



CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD (CMWSSB)





MPR (09) / (October 2020)

PMC for Chennai Perur 400 MLD Desalination Plant and Allied Works

Reference No.: Loan ID-P267

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10 November 2020

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1 EXECUTIVE SUMMARY

This Monthly Progress Report for October 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 October 2020

Component	Key Message
PMC (Consulting) Services	 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 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 Bathymetry Survey fieldwork at Perur 400 MLD DSP has been completed on 28.08.2020. Sea Water Sample collection work has been carried out at proposed 400MLD DSP at Perur and existing Nemmeli 100 DSP on 29.08.2020 Brine Diffusion Modelling Study has been carried out in September 2020 Response to JICA 3rd comments and Revised Prequalification documents (RFQ) for CP1 on DBO basis submi

Component	Key Message
Component	M (II D D (MADD 07) (A (10000 1 111 1
	10.09.2020
	 Draft Environmental Impact Assessment (EIA) Review Report for CP1 and its Pumping Station (CP2-1) (Rev-1) submitted on 23.09.2020
	 Revised Pregualification document (RFQ) for CP1 on DBO basis as per JICA
	4th comments submitted to CMWSSB on 23.09.2020
	Topographical Survey drawing for Perur DSP site for CP1 components submitted to CMWSSB on 29.09.2020
	 JICA has given the concurrence for Prequalification document (RFQ) for CP1 on DBO basis to CMWSSB on 30.09.2020
	 Topographical Survey Drawings for Proposed UGT and Pumping Station (CP2-2) at Porur new WDS submitted on 09.10.2020
	 Monthly Progress Report (MPR 08) for September 2020 submitted on 09.10.2020
	 Final Prequalification document (RFQ) for CP1 on DBO basis submitted to CMWSSB on 12.10.2020
	 Notice Inviting Application (NIT for RfQ) for Prequalification documents for CP1 was published in the website and published in Newspaper on 14.10.2020.
	 Quarterly Progress Report (QPR 03) for July to September 2020 submitted on 15.10.2020
	 Prequalification (PQ) Application meeting for CP1 components on DBO basis held at CMWSSB on 29.10.2020
	 Monthly Progressive expenditure (at actuals, i.e. based on bills passed till
	the end of October 2020) =1,49,29,783 (INR) and 409,290 (USD)
	• For SMEC India Pvt. Ltd., the Mobilisation advance payment in INR (5% of
	Contract value) received on 19.05.2020 as against Advance Bank Guarantee.
	 For SMEC International Pty Ltd, the Mobilisation advance payment in USD (5% of Contract value) received on 17.09.2020 as against Advance Bank Guarantee.
	 For TATA Consulting Engineers Ltd, the Mobilisation advance payment in INR (5% of Contract value) received on 22.10.2020 as against Advance Bank Guarantee.
	 Monthly Progressive expenditure (Projected based on man-month consumed till the end of October 2020) = 2,67,57,342 (INR) and 732,772 (USD)
	Activities generally progressing on schedule
	An accelerated program being followed for CP1, which brings forward the issue of the REP to market by 4 to 5 months.
	issue of the RFP to market by 4 to 5 months
	• The emerging COVID-19 virus outbreak is being monitored, and CMWSSB is to be informed of any impact on the mobilisation of PMC personnel. Due to the COVID-19 issues pandemic across the globe, the Government of Tamil Nadu announced and extended the partial 9 th lockdown period from 01.10.2020 to 31.10.2020 throughout Tamil Nadu.
	No Project site work has been commenced
Project (the Works)	Progressive expenditure = Nil
	No activities scheduled to commence as of end October 2020
	140 dottvittos soriodation to continionos as di cha October 2020

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

- 1. 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.
- 3. 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.
- 6. 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. 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 9th lockdown period from 01.10.2020 to 31.10.2020 throughout Tamil Nadu.
- 8. 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 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
HR & CE Board	Hindu Religious & Charitable Endowment Board
INR	Indian Rupees
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
USD	United States Dollar
WDS	Water Distribution Station
WDZ	Water Distribution Zone

3 INTRODUCTION

3.1 This Progress Report

This is the ninth (9th) monthly progress report and covers activities of the Project Management Consultant (PMC services) and the Project (the Works) during **October 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.

- 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 (Rev-1), 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, Quarterly Progress Reports, Monthly Progress Reports for the Project.

4 PROGRESS REPORT FOR PMC SERVICES

4.1 Achieved Activities - October 2020

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

Table 3: Achieved Activities - October 2020

Package	Achieved Activities – October 2020 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 07.09.2020 		
	 Topographical Survey drawing for Perur DSP site for CP1 components submitted to CMWSSB on 29.09.2020 		
	 Carried out the Bathymetry Survey fieldwork at Perur DSP site from 24.08.2020 to 28.08.2020 		
	 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 		
CP1	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). 		
	 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.		
	Online MS Teams meeting Video conference call and discussion with Chief Finalise of (Project III) and SF (Page) CMM/SSP afficials on 42,00,2020 for the		
	Engineer (Project-III) and SE (Desal) CMWSSB officials on 18.09.2020 for the progress of the consultancy work and technical discussion for CP1 to CP4		
	components.		
	Task 5: Submission of Concept Design Report:		

Package	Achieved Activities
	 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/clarification on the Draft Concept Design Report for CP1 submitted to CMWSSB on 05.08.2020 and 12.08.2020
	Task 6: Preparation of Technical Specifications: • Preparation of Technical Specifications
	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 2 nd comments and Revised Prequalification documents (RFQ)
	for CP1 on DBO basis submitted to CMWSSB on 17.08.2020. After review, CMWSSB has sent the RFQ to JICA for concurrence. 3rd comments received from JICA on PQ documents on 05.09.2020. Responses to JICA 3rd comments and Revised Prequalification documents (RFQ)
	for CP1 on DBO basis submitted to CMWSSB on 08.09.2020. After review, CMWSSB has sent the RFQ to JICA for obtaining the concurrence. 4th
	 comments received from JICA on PQ documents on 23.09.2020. Revised Prequalification document (RFQ) for CP1 on DBO basis as per JICA 4th comments submitted to CMWSSB on 23.09.2020.
	After review, JICA has given final concurrence to CMWSSB regarding the Revised Prequalification document (RFQ) for CP1 on DBO basis on 30.09.2020. • Final Prequalification document (RFQ) for CP1 on DBO basis submitted to CMWSSB on 12.10.2020
	 Notice Inviting Application (NIT for RfQ) for Prequalification documents for CP1 was published in the website and published in Newspaper on 14.10.2020. Prequalification (PQ) Application meeting for CP1 components on DBO basis held at
	CMWSSB on 29.10.2020 Task 1: Data and information collection commenced (JICA documents, DPRs, Master Plan)
CP2	Task 2: Review of technical information commenced (checking of the hydraulic design of the transmission system based on the available data) - 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.

Package	Achieved Activities					
	Task 3: Conducting Surveys and Investigations					
	 Carried out the Topographical Surveys at Porur new Water Distribution Station in October 2020 					
	 Topographical Survey drawings for Proposed Underground Tank (UGT) and Pump House at Porur new Water Distribution Station submitted on 09.09.2020 					
CP3	No significant activities have been carried out during this period					
CP4	 Task 1: Reconnaissance Survey, Data and information collection commenced (JICA documents, Master Plan- Area X and XIII on top priority for wold banking funding purpose Visit to CMWSSB office to collect the CP-4 GIS data and meeting with P&D wing AEE and discussion with EE & AEEs (desal). Visit Area X office - T Nagar, discussions with area engineer (EE) and AEEs to discuss regarding the availability of Zone X distribution drawings Visit to KK Nagar Headworks- Area X. Discussions with depo engineers of 131 & 137 for distribution network details Site Visit to Zone X and Data collection: Wards 128, 129, 131, 132, 137, 138, 139 to 140, 142) Digitalization of pipeline inventory data collected for wards128, 132, 137 and 139 Task 2: Review and Analysis of Data Review of salient details and existing water distribution network drawings collected for CP4 components and identification of gaps in the available data 					
CP5	No activities have been carried out during this period					
<u> </u>	Monthly Progress Report (MPR 08) for September 2020 submitted on 09.09.2020					
	Draft Environmental Impact Assessment (EIA) Review Report for CP1 components submitted to CMWSSB on 26.05.2020					
General	 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 components. Action Taken Report/clarification on the Draft Environmental Impact Assessment (EIA) Review Report for CP1 submitted to CMWSSB on 12.08.2020 Draft Environmental Impact Assessment (EIA) Review Report for CP1 and CP2-1 components (Rev-1) submitted to CMWSSB on 23.09.2020 Environmental and Social support activities commenced including documentation review and approvals planning 					
	approvate planning					

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

4.2 Deliverables Status in October 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		
1	Inception Report	Observations on Inception Report received from 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			
	2.1 Conceptual Design Report	Interim report for development of Concept Designs for Perur 400 MLD Desalination Plant for CP1 submitted on 23.04.2020		

