



CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD (CMWSSB)







MPR (07) / (August 2020)

PMC for Chennai Perur 400 MLD Desalination Plant and Allied Works

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10 September 2020

SMEC International Pty. Ltd., Australia in consortium with NJS Engineers India Private Limited, Pune Tata Consulting Engineers Limited, Mumbai SMEC (India) Private Limited, Haryana

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1 EXECUTIVE SUMMARY

This Monthly Progress Report for August 2020 is submitted in accordance with the contractual requirements for Project Management Consultant ("PMC") services associated with the Chennai Perur 400 MLD Desalination Plant and allied works project being delivered for the Chennai Metropolitan Water Supply & Sewerage Board ("CMWSSB").

The document is structured to report on separately:

- Progress of the PMC (Consulting) Services
- Progress of the Project (the Works)

A summary of the key messages resulting during this period is provided in Table 1. Please peruse the full report for further details.

Table 1: Key Messages up to August 2020

Component	Key Message Revised Monthly Progress Report (MPR 01) for January & February 2020 submitted on 06.04.2020, 14.04.2020 and 26.05.2020 Revised Inception Report submitted on 04.04.2020 and 16.04.2020 Revised Design Criteria for CP4 components submitted on 16.04.2020 Monthly Progress Report (MPR 02) for March 2020 submitted on 17.04.2020 and 26.05.2020
PMC (Consulting) Services	Interim Report for the development of Concept Design for Chennai Perur 400MLD Desalination Plant for CP1 components submitted on 23.04.2020 and 26.05.2020 Quarterly Progress Report (QPR 01) for January to March 2020 submitted on 24.04.2020 and 22.05.2020 Monthly Progress Report (MPR 03) for April 2020 submitted on 09.05.2020 and 22.05.2020 Draft Environmental Impact Assessment (EIA) Review Report for CP1 submitted on 26.05.2020 Monthly Progress Report (MPR 04) for May 2020 submitted on 11.06.2020 Responses to JICA Comments and Revised Prequalification documents (RFQ) for CP1 on DBO basis submitted to CMWSSB on 24.06.2020 Concept Design Report for 400 MLD Desalination Plant at Perur (CP1) submitted on 10.07.2020 Monthly Progress Report (MPR 05) for June 2020 submitted on 10.07.2020 and 13.07.2020 Review note on Product Water Transmission Main from Perur DSP to Porur WDS for CP2 components submitted on 02.07.2020 and 15.07.2020 Quarterly Progress Report (QPR 02) for April to June 2020 submitted on 15.07.2020 Responses to JICA 2nd Comments and Revised Prequalification documents (RFQ) for CP1 on DBO basis submitted to CMWSSB on 17.08.2020 Monthly Progress Report (MPR 06) for July 2020 submitted on 10.08.2020 Progressive expenditure (at actuals, i.e. based on bills passed till the end of August 2020) = Nil (INR) and Nil (USD) For SMEC India Pvt. Ltd., the Mobilisation advance payment (5% of Contract value) received on 19.05.2020 as against Advance Bank Guarantee. Progressive expenditure (Projected based on man-month consumed till the end of August 2020) = 2,01,14,190 (INR) and 595,604 (USD) Activities generally progressing on schedule

Component		Key Message	
	•	orogram being followed for CP1, which brings forward the or market by 4 to 5 months	
 The emerging COVID-19 virus outbreak is being monitored, and CMWS is to be informed of any impact on the mobilisation of PMC personnel. It to the COVID-19 issues pandemic across the globe, the Governmen Tamil Nadu announced and extended the partial 7th lockdown period f 01.08.2020 to 31.08.2020 throughout Chennai and its adjacent District Tamil Nadu. 			
	No Project site v	vork has been commenced	
Project (the Works)	Progressive exp	enditure = Nil	
	No activities sch	eduled to commence as of end August 2020	

Key items identified during this period for resolution with the CMWSSB include the following:

- The impact of current water quality issues (i.e. white fibrous particles and associated elevated TOC and COD levels) being experienced at Nemmeli DSP on the selection of a preferred pretreatment process arrangement being addressed during conceptual design.
- 2. Revision of the current concept for the site layout for the proposed reservoir and pumping station at the Porur Headworks site, due to other works currently under construction for CMWSSB.
- Based on a discussion with CMWSSB officials, it is understood that the proposed desalination plant's land ownership transfer is in process. Upon receipt of the same, Consent To Establish (CTE) application will be forwarded to TNPCB (Tamil Nadu Pollution Control Board), the action to be taken up by CMWSSB.
- 4. Forest Clearance for cutting trees at Perur DSP site to be obtained from Tamil Nadu Forest Department.
- 5. Approval for the erection of offshore structure to be obtained from the Tamil Nadu Maritime Board.
- System hydraulic design for the clear water transmission main from Perur DSP to Porur Headworks water transmission system (pumping station and transmission pipeline) and proposed water allocation to Chennai Core City and expansion area is to be resolved following initial analysis by PMC.
- 7. Flexibility to perform PMC work activities remotely requires resolution between CMWSSB and PMC, as the current COVID-19 virus Pandemic situation may introduce restrictions on travel and project remobilisations.
- 8. It is challenging to access the project site due to COVID-19 Pandemic issues spread across the globe. The Government of Tamil Nadu announced and extended the partial 7th lockdown period from 01.08.2020 to 31.08.2020 throughout Chennai and its adjacent Districts in Tamil Nadu.
- Quick turn-round of requests with approvals (Work From Home) and follow up on timeline is essential to undertake the acceleration of CP1 components and regular timeline schedule for CP2 to CP4 components.
- Non-Availability of most of the pipeline inventory data specific to the CP4 package in the digital format [Scaled AutoCAD/ GIS (.Prj)] files and conversion of the available physical data into required digital format.

2 ABBREVIATIONS & ACRONYMS

Abbreviation / Acronym	Meaning
BoQ	Bill of Quantity
CMWSSB	Chennai Metropolitan Water Supply and Sewerage Board
СР	Contract Package
DI	Ductile Iron
DMA	District Metered Area
DMS	Document Management System
DSP	Desalination Plant
GIS	Geographic Information System
JICA	Japan International Cooperation Agency
MLD	Million Litres per day
MPR	Monthly Progress Report
MS	Mild Steel
NJSEI	NJS Engineers India Pvt Ltd.
O&M	Operation & Maintenance
ODA	Official Development Assistance
OJT	On-Job-Training
PMC	Project Management Consultant (Consortium)
PQ	Pre-Qualification
QPR	Quarterly Progress Report
RFP	Request for Proposal
RFQ	Request for Qualification
SMEC	SMEC International Pty Ltd
SMEC (India)	SMEC India Pvt Ltd
TCE	TATA Consulting Engineers Ltd.
TNPCB	Tamil Nadu Pollution Control Board
TOC	Total Organic Carbon
WDS	Water Distribution Station
WDZ	Water Distribution Zone

3 INTRODUCTION

3.1 This Progress Report

This is the seventh (7th) monthly progress report and covers activities of the Project Management Consultant (PMC services) and the Project (the Works) during **August 2020**.

3.2 PMC Services

The Consulting Services addressed by the series of Monthly Progress Report ("MPR") to be delivered on this Project include design, preparation of bidding documents, tender evaluation, construction management and supervision for the proposed Chennai Perur 400 MLD Desalination Plant, its product water conveyance pipeline and all other allied works being carried out following with a Contract dated 09 January 2020 for Consulting Services between the Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB or "the Client") and Consortium members comprising of SMEC International Pty Ltd (SMEC), Australia as the Lead Member of the Consortium, NJS Engineers India Pvt. Ltd. (NJSEI), TATA Consulting Engineers Limited (TCE) and SMEC India Pvt. Ltd. (SMEC India) as Associate Consultants to the Consortium.

The Terms of Reference (ToR) for the Consulting Services provide for 1988 person-months of PMC services (National Local 1603 person-months, including support staff, and International, 385 person-months) in the following main categories. However, the details of all the team with their role and person-months are mentioned in **Annexure 1.**

Table 2: Estimated Resourcing for PMC Services

Category	Resourcing
Management and Coordination, International and Local	87 person-months
Design, International	245 person-months
Design, Local	377 person-months
Safety, Environmental and Others, Local	265 person-months
Construction Supervision, Local	294 person-months
Support Staffs	720 person-months
TOTAL	1988 person-months

The Consulting Services are to be delivered in compliance with Guidelines for the Employment of Consultants under Japanese ODA Loans, April 2012.

3.3 PMC Scope of Work

The major components within the Scope of Work for the overall Project are listed below:

- CP1 400 MLD Sea Water Reverse Osmosis (SWRO) Desalination Plant at Perur
- CP2 Pumping Stations & Reservoirs at Perur and Porur
- CP3 Product Water Conveyance Main for about 65Km length from Perur to Porur
- CP4 Improvements to Existing Distribution System in the core area of Chennai City
- CP5 Installation of external dedicated transmission line

Further details on the components of the Contract packages are as summarised in **Annexure 2**.

The Consulting Services scope under each component (Contract Package) of the Project are as follows.

- 1. CP-1: Review of the current technical information, conducting supplementary natural condition surveys, preparation of conceptual design report with raw water assessment, review of marine works, assessment of operating conditions, process flow diagram, general layout review, water and mass balance and review of electrical, instrumentation and automation plans. Preparation of PQ and bid document with technical specifications, Minimum Functional Specification (MFS), Assistance in Bid evaluations and construction supervision activities.
- 2. CP-2: Review of technical information, conducting necessary topographical and geotechnical investigations, Hydraulic analysis of the transmission mains for finalising the pumps configurations, detail design of reservoir and pumping stations with all civil, electro-mechanical and instrumentation works, preparation of PQ (if necessary) and bid document with BoQ and technical specifications, Assistance in Bid evaluations and construction supervision activities.
- 3. CP-3: Construction supervision activities of the Product Water Conveyance Main from Perur to Porur.
- 4. CP-4: Review of technical information, collect and review of the topographical and pipe inventory data, preparation of hydraulic modelling and analysis of the existing water distribution network for improvement, the establishment of DMAs, preparation of the bid documents with BOQ and Construction supervision activities.
- 5. CP-5: Preparation of technical documents, monitor the progress of the construction activities (Necessary Technical Assistance by PMC).
- 6. All packages: Assist CMWSSB in environmental management and monitoring activities in all stages.

