

CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD







MPR (02) / (March 2020)

PMC for Chennai Perur 400 MLD Desalination Plant and Allied Works

Reference No. Loan ID-P267 Prepared for CMWSSB 17 April 2020

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1 Executive Summary

This Monthly Progress Report for March 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 separately report on:

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

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

Table 1: Key Messages upto March 2020

Component	Key Messages
	Team mobilization - Two support staff i.e. Mr.Santosh Biswa (Contract Management Specialist) and Mr.K.Manikandan (Accountant) have been newly mobilized during the March month
	Permanent PMC project office have been established
	Project information collection and review has commenced (all packages)
	Site visits conducted by Environmental team to Nemmeli Plant to visit the newly proposed plant location and data collection
	 Revised PQ document for CP1 submitted on 03.03.2020 and 06.03.2020 for client review and sent to JICA for concurrence
	 Monthly Progress Report (MPR 01) for January & February 2020 submitted on 10.03.2020
PMC (Consulting)	Design criteria document submission on 30.03.2020 for CP-4 Component
Services	Progressive expenditure (at actuals i.e. based on bills passed till the end of March 2020) = Nil (INR) and Nil (USD)
	 Progressive expenditure (Projected based on man-month consumed till the end of March 2020) = 74,91,226 (INR) and \$225,159 (USD)
	Activities generally progressing on schedule
	 Accelerated program being followed for CP1, which brings forward the issue of the RFP to market by 4-5 months
	The emerging COVID-19 virus outbreak is being monitored and CMWSSB is to be informed of any impact on the mobilization of PMC personnel. Due to COVID-19 issues, the Government of India announced lockdown period until 14.04.2020
	No Project site work have been commenced
Project (the Works)	Progressive expenditure = Nil
	No activities scheduled to commence as of end March 2020

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

- 1. The impact of prevailing 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 pre-treatment 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 discussion with CMWSSB officials, it is understood that proposed desalination plant's land ownership transfer is in process. Upon receipt of the same consent to establish application to TNPCB (Tamilnadu Pollution Control Board) to be taken up by CMWSSB
- 4. Forest Clearance for cutting of trees at Perur to be obtained from Forest Department
- 5. Approval for erection of offshore structure to be obtained from Tamilnadu maritime board
- 6. System hydraulic design for the main Perur DSP to Porur Headworks water transmission system (pumping station and transmission pipeline) and proposed water allocation to Core City and Expansion Area zone is to be resolved following initial analysis by PMC
- 7. Flexibility to perform some PMC activities remotely requires resolution between CMWSSB and PMC, as the current COVID-19 virus situation may introduce restrictions on travel and project mobilizations as the Government of India announced lockdown period until 14.04.2020.
- 8. Quick turn round of requests with approvals and follow up on timeline is essential to undertake the acceleration of CP1.
- 9. In CMWSSB on 05.03.2020, the meeting was called to discuss the scope of CP4 and the PMC's approach and timing to this component of the Project, as World Bank is looking for opportunity to have involvement in the financing of works.

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
JICA	Japan International Cooperation Agency
MLD	Megalitres (or 1 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
TLO	On-Job-Training
PMC	Project Management Consultant (consortium)
PQ	Pre-Qualification
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	Tamilnadu Pollution Control Board
тос	Total Organic Carbon
WDS	Water Distribution Station
WDZ	Water Distribution Zone

3 Introduction

3.1 This Progress Report

This is the second (2nd) monthly progress report and covers activities of the Project Management Consultant (PMC services) and the Project (the Works) during the months of **March 2020**.

3.2 PMC Services

The Consulting Services addressed by the series of Monthly Progress Reports ("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 in accordance with a Contract dated 09 January 2020 for Consulting Services between the Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB or "the Client") and a Consortium 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 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 staff with their role and man-months are mentioned in the **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 Staff	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 Desalination Plant
- CP2 Pumping Stations & Reservoirs
- CP3 Product Water Conveyance Main
- CP4 Improvements to Existing Distribution System in core area of Chennai City
- CP5 Installation of transmission line

Further details on the components of the contract packages are as summarised at Annexure 2.

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

- 1. CP-1: Review of the existing 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 (MFS), Assistance in Bid evaluations, construction supervision activities
- 2. CP-2: Review of technical information, conducting necessary topographical and geotechnical investigations, Hydraulic analysis of the transmission mains for finalizing the pumps configurations, detail design of reservoir and pumping stations with all civil, electro-mechanical and instrumentation works, preparation of PQ and bid document with BOQ and technical specifications, Assistance in Bid evaluations, construction supervision activities
- 3. CP-3: Construction supervision activities of the Product Water Conveyance Main
- 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 distribution network for improvement, 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
- 6. All packages: Assist CMWSSB in the environmental management and monitoring activities in all stages

In addition, the PMC will assist the CMWSSB in the development of organizational capability in several key areas including:

- 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 please refer to the Inception Report.

4 Progress Report for PMC Services

4.1 Achieved Activities – March 2020

The activities achieved during the month of March 2020 are listed at Table 3.