Concept Design Repo	equency / Status **
	tion Plant for CP1
submitted on 10.07.20	
	for CP1 components
submitted on 24.02.20	
	t for CP1 components
have been submitt	
06.03.2020 for client	
JICA for Concurrenc tender	e for floating of the
	ed from JICA on PQ
documents on 05.06.2	
Responses to JICA co	
	ument (RFQ) have
	WSSB on 24.06.2020
	ed from JICA on PQ
documents on 13.08.2	2020.
Responses to JICA	2 nd comments and
· ·	tion document (RFQ)
on DBO basis have	
CMWSSB on 17.08.20	
	ed from JICA on PQ
document on 05.09.20	
/ / PU DOCIMENT	3 rd comments and tion document (RFQ)
on DBO basis have	
CMWSSB on 08.09.20	
4 th comments have	been received from
JICA on PQ documen	ts on 23.09.2020.
Revised Prequalificat	tion document (RFQ)
	mments have been
submitted to CMWSS	
	he concurrence for
Prequalification docuion DBO basis to CMV	` '
	document (RFQ) for
CP1 on DBO basis ha	` ,
CMWSSB on 12.10.20	
Notice Inviting Applica	
Prequalification docum	
published in the webs	ite and published in
Newspaper on 14.10.2	
Prequalification (PQ)	
for CP1 components of the comp	
CMWSSB on 29.10.20	
2.3 PQ Evaluation Report December 2020 (July	
2.4 Bid (RFP) Document February 2021 (Septe	
2.5 Bid Evaluation Report (Technical) June 2021 (October 2 2.6 Bid Evaluation Report (Financial) August 2021 (December 2)	
3 For Design and Tender Assistance for CP2	UGI ZUZUJ
Review note on	Product Water
	m Perur DSP to Porur
J 1 3 1	onents submitted on

SI.No.	Report / Document	Tentative Date / Frequency / Status **
		02.07.2020 (soft copy) and 15.07.2020
		(hard copies)
		June 2021 (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)	February 2022
4	For Design and Tender Assistance for CP4	
	4.1 Detailed Design Report and Drawings	April 2022 (December 2021)
	4.2 Bid Document(s)	June 2022 (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	Within 1 month after submission of the Contractor's design report
	5.2 Quality and Quantity Control Report	Every Month
	5.3 Final Inspection Report	At Appropriate timing
6	For Construction Supervision of CP 2	
	6.1 Quality and Quantity Control Report	Every Month
	6.2 Final Inspection Report	At Appropriate timing
7	For Construction Supervision of CP 3-1 to CP 3-4	
	7.1 Quality and Quantity Control Report	Every Month
	7.2 Final Inspection Report (CP 3-1, CP 3-2)	At Appropriate timing
	7.3 Final Inspection Report (CP 3-3, CP 3-4)	At Appropriate timing
8	For Construction Supervision of CP 4	
	8.1 Quality and Quantity Control Report	Every Month
	8.2 Final Inspection Report	At Appropriate timing
9	Environmental and Social Safeguard	
	9.1 EIA Review Report for CP 1	Draft Environmental Impact Assessment (EIA) Review Report for CP1 component submitted to CMWSSB on 26.05.2020 Draft Environmental Impact Assessment (EIA) Review Report for CP1 and CP-2 components (Rev-1) have been submitted to CMWSSB on 23.09.2020
	9.2 Environmental Monitoring Report	Every Month
10	Progress Report and Project Completion Report	
	10.1 Monthly Progress Report (MPR)	 MPR 01 for Jan' & Feb'2020 (2 copies) submitted on 10.03.2020 for review Observations on MPR 01 received from CMWSSB on 31.03.2020 Revised MPR 01 for Jan' & Feb'2020 (soft copy) submitted on 14.04.2020 Revised MPR 01 for Jan' & Feb'2020 (10 copies) submitted on 26.05.2020 MPR 02 for March 2020 (10 copies) submitted on 26.05.2020 MPR 03 for April 2020 (10 copies) submitted on 22.05.2020

SI.No.	Report / Document	Tentative Date / Frequency / Status **
		 MPR 04 for May 2020 (soft copy) submitted on 10.06.2020 and 10 copies submitted on 11.06.2020
		 MPR 05 for June 2020 (soft copy) submitted on 10.07.2020 MPR 05 for June 2020 (10 copies) submitted on 13.07.2020
		 MPR 06 for July 2020 (10 copies) submitted on 10.08.2020
		 MPR 07 for August 2020 (10 copies) submitted on 10.09.2020
		 MPR 08 for September 2020 (10 copies) submitted on 09.10.2020
	10.2 Quarterly Progress Report (QPR)	 QPR 01 for Jan' to March 2020 (soft copy) submitted on 24.04.2020 QPR 01 for Jan' to March 2020 (10 copies) submitted on 26.05.2020 QPR 02 for Apr' to June 2020 (10 copies)
	10.2 Samuely 1.15g. 200 Hopole (Q. 11)	submitted on 15.07.2020 Quarterly Progress Report (QPR 03) for July to September 2020 submitted on 15.10.2020
	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 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.

During the Online MS Teams meeting held on 18.09.2020, Project Manager indicated that due to COVID-19, some of the activities have been slipped out of the target date and requested CMWSSB to indicated the new target dates if they have anything in their consideration. CMWSSB advised submitting the revised Schedule for review and consideration. PMC revised the Annexure 3 – Overall Work Schedule and submitted on 28 September 2020 to CMWSSB for review and consideration.

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

4.3 Actual Progress versus Planned Progress – Upto October 2020

The Actual progress during the month up to October 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	
	Device discounting Devices	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
8	Interim report for the development of Concept Designs for Chennai Perur 400 MLD Desalination Plant for CP1 components	23.04.2020	23.04.2020 26.05.2020	soft copy submitted 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.

SI.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
	20111010010	20.04.2020	26.05.2020	Hard copies submitted
	Monthly Progress Report	10.06.2020	10.06.2020	riara copies submittea
12	(MPR 04) for May 2020	10.06.2020	11.06.2020	Hard copies submitted
	(IVIF IX 04) 101 IVIAY 2020	10.00.2020	11.00.2020	Responses to JICA 1st comments
13	Revised PQ document for CP1	24.06.2020	24.06.2020	and Revised Prequalification document (RFQ) for CP1 on DBO basis submitted to CMWSSB (Hard copies submitted)
14	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 document (RFQ) for CP1 on DBO basis submitted to CMWSSB (Hard copy submitted)
20	Revised PQ document for CP1	08.09.2020	08.09.2020	Responses to JICA 3 rd comments and Revised Prequalification document (RFQ) for CP1 on DBO basis submitted to CMWSSB (Hard copies submitted)
21	Monthly Progress Report (MPR 07) for August 2020	10.09.2020	10.09.2020	Hard copies submitted
22	Draft Environmental Impact Assessment (EIA) Review Report for CP1 and CP-2 components (Rev-1)	23.09.2020	23.09.2020	Hard copies submitted

SI.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
23	Revised PQ document for CP1	23.09.2020	23.09.2020	Revised Prequalification document (RFQ) for CP1 on DBO basis as per JICA 4 th comments submitted to CMWSSB (Hard copies submitted)
24	Topographical Survey Drawings for Proposed UGT and Pumping Station (CP2-2) at Porur new WDS	09.10.2020	09.10.2020	Hard copy submitted
25	Monthly Progress Report (MPR 08) for September 2020	09.10.2020	09.10.2020	Hard copies submitted
26	Final Prequalification document (RFQ) for CP1 on DBO basis	12.10.2020	12.10.2020	Hard copies submitted
27	Notice Inviting Application (NIT for RfQ) for Prequalification documents for CP1 was published in the website and published in Newspaper	14.10.2020	14.10.2020	Published by CMWSSB
28	Quarterly Progress Report (QPR 03) for July to September 2020	15.10.2020	15.10.2020	Hard copies submitted
29	Prequalification (PQ) Application meeting for CP1 components on DBO basis held at CMWSSB	29.10.2020	29.10.2020	

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 October 2020

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

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

Month	Monthly	Cumulative	% of Total
Month	Expenditure	Expenditure	Contract Value
January 2020 to	INR 1,49,29,783	INR 1,49,29,783	2.59%
June 2020 *	USD 409,290	USD 409,290	4.35%
July 2020	INR 0	INR 1,49,29,783	2.59%
July 2020	USD 0	USD 409,290	4.35%
August 2020	INR 0	INR 1,49,29,783	2.59%
/ lugust 2020	USD 0	USD 409,290	4.35%
September	INR 0	INR 1,49,29,783	2.59%
2020**	USD 0	USD 409,290	4.35%
October 2020 ***	INR 0	INR 1,49,29,783	2.59%
2010501 2020	USD 0	USD 409,290	4.35%

^{*} For SMEC India Pvt. Ltd., the Mobilisation advance payment (5% of Contract value) has been 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 October 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 October 2020

Month	Monthly	Cumulative	% of Total
WOILII	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%
February 2020	INR 25,81,997	INR 36,59,833	0.62%
1 Columny 2020	USD 112,801	USD 168,899	1.79%
March 2020	INR 38,31,393	INR 74,91,226	1.30%
IVIGIOIT ZUZU	USD 56,261	USD 225,159	2.39%
April 2020	INR 22,26,340	INR 97,17,566	1.69%

^{**} For SMEC International Pty Ltd, the Mobilisation advance payment (5% of Contract value) has been received on 17.09.2020 as against Advance Bank Guarantee.