Also, the PMC will assist the CMWSSB in the development of organisational capability in several key areas, including the following:

- Asset Management
- Acceleration of installation of service connections and water meters
- Improvement of customer services and publication
- Improvement of business operation

For a more comprehensive description of PMC scope of services and related works, please refer to the Inception Report, Interim Report for the development of Concept Design for Chennai 400 MLD Desalination Plant at Perur for CP1 components, Draft Environmental Impact Assessment (EIA) Review Report for CP1 components, Revised Prequalification documents (RFQ) for CP1 on DBO basis, Concept Design Report for Chennai 400 MLD Desalination Plant at Perur for CP1 components and Review note on Product Water Transmission Main from Perur DSP to Porur WDS for CP2 components for the Project.

4 PROGRESS REPORT FOR PMC SERVICES

4.1 Achieved Activities – August 2020

The activities achieved during August 2020 are listed in Table 3.

Table 3: Achieved Activities - August 2020

	chieved Activities – August 2020				
Package	Achieved Activities				
	Task 1: Data and information collection commenced (JICA documents, DPRs, water quality data)				
	Task 2: Review of technical information commenced (JICA documents, DPRs, water quality data)				
	Task 3: Conducting Surveys and Investigations				
	 Carried out the Topographical Surveys at Perur Desalination Plant from 19.08.2020 to 				
	31.08.2020				
	 Carried out the Bathymetry Survey work at Perur DSP site from 24.08.2020 to 28.08.20 				
	 Carried out Sea Water Sample Collection at Perur DSP and Nemmeli DSP on 29.08.2020 				
	Task 4: Concept Design of Perur Desalination Plant has been submitted with design calculations				
	based on the available existing data				
	Interim report for the development of Concept Designs for Chennai Perur 400 MLD				
	Desalination Plant for CP1 components submitted to CMWSSB on 23.04.2020.				
	 Online Zoom Video conference call and discussion with CMWSSB officials on 30.04.2020 				
	for the Interim Report for the development of Concept Design for Chennai Perur 400 MLD				
	Desalination Plant for CP1 components.				
	Online Zoom Video conference call and discussion with CE (O&M)–II CMWSSB officials on				
	26.05.2020 for the progress of the consultancy work and technical discussion for CP1 to				
	CP4 components.				
	 Preparation of proposed sludge treatment facility at Perur, RO Configuration – Conventional Design and RO Configuration – 3 Centre Design. 				
	 Preparation and submission of sludge treatment process design, detail notes on 3 Centre 				
	or Pressure Centre Design.				
	 Preparation and submission of Mass Balance and Process Flow Diagram (Peak Flow and 				
	Normal Flow).				
CP1	Preparation of Summary of Revised Design Raw Sea Water Quality Parameters, Summary				
	of major Product Water Quality Parameters, SWRO Desalination plant layout.				
	 Online Zoom Video conference call and discussion with Engineering Director (i/c) 				
	CMWSSB officials on 11.06.2020 for the progress of the consultancy work and technical				
	discussion for CP1 to CP4 components.				
	 Preparation of Instrumentation Control Automation Works including plant operation control 				
	system, Redundancy Levels of DCS system, Central Control Room System,				
Instrumentation Plan, Critical Control Points, etc.					
	 Capital Cost Comparison DPR, JICA, PMC. 				
	 Preparation of Operation & Maintenance (O&M) Cost, Minimum Functioning Specifications 				
	etc.				
	Task 5: Submission of Concept Design Report:				
	 The Concept Design Report has been prepared based on the above activities, and this 				
	includes the review outcome of the existing technical documents and data, existing				
	Desalination plants study and identified gaps in the process, proposed process description				
	of all units of DSP and along with the recommendations, Block level Construction cost				
	estimate and O&M cost estimate, Gaps in the statutory approvals, process control				
	philosophy, layout drawings, process flow diagrams etc.				
	■ Concept Design Report for Chennai 400 MLD Desalination Plant at Perur for CP1				
	components submitted on 10.07.2020.				
 Action Taken Report / clarfilications on the Draft Concept Design Report for CF 					
	to CMWSSB on 05.08.2020 and 12.08.2020				
	Task 6: Preparation of Technical Specifications:				
	Preparation of Technical Specifications				

Package	Achieved Activities			
	Task 7: Financial Analysis			
	Preparation of Financial Analysis			
	Task 9: Revised Request for Qualifications (RFQ) document was prepared on the DBO basis and issued to the Client for review. After review, CMWSSB has sent the RFQ to JICA for concurrence. Comments received from JICA on PQ documents on 05.06.2020.			
	 Online Zoom Video conference call and discussion with CE (Project)–II, CE (O&M)–II CMWSSB officials on 15.06.2020 for the responses on JICA comments and Prequalification documents for CP1 on DBO basis. 			
	 Responses to JICA comments and Revised Prequalification documents (RFQ) for CP1 on DBO basis submitted to CMWSSB on 24.06.2020. 			
	 Online Microsoft Teams Meeting with Chief Development Operations (JICA) and CMWSSB officials on 03.07.2020 for a discussion on the responses for JICA comments on Prequalification documents for CP1 on DBO basis. 			
	After review, CMWSSB has sent the RFQ to JICA for concurrence. 2 nd Comments received from JICA on PQ documents on 13.08.2020.			
	 Responses to JICA 2nd comments and Revised Prequalification documents (RFQ) for CP1 on DBO basis submitted to CMWSSB on 17.08.2020. 			
	Task 1: Data and information collection commenced (JICA documents, DPRs, Master Plan)			
	Task 2: Review of technical information commenced (checking of the hydraulic design of the			
	transmission system based on the available data)			
CP2	 Calculation of CWR Capacity at Perur Reviewed the beneficiary population from Perur to Porur, and the observation was 			
	submitted to CMWSSB for feedback.			
	 Review note on Product Water Transmission Main from Perur DSP to Porur WDS for CP2 components submitted on 15.07.2020. 			
CP3	No significant activities have been carried out during this period			
	Task 1: Reconnaissance Survey, Data and information collection commenced (JICA documents, Master Plan)			
	 Review of Population projection and preparation of observations on population projection and demand considered in the JICA and Master plan documents. 			
	 Population projection by PMC to arrive the beneficiary details for the year 2025 			
	 Site Visit to Area IX: Valluvarkottam Headworks and Southern Headworks on 15.06.2020 			
CP4	 Site Visit to Area XIII: Thiruvanmiyur WDS, Velachery WDS (new) and Velachery WDS (Old) on 18.06.2020 			
	 Site Visit to Area IX: Triplicane WDS on 13.07.2020 Site Visit to Area XIII: Mylapore WDS, Nandanam WDS and Pallipattu WDS on 30.07.2020 and discussion with O&M operator of CMWSSB. 			
	Review of salient details and existing water distribution network drawings for CP4 components and identification of gaps in the available data			
CP5	No activities have been carried out during this period			
	Monthly Progress Report (MPR 06) for July 2020 submitted on 10.08.2020			
	Draft Environmental Impact Assessment (EIA) Review Report for CP1 components submitted to			
	CMWSSB on 26.05.2020			
	 Online Zoom Video conference call and discussion with SE (Desal) CMWSSB officials on 03.06.2020 for the Draft Environmental Impact Assessment (EIA) Review Report for CP1 			
General	components.			
	 Action Taken Report / clarfications on the Draft Environmental Impact Assessment (EIA) Review Report for CP1 submitted to CMWSSB on 12.08.2020 			
	Environmental support activities commenced including documentation review and approvals planning			

Note – task numbering listed in Table above corresponds to masterwork schedule (refer Annexure 4)

4.2 Deliverables Status in August 2020

A listing of the full suite of project deliverables included under the Consulting Services and their current status or tentative completion date are listed in Table 4.

Table 4: [Deliverables Status	
SI.No.	Report / Document	Tentative Date / Frequency / Status **
		Inception Report submitted on 28.02.2020
		Observations on Inception Report received from
1	Inception Report	CMWSSB on 30.03.2020
		Revised Inception Report submitted on 04.04.2020
		and 16.04.2020
2	For Design and Tender Assistance for CP1	
		Interim report for development of Concept Designs for Perur 400 MLD Desalination Plant for CP1
	2.1 Conceptual Design Report	submitted on 23.04.2020
	2.1 Conceptual Design Report	
		Concept Design Report for Chennai Perur 400 MLD
		Desalination Plant for CP1 submitted on 10.07.2020
		Draft PQ document for CP1 components submitted on 24.02.2020
		Revised PQ document for CP1 components
		submitted on 03.03.2020, 06.03.2020 for client
		review and sent to JICA for Concurrence for floating
		of the tender
		1st Comments received from JICA on PQ documents
	2.2 PQ Document	on 05.06.2020.
		Responses to JICA comments and Revised
		Prequalification documents (RFQ) on DBO basis submitted to CMWSSB on 24.06.2020
		2 nd comments received from JICA on PQ documents
		on 13.08.2020.
		Responses to JICA comments and Revised
		Prequalification documents (RFQ) on DBO basis
		submitted to CMWSSB on 17.08.2020
	2.3 PQ Evaluation Report	October 2020 (July 2020)
	2.4 Bid (RFP) Document	December 2020 (September 2020)
	2.5 Bid Evaluation Report (Technical)	March 2021 (October 2020)
	2.6 Bid Evaluation Report (Financial)	April 2021 (December 2020)
3	For Design and Tender Assistance for CP2	Review note on Product Water Transmission Main
		from Perur DSP to Porur WDS for CP2 components
	3.1 Detailed Design Report and Drawings	submitted on 02.07.2020 (soft copy) and 15.07.2020
	3.1 Detailed Design Neport and Drawings	(hard copies)
		April 2021
	3.2 PQ Document (if required)	July 2021
	3.3 PQ Evaluation Report (if required)	August 2021
	3.4 Bid Document (RFP)	September 2021
	3.5 Bid Evaluation Report (Technical)	December 2021
	3.6 Bid Evaluation Report (Financial)	April 2021
4	For Design and Tender Assistance for CP4	
	4.1 Detailed Design Report and Drawings	December 2021
	4.2 Bid Document(s)	April 2022
	4.3 Bid Evaluation Report (Technical)	September 2022
	4.4 Bid Evaluation Report (Financial)	November 2022