Table 3: Achieved Activities – March 2020

Package	Achieved Activities	
	Task 1: Data and information collection commenced (JICA documents, DPRs, water quality data)	
	Task 1: Site visits conducted to the newly proposed plant location at Perur by Environmental Team	
	Task 2: Review of technical information commenced (JICA documents, DPRs, water quality data)	
CP1	Task 4: Conceptual design for Perur DSP is in progress with initial preliminary calculations based on the available existing data	
	Task 9: Pre-qualification (PQ) criteria developed and discussed with CMWSSB officials	
	Task 9: Revised Request for Qualifications (RFQ) document was prepared on DBO basis and issued to Client for review. After review, CMWSSB sent the RFQ to JICA for concurrence.	
	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 transmission system based on the available data)	
CP3	No major activities have been carried out during this period	
	Task 1: Data and information collection commenced (JICA documents, Master Plan)	
CP4	Task 1: Technical Presentation made by PMC team with CMWSSB Area officials on 10.03.2020 on the scope of the work, data requirement , system design criteria and contracting strategy and the way forward	
	Discussion with CMWSSB officials and World Bank Team on 05.03.2020 regarding the scope of CP4 components and PMC approach on water distribution system in Core area of Chennai City	
CP5	No activities have been carried out during this period	
	CMWSSB comments/observations received on the Inception report R0 on 30.03.2020	
	CMWSSB comments/observations received on MPR 01 (Jan & Feb) R0 on 31.03.2020	
General	Environmental support activities commenced including documentation review and approvals planning	
	Permanent PMC office have been established in Chennai	
	Introductions of various mobilized staffs to CMWSSB	

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

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4.2 Deliverables Status at March 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 at Table 4.

Table 4: Deliverables Status

SI.No.	Report / Document	Tentative Date / Frequency / Status **	
		Submitted (28.02.2020)	
1	Inception Report	Observations on Inception Report received	
		from CMWSSB on 30.03.2020	
2	For Design and Tender Assistance for CP1		
	2.1 Conceptual Design Report	July 2020	
		Draft submitted (25/02/2020)	
	2220	Revised submitted on 03.03.2020 and	
	2.2 PQ Document	06.03.2020 for client review and sent to JICA	
		for Concurrence for floating of the tender	
	2.3 PQ Evaluation Report	July 2020	
	2.4 Bid (RFP) Document	September 2020	
	2.5 Bid Evaluation Report (Technical)	October 2020	
	2.6 Bid Evaluation Report (Financial)	December 2020	
3	For Design and Tender Assistance for CP2		
	3.1 Detailed Design Report and Drawings	April 2021	
	3.2 PQ Document (if required)	July 2021	
	3.3 PQ Evaluation Report (if required)	August 2021	
	3.4 Bid Document	September 2021	
	3.5 Bid Evaluation Report (Technical)	November 2021	
		December 2021	
4	3.6 Bid Evaluation Report (Financial)	December 2021	
4	For Design and Tender Assistance for CP4	December 2024	
	4.1 Detailed Design Report and Drawings	December 2021	
	4.2 Bid Document(s)	April 2022	
	4.3 Bid Evaluation Report (Technical)	September 2022	
	4.4 Bid Evaluation Report (Financial)	November 2022	
5	For Construction Supervision of CP 1		
	5.1 Contractor's Design Review Report	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	Within 3 months after commencement of services	
	9.2 Environmental Monitoring Report	Every Month	
10	Progress Report and Project Completion Report		
		MPR 01 for Jan & Feb'2020 (Draft 2 copies)	
	10.1 Monthly Progress Report (MPR)	submitted on 10.03.2020 for review	

SI.No.	Report / Document	Tentative Date / Frequency / Status **	
		Observations on MPR 01 received from	
		CMWSSB on 31.03.2020	
	10.2 Quarterly Progress Report (QPR)	Once in every 3 Months	
	10.2 Drainet Completion Benert (DCB)	Within 3 months after completion of the	
	10.3 Project Completion Report (PCR)	services	

^{**} The tentative date of deliverables have 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. Where these tender dates are delayed there will be an associated delay with the completion of tender evaluation reports.

Any impacts to timing of deliverables will be communicated to CMWSSB on a regular basis.

4.3 Actual Progress versus Planned Progress - Upto March 2020

Actual progress during the month's upto March 2020 is in accordance with planned progress:

Table 5: Actual Progress vs Planned Progress

Sl. No.	Deliverable	Planned	Actual	Remarks/reasons for delay
1	Draft PQ document for CP1	25.02.2020	25.02.2020	
2	Draft Inception Report	12.02.2020	28.02.2020	Delay has been happened due to more focus on CP-1 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.
3	Revised PQ document for CP1	03.03.2020	03.03.2020	
3		06.03.2020	06.03.2020	
4	Draft Monthly Progress Report (MPR 01) for January 2020 & February 2020	10.03.2020	10.03.2020	

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

4.4 Financial Progress Upto March 2020

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

Table 6: Financial Progress (Actuals based on the bills passed) on PMC Services at end of March 2020

Month	Monthly Expenditure	Cumulative Expenditure	% of Total Contract Value
January 2020	INR 0	INR 0	0.00%
,	USD 0	USD 0	0.00%
February 2020	INR 0	INR 0	0.00%
	USD 0	USD 0	0.00%
March 2020	INR 0	INR 0	0.00%
	USD 0	USD 0	0.00%

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

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

Month	Monthly Expenditure	Cumulative Expenditure	% of Total Contract Value
January 2020	INR 10,77,836	INR 10,77,836	0.18%
	USD \$56,098	USD \$56,098	0.60%
February 2020	INR 25,81,997	INR 36,59,833	0.62%
,	USD \$112,801	USD \$168,899	1.79%
March 2020	INR 38,31,393	INR 74,91,226	1.30%
	USD \$56,261	USD \$225,159	2.39%