^{***} For TATA Consulting Engineers Ltd, the Mobilisation advance payment in INR (5% of Contract value) have been received on 22.10.2020 as against Advance Bank Guarantee.

Month	Monthly	Cumulative	% of Total	
	Expenditure	Expenditure	Contract Value	
	USD 90,351	USD 315,518	3.35%	
May 2020	INR 23,29,743	INR 1,20,47,309	2.09%	
Widy 2020	USD 60,913	USD 376,431	4.00%	
June 2020	INR 42,21,118	INR 1,62,68,427	2.83%	
Julie 2020	USD 88,100	USD 464,532	4.94%	
July 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%	
September	INR 24,19,135	INR 2,25,03,011	3.91%	
2020	USD 66,287	USD 661,889	7.03%	
October 2020	INR 42,54,331	INR 2,67,57,342	4.65%	
0000061 2020	USD 70,882	USD 732,772	7.79%	

4.5 Staffing Inputs –October 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 October 2020 end)	Balance man- months available (November 2020 onwards)
Project Manager (Team Leader)	Dr P.Dharma Dharmabalan	I	14.02.2020	26.02.2020	07.04.2020	70	4.53	65.47
Desalination Expert	Dr.Ghulam Mustafa	I	10.02.2020	22.02.2020	01.04.2020	29.50	6.13	23.37
Additional Key Expert – International	Dr.Uday G.Kelkar	I	01.06.2020			2.50	0.69	1.81
Water Supply Engineer	Mr.Shane Farquharson	I	20.01.2020	20.03.2020		23	2.04	20.96
Mechanical Engineer (Desal)	Mr.Michel Morillon	ı	20.01.2020	08.02.2020	23.02.2020	15	4.22	10.78
Wechanical Engineer (Desai)	IVII.IVIICITEI IVIOTIIIOTI	I	20.01.2020	15.03.2020	01.04.2020	10	4.22	10.76
Contract Specialist (Desal) - International	Mr.Abdel Fattah Toukan (Replaced from 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	15.10.2020	42	2.90	39.10
Financial Expert	Mr Hemant Chadha	I	22.06.2020			3	0.82	2.18
Civil Engineer	Mr.Ramesh Senthil	N	20.01.2020			72	8.80	63.20
Senior Civil Engineer	Mr.S.Siddappaswamy	N	27.01.2020	22.02.2020	01.04.2020	72	4.549	67.451
Senior Pipeline Engineer	Mr.Nagesh Chinnam	N	04.02.2020			72	4.818	67.182
Environmental Specialist - International	Dr.Alok Kumar	I	24.02.2020	07.03.2020	25.04.2020	15	1.362	13.638
Environmental Specialist - National	Mr.S.M.Karthikaeswaran	N	25.02.2020			30	7.179	22.821
Social Communication Specialist - International	Mr.Rajesh Mishra	I	05.10.2020			16	0.68	15.32
Social Communication Specialist – National	Mrs.R.Kanmani (Replaced from Dr.Rajshekar Reddy)	N	21.09.2020			72	1.31	70.69

Position / Role	Name of the staff	Category	Commenced Date	De- mobilisation date	Remobilisation date	Total months allocated	Total months mobilised so far (till October 2020 end)	Balance man- months available (November 2020 onwards)
Pipeline Engineer-1	Mr.Rahul N Ramdhan (Replaced from Mr.Chandra Shekhar Reddy Yedla)	N	25.02.2020 23.09.2020	05.03.2020		60	1.59	58.41
Pipeline Engineer-2	Mr.P.Thangavel (Replaced from Mr.V.Tulasi Ram)	N	15.10.2020			60	0.55	59.45
Hydraulic Modeller-1	Mr.P.M.Saravanan	N	25.02.2020	27.02.2020		8	0.09	7.91
Contract Management Specialist	Mr.Santosh Biswa	N	02.03.2020			6	2.89	3.19
Quantity Surveyor-1	Mr.R.Muthurajan (Replaced from Mr.K.C.Vinod Chandra)	N	21.10.2020			50	0.36	49.64
Quantity Surveyor-2	Mr.V.S.Rajasekar	N	21.09.2020	21.09.2020		70	1.088	68.912
CAD Operator-1	Mr.G.Murali	N	25.02.2020	24.03.2020	01.05.2020	30	6.67	23.33
GIS Operator	Mr.Suresh Mohan Dwivedi	N	07.10.2020	24.10.2020		18	0.59	17.41
Secretary	Mr.B.Ajithkumar	N	29.10.2020			70	0.09	69.91
Visa and Admin Officer	Mr.A.Renu Kumar	N	20.01.2020			70	8.89	61.11
Accountant	Mr.K.Manikandan	N	09.03.2020			70	7.53	62.47
Office Keeper-1	Mr.Pilominraj Raja (Replaced from Mr.R.Jagan)	N	03.02.2020			70	8.81	61.19
Office Keeper-2	Mr.Thiruvengadam Someswaran (Replaced from Mr.G.Arjun)	N	03.02.2020			70	8.81	61.19

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 9th extended partial 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 November 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 September '2020	Number of Days of Claim in October 2020	Cumulative Number of Days of Claim up to October 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
-	Pvt. Ltd.	National	50	50	0	20	20	30
3	SMEC International Pty. Ltd.	Ltd. (Internation	Per-diem allowance in INR for the Key International Experts will be claimed by SMEC India Pvt. Ltd. (International Category) Per-diem allowance in INR for the Non-Key International Experts will be claimed by SMEC India Pvt. Ltd. (National Category)					
4	TATA Consulting Engineers Ltd.	Not applicable. Hence no claim will be made for the entire project duration						
	TOTAL		2,300	2,300	150	20	170	2,130

4.5.3 Summary of Personnel Inputs for the Period

A summary of personnel inputs for the period (October 2020) is included in **Annexure 6.**Planned mobilisation of PMC personnel for the next three (3) month period (up to January 2021) 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 October 2020, there are some changes to the PMC's nominated 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.

CMWSSB has provided the approval for the replacement of the following staffs during September 2020 as listed below:

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

As per CMWSSB letter dated 10.09.2020, it is informed that above experts under International and Local Expert category, i.e. Non-Key Experts (SI.No.2 to 9) have been considered and approved for replacement.

As per CMWSSB letter dated 16.09.2020, it is informed that the above expert under International Key Expert category (SI.No.1) has been considered and approved for replacement.

CMWSSB has provided the approval for the replacement of the following staffs during October 2020 as listed below:

SI.	Position	Original Staff as per	Proposed Staff
No.		Contract Agreement	for replacement
	KEY - INTERNATIONAL		

1	Contract Specialist (Desal) - International	Mr.Roderick Mackenzie	Mr.Abdel Fattah
			Toukan
	NON KEY – NATIONAL / LOCAL EXPERT		
2	Architect	Mr.M.Kumar	Mrs.Kirti Alhad
			Sadarjoshi

As per CMWSSB letter dated 24.10.2020, it is informed that above experts under International and Local Expert category have been considered and approved for replacement.

4.6 Meetings and Site Visits – October 2020

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

Table 10: Meetings and Site Visits (October 2020)

Date	Meeting	Location	Attendees
01.10.2020	Joint site visit with AEE (Desal) CMWSSB official and coordination with survey agency for carrying out the Topographical Survey for proposed Underground Tank (UGT) and Pumping station at Porur new WDS site on 01.09.2020	Site Visit at Porur new WDS	PMC member & CMWSSB official
05.10.2020	Visit to Porur WDS location to collect the tranissmission network details of incoming and outgoing .	Porur WDS	PMC member & CMWSSB area Engineers
06.10.2020, 07.10.2020 & 08.10.2020	Visit to Porur WDS & Old Velachery WDS location to collect the tranissmission network details and distribution station details	Porur WDS & Old velachery WDS	PMC team & CMWSSB area officials
06.10.2020	Online Microsoft Teams Meeting with Chief Development Operations (JICA), CMWSSB officials and PMC team for a discussion on the Draft Concept Design Report for CP1 on DBO basis.	Online Microsoft Teams Meeting Video Conference Call	PMC team members, JICA & CMWSSB officials
09.10.2020	Visit to CMWSSB office to collect the CP-4 GIS data and meeting with P&D wing AEE and discussion with EE & AEEs (desal)	CMWSSB	PMC team & CMWSSB
15.10.2020	Visit to Area X office T Nagar. Discussions with EE, AEE and depot engineers for distribution network details collection	Area X -T Nagar CMWSSB office	PMC team & CMWSSB area engineers
16.10.2020	Visit to KK Nagar Headworks- Area X. Discussions with depo engineers of 131 & 137 for distribution network details	KK Nagar Head works	PMC team & CMWSSB area engineers
19.10.2020	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the	Online Microsoft Teams Meeting	PMC team members