5 For Construction Supervision of CP 1 5.1 Contractor's Design Review Report 5.2 Quality and Quantity Control Report 5.3 Final Inspection Report 6.2 Final Inspection Report 6.2 Final Inspection Report 7 CP 3-4 7.1 Quality and Quantity Control Report 7 To Construction Supervision of CP 3-1 to CP 3-4 7.1 Quality and Quantity Control Report 7 To Construction Supervision of CP 3-1 to CP 3-4 7.1 Quality and Quantity Control Report 7 To Construction Supervision of CP 3-1 to CP 3-4 7.1 Quality and Quantity Control Report 7 To Cinal Inspection Report (CP 3-1, CP 3-2) 7.3 Final Inspection Report (CP 3-1, CP 3-2) 8 For Construction Supervision of CP 4 8.1 Quality and Quantity Control Report 8.2 Final Inspection Report (CP 3-1, CP 3-2) 9 Environmental and Social Safeguard 9 Italy Review Report for CP 1 Progress Report and Project Completion 10 Progress Report and Project Completion Report 10 Progress Report and Project Completion Report 10 Progress Report and Project Completion Report 10.1 Monthly Progress Report (MPR) 10.2 Quarterly Progress Report (MPR) 10.3 Quarterly Progress Report (MPR) 10.4 Quarterly Progress Report (QPR) 10.5 Quarterly Progress Report (QPR) 10.6 Quarterly Progress Report (QPR) 10.7 Quarterly Progress Report (QPR) 10.8 Quarterly Progress Report (QPR) 10.9 QPR 01 for Jan' to March 2020 (10 copies) submitted on 10.06.2020 • MPR 06 for June 2020 (10 copies) submitted on 10.06.2020 • MPR 06 for June 2020 (10 copies) submitted on 10.06.2020 • MPR 06 for June 2020 (10 copies) submitted on 10.06.2020 • MPR 06 for June 2020 (10 copies) submitted on 10.06.2020 • MPR 06 for June 2020 (10 copies) submitted on 10.06.2020 • MPR 06 for June 2020 (10 copies) submitted on 10.06.2020 • MPR 07 of Jan' to March 2020 (50ft copy) submitted on 10.06.2020 • MPR 08 for June 2020 (10 copies) submitted on 10.06.2020 • MPR 08 for June 2020 (10 copies) submitted on 10.06.2020 • MPR 08 for June 2020 (10 copies) submitted on 10.06.2020 • MPR 08 for June 2020 (10 copies) submitted on 10.06.2020 • MPR 08 for	SI.No.	Report / Document	Tentative Date / Frequency / Status **
5.1 Contractor's Design Review Report 5.2 Quality and Quantity Control Report 5.3 Final Inspection Report 6.1 Quality and Quantity Control Report 6.2 Final Inspection Report 7.2 Final Inspection Report 7.3 Final Inspection Report 7.4 Final Inspection Report 7.5 Final Inspection Report (CP 3-1, CP 3-2) 7.5 Final Inspection Report (CP 3-1, CP 3-2) 8.6 For Construction Supervision of CP 4 8.7 Quality and Quantity Control Report 8.8 Final Inspection Report (CP 3-1, CP 3-2) 8.7 Final Inspection Report (CP 3-3, CP 3-4) 8.9 For Construction Supervision of CP 4 8.1 Quality and Quantity Control Report 8.2 Final Inspection Report (CP 3-1, CP 3-2) 9.1 EIA Review Report for CP 1 9.2 Environmental and Social Safeguard 9.1 EIA Review Report for CP 1 Progress Report and Project Completion Report 10 Progress Report and Project Completion Report 10 Progress Report (MPR) 10.1 Monthly Progress Report (MPR) 10.2 Quarterly Progress Report (MPR) 10.3 Quarterly Progress Report (MPR) 10.4 Quarterly Progress Report (QPR) 10.5 Quarterly Progress Report (QPR) 10.6 QQQ 10 QPR 01 for Jan' & Feb'2020 (10 copies) submitted on 10.08.2020 10 MPR 04 for May 2020 (10 copies) submitted on 10.08.2020 10 MPR 05 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 06 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 06 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 06 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 07 Jan' to March 2020 (10 copies) submitted on 10.08.2020 10 MPR 08 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 08 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 08 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 08 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 08 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 08 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 08 for June 2020 (10 copies) submitted on 10.08.2020 10 MPR 08 for June 2020 (10 copies) submitted on 16.07.2020 10 MPR 08 for June 2020 (10 copies) submitted on 16.0			
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		10.3 Project Completion Report (PCR)	Within 3 months after completion of the services

** The tentative date of deliverables has been worked out based on the discussion with CMWSSB officials, but the total time duration of each component is fixed as per ToR / as proposed by the PMC team.

It is highlighted that the tentative dates listed in Table 4 are subject to assumptions on the actual date of issue of tender documents to the market by CMWSSB.

During the Online Zoom meeting Video conference call held on 30.04.2020, the International experts expressed their concern on the resumption of International flights to Chennai and it may take longer duration than 3 months due to COVID-19 pandemic across the globe. Hence, PMC requested CMWSSB to allow the International Experts to work from home. In general, both parties (PIU and PMC team) noted that due to the current COVID-19 Pandemic situation, an overall 2 months delay in floating of the RFQ and consequently the RFP for CP1 components. Where these tender dates are delayed, there will be an associated delay with the completion of tender evaluation reports. PMC also requested to consider the effort of national staff (outside Chennai) working from home on the Project, due to COVID-19 pandemic across the globe. CMWSSB also informed that the PMC members who are stationed outside Chennai and outside India of this Project Management Consultant Services to work from their home offices at their respective countries till 31.07.2020.

Any impacts on the timing of deliverables will be communicated to CMWSSB regularly.

4.3 Actual Progress versus Planned Progress – Upto August 2020

The Actual progress during the month up to August 2020 is with planned progress is furnished in Table 5.

Table 5: Actual Progress vs Planned Progress

SI.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
1	Draft PQ document for CP1	25.02.2020	24.02.2020	
2	Draft Inception Report	12.02.2020	28.02.2020	Delay has been happened due to more focus on CP1 PQ document preparation due to its priority as CMWSSB advise. Please Refer Minutes of Progress Review Meeting conducted by CE (O&M)-II, CMWSSB held on 14.02.2020 for the revised date, i.e. 28.02.2020 which has been conveyed to the Client. Accordingly, submission has been made.
	Revised PQ document	03.03.2020	03.03.2020	
3	for CP1	06.03.2020	06.03.2020	CMWSSB; PQ documents sent to JICA for concurrence
4	Draft Monthly Progress Report (MPR 01) for January 2020 & February 2020	10.03.2020	10.03.2020	
_	Devised Insention Depart	04.04.2020	04.04.2020	
5	Revised Inception Report	16.04.2020	16.04.2020	
	Revised Monthly	06.04.2020	06.04.2020	
6	Progress Report (MPR	14.04.2020	14.04.2020	
	01) for January 2020 & February 2020	26.05.2020	26.05.2020	Hard copies submitted
7	Monthly Progress Report	17.04.2020	17.04.2020	
'	(MPR 02) for March 2020	26.05.2020	26.05.2020	Hard copies submitted

SI.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
	Interim report for the development of Concept	23.04.2020	23.04.2020 (soft copy)	
8	Designs for Chennai Perur 400 MLD Desalination Plant for CP1 components	23.04.2020	26.05.2020	Hard copies submitted
	Quarterly Progress	24.04.2020	24.04.2020	
9	Report (QPR 01) for January 2020 to March 2020	22.05.2020	22.05.2020	Hard copies submitted
10	Monthly Progress Report	10.05.2020	09.05.2020	
10	(MPR 03) for April 2020	10.05.2020	22.05.2020	Hard copies submitted
11	Draft Environmental Impact Assessment (EIA) Review Report for CP1 components	20.04.2020	24.05.2020 (soft copy)	Delay has happened for the Environmental data collection from CMWSSB (Due to COVID-19 pandemic issues across the globe and continuous lockdown in India). Accordingly, submission has been made.
		20.04.2020	26.05.2020	Hard copies submitted
12	Monthly Progress Report	10.06.2020	10.06.2020	
12	(MPR 04) for May 2020	10.06.2020	11.06.2020	Hard copies submitted
13	Revised PQ document for CP1	24.06.2020	24.06.2020	Responses to JICA 1st comments and Revised Prequalification documents (RFQ) for CP1 on DBO basis submitted to CMWSSB (Hard copies submitted)
4.4	Monthly Progress Report	10.07.2020	10.07.2020	
14	(MPR 05) for June 2020	10.07.2020	13.07.2020	Hard copies submitted
15	Concept Design Report for Chennai Perur 400MLD Desalination Plant for CP1 components	30.06.2020	10.07.2020	Delay has happened for the finalising the cost comparison of DPR, Study Report and PMC CAPEX, OPEX etc. (Due to COVID-19 pandemic issues across the globe and continuous lockdown in Chennai). Accordingly, submission has been made.
	Review note on Product	02.07.2020	02.07.2020	Soft copy submitted
16	Water Transmission Main from Perur DSP to Porur WDS for CP2 components	15.07.2020	15.07.2020	Hard copies submitted
17	Quarterly Progress Report (QPR 02) for April 2020 to June 2020	15.07.2020	15.07.2020	Hard copies submitted
18	Monthly Progress Report (MPR 06) for July 2020	10.08.2020	10.08.2020	Hard copies submitted
19	Revised PQ document for CP1	17.08.2020	17.08.2020	Responses to JICA 2 nd comments and Revised Prequalification documents (RFQ) for CP1 on DBO basis submitted to CMWSSB (Hard copy submitted)

Also, as per the baseline schedule, the PMC is progressing with the collection and review of data and information to inform early activities planned on CP1, CP2 and CP4.

4.4 Financial Progress Upto August 2020

A summary of financial progress (at actuals based on the bills passed) for the PMC Services Contract at the end of August 2020 is included in Table 6.

