) enquired about the purpose of Waste Water treatment plant included in the proposal by the PMC consultant Mr. S.Siddappaswamy, Senior Civil Engineer. The PMC consultant Mr. Ghulam Mustafa, Desalination Expert explained that in order to handle huge volume of sludge expected to be generated, the Sludge Treatment Process shall be included in the Plant.
- The Chief Engineer (O&M) - II enquired about the efficiency of 16 inch RO membrane in comparison to 8 inch RO membrane. The PMC consultant Mr. Ghulam Mustafa, Desalination Expert suggested to go for 8 inch RO membrane since efficiency of 16 inch is not proven and handling of such large membranes proves to be difficult.
- The PMC consultant Mr. S.Siddappaswamy, Senior Civil Engineer informed that O&M experience of minimum 5 years has been included in PQ as per JICA's guidelines. In this regard, clarification was requested whether the O&M experience is required for all JV Members or One of the Member of JV or Subsidiary Companies in case of Joint Venture. In this regard, the Superintending Engineer (C&M) suggested to include the provision of Construction contractor to provide O&M.
- The PMC consultant Mr. Ghulam Mustafa, Desalination Expert enquired about the design steps taken by 150MLD Plant contractor to prevent white particles from clogging the plant. The Superintending Engineer (C&M) informed that they have proposed DAF, Self cleaning filters and UF.
- The Chief Engineer (O&M) - II informed that 150MLD Plant contractor has suggested to include Self Cleansing Disc Filter instead of Disc Filters to prevent white particles and requested the PMC consultant to study the difference and give suggestion on Pre-treatment


with Normal Disc Filter & Self Cleansing Disc Filter. The PMC consultant Mr. Shane Farquharson, Water supply engineer informed that robustic Pre Treatment Process will be proposed for the 400MLD SWRO Desalination Plant.

- The Executive Engineer (C&M) suggested that with regard to the Financial Turnover, in case of Joint Venture, the Participating Entity should produce only their turn over and not the financial turnover of the Parental Company and this should be included in the Qualification Criteria. Further informed that the percentage to be fixed for the Members in terms of Financial Aspects in case of JV. The PMC consultant agreed to it.
- The PMC consultant Mr. S.Siddappaswamy, Senior Civil Engineer informed that the inception report will be submitted by 28.02.2020 & RFQ for CP-1 by 25.02.2020. Further, informed that preparation of conceptual design of CP-1 is in process and also stated that the mobilization of remaining staffs for other packages will be completed soon.
- The Chief Engineer (O&M) - II thanked the PMC team for the presenting the progress of the work.

Sd/-xxx 24.02.2020  
Chief Engineer (O&M) – II  
CMWSSB—

Copy to:

1. SE(C&M)
2. PMC Agency

  
24/02/2020  
Superintending Engineer  
(Desal)