



CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD (CMWSSB)



MPR (15) / (April 2021)

PMC for Chennai Perur 400 MLD Desalination Plant and Allied Works

Reference No.: JICA Loan ID-P267

Contract No. : CNT/ CON/DESAL /ICB/GoI/016/2018-19

10 May 2021

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

PMC Chennai Office Address

B, 13th Floor,
Puravankara Primus,
No.236 Okkiyampet, Old Mahabalipuram Road,
Thuraipakkam, Chennai 600 097,
Tamil Nadu, India
Phone no.: + 91 44 66973302



DOCUMENT CONTROL

Document:	MPR (15) / (April 2021)
File Location:	-
Project Name:	PMC for Chennai Perur 400 MLD Desalination Plant and Allied Works
Revision Number:	0

REVISION HISTORY

Revision No.	Date	Prepared by	Reviewed by	Approved for Issue by
0	10 May 2021	PMC Team	S.Siddappaswamy	Dr.P.Dharmabalan

ISSUE REGISTER

Distribution List	Date Issued	Number of Copies
CMWSSB	10 May 2021	10

PMC DETAILS

Approved by:	Dr.P.Dharmabalan		
Address:	Chennai Perur 400 MLD Desalination Plant Project Office, B 13 th Floor, Puravankara Primus, No.236 Old Mahabalipuram Road, Thuraipakkam, Chennai 600 097, Tamil Nadu, India		
Tel:	+ 91 44 66973302, +91 95607 02631 & +61419765881		
Email:	P.Dharma@smec.com	Website:	www.smec.com

The information within this document is and shall remain the property of:
SMEC and its project partners.

IMPORTANT NOTICE

This report is confidential and is provided solely to report the monthly progress of the Project Management Consultant ("PMC") on the Consulting Services to be delivered under the Chennai Perur 400 MLD Desalination Plant and Allied Works project]. This report is provided according to a Contract Agreement between SMEC International Pty Limited ("SMEC"), as lead consultant in the PMC, and CMWSSB, under which SMEC undertook to perform a specific and limited task for CMWSSB.

This report is strictly limited to the matters stated in it and subject to the various assumptions, qualifications and limitations in it and does not apply by implication to other issues. SMEC makes no representation that the scope, assumptions, qualifications and exclusions set out in this report will be suitable or sufficient for other purposes nor that the content of the Reports covers all matters which you may regard as material for your purposes.

Unless expressly agreed otherwise in writing, SMEC does not accept a duty of care or any other legal responsibility whatsoever in concerning this report, or any related inquiries, advice or other work, nor does SMEC make any representation in connection with this report, to any person other than CMWSSB. Any other person who receives a draft or a copy of this report (or any part of it) or discusses it (or any part of it) or any related matter with SMEC, does so on the basis that he or she acknowledges and accepts that he or she may not rely on this report nor any relevant information or advice given by SMEC for any purpose whatsoever.