4.5 Staffing Inputs – March 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- mobilization date	Re- mobilization date	Total months allocated	Total months mobilized so far (till March 2020 end)	Balance man- months available (April 2020 onwards)
Project Manager (Team Leader)	Dr. Dharma Dharmabalan	I	14.02.2020	26.02.2020		70	0.45	69.55
Desalination Expert	Dr.Ghulam Mustafa	I	10.02.2020	22.02.2020		32	0.45	31.55
Water Supply Engineer	Mr. Shane Farquharson	I	20.01.2020	20.03.2020		23	2.04	20.96
Mechanical Engineer (Desal)	Mr.Michel Morillon		20.01.2020	08.02.2020	23.02.2020	15	1.35	13.65
iviectianical Engineer (Desai)	IVII :IVIICITEI IVIOTIIIOTI	'	20.01.2020	15.03.2020		13	1.55	15.05
Contract Specialist (Desal)	Mr.Roderick Mackenzie	I	20.01.2020	15.02.2020		9	0.90	8.10
Civil and Structural Engineer (Desal)	Dr.D.Elancherian	I	20.01.2020			42	2.31	39.69
Civil Engineer	Mr.Ramesh Senthil	N	20.01.2020			72	2.26	69.74
Senior Civil Engineer (Deputy Team Leader)	Mr.Siddappaswamy S.	N	27.01.2020	22.02.2020		72	0.909	71.091
Senior Pipeline Engineer	Mr.Nagesh Chinnam	N	04.02.2020			72	1.727	70.273
Environmental Specialist	Dr.Alok Kumar	I	24.02.2020	07.03.2020		15	0.409	14.591
Environmental Specialist	Mr.S.M. Karthikaeswaran	N	25.02.2020			30	1.045	28.955
Hydraulic Modeller-1	Mr.P.M. Saravanan	N	25.02.2020	27.02.2020		8	0.09	7.91
Pipeline Engineer-1	Mr.Chandra Shekhar Reddy Yedla	N	25.02.2020	05.03.2020		60	0.32	59.68
CAD Operator-1	Mr.G.Murali	N	25.02.2020	24.03.2020		30	0.91	29.09
Contract Management Specialist	Mr.Santosh Biswa	N	02.03.2020			6	0.14	5.86
Visa and Admin Officer	Mr.A.Renu Kumar	N	20.01.2020			70	2.22	67.78
Accountant	Mr.K.Manikandan	N	09.03.2020			70	0.77	69.23
Office Boy-1	Mr.R.Jagan (Replacement to Mr.Thukaram)	N	03.02.2020			70	1.91	68.09
Office Boy-2	Mr.G.Arjun (Replacement to Mr.Ramesh)	N	03.02.2020			70	1.91	68.09

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, OMR, Okkiyampet, Thuraipakkam, Chennai. 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 have been permanently demobilized from the Project, however some resources with intermittent or staged inputs were temporarily demobilized during the period.

After the COVID-19 issues resolved and ends of the lock down period in India, the several of these team members are scheduled to return for further inputs to this Project in the coming month of May 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	Total Number of Days	Number of Days of Claim up to Feb'2020	Number of Days of Claim in March 2020	Cummulative Number of Days of Claim Upto March 2020	Balance Number of Days for Claim
1	NJS Engineers India Pvt. Ltd.	1,440	12	0	12	1,428
2	SMEC India Pvt. Ltd.	860	146	32	178	682
3	SMEC International Pty. Ltd.	Per-diem allo SMEC India F		r the Internatio	nal staffs will be	claimed by
4	TATA Consulting Engineers Ltd.	Not applicable. Hence no claim will be made for the entire project duration				
	TOTAL	2,300	158	32	190	2,110

4.5.3 Summary of Personnel Inputs for the Period

A summary of personnel inputs for the period (March 2020) is included at **Annexure 6.**Planned mobilisation of PMC personnel for next 5-month period (upto August 2020) is presented at **Annexure 7.**

4.5.4 Team Structure

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

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

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

4.6 Meetings and Site Visits – March 2020

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

Table 10: Meetings and Site Visits (March 2020)