Date	Meeting	Location	Attendees	
	issues/ concerns for the specific tasks allocated / working deliverables/activities, project status on finalisation of Concept Design Report, Preparation of Request For Proposal (RFP) and Draft Social Impact Assessment Review Report for CP1 components	Video Conference Call		
19.10.2020	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the issues/ concerns for the specific tasks allocated / working deliverables/activities, project status for CP2 and CP4 components	Online Microsoft Teams Meeting Video Conference Call	PMC team members	
20.10.2020	Visit to Depots 138 and 139 to collect the depot distribution network details	Ward office 138 & 139	PMC team &	
21.10.2020	Visit to Depots 137 and 128 to collect the depot distribution network details	Ward office 137 & 128	PMC team & CMWSSB area engineer	
22.10.2020	Visit to Depots 140,131 and 142 to collect the depot distribution network details	Ward office 131, 140 & 142		
23.10.2020	Meeting on CP3 with AE Com in CMWSSB office and discussion with EE, AEE and AE on CP-4 data shortage and resources working on CP-4	CMWSSB	PMC team members & CMWSSB officials	
27.10.2020	Visit to Depots 132 to collect the depot distribution network details	Ward office 132	PMC team & CMWSSB area engineer	
27.10.2020	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the preparation of Draft Request For Proposal (RFP) for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members	
27.10.2020	Meeting with Managing Director, Executive Director of CMWSSB officials for a discussion on timeline review for the procurement process for RFQ and RFP stage of CP1 components on DBO basis	CMWSSB	PMC team members & CMWSSB officials	
28.10.2020	Meeting with Additional Chief Secretary / Finance Secretary, GoTN and CMWSSB officials for a discussion on timeline review for the procurement process for RFQ and RFP stage of CP1 components on DBO basis	Meeting at Secretariat, GoTN	PMC team members, Additional Chief Secretary / Finance Secretary, GoTN & CMWSSB officials	
28.10.2020	Visit to Depots 129 to collect the depot distribution network details	Ward office 129	PMC team & CMWSSB	

Date	Meeting	Location	Attendees
			area engineer
29.10.2020	Online Webex meeting conducted by CMWSSB for Prequalification (PQ) Application Meeting for CP1 components on 29.10.2020	Online Webex Meeting Video Conference Call	PMC team member, Likely PQ Applicants & CMWSSB officials
30.10.2020	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the reply to Pre-bid queries for Prequalification (PQ) Application for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
31.10.2020	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the reply to Pre-bid queries for Prequalification (PQ) Application for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members & CMWSSB officials

• The regular meetings/technical discussions have been conducted by PMC teams on the preparation of Concept Design Report including Instrumentation and Control Works including plant operation control system, Instrumentation Plan, Capital Cost Comparison DPR, JICA, PMC. Preparation of Operation & Maintenance Cost, Minimum Functioning Specifications. Discussion on the responses for JICA 4th comments and submission of Final Prequalification (PQ) documents for CP1 components on DBO basis. Discussion on the Preliminary Social Assessment Review Report. Submission of Monthly Progress Report (MPR 08) for September 2020, Quarterly Progress Report (QPR 03) for July to September 2020 etc. Also, regular interactions, discussions held with CMWSSB officials and other Project aspects until October 2020. Where formal minutes have not been recorded, these meetings are not listed in the above.

4.7 Health & Safety -October 2020

There are no health and safety incidents to report for October 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 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	03.10.2020	02.10.2021
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	03.10.2020	02.10.2021

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 3 nos. of Key Expert (International), 1 no. of Non-Key Expert (International) and 8 nos. of Non-Key National / Local Expert (Non-evaluation position) vide our correspondence letters communicated to CMWSSB, we requested CMWSSB to provide approval kindly.

SI.	Position	Original Staff as per	Proposed Staff	Status
No.		Contract Agreement	for replacement	
	KEY - INTERNATIONAL			
1	Electrical Engineer	Mr.Sergio de Bastos Vilar	Mr.Gilbert	Approved
	(International)	Magalhaes Paulo	Z.Gonzales	
2	Pipeline Engineer	Mr.John Goullee	Mr.Balvinder Singh	Not Approved
	(International)		Bahra	
3	Contract Specialist (Desal) -	Mr.Roderick Mackenzie	Mr.Abdel Fattah	Approved
	International		Toukan	
	NON KEY			
	INTERNATIONAL			
4	Monitoring & Control Expert	Mr.Manikandan Ganesh	Mr.Afzal Abdul	Approved
	(Desal)	Shoranur	Latheef	
	NON KEY – NATIONAL /			
	LOCAL EXPERT			
5	Mechanical Engineer	Mr.Surajit Debnath	Mr.Mayur Gupta	Approved
6	Electrical Engineer	Mr.G.V.K Mohan	Mr.Om Prakash	Approved
			Singh	
7	Structural Engineer	Mr.M.K.Vinod	Ms.J.Sudha	Approved
8	Architect	Mr.M.Kumar	Mrs.Kirti Alhad	Approved
			Sadarjoshi	
9	Pipeline Engineer - 1	Mr.Chandra Shekhar	Mr.Rahul N	Approved
		Reddy Yedla	Ramdhan	
10	Pipeline Engineer – 2	Mr.V.Tulasi Ram	Mr.P.Thangavel	Approved
11	Social Communication	Dr.M.Rajsekhar Reddy	Mrs.R.Kanmani	Approved
	Specialist			
12	Quantity Surveyor-1	Mr.Vinod Chandra K.C	Mr.R.Muthurajan	Approved

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

SI.	Details of Correspondence letter	Letter Correspondence	Date of
No.	·	reference number, date	submission / received
1	Replacement of Contract Specialist (Desal) (Key International Expert No.9 / Evaluation position)	Ref: SMEC/CMWSSB/5061185/163, Dt: 19.09.2020	01.10.2020
2	JICA Mission meeting on 06.10.2020 for Chennai Seawater Desalination Plant Project - Package CP-01	Soft copy sent by email to JICA & CMWSSB on 02.10.2020	02.10.2020
3	Mobilisation of Mr.Rahul N Ramdhan, Pipeline Engineer-1 (Non-Key/Local Expert)	Ref: SMEC/CMWSSB/5061185/174, Dt: 23.09.2020	05.10.2020
4	Mobilisation of Mr.Rajesh Mishra, Social Communication Specialist (Non-key International Expert)	Ref: SMEC/CMWSSB/5061185/175, Dt: 05.10.2020	05.10.2020
5	Mobilisation of Mr.Suresh Mohan Dwivedi, GIS operator (Support Staff)	Ref: SMEC/CMWSSB/5061185/176, Dt: 07.10.2020	07.10.2020
6	Replacement of Specification Specialist (Desal) (Non-Key International Expert No.12 / Non-Evaluation position)	Ref: SMEC/CMWSSB/5061185/158, Dt: 08.10.2020	08.10.2020
7	Submission of Topographical Survey Drawings for Proposed UGT & Pumping Station at Porur WDS	Ref: SMEC/CMWSSB/5061185/176, Dt: 09.10.2020	09.10.2020
8	Submission of Draft notice inviting Application for Prequalification for CP1	Ref: SMEC/CMWSSB/5061185/177, Dt: 09.10.2020	09.10.2020
9	Submission of MPR-08 for September 2020 (10 copies)	Ref: SMEC/CMWSSB/5061185/178, Dt: 09.10.2020	09.10.2020
10	Submission of TCE's Renewed Professional Indemnity & General Liability Policies	Ref: SMEC/CMWSSB/5061185/180, Dt: 12.10.2020	12.10.2020
11	Submission of Final Prequalification document for CP1 on DBO Basis	Ref: SMEC/CMWSSB/5061185/182, Dt: 12.10.2020	12.10.2020
12	Request for Removal of word "Act" in the Prequalification document for CP1	Ref: SMEC/CMWSSB/5061185/183, Dt: 12.10.2020	12.10.2020
13	Affidavit for payment of TDS amount to CMWSSB account for M/s. TCE Ltd	Ref: SMEC/CMWSSB/5061185/181, Dt: 13.10.2020	13.10.2020
14	Submission of Sample Draft Letter to Embassy for Prequalification document for CD1	Ref: SMEC/CMWSSB/5061185/184, Dt: 14.10.2020	14.10.2020