TABLE OF CONTENTS

1	EXECUTIVE SUMMARY	1
2	ABBREVIATIONS & ACRONYMS	6
3	INTRODUCTION.....	8
3.1	This Progress Report	8
3.2	PMC Services.....	8
3.3	PMC Scope of Work.....	8
4	PROGRESS REPORT FOR PMC SERVICES	10
4.1	Achieved Activities – April 2021	10
4.2	Deliverables Status in April 2021	17
4.3	Actual Progress versus Planned Progress – Upto April 2021	24
4.4	Financial Progress Upto April 2021	30
4.5	Staffing Inputs – April 2021	37
4.6	Meetings and Site Visits – April 2021	42
4.7	Health & Safety – April 2021	44
4.8	Variations	46
4.9	Communication and Correspondence.....	47
5	PROGRESS OUTLOOK FOR PMC SERVICES	50
5.1	Activities Planned for Next Month	50
5.2	Managing Progress Risks	52
6	PROGRESS REPORT FOR PROJECT (THE WORKS)	53
6.1	Achieved Activities – April 2021	53
6.2	Actual Progress versus Planned Progress – April 2021	53
6.3	Financial Progress in April 2021.....	53
6.4	Health & Safety – April 2021	53
6.5	Environmental and Regulatory Compliance	53
6.6	Communication and Correspondence.....	53
6.7	Variations	53
7	PROGRESS OUTLOOK FOR PROJECT (THE WORKS)	54
7.1	Activities Planned Next Month.....	54
7.2	Managing Progress Risks	54
8	ANNEXURES.....	55
	ANNEXURE 1 LIST OF EXPERTS WITH NAME, ROLE AND MAN-MONTHS.....	56
	ANNEXURE 2 PROJECT SCOPE	58
	ANNEXURE 3 OVERALL WORK PLAN	59
	ANNEXURE 4 WORK SCHEDULE (CONTRACT PACKAGE-WISE)	60
	ANNEXURE 5 PROJECTED FINANCIAL PROGRESS BASED ON MAN-MONTHS CONSUMED Vs ACTUAL PROGRESS (BILL PASSED).....	61
	ANNEXURE 6 PERSONNEL INPUTS SUMMARY.....	62
	ANNEXURE 7 TEAM DEPLOYMENT SCHEDULE FOR NEXT MONTHS	67
	ANNEXURE 8 PMC ORGANISATION CHART	68

1 EXECUTIVE SUMMARY

This Monthly Progress Report for April 2021 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 April 2021

Component	Key Message
PMC (Consulting) Services	<ul style="list-style-type: none"> • 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 • Monthly Progress Report (MPR 06) for July 2020 submitted on 10.08.2020 • Bathymetry Survey fieldwork at Perur 400 MLD DSP has been completed on 28.08.2020. • Seawater Sample collection work has been carried out at the proposed 400MLD DSP at Perur and existing Nemmeli 100 DSP on 29.08.2020 • Brine Diffusion Modelling Study was carried out in September 2020 • Response to JICA 3rd comments and Revised Prequalification documents (RFQ) for CP1 on DBO basis submitted to CMWSSB on 08.09.2020

Component	Key Message
	<ul style="list-style-type: none"> • Monthly Progress Report (MPR 07) for August 2020 submitted on 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 Prequalification 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 on 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 • Reply to pre-bid queries of Application for Prequalification for CP1 components on DBO basis submitted on 04.11.2020 • Monthly Progress Report (MPR 09) for October 2020 submitted on 11.11.2020 • Social Safeguard Review (Draft Report) submitted on 18.11.2020 • The tender extension notice for receiving of PQ application of CP1, the due date has been extended to 16.12.2020 instead of the original date, i.e. 01.12.2020, the details have been published by CMWSSB in the website on 26.11.2020 • 2nd reply to pre-bid queries and Addendum-1 of Application for Prequalification for CP1 components on DBO basis submitted on 27.11.2020. • Draft layout plan for CWR and PS at Porur was discussed with CMWSSB staff. Finalisation of the layout plan is under progress. • Draft Request For Proposal (RFP) has been submitted to CMWSSB on 01.12.2020, 02.12.2020 and 24.12.2020 for review. • 3rd Reply to Pre-Bid Queries and Corrigendum-1 of Application for Prequalification for CP1 was submitted on 03.12.2020 • The tender 2nd extension notice for receiving of PQ application of CP1, the due date has been further extended to 05.01.2021 instead of the original date, i.e. 01.12.2020, the details have been published by CMWSSB in the website on 06.12.2020 • Bathymetry Survey Report for Perur Desalination Plant of CP 1 was submitted on 10.12.2020 • Monthly Progress Report (MPR 10) for November 2020 was submitted on 10.12.2020 • Corrigendum-2 for Prequalification (RFQ) documents for CP 1 was submitted on 14.12.2020