Table 6: Financial Progress (Actual based on the bill passed) on PMC Services at the end of August 2020

Month	Monthly Expenditure	Cumulative Expenditure	% of Total Contract Value
January 2020	INR 0	INR 0	0.00%
January 2020	USD 0	USD 0	0.00%
February 2020	INR 0	INR 0	0.00%
rebluary 2020	USD 0	USD 0	0.00%
March 2020	INR 0	INR 0	0.00%
IVIAICII 2020	USD 0	USD 0	0.00%
April 2020	INR 0	INR 0	0.00%
April 2020	USD 0	USD 0	0.00%
May 2020 **	INR 0	INR 0	0.00%
May 2020 **	USD 0	USD 0	0.00%
June 2020	INR 0	INR 0	0.00%
June 2020	USD 0	USD 0	0.00%
July 2020	INR 0	INR 0	0.00%
July 2020	USD 0	USD 0	0.00%
August 2020	INR 0	INR 0	0.00%
August 2020	USD 0	USD 0	0.00%

^{**} For SMEC India Pvt. Ltd., the Mobilisation advance payment (5% of Contract value) received on 19.05.2020 as against Advance Bank Guarantee.

However, a summary of financial progress (projected based on man-month consumed) for the PMC Services contract at the end of August 2020 is included in Table 7. For further details, please refer to **Annexure 5.**

Table 7: Financial Progress (Projected based on man-months consumed) on PMC Services at the end of August 2020

Month	Monthly	Cumulative	% of Total
Month	Expenditure	Expenditure	Contract Value
January 2020	INR 10,77,836	INR 10,77,836	0.18%
January 2020	USD 56,098	USD 56,098	0.60%
Fohruary 2020	INR 25,81,997	INR 36,59,833	0.62%
February 2020	USD 112,801	USD 168,899	1.79%
March 2020	INR 38,31,393	INR 74,91,226	1.30%
March 2020	USD 56,261	USD 225,159	2.39%
April 2020	INR 22,26,340	INR 97,17,566	1.69%
April 2020	USD 90,351	USD 315,518	3.35%
May 2020	INR 23,29,743	INR 1,20,47,309	2.09%
May 2020	USD 60,913	USD 376,431	4.00%
June 2020	INR 42,21,118	INR 1,62,68,427	2.83%
June 2020	USD 88,100	USD 464,532	4.94%
Luly 2020	INR 30,52,922	INR 1,85,36,918	3.22%
July 2020	USD 67,841	USD 532,374	5.66%
August 2020	INR 16,18,166	INR 2,01,14,190	3.49%
August 2020	USD 63,232	USD 595,604	6.33%

4.5 Staffing Inputs – August 2020

4.5.1 Mobilized Personnel

The following key Project resources were mobilised and commenced work on the Consulting Services: Table 8: Mobilized Personnel (International / National)

Position / Role	Name of the staff	Category	Commenced Date	De- mobilisation date	Remobilisation date	Total months allocated	Total months mobilised so far (till August 2020 end)	Balance man- months available (September 2020 onwards)
Project Manager (Team Leader)	Dr P.Dharma Dharmabalan	I	14.02.2020	26.02.2020	07.04.2020	70	3.12	66.88
Desalination Expert	Dr.Ghulam Mustafa	I	10.02.2020	22.02.2020	01.04.2020	29.50	5.13	24.37
Additional Key Expert – International	Dr.Uday G.Kelkar	- [01.06.2020			2.50	0.55	1.95
Water Supply Engineer	Mr.Shane Farquharson	I	20.01.2020	20.03.2020		23	2.04	20.96
Mechanical Engineer (Desal)	Mr.Michel Morillon	I	20.01.2020	08.02.2020 15.03.2020	23.02.2020 01.04.2020	15	4.03	10.97
Contract Specialist (Desal)	Mr.Roderick Mackenzie	I	20.01.2020	15.02.2020		9	0.90	8.10
Civil and Structural Engineer (Desal)	Dr.D.Elanchezian	I	20.01.2020	04.04.2020		42	2.45	39.55
Financial Expert	Mr Hemant Chadha	I	22.06.2020			3	0.32	2.68
Civil Engineer	Mr.Ramesh Senthil	N	20.01.2020			72	7.16	64.84
Senior Civil Engineer	Mr.S.Siddappaswamy	N	27.01.2020	22.02.2020	01.04.2020	72	3.092	68.908
Senior Pipeline Engineer	Mr.Nagesh Chinnam	N	04.02.2020			72	4.318	67.682
Environmental Specialist	Dr.Alok Kumar	I	24.02.2020	07.03.2020	25.04.2020	15	1.181	13.819
Environmental Specialist	Mr.S.M.Karthikaeswaran	N	25.02.2020			30	5.500	24.500
Pipeline Engineer-1	Mr.Chandra Shekhar Reddy Yedla	N	25.02.2020	05.03.2020		60	0.32	59.68
Hydraulic Modeller-1	Mr.P.M.Saravanan	N	25.02.2020	27.02.2020		8	0.09	7.91
CAD Operator-1	Mr.G.Murali	N	25.02.2020	24.03.2020	01.05.2020	30	4.81	25.19
Contract Management Specialist	Mr.Santosh Biswa	N	02.03.2020			6	1.72	4.28
Visa and Admin Officer	Mr.A.Renu Kumar	N	20.01.2020			70	7.12	62.88
Accountant	Mr.K.Manikandan	N	09.03.2020			70	5.67	64.33
Office Keeper-1	Mr.Pilominraj Raja (Replaced from Mr.R.Jagan)	N	03.02.2020			70	6.81	63.19
Office Keeper-2	Mr.Thiruvengadam Someswaran (Replaced from Mr.G.Arjun)	N	03.02.2020			70	6.81	63.19

I - International Staff

N - National Staff

A project office has been established in Chennai to accommodate PMC personnel and integrate resources from PMC partners into a united team. The permanent office is located at the Puravankara Primus building, Old Mahabalipuram Road, Okkiyampet, Thuraipakkam, Chennai 600 097. This office location is centrally positioned between the Client office and the Perur project site to balance both short and long-term commitments to the Project.

No PMC team has been permanently demobilised from the Project. However, some resources with intermittent or staged inputs were temporarily demobilised during the period due to COVID-19 pandemic issues.

After the COVID-19 pandemic issues resolved and the end of the 7th extended lockdown period in India, several of these team members are scheduled to return to Chennai for further inputs to this Project in the coming month of September 2020.

4.5.2 Per-Diem Allowance

The following are the details of quantity for per-diem allowance for the staff of Consortium member of the Project on the Consulting Services:

Table 9: Details of Quantity for Per-Diem Allowance for Staff

SI. No.	Name of the firm	Category	Total Number of Days (As per Contract Agreement)	Total Number of Days (As per Allocation of Consortium)	Number of Days of Claim up to July'2020	Number of Days of Claim in August 2020	Cumulative Number of Days of Claim up to August 2020	Balance Number of Days for Claim
1	NJS Engineers India Pvt. Ltd.	International	2250	1,440	12	0	12	1,428
2	SMEC India	International		810	138	0	138	672
2	Pvt. Ltd.	National	50	50	0	0	0	50
3	SMEC International Pty. Ltd.	Per-diem allow	Per-diem allowance in INR for the International Experts will be claimed by SMEC India Pvt. Ltd.					
4	TATA Consulting Engineers Ltd.	Not applicable. Hence no claim will be made for the entire project duration						
	TOTAL		2,300	2,300	190	0	150	2,150

4.5.3 Summary of Personnel Inputs for the Period

A summary of personnel inputs for the period (August 2020) is included in **Annexure 6.**Planned mobilisation of PMC personnel for the next three (3) month period (up to November 2020) is presented in **Annexure 7.**

4.5.4 Team Structure

A copy of the current PMC organisation chart is attached in **Annexure 8**.

4.5.4.1 Change of Team Structure PMC's nominated key personnel for this Project

As at the end of August 2020, there are no changes to the PMC's nominated key personnel for this Project; however, two support staffs (Office Keeper-1 and Office Keeper-2) have been replaced with new personnel from July 2020 onwards.

Dr.Uday G.Kelkar, NJSEI Pvt. Ltd. have been mobilised for the Project since June 2020, as an additional Key Expert (International) with 2.50 man-months (Intermittent) by adjusting with the input man-months of Dr.Ghulam Mustafa (Desalination Expert), International Key Expert with remuneration of USD 26225 per Man month has been accepted by CMWSSB and JICA. As per CMWSSB letter dated 24.04.2020, it is informed that his input of 2.50 man-months is expected to spread over the entire Project duration and his cost is to be met from the cost of Desalination Expert, and there is no change in a project approved budget for this PMC assignment.

4.6 Meetings and Site Visits – August 2020

A summary of critical meetings and site visits completed during the period is furnished in Table 10.

Table 10: Meetings and Site Visits (August 2020)

Date	Meeting	Location	Attendees
02.08.2020	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the responses for JICA comments on Prequalification documents for CP1 on DBO basis.	Online Microsoft Teams Meeting Video Conference Call	PMC members
05.08.2020	Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the finalisation of Sub consultancy agreement for carrying out the bathymetry surveys, seawater sample collection, testing, analysis and Brine Diffusion Analysis Modelling Study work for CP1 components.	Online Microsoft Teams Meeting Video Conference Call	PMC members
11.08.2020	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the comments from CMWSSB / clarification requested and Action Taken Report on Draft Concept Design Report for CP1 components	Online Microsoft Teams Meeting Video Conference Call	PMC members
14.08.2020	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on JICA 2 nd comments received from CMWSSB regarding the Revised Prequalification documents for CP1 components and Capital Cost of various Desalination Plants across the globe / recently awarded DSP projects and its per MLD cost	Online Microsoft Teams Meeting Video Conference Call	PMC members
18.08.2020	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on progress review status, updates on EIA Review report, JICA 2 nd comments and Prequalification documents for CP1 and other activities to be carried out by the PMC team for CP1 to CP4 components.	Online Microsoft Teams Meeting Video Conference Call	PMC members

Date	Meeting	Location	Attendees
19.08.2020	Online Microsoft Teams Meeting conducted by Desalination Expert (PMC) for a discussion on Instrumentation Control and Automation works, CAPEX, OPEX etc. for CP1 components.	Online Microsoft Teams Meeting Video Conference Call	PMC members
27.08.2020	Joint site visit with AEE (Desal) CMWSSB officials to Perur DSP for monitoring the progress of topographical survey work.	Site Visit at Perur DSP	PMC members & CMWSSB officials
27.08.2020	Preliminary discussion with Bathymetry Survey team along with AEE (Desal) CMWSSB officials	Nemmeli DSP	PMC members & CMWSSB officials
28.08.2020	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on review status, progress of topographical survey, bathymetry survey and seawater sample collection work and other activities to be carried out by the PMC team for CP1 to CP4 components.	Online Microsoft Teams Meeting Video Conference Call	PMC members

The regular meetings/technical discussions have been conducted by PMC team on preparation of Concept Design Report including Instrumentation and Control Works including plant operation control system, Redundancy Levels of DCS system, Central Control Room System, Instrumentation Plan, Critical Control Points, Capital Cost Comparison DPR, JICA, PMC. Preparation of Operation & Maintenance Cost, Minimum Functioning Specifications. Discussion on responses for JICA comments on Prequalification documents for CP1 components on DBO basis. Submission of review note on Product Water Transmission Main from Perur to Porur for CP2 components, Monthly Progress Report (MPR 06) for July 2020. Also, regular interactions, discussions held with CMWSSB officials and other Project aspects until August 2020. Where formal minutes have not been recorded, these meetings are not listed in the above.