SI.	Details of Correspondence letter	Letter Correspondence	Date of
No.	Details of correspondence letter	reference number, date	submission /
		,	received
15	Final PQ documents with tender number	Soft copy sent by email to CMWSSB	14.10.2020
	and without tender number for CP1	on 14.10.2020	
16	Topographical Survey drawings for Porur	Soft copy sent by email to CMWSSB	15.10.2020
47	new WDS site for CP2 components	on 15.10.2020	45.40.0000
17	Letter to Embassy and list of embassy address for CP1	Soft copy sent by email to CMWSSB	15.10.2020
18	Timeline with a tentative date for the	on 15.10.2020 Soft copy sent by email to CMWSSB	15.10.2020
10	procurement process for CP1	on 15.10.2020	15.10.2020
19	Mobilisation of Mr.Thangavel, Pipeline	Ref: SMEC/CMWSSB/5061185/186,	15.10.2020
	Engineer-2 (Non-Key/Local Expert)-reg	Dt: 15.10.2020	
20	Submission of Quarterly Progress report	Ref: SMEC/CMWSSB/5061185/187,	15.10.2020
	for July to September 2020 (10 copies)	Dt: 15.10.2020	
21	Submission of Original Affidavit for	Ref: SMEC/CMWSSB/5061185/185,	16.10.2020
	payment of TDS amount to IT department	Dt: 16.10.2020	
00	for SMEC India Pvt Ltd	D-F CMEC/CMM//CCD/F0C440F/400	10.10.0000
22	Reply Letter for Clarification on Replacement of Desal Specialist	Ref: SMEC/CMWSSB/5061185/188, Dt: 19.10.2020	19.10.2020
23	Mobilisation of Mr.R.Muthurajan, Quantity	Ref: SMEC/CMWSSB/5061185/193,	21.10.2020
20	Surveyor-1 (Non-Key/Local Expert)	Dt: 21.10.2020	21.10.2020
24	Request for allocation of Land for	Ref: SMEC/CMWSSB/5061185/194,	21.10.2020
	Proposed UGT and Pumping Station (CP2-	Dt: 21.10.2020	
	2) at Porur WDS		
25	Request for arranging for Webinar type	Soft copy sent by email to CMWSSB	21.10.2020
	presentation on pre-application meeting on	on 21.10.2020	
26	29.10.2020	Coft converse by small to CMM/CCD	21.10.2020
26	Responses to bidder queries for CP1	Soft copy sent by email to CMWSSB on 21.10.2020	21.10.2020
27	Req. for arranging a pre-qualification	Soft copy sent by email to CMWSSB	22.10.2020
	meeting on 29.10.2020 through	on 22.10.2020	2211012020
	online_Prequalification document for		
	400ML SWRO desalination plant at		
	PERUR	0.6	00.40.0000
28	Presentation slides for 28.10.2020 meeting	Soft copy sent by email to CMWSSB	26.10.2020
	with Additional Chief Secretary, MA&WS Department for Timeline review	on 26.10.2020	
29	Reply to pre-bid queries for CP1	Soft copy sent by email to CMWSSB	28.10.2020
		on 28.10.2020	25.10.2020
30	Draft Reply to Prebid Meeting for	Soft copy sent by email to CMWSSB	31.10.2020
	Prequalification Application for CP1	on 31.10.2020	
31	Mobilisation of Mr.Abdel Toukan [Contract	Ref: SMEC/CMWSSB/5061185/198,	31.10.2020
	Specialist (Desal) – Key International	Dt: 29.10.2020	
32	Expert]	Dof: CMEC/CMM/CCD/E06440E/400	31.10.2020
32	Mobilisation of Mr.B.Ajithkumar, Secretary (Support Staff)	Ref: SMEC/CMWSSB/5061185/199, Dt: 29.10.2020	31.10.2020
33	400MLD SWRO DSP - Monthly bills - July	Received by email from CMWSSB on	09.10.2020
	2020 & August 2020 - Returned	09.10.2020	00.10.2020
34	Bill for July 2020 & August 2020 Returned	Ref: CMWSSB/SE(Desal)/400 MLD	09.10.2020
	- Clarification requested	Plant/PMC-024/2020, Dt: 09.10.2020	
35	Replacement of Expert Requested -Non-	Ref: CMWSSB/SE(Desal)/400 MLD	15.10.2020
	Key International Expert (Specification	Plant/PMC-025/2020, Dt: 15.10.2020	
	Specialist-Desal)		

SI.	Details of Correspondence letter	Letter Correspondence	Date of
No.	Details of Correspondence letter	reference number, date	submission /
		·	received
36	CP1 - Notice Inviting Application for PQ	Received by email from CMWSSB on 13.10.2020	16.10.2020
37	400MLD DSP - Replacement of Specification Specialist	Received by email from CMWSSB on 16.10.2020	16.10.2020
38	Details of Road Required for Distribution system in Core Chennai city	Ref: CMWSSB/SE(Desal)/400 MLD Plant/CP4/2020 dt 19.10.2020	19.10.2020
39	Discussion on Component CP3	Received by email from CMWSSB on 19.10.2020	19.10.2020
40	Pre-Application Queries - JFE Engineering	Received by email from CMWSSB on 19.10.2020	19.10.2020
41	400MLD - Additional Chief Secretary, MA&WS Department, GoTN - Review meeting	Received by email from CMWSSB on 21.10.2020	21.10.2020
42	Pre-Application Queries - MIE Consulting Services	Received by email from CMWSSB on 22.10.2020	22.10.2020
43	400 MLD - Estimate Operating Expenditure of Plant and pipeline	Received by email from CMWSSB on 22.10.2020	22.10.2020
44	400MLD - Component CP3 - data requirement by PMC (Meeting with AECOM)	Received by email from CMWSSB on 22.10.2020	22.10.2020
45	Pre- Bid Queries - L&T Construction	Received by email from CMWSSB on 23.10.2020	23.10.2020
46	Replacement of Key & Non-Key Experts Approval- Mr.Abdul Toukan & Mrs.Kirti Alhad Sadarjoshi	Ref: CMWSSB/SE(Desal)/400 MLD Plant/PMC-026/2020, Dt: 24.10.2020	24.10.2020
47	Webex meeting invitation: Prequalification Application Meeting will be held on 29-10- 2020 at IST 11:00 AM	Received by email from CMWSSB on 24.10.2020	24.10.2020
48	400MLD - M/s.NJS Engineers India Pvt Ltd - Bill in local currency - Details - Requested	Received by email from CMWSSB on 25.10.2020	25.10.2020
49	Queries for Prequalification Application meeting - IDE technologies	Received by email from CMWSSB on 27.10.2020	27.10.2020
50	Pre-Qualification Queries for M/s Megha Engineering and Infrastructure Limited, Hyderabad	Received by email from CMWSSB on 28.10.2020	28.10.2020
51	Pre Bid Queries for VAGAS AQUA P. Ltd	Received by email from CMWSSB on 28.10.2020	28.10.2020
52	Pre Bid Queries for M/s BHEL - Industry Sector, New Delhi	Received by email from CMWSSB on 28.10.2020	28.10.2020
53	Pre Bid Queries - M/s Suez India Pvt. Ltd, Haryana	Received by email from CMWSSB on 28.10.2020	28.10.2020
54	Prebid Clarifications : M/s.Adani Infra(India) Ltd.	Received by email from CMWSSB on 28.10.2020	28.10.2020
55	Pre-application queries (Set 1) - M/s.ABENGOA, India	Received by email from CMWSSB on 29.10.2020	29.10.2020
56	Pre Bid Queries - M/s. Hyflux Engineering (India) Private Limited, Pune	Received by email from CMWSSB on 29.10.2020	29.10.2020
57	Pre Bid Queries - M/s. Triveni Engineering & Industries Ltd, Uttar Pradesh	Received by email from CMWSSB on 29.10.2020	29.10.2020
58	Pre Bid Queries - M/s. VAGAS AQUA P. Ltd, NewDelhi	Received by email from CMWSSB on 29.10.2020	29.10.2020

SI. No.	Details of Correspondence letter	Letter Correspondence reference number, date	Date of submission / received
59	Pre Bid Queries - M/s.Aquatech Systems Asia Pvt Ltd.	Received by email from CMWSSB on 29.10.2020	29.10.2020
60	Pre Bid Queries - M/s.Suez International, India	Received by email from CMWSSB on 29.10.2020	29.10.2020
61	Pre Bid Queries - M/s.VA Tech Wabag Ltd, India	Received by email from CMWSSB on 29.10.2020	29.10.2020
62	Prebid queries-400 MLD Desal at Perur, Chennai (TPL queries)	Received by email from CMWSSB on 29.10.2020	29.10.2020
63	Pre Bid Queries - M/s. Fisia Italimpianti is	Received by email from CMWSSB on 29.10.2020	29.10.2020
64	Pre Bid Queries - M/s.VA Tech Wabag Ltd, India	Received by email from CMWSSB on 29.10.2020	29.10.2020
65	Pre Bid Queries - M/s. Metito overseas limited	Received by email from CMWSSB on 29.10.2020	29.10.2020
66	Prebid queries-400 MLD Desal at Perur, Chennai (TPL additional queries)	Received by email from CMWSSB on 29.10.2020	29.10.2020
67	Pre Bid Queries - M/s. Vishvaraj Environment Private Ltd,	Received by email from CMWSSB on 29.10.2020	29.10.2020
68	Prebid queries-400 MLD Desal at Perur, Chennai (TPL additional queries)	Received by email from CMWSSB on 30.10.2020	30.10.2020

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 November 2020 is provided in Table 13.