Component	Key Message
	<ul style="list-style-type: none"> • Revised Topographical Survey for 400MLD DSP(CP-1) and its Pumping Station (CP-2-1) at Perur was submitted on 18.12.2020 • Response to CMWSSB on 1st comments on Particular Condition of Part A in Part III of Draft RFP for CP1 components on DBO basis was submitted on 30.12.2020 • Revised Topographical Drawing for Perur Desalination Plant (CP 1) & its Pumping station (CP2-1) was submitted on 04.01.2021 • Monthly Progress Report (MPR 11) for December 2020 (10 copies) was submitted on 08.01.2021 • Quarterly Progress report (QPR 04) for October to December 2020 (10 Copies) was submitted on 18.01.2021 • Brine Dispersion Model Report for Perur Desalination Plant (CP 1) was submitted on 18.01.2021 • Request for Proposal (RFP) document for CP 1 components on DBO Basis (Rev 1) was submitted on 21.01.2021 • Request for Proposal (RFP) document for CP 1 components on DBO Basis (Rev 2) was submitted on 25.01.2021 • Prequalification (PQ) Evaluation Report for CP 1 components on DBO Basis was submitted on 27.01.2021, and CMWSSB forwarded the report document to JICA for obtaining concurrence. • Request for Proposal (RFP) document for CP 1 components on DBO Basis (Rev 3) was submitted on 27.01.2021, and CMWSSB forwarded the RFP document to JICA for obtaining concurrence. • Monthly Progress Report (MPR 12) for January 2021 (10 copies) was submitted on 11.02.2021 • Financial Analysis Report was submitted on 12.02.2021 • Plot Plan, General Arrangement Drawings and P&ID of Proposed Pumping Station & Ground Level Reservoir at Porur (CP-2) was submitted on 19.02.2021 • Request for Proposal (RFP) document for CP 1 components on DBO Basis (Rev 3) was submitted on 19.02.2021 • Ward wise existing distribution network drawings of Area X- Kodambakkam for verification/authentication by Ward/ Depot Area Engineer was submitted on 23.02.2021 • Variation in WDS wise Demand Estimation for Chennai City Core Area was submitted on 23.02.2021 • Draft Scope of work for engagement of reputed Institutions for Continuous Coastal monitoring was submitted on 26.02.2021 • Updation of Existing Transmission System Planned to be linked to Proposed System at Velachery and Porur was submitted on 26.02.2021 • Electrical load list and Electrical Single Line Diagram for Proposed 240 MLD Porur Pumping Station has been submitted on 05.03.2021 • Monthly Progress Report (MPR 13) for February 2021 submitted on 10.03.2021 • Draft Bidding Document (RFP) (Rev.4) for CP1 component on DBO basis and Reply to JICA's Comment have been submitted to CMWSSB on 10.03.2021 for review. • Draft Bidding Document (RFP) (Rev.5) for CP1 component on DBO basis and reply to JICA's comments have been submitted to CMWSSB on 16.03.2021 for review. • Seawater Sample Analysis Report for Perur Desalination Plant (CP1) has been submitted on 18.03.2021

Component	Key Message
	<ul style="list-style-type: none"> Draft Bidding Document (RFP) (Rev.6) for CP1 component on DBO basis have been submitted to CMWSSB on 30.03.2021. Monthly Progress Report (MPR 14) for March 2021 submitted on 09.04.2021 Quarterly Progress Report (QPR 05) for January 2021 to March 2021 submitted on 15.04.2021 Draft Bidding Document (RFP) (Rev.7) for CP1 component on DBO basis and updated reply to JICA's comments have been submitted to CMWSSB on 19.04.2021. Concept Design Report (Final) for 400 MLD Desalination Plant at Perur (CP1) was submitted to CMWSSB on 23.04.2021 Ward wise existing distribution network drawings of Area XIII- Adyar for verification/authentication by Ward/ Depot Area Engineer was submitted on 26.04.2021 CP2- Plot Area Required for Proposed 240 MLD GLR and Pumping Station drawings at Porur was submitted on 30.04.2021
	<ul style="list-style-type: none"> Monthly Progressive expenditure (at actuals, i.e. based on monthly bills passed till the end of April 2021) = 803,407.24 (USD) and 32,074,726(INR) In addition to the above, 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. In addition to the above, 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. In addition to the above, 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.
	<ul style="list-style-type: none"> Monthly Progressive expenditure (Projected based on man-month consumed and reimbursable items till the end of April 2021) = 1,428,686(USD) and 67,061,252 (INR)
	<ul style="list-style-type: none"> Activities generally progressing on schedule An accelerated program being followed for CP1, which brings forward the issue of the Bidding Document to market by 4 to 5 months
	<ul style="list-style-type: none"> 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 lockdown period from 01.04.2021 to 30.04.2021 throughout Tamil Nadu.
	<ul style="list-style-type: none"> No Project site work has been commenced
	<ul style="list-style-type: none"> Progressive expenditure = Nil
Project (the Works)	<ul style="list-style-type: none"> No activities scheduled to commence as of the end of April 2021