Date	Meeting	Location	Attendees
02.03.2020	Discussion on PQ documents (with CMWSSB officers) and explained to Executive Director for CP-1 on DBO basis	CMWSSB office	CMWSSB, PMC members
04.03.2020	Discussion with EE (Desal) CMWSSB for the list of data/ documents /details required by Environmental Specialist	CMWSSB office	CMWSSB, PMC members
05.03.2020	Meeting with World Bank team and CMWSSB officials for CP4 components and attending the presentation made by M/s Suez on Coimbatore PPP project model on water supply improvement	CMWSSB office	World Bank team, CMWSSB, PMC members
06.03.2020	Discussion on PQ documents (with CMWSSB officers)	CMWSSB office	CMWSSB, PMC members
06/03/2020	Nemmeli DSP site visit (and viewing of proposed Perur DSP site location) by Environmental Specialist	Nemmeli DSP & Perur DSP site	CMWSSB, PMC members
10/03/2020	Technical discussion (with CMWSSB officers) and meeting conducted by Chief Engineer (O&M) II, CMWSSB	CMWSSB office	CMWSSB, PMC members
12/03/2020	Visited CMWSSB Training Centre Library at Kilpauk for verification of list of data / drawings available for CP4 components	CMWSSB Training Centre	CMWSSB, PMC members
18/03/2020	Project progress review meeting conducted by SE(Desal) CMWSSB	CMWSSB office	CMWSSB, PMC members
18/03/2020	Joint discussion (with CMWSSB officers) meeting conducted by SE (Desal) and SE (P&D), CMWSSB for CP4 components for list of available data and drawings	CMWSSB office	CMWSSB, PMC members
19/03/2020	Meeting conducted by Project Co-ordinator (PMC) for a discussion on status review and list of activities to be carried out from various WDS for CP4 components	PMC office	PMC members
20/03/2020	Nemmeli DSP site visit and data collection by Environmental Specialist	Nemmeli DSP	CMWSSB, PMC members
26/03/2020	Zoom (Video Conference Call) meeting conducted by Project Manager (PMC) for a discussion on preparation of preliminary Conceptual Design Report for CP1 (Based on available data)	Work From Home	PMC members
31/03/2020	Meeting conducted by Senior Civil Engineer (PMC) for a discussion on preparation of design criteria and preliminary design base report for CP4 (Based on available data)	Work From Home	PMC members

In addition, some other meetings/discussions have been conducted for team introductions, discussion on procurement strategy for CP1 (including PQ document review), discussion with CMWSSB Area officers and P&D officials during the meetings for CP4 components and other Project aspects till March 2020. Where formal minutes have not been recorded, these meetings are not listed in the above.

4.7 Health & Safety – March 2020

There are no health and Safety incidents to report for the months of March 2020, associated with the activities of the PMC. The evolving international situation regarding the COVID-19 virus is however of concern to the PMC, as mobilisation of international (and possibly national) staff may be impacted by restricted travel movements. 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 situation worsens and travel restrictions are enforced, for the PMC to maintain progress on activities. Also, it is requested that CMWSSB consider approval of national and support staff work from home inputs, if the COVID-19 virus situation worsens and travel restrictions to sites are enforced, for the PMC to maintain progress on activities.

The details of Insurance is listed in the 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	Not Applicable	-	-	-	
SMEC International	Professional Liability	Engineering Consultants Underwriters Ltd.	AUD 1 Million	30.06.2019	30.06.2020	
Pty. Ltd.	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	SBI General Insurance	INR 100 Million	10.01.2020	09.01.2021	
	Insurance	IFFCO TOKIO General Insurance Company Ltd.	INR 0.62 Million	09.01.2020	08.01.2021	
	Professional Liability	Bajaj Allianz General Insurance Company Ltd.	INR 204.78 Million	07.07.2019	06.07.2020	
SMEC India Pvt. Ltd.	Employer's Liability and Worker Compensation Insurance	SBI General Insurance	INR 100 Million	10.01.2020	09.01.2021	
	Insurance against Loss or Damage	3 Years Onsite Warranty with 1 year ADP (Only for Laptops) from VERTEX TECHNO SOLUTIONS (B) PVT LTD.	INR 0.35 Million	29.01.2020	28.01.2023	
NJS Engineers India	Third Party Motor Vehicle Liability Insurance		To be provided	To be provided as and when vehicles are mobilised		
Pvt. Ltd.	Professional Liability	New India Assurance Company Limited	INR 259 Million	20.04.2020	20.07.2027	
	Employer's Liability and Worker Compensation Insurance	New India Assurance Company Limited	INR 20 Million	20.04.2020	19.04.2021	
	Insurance against Loss or Damage	Not Applicable	-	-	-	
	Third Party Motor Vehicle Liability Insurance	IFFCO TOKIO General insurance company Ltd.	INR 0.62 Million	14.01.2020	13.01.2021	
TATA Consulting	Professional Liability	The New India Assurance Co Ltd.	INR 1500 Million	03.10.2019	02.10.2020	
Engineers Ltd.	Employer's Liability and Worker Compensation Insurance	The New India Assurance Co Ltd.	INR 1050 Million	01.04.2019	31.03.2020	
	Insurance against Loss or Damage	The New India Assurance Co Ltd.	INR 1000 Million	03.10.2019	02.10.2020	

4.8 Variations

4.8.1 Submitted/Approved

There are no variation requests submitted or approved during this period.

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. In addition, 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 PMC team is actioning these improvements.