4.7 Health & Safety –August 2020

There are no health and safety incidents to report for August 2020, associated with the activities of the PMC. The evolving international situation regarding the COVID-19 virus is pandemic, however, of concern to the PMC, as restricted travel movements may impact mobilisation of international (and possibly national) staff. The PMC will keep CMWSSB informed of any developments that impact the delivery of the Consulting Services. It is requested that CMWSSB consider approval of out-of-Country professional inputs if the COVID-19 virus Pandemic situation worsens and travel restrictions are enforced, for the PMC to maintain progress on activities. Also, it is requested that CMWSSB to consider the approval of national and support staff for work from home inputs, if the COVID-19 virus Pandemic situation worsens and travel restrictions to sites are enforced, for the PMC to maintain progress on activities.

The details of Insurance are listed in Table 11.

Table 11: Details of Insurance

Name of the Firm	Type of Insurance	Name of the Agency	Insurance Value	Period Insurance from	Period Insurance to
	Third-Party Motor Vehicle Liability Insurance Third-Party Liability Insurance	SBI General Insurance	INR 100 Million	10.01.2020	09.01.2021
SMEC International Pty. Ltd.	Professional Liability	Engineering Consultants Underwriters Ltd.	AUD 10 Million	30.06.2020	31.12.2021
. .,	Employer's Liability and Worker Compensation Insurance	CHUBB Insurance Singapore limited	SGD 10 Million	01.07.2019	31.12.2020
	Insurance against Loss or Damage	Not Applicable	-	-	-
	Third-Party Motor Vehicle Liability Insurance Third-Party Liability Insurance	SBI General Insurance	INR 100 Million	10.01.2020	09.01.2021
SMEC India Pvt. Ltd.	Professional Liability	Bajaj Allianz General Insurance Company Ltd.	INR 1000 Million	08.07.2020	07.07.2021
	Employer's Liability and Worker Compensation Insurance	IFFCO – TOKIO General Insurance Co. Ltd.	INR 640.84 Million	05.01.2020	04.01.2021
	Insurance against Loss or Damage	Bajaj Allianz General Insurance Company Ltd.	INR 8.40 Million	30.04.2020	29.04.2021
	Third-Party Motor Vehicle Liability Insurance	To be provided as and when vehicles are			e mobilised monthly
NJS Engineers India	Professional Liability	New India Assurance Company Limited	INR 259 Million	20.04.2020	20.07.2027
Pvt. Ltd.	Employer's Liability and Worker Compensation Insurance	New India Assurance Company Limited	INR 20 Million	20.04.2020	19.04.2021
	Insurance against Loss or Damage	Not Applicable	-	-	-
	Third-Party Motor Vehicle Liability Insurance	IFFCO TOKIO General Insurance Company Ltd.	INR 0.62 Million	14.01.2020	13.01.2021
TATA Consulting	Professional Liability	The New India Assurance Co. Ltd.	INR 1500 Million	03.10.2019	02.10.2020
Engineers Ltd.	Employer's Liability and Worker Compensation Insurance	The New India Assurance Co. Ltd.	INR 1145 Million	01.04.2020	31.03.2021
	Insurance against Loss or Damage	The New India Assurance Co. Ltd.	INR 1000 Million	03.10.2019	02.10.2020

4.8 Variations

4.8.1 Submitted/Approved

There are some variation requests submitted or approved during this period.

Dr.Uday G.Kelkar, NJSEI Pvt. Ltd. have been mobilised for the Project since June 2020, as an additional Key Expert (International) with 2.50 man-months (Intermittent) by adjusting with the input man-months of Dr.Ghulam Mustafa (Desalination Expert), International Key Expert with remuneration of USD 26225 per Man-month has been accepted by CMWSSB and JICA. As per CMWSSB letter dated 24.04.2020, it is informed that his input of 2.50 man-months is expected to spread over the entire project duration and his cost is to be met from the cost of Desalination Expert, and there is no change in Project approved budget for this PMC assignment.

The following staff CVs have been submitted for the replacement of 2 nos. of Key Expert (International), 1 no. of Non-Key Expert (International) and 7 nos. of Non-Key National / Local Expert (Non-evaluation position) vide our correspondence letters communicated to CMWSSB, we request CMWSSB to provide approval kindly.

SI.	Position	Original Staff as per	Proposed Staff
No.		Contract Agreement	for replacement
	KEY - INTERNATIONAL		
1	Electrical Engineer (International)	Mr.Sergio de Bastos Vilar	Mr.Gilbert Z.Gonzales
		Magalhaes Paulo	
2	Pipeline Engineer (International)	Mr.John Goullee	Mr.Balvinder Singh Bahra
	NON KEY INTERNATIONAL		
3	Monitoring & Control Expert (Desal)	Mr.Manikandan Ganesh Shoranur	Mr.Afzal Abdul Latheef
	NON KEY – NATIONAL / LOCAL		
	EXPERT		
4	Mechanical Engineer	Mr.Surajit Debnath	Mr.Mayur Gupta
5	Electrical Engineer	Mr.G.V.K Mohan	Mr.Om Prakash Singh
6	Structural Engineer	Mr.M.K.Vinod	Ms.J.Sudha
7	Pipeline Engineer - 1	Mr.Chandra Shekhar Reddy Yedla	Mr.Rahul N Ramdhan
8	Pipeline Engineer – 2	Mr.V.Tulasi Ram	Mr.P.Thangavel
9	Social Communication Specialist	Dr.M.Rajsekhar Reddy	Mrs.R.Kanmani
10	Quantity Surveyor-1	Mr.Vinod Chandra K.C	Mr.R.Muthurajan

4.8.2 Under Consideration

There are no future variations currently under consideration.

4.9 Communication and Correspondence

There is no progress on activities to report for Project communications this period. The PMC does, however, note the request of the CMWSSB to tighten up on Project communications and ensure that there is a "single voice" from the PMC during project discussions. Also, adherence to project communications protocols requires improved effort to ensure that correspondence is issued in the correct format and through agreed lines of communication.

The correspondence details of the letters submitted to CMWSSB and letters received from CMWSSB for the Project is furnished in Table 12.

Table 12: Details of Correspondence for the Project

	12: Details of Correspondence for the Project			
SI. No.	Details of Correspondence letter	Letter Correspondence reference number, date	Date of submission / received	
1	Submission of list of proposed changes and our recommendations, Updated Responses to JICA Comments and Revised Pre-Qualification document (RFQ) for CP1 on DBO basis	Ref:SMEC/CMWSSB/5061185/124, dated 03.08.2020	03.08.2020	
2	Submission of Lower Deduction of Tax Certificate for NJS Engineers India Pvt. Ltd. @ 2.89%	Ref:SMEC/CMWSSB/5061185/125, dated 03.08.2020	03.08.2020	
3	Letter from TATA Consulting Engineers Ltd. for TDS & RA Deduction	Ref:SMEC/CMWSSB/5061185/126, dated 03.08.2020	03.08.2020	
4	Authorized signatory for the signing of M.Book	Ref:SMEC/CMWSSB/5061185/127, dated 05.08.2020	05.08.2020	
5	Action Taken Report / Reply to Queries on the Draft Concept Design Report for CP1	Ref:SMEC/CMWSSB/5061185/128, dated 05.08.2020	05.08.2020	
6	Submission of Lower Deduction of Tax Certificate for SMEC International Pty Ltd @ 2.72%	Ref:SMEC/CMWSSB/5061185/129, dated 06.08.2020	06.08.2020	
7	Submission of Revised Pre- Qualification document (RFQ) for CP1 on DBO basis	Ref:SMEC/CMWSSB/5061185/129, dated 06.07.2020	07.08.2020	
8	Submission of Monthly Progress Report (MPR 06) for July 2020 (10 copies)	Ref:SMEC/CMWSSB/5061185/130, dated 10.08.2020	10.08.2020	
9	Action Taken Report / Reply to Queries on the Draft Environmental Impact Assessment (EIA) Review Report for CP1	Ref:SMEC/CMWSSB/5061185/134, dated 12.08.2020	12.08.2020	
10	Action Taken Report / Reply to Queries on the Draft Concept Design Report and Draft Environmental Impact Assessment (EIA) Review Report for CP1	Ref:SMEC/CMWSSB/5061185/135, dated 12.08.2020	12.08.2020	
11	Affidavit for payment of TDS amount to the IT Department for SMEC International Pty Ltd	Ref:SMEC/CMWSSB/5061185/136, dated 12.08.2020	12.08.2020	