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 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 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 lockdown period from 01.04.2021 to 30.04.2021 throughout Tamil Nadu.
8. Quick turn-round of requests with approvals (Work From Home for International Experts till 31st May 2021 due to non-availability of international flights to India) and follow up on timeline is essential to undertake the acceleration of CP1 components and regular timeline schedule for CP2 to CP4 components. Some of the national staffs are giving the intermittent input for project components due to constraints of movement should be considered for payments as requested by PMC.
9. The 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 the required digital format.
10. The topographical survey work, including establishing benchmarks for the CP4 component, commenced on 19.03.2021 and work, is in progress.
11. With the available designated key experts, it was not so easy task to work simultaneously on important activities, but you would appreciate that the staff worked continuously for the project. Considering the importance of the document and the ambitious timeline, PMC had mobilised additional staffs like project coordinator, legal expert, etc., to meet the urgency and expectations of CMWSSB.

2 ABBREVIATIONS & ACRONYMS

Abbreviation / Acronym	Meaning
BoQ	Bill of Quantity
CMWSSB	Chennai Metropolitan Water Supply and Sewerage Board
COD	Chemical Oxygen Demand
CP	Contract Package
CWR	Clear Water Reservoir
DI	Ductile Iron
DBO	Design-Build Operate
DMA	District Metered Area
DMS	Document Management System
DSP	Desalination Plant
GIS	Geographic Information System
GLR	Ground Level Reservoir
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)

Abbreviation / Acronym	Meaning
PQ	Prequalification
PS	Pumping Station
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 Fifteenth (15th) monthly progress report and covers activities of the Project Management Consultant (PMC services) and the Project (the Works) during **April 2021**.

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 Seawater 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 summarised in **Annexure 2**.

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

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

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

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

For a more comprehensive description of PMC scope of services and related works, please refer to the Inception Report, Interim Report for the development of Concept Design for Chennai 400 MLD Desalination Plant at Perur for CP1 components, Draft Environmental Impact Assessment (EIA) Review Report for CP1 components (Rev.1), Revised Prequalification document (RFQ) for CP1 on DBO basis, Concept Design Report (Final) for Chennai 400 MLD Desalination Plant at Perur for CP1 component and Review note on Product Water Transmission Main from Perur DSP to Porur WDS for CP2 components, Social Safeguard Review (Draft) Report, Draft Bidding Document for CP1 component (Rev.7) on DBO basis, Financial Analysis Report, Quarterly Progress Reports, Monthly Progress Reports for the Project.

4 PROGRESS REPORT FOR PMC SERVICES

4.1 Achieved Activities – April 2021

The activities achieved during April 2021 are listed in Table 3.