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

Contract	Activities (Planning for next months)		
Package	Task 3: Conducting Surveys and Investigations – Preparation of report on surveys and		
	investigations on the following:		
	 Submission of seawater quality testing and analysis report 		
	 Submission of Report on the topographical survey at Perur DSP (TANGEDCO) substation site 		
	 Submission of Report on the Bathymetry Survey 		
	 Submission of Brine Diffusion Modelling Study Report 		
	Task 5: Preparation & Submission of Concept Design Report		
	 Preparation and Submission of Final Concept Design Report including Financial Modelling and Operation & Maintenance Requirements 		
	Task 6 Preparation of Technical Specifications		
CP1	Task 7 Financial Analysis		
	Financial Modelling and AnalysisPreparation of Sensitivity Analysis		
	Preparation of Bid Parameters		
	Task 8 Preparation of O&M Requirements for Bid Document		
	Task 9: Request for Qualification (RFQ) – issue document to market (15.10.2020)		
	 Obtaining concurrence from JICA on Reply to Prequalification (PQ) Application meeting for CP1 components. 		
	 Issue of Reply to Prequalification (PQ) Application meeting to the Applicants in the website 		
	Task 10: Request for Proposal (RFP) – commence document preparation at the end of November 2020		
	 Preparation of Instruction to Bidders 		
	Preparation of Technical Specifications		
	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		
000	 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. 		
	 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		

Contract	Activities (Planning for next months)		
Package	· · · · · · · · · · · · · · · · · · ·		
	 Submission of the topographical survey drawing for Porur WDS 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 		
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) 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 October 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, CP2-1 and CP2-2 (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. Preparation of Preliminary Social Assessment Review Report for CP1 and CP2 components 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 package 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 October 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 –October 2020

There are no achieved activities (Works) to report.

6.2 Actual Progress versus Planned Progress -October 2020

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

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

6.3 Financial Progress in October 2020

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

6.4 Health & Safety -October 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 October 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 November 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 in

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 Work 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)	Note/ Fosition	Month
			(SM)
L/EV	EVECT		
	EXPERT Dr. D. Dharmahalan	Desirat Managar International Every	70
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	Mr.Gilbert Z Gonzales (Replaced from Sergio de Bastos Vilar Magalhaes Paulo)	Electrical Engineer (Desal)- International Expert	25
6	John Goullee	Pipeline Engineer-International Expert	70
7	Mr.Abdel Fattah Toukan (Replaced from Mr.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
	KEY EXPERT - INTERNATIONAL		- 10
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	Afzal Abdul Latheef (Replaced from 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 Organisational Expert	16 9
12	Hyacinth Augusto Vaz Sub Total	Отуанізаціонаї Ехрепі	133
NON	N KEY EXPERT - NATIONAL		100
13	Ramesh Senthil	Civil Engineer	72
		Civil Engineer	
14	Mr.Mayur Gupta (Replaced from Surajit Debnath)	Mechanical Engineer	40
15	Mr.Om Prakash Singh (Replaced from Mr.G.V.K.Mohan)	Electrical Engineer	45