SI.	Details of Correspondence letter	Letter Correspondence	Date of
No.		reference number, date	submission /
- 1.5			received
12	Submission of Original Affidavit for the	Ref:SMEC/CMWSSB/5061185/138,	13.08.2020
	payment of TDS amount to the IT	dated 13.08.2020	
	Department for SMEC International		
- 10	Pty Ltd	D (01/20/01/14/02/20/407/407	44.00.0000
13	Submission of Invoice for July 2020 for SMEC International Pty Ltd in	Ref:SMEC/CMWSSB/5061185/131, dated 14.08.2020	14.08.2020
	Foreign Currency	ualeu 14.00.2020	
14	Submission of Invoice for July 2020	Ref:SMEC/CMWSSB/5061185/132,	14.08.2020
	for SMEC India Pvt. Ltd. in Local	dated 14.08.2020	
15	Currency Submission of Invoice for July 2020	Ref: SMEC/ CMWSSB/5061185/133,	14.08.2020
13	for SMEC India Pvt. Ltd. in Foreign	dated 14.08.2020	14.00.2020
	Currency	44.00.2020	
16	Submission of Responses to JICA 2 nd	Ref: SMEC/ CMWSSB/5061185/139,	17.08.2020
	Comments and Revised Pre-	dated 14.08.2020	
	Qualification document (RFQ) for CP1		
17	on DBO basis Reply letter to CMWSSB for	Ref:SMEC/CMWSSB/5061185/140,	17.08.2020
''	clarification on the input of	dated 17.08.2020	17.00.2020
	Dr.D.Elancherian, Civil & Structural	44.54 17.55.2525	
	Engineer (Desal), Non-Key		
	International Expert on the submitted		
	monthly Invoices from January to April		
	2020 for SMEC India Pvt. Ltd. in Foreign Currency		
18	Action Taken Report / Reply to	Ref:SMEC/CMWSSB/5061185/141,	17.08.2020
	Queries on the Draft Concept Design	dated 17.08.2020	
	Report and Draft Environmental		
	Impact Assessment (EIA) Review		
19	Report for CP1 Detail of Invoices for July 2020 for all	Ref:SMEC/CMWSSB/5061185/142,	17.08.2020
13	Consortium Members	dated 17.08.2020	17.00.2020
20	Replacement of Pipeline Engineer-1	Ref:SMEC/CMWSSB/5061185/144,	18.08.2020
	and Pipeline Engineer-2 (Non-Key /	dated 20.08.2020	
	Local Expert and Non-evaluation		
	position)		
21	Mobilisation of Mr.V.S.Rajasekar	Ref:SMEC/CMWSSB/5061185/145,	20.08.2020
	(Quantity Surveyor 2) (Non-Key /	dated 20.08.2020	
	Local Expert)		
22	Request for approval of replacement	Ref:SMEC/CMWSSB/5061185/146,	20.08.2020
	of 2 nos. of Key Expert (International),	dated 20.08.2020	
	1 no. of Non-Key Expert		
	(International) & 6 nos. of Non-Key		
	National / Local Expert (Non-		
	evaluation position) –		
23	Replacement of Monitoring & Control	Ref:SMEC/CMWSSB/5061185/143,	21.08.2020
	Expert (Desal) (Non-Key International	dated 20.08.2020	
	Expert No.9 / Non-evaluation position)		

SI.	Details of Correspondence letter	Letter Correspondence	Date of
No.	•	reference number, date	submission /
			received
24	Submission of a copy of TCE's Letter	Ref:SMEC/CMWSSB/5061185/147,	27.08.2020
	of Credit (L/C) received from Bank of	dated 27.08.2020	
	India, Tokyo Branch		
25	Replacement of Structural Engineer	Ref:SMEC/CMWSSB/5061185/148,	27.08.2020
	(B5) (Non-Key / Local Expert & Non-	dated 27.08.2020	
	evaluation position)		
26	Email from CMWSSB regarding the	Received by email from CMWSSB on	01.08.2020
	replies to JICA's queries and revised	01.08.2020	
27	RFQ Bill prepared – Signing of bills PMC's	Letter No:CMWSSB/SE(Desal)/400	03.08.2020
21	Authorised Signatory (Jan' to June	MLD Plant/PMC/2020, Dt: 03.08.2020	03.00.2020
	2020), JV Registration for SMEC		
	India Pvt. Ltd. & Mobilisation Advance		
	for TCE		22.22.222
28	Email from CMWSSB regarding the	Received by email from CMWSSB on 03.08.2020	03.08.2020
	Draft Concept Design Report for CP1 — Clarifications / Observations &	03.06.2020	
	Details requested		
29	Email from CMWSSB regarding the	Received by email from CMWSSB on	03.08.2020
	Draft Environmental Report for CP1 –	03.08.2020	
	Clarifications – Details requested		25.00.0000
30	Email from CMWSSB regarding	Received by email from CMWSSB on	05.08.2020
	revised replies to JICA's queries and revised draft RFQ	05.08.2020	
31	USD Bill prepared – Signing of bills	Letter No:CMWSSB/SE(Desal)/400	10.08.2020
	PMC's Authorised Signatory (Jan' to	MLD Plant/PMC/2020, Dt: 10.08.2020	
	June 2020)		
32	Monthly Bills for SMEC India Pvt. Ltd.	Letter No:CMWSSB/SE(Desal)/400	13.08.2020
	in Foreign Currency – Returned (Jan'	MLD Plant/PMC-013/2020, Dt: 13.08.2020	
33	to April 2020) Email from CMWSSB regarding the	Received by email from CMWSSB on	13.08.2020
33	2 nd query on revised RFQ to the	13.08.2020	13.00.2020
	observations of JICA		
34	Email from CMWSSB regarding	Received by email from CMWSSB on	13.08.2020
	Revised draft RFQ document	13.08.2020	
25	forwarded to JICA on 06.08.2020	Lotter NeiCMM/CCD/CC/D1//400	17.00.0000
35	Replacement of Experts – Pipeline Engineer 1 & 2 – Additional details	Letter No:CMWSSB/SE(Desal)/400 MLD Plant/PMC-015/2020, Dt:	17.08.2020
	requested	17.08.2020	
36	Email from CMWSSB regarding the	Received by email from CMWSSB on	18.08.2020
	revised draft RFQ document	14.08.2020	
	forwarded to JICA on 06.08.2020	B	40.00.000
37	Email from CMWSSB regarding M/s.	Received by email from CMWSSB on	18.08.2020
	NJS Engineers India Pvt Ltd - Foreign currency - Original Bill of supply &	18.08.2020	
	Claim of Payment (4 Copies)		
	requested		

The PMC team is maintaining the Document Management System (DMS) for the project, and DMS will be provided to CMWSSB.

5 PROGRESS OUTLOOK FOR PMC SERVICES

5.1 Activities Planned Next Month

A summary of planned (key) activities for September 2020 is provided in Table 13.

Table 13: Planned Activities until September 2020 (PMC activities)

Contract	Activities (Planning for next months)		
Package	Took 2: Conducting Currous and Investigations - Drangestion of report on surrous and		
	Task 3: Conducting Surveys and Investigations – Preparation of report on surveys and investigations on the following:		
	 Preparation of seawater quality testing and analysis report 		
	 Preparation of Report on the topographical survey at Perur DSP site 		
	 Preparation of Report on the Bathymetry Surveys 		
	 Preparation of Brine Diffusion Modelling Study 		
	Task 5: Preparation & Submission of Concept Design Report		
	 Preparation and Submission of Final Concept Design Report including Financial Modelling 		
CP1	Task 6 Preparation of Technical Specifications		
	Task 7 Financial Analysis		
	 Financial Modelling and Analysis 		
	Preparation of Sensitivity AnalysisPreparation of Bid Parameters		
	Task 8 Preparation of O&M Requirements for Bid Document		
	Task 9: Request for Qualification (RFQ) – issue document to market (late September)		
	Comments from JICA have been incorporated in the updated PQ documents		
	Obtaining concurrence from JICA for PQ documents for CP1 components		
	Task 10: Request for Proposal (RFP) – commence document preparation in early September 2020		
	Preparation of Instruction to Bidders		
	Task 1: Data collection – collection and verification of data on the existing/proposed CMWSSB water transmission system and proposed battery limits (including site information for Porur WDS)		
	Task 2: Review the technical information - Decide on the preferred location of the new reservoir and pumping station on Porur Headworks site		
	 Pumps combination at Perur will be reviewed. 		
CP2	 Review of the preliminary design in the DPR. Reviewing the AECOM report about Pumping Station at Perur and WDS and PS at Porur and giving our observations, if any. 		
OI Z	 Submission on Review Note on Product Water Transmission Main for arriving the pump head for Perur DSP. 		
	Task 3: Conducting Surveys and Investigations - Confirm the scope of services for proposed site topographic survey and geotechnical investigation		
	 Conducting the topographical survey at Porur site 		
	Implementation of the topographical surveys for the construction area of the pumping stations in the premises of the Perur DSP, the pumping station and reservoir in the Porur WDS		

Contract		
Package	Activities (Planning for next months)	
CP3	Task 1: Design reviews – undertake the review of design and bid document deliverables (by others), if prioritised by CMWSSB Hydraulic analysis of the product water transmission main for final determination of the pump head and countermeasure for water hammer. Received the product water pipeline transmission design, we will review the final design to arrive at the pumping head required at Perur pumping station. Task 2: Review of draft CP3 bid documents (prepared by CMWSSB) performed and the issue of comments	
CP4	 Task 1: Reconnaissance Survey, Data and information collection – collect and verify data on the existing CMWSSB water distribution network according to agreed prioritisation of WDZs (Area X and Area XIII) Review of Technical information about the Project, revision of population and demand details with CMWSSB consent. Collect and review of the topographical survey for the Chennai core city. Review of the inventory data of the zone-wise distribution network provided by CMWSSB Reconnaissance Survey and a Site visit to various Water Distribution Stations. Task 1: GIS development – progressive development of the GIS database for existing water distribution asset inventory, including design of attribute data structure Task 2: Preliminary Design basis status report – a document for proposed design criteria for water distribution system modelling and design Preparation and submission of PMC observations on various components of the Master plan/ JICA report 	
CP5	No planned activities during this period	
General	 Preparation of updation of Concept Design Report for CP1 components – finalise based on Client/JICA reviews Preparation and Submission of Monthly Progress Report for September 2020 External Approvals Register – confirm status and timing for all Project approvals and permits pre-requisite to delivering the Works and assemble in project-specific Register Project Updated EIA review report – complete review of the Project EIA review report and environmental commitments and brief package Leads on specific requirements relevant to each package Preparation of Environmental Management Plans and Environmental Monitoring Plans for CP1 and CP2 (for Perur pumping station). Presentation of Final Environmental Impact Assessment review report and finalisation of the EIA by incorporating the comments, if any, from CMWSSB. Land acquisition/access status review – review and Report on the status of all land acquisition and access requirements for all Project sites/routes and develop an action plan to close gaps. 	