Table 3: Achieved Activities – April 2021

Package	Achieved Activities
CP1	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 <ul style="list-style-type: none"> Carried out the Topographical Surveys at Perur Desalination Plant from 19.08.2020 to 07.09.2020 and 01.12.2020 and 02.12.2020 Topographical Survey revised drawing for 400MLD DSP (CP-1) and its Pumping Station (CP-2-1) at Perur was submitted on 18.12.2020 Carried out the Bathymetry Survey fieldwork at Perur DSP site from 24.08.2020 to 28.08.2020 Bathymetry Survey report for Perur Desalination Plant of CP1 has been submitted to CMWSSB on 10.12.2020 Carried out Seawater Sample Collection at Perur and Nemmeli DSP on 29.08.2020 Carried out Seawater Sample Collection at Nemmeli DSP on 14.12.2020 Carried out the Brine Diffusion Modelling study during September 2020 Preparation of Terms of Reference for Geotechnical Investigation for Pumping Station (CP2-1) at Perur Brine Dispersion Model Report for Perur Desalination Plant (CP1) was submitted on 18.01.2021 Seawater Sample Analysis Report for Perur Desalination Plant (CP1) has been submitted on 18.03.2021
	Task 4: Concept Design of Perur Desalination Plant has been submitted with design calculations based on the available existing data <ul style="list-style-type: none"> Interim report for the development of Concept Designs for Chennai Perur 400 MLD Desalination Plant for CP1 components submitted to CMWSSB on 23.04.2020. Online Zoom Video conference call and discussion with CMWSSB officials on 30.04.2020 for the Interim Report for the development of Concept Design for Chennai Perur 400 MLD Desalination Plant for CP1 components. Online Zoom Video conference call and discussion with CE (O&M)–II CMWSSB officials on 26.05.2020 for the progress of the consultancy work and technical discussion for CP1 to CP4 components. Preparation of proposed sludge treatment facility at Perur, RO Configuration – Conventional Design and RO Configuration – 3 Centre Design. Preparation and submission of sludge treatment process design, detail notes on 3 Centre or Pressure Centre Design. Preparation and submission of Mass Balance and Process Flow Diagram (Peak Flow and Normal Flow). Preparation of Summary of Revised Design Raw Seawater Quality Parameters, Summary of 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.

Package	Achieved Activities
	<ul style="list-style-type: none"> Preparation of Operation & Maintenance (O&M) Cost, Minimum Functioning Specifications etc. Online MS Teams meeting and discussion with Chief 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.
	<p>Task 5: Submission of Concept Design Report:</p> <ul style="list-style-type: none"> 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 Preparation of Process Flow Diagram, critical control point review, Automation & Control strategy (OCM) document etc. Concept Design Report (Final) for 400 MLD Desalination Plant at Perur (CP1) was submitted to CMWSSB on 23.04.2021
	<p>Task 6: Preparation of Technical Specifications:</p> <ul style="list-style-type: none"> Preparation of Technical Specifications including Civil works, Mechanical works, Instrumentation works etc. Preparation of Automation and Control strategy, DCS Architectural plan, Instrumentation and Control MFS Preparation of MFS consolidated circulation, technical schedule data gathering, finalisation of technical schedule, billing system analysis etc.
	<p>Task 7: Financial Analysis</p> <ul style="list-style-type: none"> Financial Analysis Report was submitted on 12.02.2021
	<p>Task 8: Preparation of O&M requirements for Bid Document</p> <ul style="list-style-type: none"> Preparation of O&M requirements for Bid Document
	<p>Task 9: Revised Request for Qualification (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 document on 05.06.2020.</p> <ul style="list-style-type: none"> 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 document 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 the Prequalification document for CP1 on DBO basis. <p>After review, CMWSSB has sent the RFQ to JICA for concurrence. 2nd comments received from JICA on PQ documents on 13.08.2020.</p> <ul style="list-style-type: none"> Responses to JICA 2nd comments and Revised Prequalification documents (RFQ) for CP1 on DBO basis submitted to CMWSSB on 17.08.2020. <p>After review, CMWSSB has sent the RFQ to JICA for concurrence. 3rd comments received from JICA on PQ documents on 05.09.2020.</p> <ul style="list-style-type: none"> Responses to JICA 3rd comments and Revised Prequalification document (RFQ) for CP1 on DBO basis submitted to CMWSSB on 08.09.2020. <p>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.</p>