No. Content Content	SI.	Name of the Expert	Role/ Position	Staff
16 Mrs.J.Sudha (Replaced from Mr.Vinod M K) Mrs.Kriti Alhad Sadarjoshi (Replaced from Kumar M) 18 K.Senthil 19 Mr.Rahul N Ramdhan (Replaced from Kumar M) 19 Mr.Rahul N Ramdhan (Replaced from Chandra Shekhar Reddy Yedla) 20 Mr.P.Thangavel (Replaced from Mr.V.Tulasi Ram) 21 Hema Kumar.S 22 P.M.Saravanan 23 V.Nandhini 24 Naisa Sreenivasulu Reddy 25 S.Sreenivasulu Reddy 26 S.M.Karthikaeswaran 27 Mrs.R.Kammani (Replaced from Dr.M. Rajeskhar Reddy) 28 Najas Thattakatte Abdulkareem 29 Prasanth Balan 30 V.Randthuriajan (Replaced from Dr.M. Rajeskhar Reddy) 31 V.S.Rajasekar 32 V.S.Rajasekar 33 V.S.Rajasekar 34 V.S.Rajasekar 35 V.S.Rajasekar 36 Safety and Health Expert-1 40 V.S.Rajasekar 40 Quantity Surveyor 1 41 Surveyor 1 42 Seretary 43 V.S.Rajasekar 44 CAD Operator-1 55 S.Greenivasulu Reddy 56 Safety and Health Expert-1 57 Sub Total 58 Survesh Mohan Dwivedi 59 TBN 60 Geotechnical Engineer 60 TBN 61 GSOperator 62 GAD Operator 63 TBN 64 Suresh Mohan Dwivedi 65 TBN 67 TBN 68 Santosh Biswa Contract Management Specialist 70 Office Keeper-1 71 Tirvirengadam Someswaran 72 Office Keeper-2 73 T20	_		1.0.0, 1.00.110.11	
Mr. Vinod M K) Mrs. Kirti Alhad Sadarjoshi (Replaced from Kumar M) Architect 12 18 K. Senthil Building Mechanical and Electrical Engineer 16 19 Mr. Rahul N Ramdhan (Replaced from Chandra Shekhar Reddy Yedla) Fipeline Engineer 1 60 20 Mr.P. Thangavel (Replaced from Mr.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. Sreenivasulu Reddy Specification Specialist 4 26 S.M. Karthikaeswaran Environmental Specialist 30 27 Mr. R. Kanmani (Replaced from 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 W. R. Muthurajan (Replaced from Mr. R. Visanda K.C) 739<				(SM)
Mr. Vinod M K) Mrs. Kirti Alhad Sadarjoshi (Replaced from Kumar M) Architect 12 18 K. Senthil Building Mechanical and Electrical Engineer 16 19 Mr. Rahul N Ramdhan (Replaced from Chandra Shekhar Reddy Yedla) Fipeline Engineer 1 60 20 Mr.P. Thangavel (Replaced from Mr.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. Sreenivasulu Reddy Specification Specialist 4 26 S.M. Karthikaeswaran Environmental Specialist 30 27 Mr. R. Kanmani (Replaced from 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 W. R. Muthurajan (Replaced from Mr. R. Visanda K.C) 739<				
From Kumar M) Example From Kumar M) From Kumar M) Engineer From Kumar M) Engineer From Kumar M) From Kumar M	16		Structural Engineer	28
Engineer Figure	17		Architect	12
From Chandra Shekhar Reddy Yedla	18	K.Senthil		16
Mr.V.Tulasi Ram) 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 Mrs.R.Kanmani (Replaced from 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 Mr.R.Muthurajan (Replaced from Mr.Yinod Chandra K.C) Quantity Surveyor 1 50 31 V.S.Rajasekar Quantity Surveyor 2 70 31 V.S.Rajasekar Quantity Surveyor 2 70 31 V.S.Rajasekar Quantity Surveyor 2 70 3 Supporting Stafe 70 4 Supporting Stafe 70 5 G.Murali	19	from Chandra Shekhar Reddy	Pipeline Engineer 1	60
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 Mrs.R.Kanmani (Replaced from 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 Mr.R.Muthurajan (Replaced from Mr.Vinod Chandra K.C) Quantity Surveyor 1 50 31 V.S.Rajasekar Quantity Surveyor 2 70 4 B.Ajithkumar Secretary 70 2 G.Murali CAD Operator-1 30 </td <td>20</td> <td></td> <td>Pipeline Engineer 2</td> <td>60</td>	20		Pipeline Engineer 2	60
23 V.Nandhini Hydraulic Modeler - 2 8 24 Naisa Sreenivasulu Reddy Construction Planner Cost Estimator 4 25 S.Sreenivasula Reddy Specification Specialist 30 26 S.M.Karthikaeswaran Environmental Specialist 30 27 Mrs.R.Kanmani (Replaced from 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 Mr.R.Muthurajan (Replaced from Mr.Vinod Chandra K.C) Quantity Surveyor 1 50 31 V.S.Rajasekar Quantity Surveyor 2 70 4 B.Ajithkumar Secretary 70 2 G.Murali CAD Operator (2 Nos.) 60	21	Hema Kumar.S	Pipeline Engineer 3	50
Naisa Sreenivasulu Reddy	22	P.M.Saravanan	Hydraulic Modeler - 1	8
25 S.Sreenivasula Reddy Specification Specialist 4 26 S.M.Karthikaeswaran Environmental Specialist 30 27 Mrs.R.Kanmani (Replaced from 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 Mr.R.Muthurajan (Replaced from Mr.Vinod Chandra K.C) 20 31 V.S.Rajasekar Quantity Surveyor 1 50 32 Sub Total 739 33 Supporting Staff 34 B.Ajithkumar Secretary 70 35 G.Murali CAD Operator-1 30 36 G. Murali CAD Operator (2 Nos.) 60 37 TBN Garetor 18 38 Suresh Mohan Dwivedi GIS Operator 18 48 Suresh Mohan Dwivedi GIS Operator 18 59 TBN Geotechnical Engineer 66 70 TBN Geotechnical Engineer 66 71 TBN MIS Specialist 50 81 Santosh Biswa Contract Management Specialist 60 82 Santosh Biswa Contract Management Specialist 60 83 A.Renu Kumar Visa and Admin. Officer 70 84 Mr.R.Jagan) 0ffice Keeper-1 70 85 Mr.R.Jagan) 0ffice Keeper-2 70 86 Tituruengadam Someswaran (Replaced from Mr.G.Arjun) 720	23	V.Nandhini	Hydraulic Modeler - 2	8
26 S.M.Karthikaeswaran Environmental Specialist 30 27 Mrs.R.Kanmani (Replaced from 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 Mr.R.Muthurajan (Replaced from Mr.Vinod Chandra K.C) Quantity Surveyor 1 50 31 V.S.Rajasekar Quantity Surveyor 2 70 30 A.Buthumar Secretary 70 4 Sub Total 70 4 Sub Total <	24	Naisa Sreenivasulu Reddy	Construction Planner Cost Estimator	4
27 Mrs.R.Kanmani (Replaced from 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 Mr.R.Muthurajan (Replaced from Mr.Vinod Chandra K.C) Quantity Surveyor 1 50 31 V.S.Rajasekar Quantity Surveyor 2 70 31 V.S.Rajasekar Quantity Surveyor 2 70 30 Supporting STAFF 739 1 B.Ajithkumar Secretary 70 2 G.Murali CAD Operator-1 30 3 TBN CAD Operator (2 Nos.) 60 4 Suresh Mohan Dwivedi 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	25	S.Sreenivasula Reddy	Specification Specialist	4
Dr.M.Rajsekhar Reddy) 28 Najas Thattakatte Abdulkareem Safety and Health Expert-1 40 29 Prasanth Balan Safety and Health Expert-2 70 30 Mr.R.Muthurajan (Replaced from Mr.Vinod Chandra K.C) Quantity Surveyor 1 50 31 V.S.Rajasekar Quantity Surveyor 2 70 Sub Total 739 SUPPORTING STAFF 1 B.Ajithkumar Secretary 70 2 G.Murali CAD Operator-1 30 3 TBN CAD Operator (2 Nos.) 60 4 Suresh Mohan Dwivedi 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.G.Arju	26	S.M.Karthikaeswaran	Environmental Specialist	30
28Najas Thattakatte AbdulkareemSafety and Health Expert-14029Prasanth BalanSafety and Health Expert-27030Mr.R.Muthurajan (Replaced from Mr.Vinod Chandra K.C)Quantity Surveyor 15031V.S.RajasekarQuantity Surveyor 270Sub Total739SUPPORTING STAFF1B.AjithkumarSecretary702G.MuraliCAD Operator-1303TBNCAD Operator (2 Nos.)604Suresh Mohan DwivediGIS Operator185TBNInspectors (4 Nos.)2006TBNGeotechnical Engineer67TBNMIS Specialist508Santosh BiswaContract Management Specialist69A.Renu KumarVisa and Admin. Officer7010K.ManikandanAccountant7011Pilominraj Raja (Replaced from Mr.R.Jagan)Office Keeper-17012Thiruvengadam Someswaran (Replaced from Mr.G.Arjun)Office Keeper-270Sub Total720	27		Social Communication Specialist	72
30 Mr.R.Muthurajan (Replaced from Mr.Vinod Chandra K.C) Quantity Surveyor 1 50 31 V.S.Rajasekar Quantity Surveyor 2 70 Sub Total 739 SUPPORTING STAFF 1 B.Ajithkumar Secretary 70 2 G.Murali CAD Operator-1 30 3 TBN CAD Operator (2 Nos.) 60 4 Suresh Mohan Dwivedi 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.G.Arjun) Office Keeper-1 70 12 Thiruvengadam Someswaran (Replaced from Mr.G.Arjun) Office Keeper-2 70	28		Safety and Health Expert-1	40
Mr. Vinod Chandra K.C) Quantity Surveyor 2 70 Sub Total 739 SUPPORTING STAFF 1 B.Ajithkumar Secretary 70 2 G.Murali CAD Operator-1 30 3 TBN CAD Operator (2 Nos.) 60 4 Suresh Mohan Dwivedi 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	29	Prasanth Balan	Safety and Health Expert-2	70
Sub Total Quantity Surveyor 2 70 SUPPORTING STAFF 1 B.Ajithkumar Secretary 70 2 G.Murali CAD Operator-1 30 3 TBN CAD Operator (2 Nos.) 60 4 Suresh Mohan Dwivedi 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 Sub Total 720	30		Quantity Surveyor 1	50
SUPPORTING STAFF 1 B.Ajithkumar Secretary 70 2 G.Murali CAD Operator-1 30 3 TBN CAD Operator (2 Nos.) 60 4 Suresh Mohan Dwivedi 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 T20	31	,	Quantity Surveyor 2	70
1 B.Ajithkumar Secretary 70 2 G.Murali CAD Operator-1 30 3 TBN CAD Operator (2 Nos.) 60 4 Suresh Mohan Dwivedi 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 T20		Sub Total		739
2 G.Murali CAD Operator-1 30 3 TBN CAD Operator (2 Nos.) 60 4 Suresh Mohan Dwivedi 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	SUP	PORTING STAFF		
3TBNCAD Operator (2 Nos.)604Suresh Mohan DwivediGIS Operator185TBNInspectors (4 Nos.)2006TBNGeotechnical Engineer67TBNMIS Specialist508Santosh BiswaContract Management Specialist69A.Renu KumarVisa and Admin. Officer7010K.ManikandanAccountant7011Pilominraj Raja (Replaced from Mr.R. Jagan)Office Keeper-17012Thiruvengadam Someswaran (Replaced from Mr.G.Arjun)Office Keeper-270	1	B.Ajithkumar	Secretary	70
4 Suresh Mohan Dwivedi 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	2	G.Murali	CAD Operator-1	30
5TBNInspectors (4 Nos.)2006TBNGeotechnical Engineer67TBNMIS Specialist508Santosh BiswaContract Management Specialist69A.Renu KumarVisa and Admin. Officer7010K.ManikandanAccountant7011Pilominraj Raja (Replaced from Mr.R.Jagan)Office Keeper-17012Thiruvengadam Someswaran (Replaced from Mr.G.Arjun)Office Keeper-270	3	TBN	CAD Operator (2 Nos.)	60
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) 720	4	Suresh Mohan Dwivedi	GIS Operator	18
7TBNMIS Specialist508Santosh BiswaContract Management Specialist69A.Renu KumarVisa and Admin. Officer7010K.ManikandanAccountant7011Pilominraj Raja (Replaced from Mr.R.Jagan)Office Keeper-17012Thiruvengadam Someswaran (Replaced from Mr.G.Arjun)Office Keeper-270Sub Total	5	TBN	Inspectors (4 Nos.)	200
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) 720	6	TBN	Geotechnical Engineer	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) 70 Sub Total 720	7	TBN	MIS Specialist	50
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	8	Santosh Biswa	Contract Management Specialist	6
11 Pilominraj Raja (Replaced from Mr.R.Jagan) 12 Thiruvengadam Someswaran (Replaced from Mr.G.Arjun) Sub Total 70 70 70 70 70 70 70 70 70	9	A.Renu Kumar	Visa and Admin. Officer	70
Mr.R.Jagan) 12 Thiruvengadam Someswaran (Replaced from Mr.G.Arjun) Sub Total 70 720	10	K.Manikandan	Accountant	70
12 Thiruvengadam Someswaran (Replaced from Mr.G.Arjun) 70 Sub Total 70 70 720	11		Office Keeper-1	70
Sub Total 720	12	Thiruvengadam Someswaran	Office Keeper-2	70
Total 1988				720
		Total		1988

Annexure 2 Project Scope

SI. No.	Component	Construction Items
CP1	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 desalination plant Perur electrical sub-station (80 MVA capacity). Perur UGT Product water tanks of Capacity 36 ML (4 compartments of each 9 ML) Proposed to construct a potable water tank of 10 ML capacity instead of 9 ML capacity
CP2	Construction of Pumping Station and Reservoirs	 Pumphouse and pump facility at Perur DSP 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 OCTOBER 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 9 th lockdown period from 01.10.2020 to 31.10.2020 throughout Chennai and its adjacent Districts in Tamil Nadu, so some of the International staff (outside Chennai) are allowed to work on the Project as Work From Home option. Online Microsoft Teams Meeting with Chief Development Operations (JICA), CMWSSB officials and PMC team on 06.10.2020 for a discussion on the Draft Concept Design Report for CP1 on DBO basis.	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr.Civil Engineer); Dr.Ghulam Mustafa (Desalination 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); Mr.S.M.Karthikaeswaran (Environmental Specialist)	Preparation of Final Concept Design Report Submission of for CP1 on DBO
2	 Joint site visit with AEE (Desal) CMWSSB official and coordination with survey agency for carrying out the Topographical Survey for proposed Underground Tank (UGT) and Pumping station at Porur new WDS site on 01.09.2020 Mobilisation of Mr.Suresh Mohan Diwivedi (GIS Operator) on 07.10.2020 Mobilisation of Mr.P.Thangavel (Pipeline Engineer-2) on 15.10.2020 Mobilisation of Mr.R.Muthurajan (Quantity Surveyor-1) on 21.10.2020 	Mr.R.Senthil (Civil Engineer)	Carrying out the Topographical Survey at proposed UGT and Pumping station at Porur new WDS site on 01.10.2020
3	 Preparation of Monthly Progress Report (MPR 08) for September 2020 	Dr.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr.Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.R.Senthil (Civil Engineer)	MPR 08 (10 copies) submitted on 09.10.2020
4	 Preparation of Final Prequalification (PQ) documents for CP1 components on DBO basis 	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 Final Prequalification (PQ) document for CP1 components on DBO basis as on 12.10.2020