5.2 Managing Progress Risks

A summary of potential progress risks (PMC activities) and proposed measures to mitigate/control these risks are provided in Table 14.

Table 14: Managing Progress Risks (PMC activities)

Contract Package	Risk	Control measure	Status
All	COVID-19 virus Pandemic restricts travel movements of PMC personnel and prevents mobilisation of key personnel	Agreement with CMWSSB for selected activities/tasks to be completed remotely (not Chennai based) to avoid any delays to progress	•
All	JICA concerns with the rate of progress and achieved activities to date	PMC has prepared an updated work schedule to compress the timeline for CP1 activities and shorten the duration through to tendering of this package. Scheduling for other packages is also being reviewed to seek the opportunity to shorten project duration.	•
CP1	JICA concerns with the rate of progress and achieved activities to date	Enter upon permission for the DSP site to be obtained by CMWSSB from HR & CE Board	•
CP2	Porur Headworks / WDS: The site designated for construction of reservoir and pumping station at Porur is taken for other Project, and already construction of 6 MLD WTP is under progress. This will call for a change in the layout plan for the proposed reservoir and pumping station in the nearby area.	Details of existing assets on the Porur Headworks / WDS site to be provided by CMWSSB as a priority to allow the PMC to review the site layout concept urgently. Allocation of 400 Mld of treated water: CMWSSB has been requested to provide the quantities allocated en route to Porur from Perur to review the pumping head requirement.	•
CP4	Lack of available digital data on the existing water distribution network (in AutoCAD drawing format) to develop an asset database and hydraulic model results in slower progress than estimated.	PMC to coordinate with internal CMWSSB (PIU) team looking at GIS development and will apply additional CAD/GIS resource if required for the digitisation of hard-copy network plans	•

Legend: Risk being managed (●); Risk managed with further action (●); Risk not effectively managed (●)

6 PROGRESS REPORT FOR PROJECT (THE WORKS)

At the time of preparing this Monthly Progress Report for August 2020, the Project works are yet to commence, and no contracts have been awarded. Comments made below reflect this current status.

It is expected in subsequent months that a more specific reporting format will be issued once works commence.

6.1 Achieved Activities – August 2020

There are no achieved activities (Works) to report.

6.2 Actual Progress versus Planned Progress - - August 2020

The Project works are not scheduled to commence until later in 2020 (CP3 components). Other contract packages may start even later during 2021 and beyond.

There is no comparison of planned versus actual progress to report.

6.3 Financial Progress in August 2020

There is no financial progress to be reported for the Project.

6.4 Health & Safety -August 2020

There are no health and safety matters to report.

6.5 Environmental and Regulatory Compliance

There are no regulatory and compliance matters to be reported for the Project during the August 2020 period. We note that before this period, the CMWSSB has been awarded CRZ clearance for the Project.

6.6 Communication and Correspondence

Leading up to the appointment of the PMC, CMWSSB has engaged with relevant authorities and external stakeholders regarding the Project. A key stakeholder involved in progress to date is the Japan International Cooperation Agency ("JICA"), who will act on behalf of the Government of Japan to issue an Official Development Assistance (ODA) loan for the Project under Loan ID-P267.

Since the appointment of the PMC, limited Project communications with external stakeholders have transpired. A Project Communication Plan is required.

6.7 Variations

6.7.1 Scope of Work

Nil.

6.7.2 Schedule

Nil.

6.7.3 Budget

Nil.

7 PROGRESS OUTLOOK FOR PROJECT (THE WORKS)

7.1 Activities Planned Next Month

No progress on construction activity is expected for the coming month of September 2020 as the works have not been tendered for any of the Contract Packages to date.

7.2 Managing Progress Risks

A summary of potential Project progress risks and proposed measures to mitigate/control these risks is provided at

Table 15.

Table 15: Managing Progress Risks (Project)

Contract Package	Risk	Control measure	Status
All	Approvals and permits for project execution are not in place when needed resulting in delays to construction	PMC to prepare a register that lists all approvals and permits required for project execution across each of the Contract Packages for tracking purposes	•

Legend: Risk being managed (●); Risk managed with further action (●); Risk not effectively managed (●)

8 ANNEXURES

The following annexures are included with this Monthly Progress Report:

- Annexure 1 List of Experts with Name, Role and Man-months
- Annexure 2 Project Scope
- Annexure 3 Overall Works Schedule
- Annexure 4 Work Schedule Task Breakdown (Contract Package-wise)
- Annexure 5 Projected Financial Progress Based on Man-months consumed Vs Actual Progress (Bill Passed)
- Annexure 6 Personnel Inputs Summary
- Annexure 7 Team Deployment Schedule for Next months
- Annexure 8 Organisational Chart

Annexure 1 List of Experts with Name, Role and Man-months

SI.	Name of the Expert	Role/ Position	Staff
No.	(International/ National Local)		Month
			(SM)
KEV	EXPERT		
1	Dr.P.Dharmabalan	Project Manager- International Expert	70
		,	
2a	Dr.Ghulam Mustafa	Desalination Expert- International Expert	29.50
2b	Dr.Uday G.Kelkar	Additional Key Expert – International Expert	2.50
3	Shane Farquharson	Water Supply Engineer - International Expert	23
4	Michel Morillon	Mechanical Engineer (Desal)- International Expert	15
5	Sergio de Bastos Vilar Magalhaes Paulo	Electrical Engineer (Desal)- International Expert	25
6	John Goullee	Pipeline Engineer-International Expert	70
7	Roderick Mackenzie	Contract Specialist (Desal) - International Expert	9
8	Tharloak S Bhatt	Contract Specialist (Distribution)- International Expert	8
9	S.Siddappaswamy	Senior Civil Engineer	72
10	Nagesh Chinnam	Senior Pipeline Engineer	72
	Sub Total		396
NON	KEY EXPERT - INTERNATIONAL		
1	Dr.D.Elancherian	Civil and Structure Engineer (Desal)	42
2	Madhawa Delpachitra	Mechanical Engineer (Distribution)	4
3	Manfred Kurt (Meisner)	Electrical Engineer (Distribution)	4
4	Manikandan Ganesh Shoranur	Monitoring and Control Expert (Desal)	11
5	Ashish Gosain	Monitoring and Control Expert (Distribution)	12
6	Shanmuganathan J	Specification Specialist (Desal)	4
7	Manish Chintamani Sane	Specification Specialist (Distribution)	3
8	Hemant Chadha	Financial Expert	3
9	Dr.Alok Kumar	Environmental Specialist	15
10	Santhosh Kumar	Commissioning Engineer	10
11	Rajesh Mishra	Social Communication Specialist	16
12	Hyacinth Augusto Vaz	Organisational Expert	9
NON	Sub Total NKEY EXPERT - NATIONAL		133
13	Ramesh Senthil	Civil Engineer	72
		Civil Engineer	
14	Surajit Debnath	Mechanical Engineer	40
15	G.V.K.Mohan	Electrical Engineer	45
16	Vinod M K	Structural Engineer	28
17	Kumar M	Architect	12

SI. No.	Name of the Expert (International/ National Local)	Role/ Position	Staff Month
			(SM)
18	K.Senthil	Building Mechanical and Electrical Engineer	16
19	Chandra Shekhar Reddy Yedla	Pipeline Engineer 1	60
20	V.Tulasi Ram	Pipeline Engineer 2	60
21	Hema Kumar.S	Pipeline Engineer 3	50
22	P.M.Saravanan	Hydraulic Modeler - 1	8
23	V.Nandhini	Hydraulic Modeler - 2	8
24	Naisa Sreenivasulu Reddy	Construction Planner Cost Estimator	4
25	S.Sreenivasula Reddy	Specification Specialist	4
26	S.M.Karthikaeswaran	Environmental Specialist	30
27	Dr.M.Rajsekhar Reddy	Social Communication Specialist	72
28	Najas Thattakatte Abdulkareem	Safety and Health Expert-1	40
29	Prasanth Balan	Safety and Health Expert-2	70
30	Vinod Chandra K.C	Quantity Surveyor 1	50
31	V.S.Rajasekar	Quantity Surveyor 2	70
	Sub Total		739
SUP	PORTING STAFF		
1	TBN	Secretary	70
2	G.Murali	CAD Operator-1	30
3	TBN	CAD Operator (2 Nos.)	60
4	TBN	GIS Operator	18
5	TBN	Inspectors (4 Nos.)	200
6	TBN	Geotechnical Engineer	6
7	TBN	MIS Specialist	50
8	Santosh Biswa	Contract Management Specialist	6
9	A.Renu Kumar	Visa and Admin. Officer	70
10	K.Manikandan	Accountant	70
11	Pilominraj Raja (Replaced from Mr.R.Jagan)	Office Keeper-1	70
12	Thiruvengadam Someswaran (Replaced from Mr.G.Arjun)	Office Keeper-2	70
	Sub Total		720
	Total		1988

Annexure 2 Project Scope

SI. No.	Component	Construction Items	
SI. No.	Component Construction of the Perur DSP (400 MLD)	 Seawater intake facilities Pre-treatment facility Seawater desalination facilities by Reverse Osmosis (RO) technology Post-treatment facility for remineralisation and disinfection Potable water storage Effluent discharge pipelines Pre-treatment and wastewater treatment facility All other buildings and structures necessary for the seawater 	
CP2	Construction of	 desalination plant Perur electrical sub-station (80 MVA capacity). Perur UGT Product water tanks of Capacity 36 ML (4 compartments of each 9 ML) The potable water tank of 3 ML (2 compartments of each 1.50 ML) Pumphouse and pump facility at Perur DSP 	
	Pumping Station and Reservoirs	 Porur UGT of Capacity of 10 ML Pumphouse and pump facility at Porur Headworks 	
CP3	Construction of product water transmission system	 Product water transmission main (DN 1000, 1600, 1800 and 2000mm, 65 km, MS or DI pipe) 	
CP4	Improvement of the existing distribution system in Chennai Core City	 Replacement of the existing distribution pipes (DN100-450 mm, 375km, DI pipe) Installation of supplementary distribution pipes to strengthen the capacity of the existing distribution networks (D150-700mm, 101km, DI pipe) Installation of new water distribution pipes in un-covered streets in Core city (DN100-150 mm, 258km, DI pipe) Reinforcement of the storage capacity of Under Ground Tank (UGT) and Elevated Storage Tanks (ESRs) Installation of service connections and water meters Setup of district metered areas (DMA) 	
CP5	Installation of external power transmission line	 Construction of 230/110 kV transmission lines to achieve dedicated power feed to the existing Nemmeli DSP, Nemmeli Expansion DSP and the proposed Perur DSP 	