Package	Achieved Activities
	<ul style="list-style-type: none"> ▪ Revised Prequalification document (RFQ) for CP1 on DBO basis as per JICA 4th comments submitted to CMWSSB on 23.09.2020. <p>After review, JICA has given final concurrence to CMWSSB regarding the Revised Prequalification document (RFQ) for CP1 on DBO basis on 30.09.2020.</p> <ul style="list-style-type: none"> • 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 the Newspaper on 14.10.2020. • Prequalification (PQ) Application meeting for CP1 component on DBO basis held at CMWSSB on 29.10.2020 • Reply to pre-bid queries of Application for Prequalification for CP1 component on DBO basis submitted on 04.11.2020 • The tender extension notice for receiving of PQ application of CP1, the due date has been extended to 16.12.2020 instead of the original date, i.e. 01.12.2020, the details have been published by CMWSSB in the website on 26.11.2020 • 2nd reply to pre-bid queries and Addendum-1 of Application for Prequalification for CP1 components on DBO basis submitted on 27.11.2020 • 3rd reply to Pre-bid queries and Corrigendum-1 of Application for Prequalification for CP1 was submitted on 03.12.2020 • The tender 2nd extension notice for receiving of PQ application of CP1, the due date has been further extended to 05.01.2021 instead of the original date, i.e. 01.12.2020, the details have been published by CMWSSB in the website on 06.12.2020 • Corrigendum-2 for Prequalification documents for CP 1 was submitted on 14.12.2020 • Addendum-II for Prequalification (PQ) document was published by CMWSSB on 23.12.2020 • Instructions for Online Submission in Tamil Nadu Government e-procurement portal – Corrigendum II for Prequalification (PQ) document was published by CMWSSB on 23.12.2020 • Addendum III for Prequalification (PQ) document was published by CMWSSB on 31.12.2020 • Prequalification (PQ) Application for CP1 submission was held at CMWSSB on 05.01.2021 at 15:00 hours, and the opening was held at CMWSSB on 05.01.2021 at 15:30 hours • Prequalification (PQ) Application for CP1 received from 4 Applicants on 05.01.2021 • Evaluation of Prequalification (PQ) Application for CP1 was carried out by PMC team from 06.01.2021 to 27.01.2021 • Evaluation Report for Prequalification (PQ) Application for CP1 was submitted to CMWSSB on 27.01.2021, and CMWSB forwarded the Evaluation Report of PQ Applications to JICA for obtaining concurrence. • CMWSSB has obtained the concurrence from JICA on the Report on the Evaluation of Prequalification (PQ) Applications for CP1 on 11.02.2021.
	<p>Task 10: Preparation of Bidding Document</p> <p>Preparation of Request for Proposal [RFP] Document comprises of following volumes:</p> <ul style="list-style-type: none"> ▪ Part I (Bidding Procedures) of Draft Request For Proposal (RFP) for CP1 components ▪ Part II – Employer's Requirements (3 Volumes) ▪ Part III – Conditions of Contract and Contract Forms ▪ Part IV – Price Schedule <p>Draft Request For Proposal (RFP) for CP1 component on DBO basis have been submitted to CMWSSB on 01.12.2020, 02.12.2020 and 24.12.2020 for review.</p>