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
			/ recieved
1	Submission of Updated Pre-Qualification	Ref: SMEC/ CMWSSB /5061185 /016,	03.03.2020
	document (PQ) for CP-1 on DBO basis	dated 03.03.2020	
2	Mobilization of Mr.G.Murali (AutoCAD	Ref: SMEC/ CMWSSB /5061185 /016,	04.03.2020
	Draughtsman) and Mr.Santosh Biswa (Contract	dated 04.03.2020	
	Management Specialist)		
3	Submission of Bank Guarantee for Advance	Ref: SMEC/ CMWSSB / 5061185/019,	05.03.2020
	Payment for SMEC (India) Pvt. Ltd.	dated 05.03.2020	
4	Submission of Bank Guarantee for Advance	Ref: SMEC/ CMWSSB / 5061185/020,	05.03.2020
	Payment for SMEC International Pty. Ltd.	dated 03.03.2020	
5	Letter to CMWSSB for Novel Coronavirus threat	Ref: SMEC/ CMWSSB / 5061185/021,	05.03.2020
		dated 03.03.2020	
6	Submission of Invoice for Mobilization Advance	Ref: SMEC/ CMWSSB / 5061185/022,	06.03.2020
	Payment for SMEC International Pty. Ltd. in	dated 03.03.2020	
	Foreign Currency		
7	Submission of Invoice for Mobilization Advance	Ref: SMEC/ CMWSSB / 5061185/023,	06.03.2020
	Payment for SMEC India Pvt. Ltd. in Local	dated 03.03.2020	
	Currency		
8	Reply to your letter for Readjustment of Man-	Ref: SMEC/ CMWSSB / 5061185/024,	09.03.2020
	month allocation of Dr.Uday Kelkar (NJSEI Pvt.	dated 03.03.2020	
	Ltd.)		
9	Reply to CMWSSB letter for authorized	Ref: SMEC/ CMWSSB / 5061185/25,	09.03.2020
	signatory details for correspondence	dated 03.03.2020	
10	Mobilization of Mr.K.Manikandan (Accountant)	Ref: SMEC/ CMWSSB /5061185 /026	09.03.2020
11	Minutes of Meeting for CP4 components	Meeting at 1 st Floor Conference on	10.03.2020
	conducted by CE (O&M) – II with Area Engineer	10.03.2020	
	(CMWSSB)		
12	Submission of Monthly Progress Report for	Ref: SMEC/ CMWSSB / 5061185/027,	10.03.2020
	January & February 2020 (2 copies)	dated 10.03.2020	

SI.	Details of Correspondence letter	Letter Correspondence	Date of
No.		reference number, date	submission
			/ recieved
13	List of Additional Data / Documents required for	Ref: SMEC/ CMWSSB / 5061185/028,	11.03.2020
	Environment discipline for CP1	dated 11.03.2020	
14	Submission of Insurance details for SMEC India	Ref: SMEC/ CMWSSB / 5061185/029,	13.03.2020
	Pvt. Ltd.	dated 13.03.2020	
15	Submission of Insurance details for SMEC	Ref: SMEC/ CMWSSB / 5061185/030,	13.03.2020
	International Pty Ltd	dated 13.03.2020	
16	Reply to your letter for request for detailed	Ref: SMEC/ CMWSSB / 5061185/031,	16.03.2020
	scope of work for Dr.Uday Kelkar (NJSEI Pvt.	dated 16.03.2020	
	Ltd.)		
17	Request for release of Mobilisation Advance	Ref: SMEC/ CMWSSB / 5061185/032,	16.03.2020
	Payment	dated 16.03.2020	
19	Reply to CMWSSB letter for Novel Coronavirus	Ref: SMEC/ CMWSSB / 5061185/033,	16.03.2020
	threat	dated 16.03.2020	
20	Submission of Insurance details for TATA	Ref: SMEC/ CMWSSB / 5061185/034,	17.03.2020
	Consulting Engineers Pvt. Ltd.	dated 17.03.2020	
21	Authorized signatory details for signing of all	Ref: SMEC/ CMWSSB / 5061185/36,	18.03.2020
	invoice / claims for SMEC International Pty. Ltd.	dated 18.03.2020	
22	Authorized signatory details for signing of all	Ref: SMEC/ CMWSSB / 5061185/37,	18.03.2020
	invoice / claims for SMEC India Pvt. Ltd.	dated 18.03.2020	
23	Submission of Design Criteria for CP4	Ref: SMEC/ CMWSSB / 5061185/044,	30.03.2020
	components	dated 30.03.2020	
24	Letter to CMWSSB for list of activities to be	Ref: SMEC/ CMWSSB / 5061185/045,	31.03.2020
	carried out for CP1 & CP4 during lockdown	dated 31.03.2020	
	period till April 2020		
25	Letter from CMWSSB for Authorized Signatory	Letter no. Lr.no. CMWSSB/SE(Desal) /	03.03.2020
	Details Requested	400 MLD Plant/PMC-003/2020, dated	
		03.03.2020	
26	Letter from CMWSSB on Novel Coronavirus	Letter no. Lr.no. CMWSSB/SE(Desal) /	13.03.2020
	threat	400 MLD Plant/PMC-005/2020, dated	
		13.03.2020	
27	Letter from CMWSSB for Detailed scope of work	Letter no. Lr.no. CMWSSB/SE(Desal) /	13.03.2020
	for Dr.Uday Kelkar	400 MLD Plant/PMC-006/2020, dated	
		13.03.2020	
28	Letter from CMWSSB for authorised person for	Letter no. Lr.no. CMWSSB/SE(Desal) /	23.03.2020
	signing of bills	400 MLD Plant/PMC-007/2020, dated	
		23.03.2020	

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 the month of April 2020 is provided at Table 13.