Annexure 3 Overall Work Plan

Annexure 4 Work Schedule (Contract Package-wise)

Annexure 5 Projected Financial Progress Based on Man-months consumed Vs Actual Progress (Bill Passed)

Annexure 6 Personnel Inputs Summary

PERSONNEL INPUT SUMMARY FOR AUGUST 2020

SI. No.	Key activity / significant task carried out	List of PMC team members	Working on Delivery
1	 Due to COVID-19 Pandemic issues across the globe, the Government of Tamil Nadu announced the partial 7th lockdown period from 01.08.2020 to 31.08.2020 throughout Chennai and its adjacent Districts in Tamil Nadu, so some the National staff (outside Chennai) and International staff are allowed to work on the project as Work From Home option. Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the responses for JICA comments on Prequalification documents for CP1 on DBO basis on 02.08.2020. 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Dr.Uday G.Kelkar (Additional Key Expert – International); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Submission of responses on JICA comments and Prequalification (PQ) documents for CP1 on DBO basis on 03.08.2020
2	 Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the comments from CMWSSB / clarification requested and Action Taken Report on Draft Concept Design Report for CP1 components 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Mr.Siddappaswamy (Sr.Civil Engineer); Dr.Ghulam Mustafa (Desalination Expert); Mr.Michel Morillon (Mechanical Engineer, Desal); Mr.S.M.Karthikaeswaran (Environmental Specialist)	Submission of Action Taken Report/reply to queries on the Draft Concept Design Report for CP1 on 06.08.2020
3	 Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the comments from CMWSSB / clarification requested and Action Taken Report on Draft Concept Design Report and Draft Environmental Impact Assessment (EIA) Review Report for CP1 components on 11.08.2020 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Mr.Siddappaswamy (Sr.Civil Engineer); Dr.Ghulam Mustafa (Desalination Expert); Mr.Michel Morillon (Mechanical Engineer, Desal); Dr.Alok Kumar (Environmental Specialist); Mr.R.Senthil (Civil Engineer); Mr.S.M.Karthikaeswaran (Environmental Specialist)	Submission of Action Taken Report/reply to queries on the Draft Concept Design Report and Draft Environmental Impact Assessment (EIA) Review Report for CP1 on 12.08.2020

SI.	Key activity / significant task carried	List of PMC	Working on
4 4	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on 14.08.2020 for a discussion on the responses for JICA 2 nd comments on Prequalification documents for CP1 on DBO basis.	team members Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Dr.Uday G. Kelkar (Additional Key Expert – International); Dr.Ghulam Mustafa (Desalination Expert); Mr.Michel Morillon (Mechanical Engineer, Desal); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Submission of responses on JICA 2 nd comments and Prequalification (PQ) documents for CP1 on DBO basis on 17.08.2020
5	 Online Microsoft Teams Meeting conducted by Desalination Expert (PMC) for a discussion on Hydraulics and position of product water transfer pump for Concept Design Report on 19.08.2020 	Dr.Ghulam Mustafa (Desalination Expert); Mr.Michel Morillon (Mechanical Engineer, Desal); Mr.S.M.Karthikaeswaran (Environmental Specialist)	Updation of Concept Design Report for CP1
6	 Preparation of Concept Design Report for CP1 including Instrumentation Control Automation Works including plant operation control system, Redundancy Levels of DCS system, Central Control Room System, Instrumentation Plan, Critical Control Points, etc. Preparation of Hydraulics and Process Flow Diagram Capital Cost Comparison DPR, JICA, PMC. Preparation of O&M Cost, Minimum Functioning Specification. Online Microsoft Teams Meeting conducted by Desalination Expert (PMC) for a discussion on Hydraulics and position of product water transfer pump for Concept Design Report on 21.08.2020 	Dr.P.Dharmabalan (Project Manager, International Expert); Dr.Ghulam Mustafa (Desalination Expert); Mr.Michel Morillon (Mechanical Engineer, Desal); Mr.R.Senthil (Civil Engineer); Mr.S.M.Karthikaeswaran (Environmental Specialist)	Updation of Concept Design Report for CP1
7	 Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the preparation of social assessment report and Financial Analysis for Concept Design Report, project status, activities to be carried out by the PMC team for CP1 to CP4 on 28.08.2020 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Dr.Ghulam Mustafa (Desalination Expert); Mr.Siddappaswamy (Sr.Civil Engineer); Mr.R.Senthil (Civil Engineer); Mr.S.M.Karthikaeswaran (Environmental Specialist); Mr Hemant Chadha (Financial Expert); Mr.Santosh Biswa (Contract Management Specialist)	Preparation of Preliminary Financial Analysis for Concept Design Report and Preparation of Preliminary Social Assessment Report for CP1

SI. No.	Key activity / significant task carried out	List of PMC team members	Working on Delivery
8	 Preparation of Monthly Progress Report (MPR 06) for July 2020 	Dr.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr.Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.R.Senthil (Civil Engineer)	MPR 06 (10 copies) submitted on 10.08.2020
9	 Review of available Data / Drawings for CP4 components 	Mr.Siddappaswamy (Sr.Civil Engineer); Mr.Shane Farquharson (Water Supply Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.R.Senthil (Civil Engineer)	Preparation of preliminary base work for CP4
10	 Discussion with AEE (Desal) CMWSSB officials on 20.08.2020 for the clarification on the Draft Concept Design Report for CP1. 	Mr.S.M.Karthikaeswaran (Environmental Specialist)	Discussion on Concept Design Report for CP1
11	 Coordination with survey agency for carrying out the Topographical (Grid) Survey at Perur DSP for CP1. 	Dr.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr.Civil Engineer); Mr.S.Srinivasa Rao (Project Coordinator); Mr.R.Senthil (Civil Engineer); Mr.S.M.Karthikaeswaran (Environmental Specialist); Mr.G.Murali (CAD Operator-1)	Carrying out the Topographical Survey at Perur DSP for CP1 from 19.08.2020 to 31.08.2020
12	 Coordination with survey agency for Bathymetry Survey work at Perur DSP for CP1. 	Dr.Dharmabalan (Project Manager, International Expert); Dr.Ghulam Mustafa (Desalination Expert); Mr.S.Srinivasa Rao (Project Coordinator); Mr.R.Senthil (Civil Engineer); Mr.S.M.Karthikaeswaran (Environmental Specialist); Mr.G.Murali (CAD Operator-1)	Carrying out the Bathymetry Survey work at Perur DSP for CP1 from 24.08.2020 to 28.08.2020
13	 Coordination with survey agency for Sea Water Sample Collection Work at Perur DSP for CP1 and Nemmeli existing DSP. 	Dr.Dharmabalan (Project Manager, International Expert); Dr.Ghulam Mustafa (Desalination Expert); Mr.S.Srinivasa Rao (Project Coordinator); Mr.R.Senthil (Civil Engineer) Mr.S.M.Karthikaeswaran (Environmental Specialist); Mr.G.Murali (CAD Operator-1)	Carrying out the Sea Water Sample Collection Work at Perur DSP for CP1 and Nemmeli existing DSP on 29.08.2020

Annexure 7 Team Deployment Schedule for Next months

Annexure 8 Organisation Chart

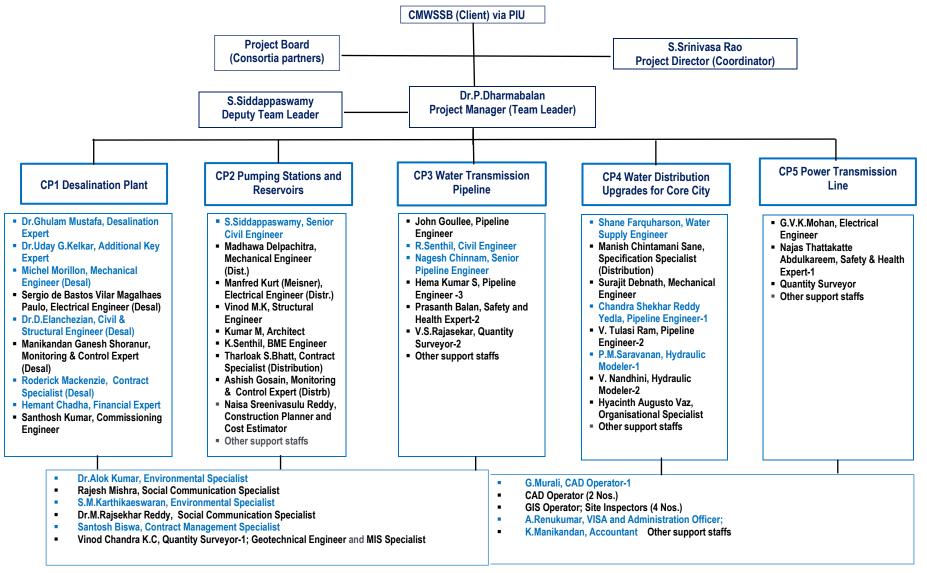


Figure 1: PMC Organisation Chart

The CHENNAI 400 MLD DESALINATION PLANT is a Project being delivered by the Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB) with the assistance of an Official Development Assistance (ODA) loan from the Japan International Cooperation Agency (JICA).

The Project Management Consultant (PMC) for the Chennai 400 MLD Desalination Plant project is a consortium led by SMEC International Pty Ltd in partnership with Tata Consulting Engineers Limited (TCE), NJS Engineers India Pvt Ltd (NJSEI) and SMEC India Pvt Ltd.