SI.	Key activity / significant task carried	List of PMC	Working on
No.	out	team members	Delivery Submission
5	■ Preparation of Notice Inviting Application (NIT for RfQ) for Prequalification documents for CP1 on 12.10.2020.	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)	and Notice Inviting Application (NIT for RfQ) for Prequalification documents for CP1 was published in the website and published in Newspaper on 14.10.2020
6	 Preparation of O&M Cost, Minimum Functioning Specification, Draft Financial Analysis, Instrumentation related works etc. Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the issues/ concerns for the specific tasks allocated / working deliverables/activities, project status on finalisation of Concept Design Report, Preparation of Request For Proposal (RFP) and Draft Social Impact Assessment Review Report for CP1 components on 19.10.2020 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Mr.Siddappaswamy (Sr.Civil Engineer); Dr.Ghulam Mustafa (Desalination Expert); Mr Hemant Chadha (Financial Expert); Dr.Alok Kumar (Environmental Specialist); Mr.R.Senthil (Civil Engineer); Mr.S.M.Karthikaeswaran (Environmental Specialist); Mr.Santosh Biswa (Contract Management Specialist); Mr.Afzal Abdul Latheef (Monitoring & Control Specialist (Desal)); Mr.Rajesh Mishra (Social Communication Specialist); Mrs.R.Kanmani (Social Communication Specialist)	Finalisation of Concept Design Report, Preparation of Request For Proposal (RFP) and Draft Social Impact Assessment Review Report for CP1
7	 Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the issues/ concerns for the specific tasks allocated / working deliverables/activities, project status for CP2 and CP4 components on 19.10.2020 Mobilisation of Mr.R.Muthurajan (Quantity Surveyor-1) on 21.10.2020 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Mr.Siddappaswamy (Sr.Civil Engineer); Mr.R.Senthil (Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer);	Preparation of Preliminary Design Report and Site Visit Report for CP2 and CP4

SI.	Key activity / significant task carried	List of PMC	Working on
No.	out	team members	Delivery
		Mr.Rahul N Ramdhan (Pipeline Engineer-1); Mr.P.Thangavel (Pipeline Engineer-1); Dr.Alok Kumar (Environmental Specialist); Mr.S.M.Karthikaeswaran (Environmental Specialist); Mr.Rajesh Mishra (Social Communication Specialist); Mrs.R.Kanmani (Social Communication Specialist); Mr.V.S.Rajasekar (Quantity Surveyor-2) Dr.P.Dharmabalan (Project	
8	 Mobilisation of Mr.Rajesh Mishra (Social Communication Specialist) on 05.10.2020 Preparation of Social Impact Assessment Review Report for CP1 and CP2 components from 05.10.2020 to 31.10.2020 	Manager, International Expert); Mr.Siddappaswamy (Sr.Civil Engineer); Mr.Rajesh Mishra (Social Communication Specialist); Mrs.R.Kanmani (Social Communication Specialist);	Preparation of Social Impact Assessment Review Report for CP1 and CP2 components
9	 Preparation of reply to pre-bid queries reply to Pre-bid queries for Prequalification (PQ) Application for CP1 components on DBO basis on 22.10.2020 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Mr.Siddappaswamy (Sr.Civil Engineer); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Preparation of reply to Pre-bid queries for Prequalification (PQ) Application for CP1 components on DBO basis
10	■ Preparation of presentation slides for a meeting with Additional Chief Secretary / Finance Secretary and CMWSSB officials for a discussion on timeline review for the procurement process for RFQ and RFP stage of CP1, CP2 and CP4 on 24.10.2020 to 26.10.2020	Mr.Siddappaswamy (Sr.Civil Engineer); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Preparation of presentation slides on timeline review for CP1, CP2 & CP4
11	 Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the preparation of Draft Request For Proposal (RFP) for CP1 components on DBO basis on 27.10.2020 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Mr.Siddappaswamy (Sr.Civil Engineer);	Preparation of Draft Request For Proposal (RFP) for CP1 components on DBO basis

SI. No.	Key activity / significant task carried	List of PMC	Working on
NO.	out	team members Dr.Ghulam Mustafa (Desalination Expert); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Delivery
12	 Meeting with Managing Director, Executive Director of CMWSSB officials for a discussion on timeline review for the procurement process for RFQ and RFP stage of CP1 components on DBO basis on 27.10.2020 	Mr.S.Srinivasa Rao (Project Coordinator); Mr.Siddappaswamy (Sr.Civil Engineer); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Discussion on timeline review for the
13	 Meeting with Additional Chief Secretary / Finance Secretary and CMWSSB officials for a discussion on timeline review for the procurement process for RFQ and RFP stage of CP1 components on DBO basis on 28.10.2020 	Mr.S.Srinivasa Rao (Project Coordinator); Mr.Siddappaswamy (Sr.Civil Engineer);	procurement process for RFQ and RFP stage for CP1
14	 Online Webex meeting conducted by CMWSSB for Prequalification (PQ) Application Meeting for CP1 components on 29.10.2020 Mobilisation of Mr.B.Ajithkumar (Secretary) on 29.10.2020 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr.Civil Engineer); Dr.Uday G.Kelkar (Additional Key Expert – International); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Preparation and
15	 Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the reply to Pre-bid queries for Prequalification (PQ) Application for CP1 components on DBO basis on 30.10.2020 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Mr.Siddappaswamy (Sr.Civil Engineer); Dr.Uday G.Kelkar (Additional Key Expert – International); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	submission of reply to Pre-bid queries for Prequalification (PQ) Application Meeting for CP1 components on DBO basis
16	 Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the reply to Pre-bid queries for Prequalification (PQ) Application for CP1 components on DBO basis on 31.10.2020 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasa Rao (Project Coordinator); Mr.Siddappaswamy (Sr.Civil Engineer);	

SI.	Key activity / significant task carried	List of PMC	Working on
No.	out	team members	Delivery
		Dr.Uday G.Kelkar (Additional Key	
		Expert – International);	
		Mr.Abdel Fattah Toukan (Contract	
		Specialist, Desal);	
		Mr.R.Senthil (Civil Engineer);	
		Mr.Santosh Biswa (Contract	
		Management Specialist)	

Annexure 7 Team Deployment Schedule for Next months

Annexure 8 Organisation Chart

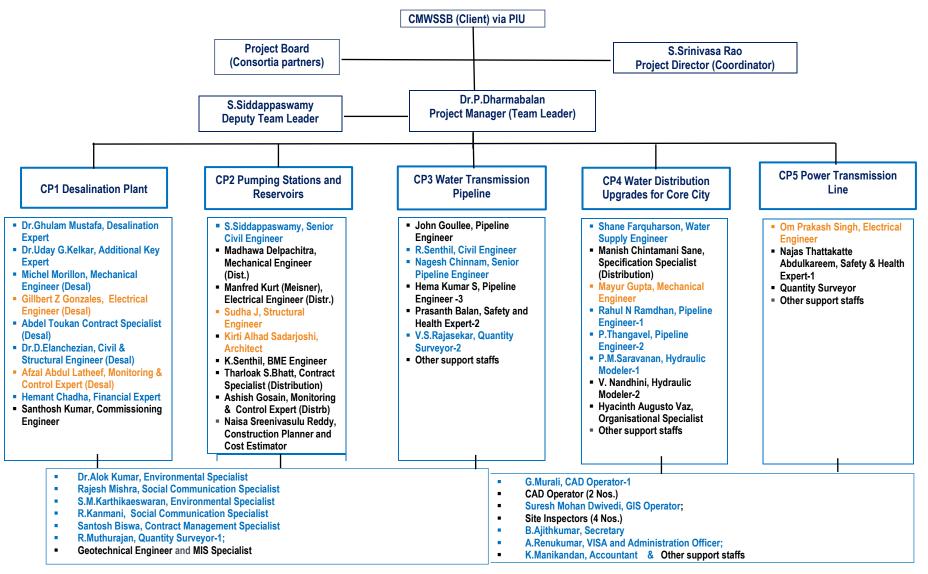


Figure 1: PMC Organisation Chart

Prepared for CMWSSB

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.