Table 13: Planned Activities till the month of April 2020 (PMC activities)

Contract Package	Activities (Planning for next months)
	Task 2: Review of technical information is continuing and gap analysis to be completed to inform additional water quality sampling etc.
	Task 3: Confirm scope of services for proposed site topographic survey and geotechnical investigation
	 Preparation of Terms of Reference for carrying out the sea water quality analysis
	 Preparation of Terms of Reference for carrying out the topographical survey at Perur site
	Task 4: Conceptual Design Report – complete data collection activities and commence conceptual design
CP1	Task 5 : Preparation & Submission of Concept Design Report
	 Preparation of Draft Conceptual Design Report
	Task 9: Request for Qualifications (RFQ) – issue document to market (late May or early June)
	Task 10: Request for Proposal (RFP) – commence document preparation in June 2020
	 Review of CRZ Report and gap analysis
	 Review of Environmental Management Plan (EMP) for construction phase (CEMP) and cost estimation for its implementation. CEMP will be the part of RFP
	Preparation EIA review report Table 1. Data called the series and series are series and series and series and series are series and series are series and series and series are series are serie
	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)
CP2	Task 2: Review technical information and decide on preferred location of new reservoir and pumping station on Porur HW site
	Task 3: Confirm scope of services for proposed site topographic survey and geotechnical investigation
	 Preparation of Terms of Reference for carrying out the topographical survey at Perur site
CP3	Task 1: Design reviews – undertake the review of design and bid document deliverables (by others), if prioritised by CMWSSB
	Task 2: Review of draft CP3 bid documents (by others) performed and issue of comments
	Task 1: Data collection – collect and verify data on the existing CMWSSB water distribution network according to agreed prioritization of WDZs
	Task 1: GIS development – progressive development of the GIS database for existing water distribution asset inventory, including design of attribute data structure
CP4	Task 2: Design criteria – document for proposed design criteria for water distribution system modelling and design
	Submission of the revised design criteria document
	 Preparation and submission of PMC Observations on various components of the Master plan/ JICA report
CP5	No planned activities during this period
	Inception Report – finalise based on Client/JICA reviews
General	 Submission of Revised Inception Report
	Monthly Progress Report – complete and issue of progress report for March 2020

Contract Package	Activities (Planning for next months)				
	 Submission of Revised Monthly Progress Report for Jan' & Feb'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 EIA review – complete review of the Project EIA and environmental commitments and brief Package Leads on specific requirements relevant to each package				
	Land acquisition/access status review – review and report on status of all land acquisition and access requirements for all Project sites/routes and develop action plan to close gaps				

During the month of March 2020, the PMC have been re-located to the new Project Office, which will achieve an improved level of office amenity, equipment and support resources available to the PMC team.

5.2 Managing Progress Risks

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

Table 14: Managing Progress Risks (PMC activities)

Contract Package	Risk	Control measure	Status
All	COVID-19 virus restricts travel movements of PMC personnel and prevents mobilization 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 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 opportunity to shorten project duration.	•
CP1	JICA concerns with rate of progress and achieved activities to date	Enter upon permission to be obtained by CMWSSB from HR & CE Board	•
CP2	Porur Headworks: The site designated for construction of reservoir and pumping station at Porur is taken for other project and already construction of WTP is under progress. This will call for change in layout plan for the proposed reservoir and pumping station in the nearby area.	Details of existing assets on Porur Headworks site to be provided by CMWSSB as a priority to allow the PMC to urgently review the site layout concept. Allocation of 400 Mld of treated water: CMWSSB has been requested to provide the quantities allocated enroute to Porur from Perur to review the pumping head requirement. Also requested to provide all the design data, soft copies of the design files and LS from Perur to Porur.	•
CP4	Lack of available digital data on the existing water distribution network for the purpose of developing asset database and hydraulic model results in slower progress than estimated	PMC to coordinate with internal CMWSSB team looking at GIS development and will apply additional CAD/GIS resource if required for digitization 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 March 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 detailed reporting format will be issued once works commence.

6.1 Achieved Activities – March 2020

There are no achieved activities (Works) to report.

6.2 Actual Progress versus Planned Progress - March 2020

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

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

6.3 Financial Progress at March 2020

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

6.4 Health & Safety - March 2020

There are no health and safety matters to report.

6.5 Environmental & Regulatory Compliance

There are no regulatory and compliance matters to be reported for the Project from the March 2020 period. We note that prior to this period the CMWSSB has been awarded CRZ clearance for the Project.

6.6 Communication and Correspondence

Leading upto 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 April 2020 as the works have not been tendered for any of the Contract packages to date.

7.2 Managing Progress Risks

A summary of potential Project progress risks and proposed measures to mitigate/control these risks is provided at Table 13.

Table 13: Managing Progress Risks (Project)

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

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

8 Annexures

The following annexures are included with this Monthly Progress Report:

- Annexure 1 List of Experts with Name, Role and Man-months
- Annexure 2 Project Scope
- Annexure 3 Overall Works Schedule
- Annexure 4 Task Breakdown
- 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
- Annexure 8 Organisational Chart

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

SI.	Name of the Expert	Role/ Position	Staff Month
No.	(International/ National Local)	Roley Fosition	(SM)
KEY E	EXPERT		
1	Dr.Pararajasegram (Dharma)	Project Manager- International Expert	70
	Dharmabalan		
2	Ghulam Mustafa	Desalination Expert- International Expert	32
3	Shane Farquharson	Water Supply Engineer International Expert	23
4	Michel Morillon	Mechanical Engineer (Desal)- International Expert	15
5	Sergio de Bastos Vilar Magalhaes Paulo	Electrical Engineer (Desal)- International Expert	25
6	John Goullee	Pipeline Engineer-International Expert	70
7	Roderick Mackenzie	Contract Specialist (Desal) - International Expert	9
8	Tharloak S Bhatt	Contract Specialist (Distribution)- International Expert	8
9	Siddappaswamy S	Senior Civil Engineer	72
10	Nagesh Chinnam	Senior Pipeline Engineer	72
	Sub Total		396
NON	KEY EXPERT - INTERNATIONAL		<u> </u>
1	Dr. D. Elancherian	Civil and Structure Engineer (Desal)	42
2	Madhawa Delpachitra	Mechanical Engineer (Distribution)	4
3	Manfred Kurt (Meisner)	Electrical Engineer (Distribution)	4
4	Manikandan Ganesh Shoranur	Monitoring and Control Expert (Desal)	11
5	Ashish Gosain	Monitoring and Control Expert (Distribution)	12
-	Chanmuga Nathan I	Specification Specialist (Desal)	4
6	Shanmuga Nathan J	Specification specialist (Desai)	4
7	Manish Chintamani Sane	Specification Specialist (Distribution)	3
8	Hemanth Chadda	Financial Expert	3
9	Dr. Alok Kumar	Environmental Specialist	15
10	Santhosh Kumar	Commissioning Engineer	10
11	Rajesh Mishra	Social Communication Specialist	16
12	Hyacinth Augusto Vaz	Organisational Expert	9
	Sub Total		133
NON	KEY EXPERT - NATIONAL		
13	Ramesh Senthil	Civil Engineer	72
14	Surajit Debnath	Mechanical Engineer	40
15	G. V. K. Mohan	Electrical Engineer	45
16	Vinod M K	Structural Engineer	28
17	Kumar M	Architect	12

SI.	Name of the Expert Role/ Position (International/ National Local)		Staff Month
No.	(international) National Local)		(SM)
18	K. Senthil	Building Mechanical and Electrical Engineer	16
19	Chandra Shekhar Reddy Yedla	Pipeline Engineer 1	60
20	V. Tulasi Ram	Pipeline Engineer 2	60
21	Hema Kumar. S	Pipeline Engineer 3	50
22	P. M. Saravanan	Hydraulic Modeler - 1	8
23	V. Nandhini	Hydraulic Modeler - 2	8
24	Naisa Sreenivasulu Reddy	Construction Planner Cost Estimator	4
25	S. Sreenivasula Reddy	Specification Specialist	4
26	S M Karthikaeswaran	Environmental Specialist	30
27	Dr. M. Rajsekhar Reddy	Social Communication Specialist	72
28	Najas Thattakatte Abdulkareem	Safety and Health Expert-1	40
29	Prasanth Balan	Safety and Health Expert-2	70
30	Vinod Chandra K.C	Quantity Surveyor 1	50
31	V S Rajasekar	Quantity Surveyor 2	70
	Sub Total		739
SUPF	PORTING STAFF		•
1	TBN	Secretary	70
2	G.Murali	CAD Operator-1	30
3	TBN	CAD Operator (2 Nos.)	60
4	TBN	GIS Operator	18
5	TBN	Inspectors (4 Nos.)	200
6	TBN	Geo Technical 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	R.Jagan (Person replaced from Mr.Thukaram)	Office Boy-1	70
12	G.Arjun (Person replaced from Mr.Ramesh)	Office Boy-2	70
	Sub Total		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 desclination facilities by reverse semesis (BO) technology.
		 Seawater desalination facilities by reverse osmosis (RO) technology Post-treatment facility for remineralization and disinfection
		- Potable water storage
		- Effluent discharge pipelines
		- Pre-treatment wastewater treatment facility (TBC)
		 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 each 9 ML)
		- Potable water tank of 3 ML
CP2	Construction of Pumping Station and Reservoir	- Pump house and pump facility at Perur DSP
		- Porur UGT of Capacity of 10 ML
		- Pump house 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

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

Annexure 6 Personnel Inputs Summary

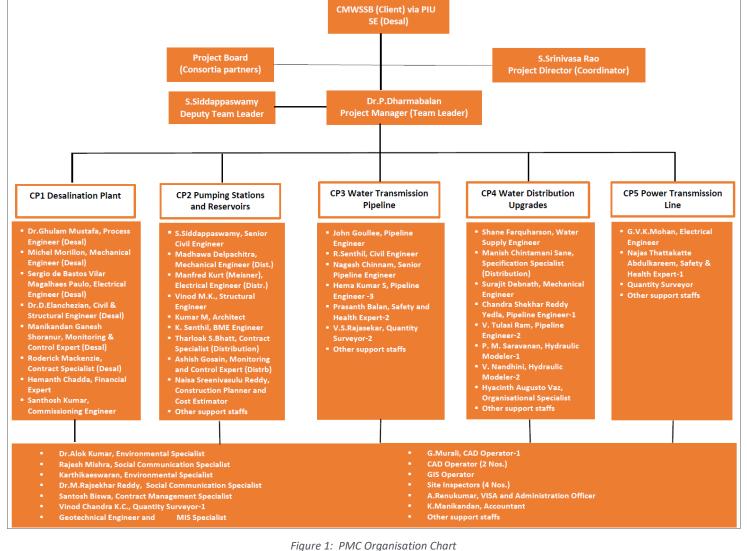
PERSONNEL INPUT SUMMARY FOR THE MONTH MARCH 2020

SI. No.	Key activity / major task carried out	List of PMC team members	Working on Delivery
1	 Mobilisation of Mr.Santosh Biswa (Contract Management Specialist) on 02.03.2020 Discussion on PQ documents (with CMWSSB officers) and explained to Executive Director for CP-1 on DBO basis Preparation of updated PQ documents for CP1 on DBO basis 	Mr.S.Srinivasa Rao (Project Coordinator); Mr.Michel Morillon (Mechanical Engineer, Desal); Mr.Pushpendra Sharma (Legal Expert); Mr.Santosh Biswa (Contract Management Specialist) Mr.R.Senthil (Civil Engineer)	Submission of updated PQ documents for CP1 on 03.03.2020 and 06.03.2020
2	 Preparation of list of Environmental Regulations relevant to the project Review of available data and Identification of data gaps and Data collection w.r.to environment List of permits and statuary requirement List of agencies for baseline studies List of CRZ conditions for design and recommendations Identification of Scope of work related to environment for all packages. Review of CRZ clearance document and identification of data gaps. CRZ action plan preparation Preparation of Scope of work document for Sea water analysis and updation of comments. Preparation of Scope of work document for Environmental baseline analysis and updation of comments for CP1 Identification and shortlisting of agencies for Sampling and characterization for CP1 Follow up with Lab agencies for Due diligence for CP1 components Follow up with CMWSSB for data collection Discussion with EE (Desal) CMWSSB on 04.03.2020 for CP1 components by Environmental Specialist Site visit to Nemmeli DSP on 06.03.2020 by Environmental team Site visit to Nemmeli DSP for data collection on 20.03.2020 by Environmental Specialist 	Dr. Alok Kumar (Environmental Specialist); Mr.S.M.Karthikaeswaran (Environmental Specialist); Mr.Michel Morillon (Mechanical Engineer, Desal); Dr.D.Elancherian (Civil & Structural Engineer, Desal); Mr.Nagesh Chinnam (Senior Pipeline Engineer)	Preparation of preliminary Draft Conceptual Design Report and Preliminary EIA report for CP1

SI.	Voy activity / major tack corried out	List of PMC	Working on
No.	Key activity / major task carried out	team members	Delivery
3	 Attended meeting with World Bank team in CMWSSB, the meeting was called to discuss the scope of CP4, the PMC's approach and timing to this component of the Project on 05.03.2020 	Mr.Shane Farquharson (Water Supply Engineer); Mr.R.Senthil (Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer)	
4	 Mobilisation of Mr.K.Manikandan (Accountant) on 09.03.2020 Technical Discussion and presentation meeting conducted by CE (O&M) – II with Area officials of CMWSSB on 10.03.2020 Request letter sent to CMWSSB for list of Additional Data / Documents required for Environment discipline for CP1 on 11.03.2020 Visited CMWSSB Training Centre Library at Kilpauk for verification of list of data / drawings available for CP4 components on 12.03.2020 	Technical discussion and presented by Mr.Shane Farquharson (Water Supply Engineer); Mr.R.Senthil (Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.S.M.Karthikaeswaran (Environmental Specialist)	Preparation of preliminary base work for CP4
5	 Project progress review meeting conducted by SE(Desal) CMWSSB on 18.03.2020 Joint discussion (with CMWSSB officers) meeting conducted by SE (Desal) and SE (P&D), CMWSSB for CP4 components for list of available data and drawings on 18.03.2020 	Mr.S.Srinivasa Rao (Project Coordinator); Mr.Shane Farquharson (Water Supply Engineer); Mr.R.Senthil (Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.S.M.Karthikaeswaran (Environmental Specialist)	CP1 to CP4
6	 Due to COVID-19 issues, the Government of India announced the lockdown period from 24.04.2020 till 14.04.2020 and further extended to 03.05.2020, so the staff is allowed to work on the project as Work From Home option Attended Zoom (Video Conference Call) meeting conducted by Project Manager (PMC) for a discussion on preparation of preliminary Conceptual Design Report for CP1 (Based on available data) on 26.03.2020 Updation on project progress review meeting Review and analysis of existing data on Seawater Quality Analysis of Nemmeli Existing DSP 	Dr.Dharmabalan (Project Manager, International Expert) Mr.S.Srinivasa Rao (Project Coordinator); Dr.Ghulam Mustafa (Process Expert, Desal) Mr.Michel Morillon (Mechanical Engineer, Desal); Dr.D.Elancherian (Civil & Structural Engineer, Desal); Mr.Shane Farquharson (Water Supply Engineer); Mr.Siddappaswamy (Sr.Civil Engineer); Mr.R.Senthil (Civil Engineer) Mr.S.M.Karthikaeswaran (Environmental Specialist)	Preparation of Preliminary Draft Conceptual Design Report for CP1
7	 Review of available Data / Drawings for CP4 components Preparation of Design Criteria for CP4 components Meeting conducted by Senior Civil Engineer (PMC) for a discussion on preparation of design criteria and preliminary design base report for CP4 (Based on available data) on 31.03.2020 	Mr.Siddappaswamy (Sr.Civil Engineer); Mr.Shane Farquharson (Water Supply Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer) Mr.R.Senthil (Civil Engineer)	Preparation of Design Criteria and preliminary base work for CP4

Annexure 7 Team Deployment Schedule for Next months

Annexure 8 Organisation Chart



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

The Project Management Consultant (PMC) for the Chennai 400 MLD Desalination Plant project is a consortia 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.