Package	Achieved Activities
	<ul style="list-style-type: none"> ▪ Presentation on Part-II (Employer's Requirements) of Draft Request For Proposal (RFP) for CP1 component on DBO basis had been held at CMWSSB and MS Teams meeting on 15.12.2020 ▪ Presentation on Part-I (Bidding Procedures), Part III – Conditions of Contract and Contract Forms of Draft Request For Proposal (RFP) for CP1 component on DBO basis been held at CMWSSB and MS Teams meeting on 18.12.2020 ▪ Queries received from CMWSSB on Draft RFP for CP1 component on DBO basis on 24.12.2020 ▪ Response to CMWSSB on 1st comments on Particular Condition of Part A in Part III of Draft RFP for CP1 component on DBO basis was submitted on 30.12.2020 ▪ Joint discussion for review of RFP document for CP1 held with CMWSSB officials from 06.01.2021 to 27.01.2021. <p>Draft Request For Proposal (RFP) (Rev.1) for CP1 component on DBO basis have been submitted to CMWSSB on 21.01.2021 for review.</p> <p>Draft Request For Proposal (RFP) (Rev.2) for CP1 component on DBO basis have been submitted to CMWSSB on 25.01.2021 for review.</p> <p>Draft Request For Proposal (RFP) (Rev.3) for CP1 component on DBO basis have been submitted to CMWSSB on 27.01.2021 for review, and CMWSB forwarded the RFP document to JICA for obtaining concurrence.</p> <p>After review, JICA has provided the comments on Part-I & Part-III of the Draft RFP document for CP1 on 25.02.2021</p> <p>Draft Bidding Document (Rev.4) for CP1 component on DBO basis and Reply to JICA's Comments have been submitted to CMWSSB on 10.03.2021 for review.</p> <p>Draft Bidding Document (Rev.5) for CP1 component on DBO basis and reply to JICA's comments have been submitted to CMWSSB on 16.03.2021 for review.</p> <ul style="list-style-type: none"> ▪ Meeting at 1st floor conference hall of CMWSSB and Online Microsoft Teams Meeting with Chief Engineer (Project-II) and Chief Engineer Project -III) and CMWSSB officials on 25.03.2021 for a discussion on the responses for JICA's comments on Bidding Documents for CP1 component on DBO basis. <p>Draft Bidding Document (Rev.6) for CP1 component on DBO basis have been submitted to CMWSSB on 30.03.2021.</p> <ul style="list-style-type: none"> ▪ Meeting at 1st floor conference hall of CMWSSB and Online Microsoft Teams Meeting with Chief Development Operations (JICA) and CMWSSB officials on 30.03.2021 for a discussion on the responses for JICA's comments on Bidding Documents for CP1 component on DBO basis. <p>Draft Bidding Document (Rev.7) for CP1 component on DBO basis and updated reply to JICA's comments have been submitted to CMWSSB on 19.04.2021.</p>
CP2	<p>Task 1: Data and information collection commenced</p> <ul style="list-style-type: none"> ▪ Review of DPR on JICA documents, DPRs, Master Plan ▪ For CP2: Site visit to Porur, Mount-Poonamalle depot office for obtaining the details about Chembarambakkam 2000mm diameter pipeline and identify interconnected pipeline with valves opposite to Porur lake CMWSSB pumping station office. ▪ For CP2: Site visit to Porur, Mount-Poonamalle depot office for getting details from Porur existing WDS 1500mm diameter pipeline and identify interconnected pipeline with valve in Porur Samayapuram road junction.

Package	Achieved Activities
	<p>Task 2: Review of technical information commenced (checking of the hydraulic design of the transmission system based on the available data)</p> <ul style="list-style-type: none"> 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. <p>Task 3: Conducting Surveys and Investigations</p> <ul style="list-style-type: none"> 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 Topographical survey revised drawing for allocation of land for Proposed UGT and Pumping Station (CP2-2) at Porur WDS submitted on 11.11.2020 Draft layout plan for CWR and PS at Porur was discussed with CMWSSB staff. Finalisation of the layout plan is under progress. Site Visit to Puzhal, Chembarambakkam WTP, Porur HW and other CMWSSB area./ Depot office to collect the various transmission main details. Please refer to Table 10 for details of site visits and data collection made. Specification for the geotechnical survey is under progress Site visit to Porur, Mount-Poonamalle depot office (CMWSSB) for obtaining the details about Chembarambakkam 2000mm diameter pipeline and identify interconnected pipeline with valves opposite to Porur lake CMWSSB pumping station office. Site visit to Porur, Mount-Poonamalle depot office for getting details from Porur existing WDS 1500mm diameter pipeline and identify interconnected pipeline with valve in Porur Samayapuram road junction. CP-2, Site visit to Chembarambakkam WTP and to collect the pump details from AE (CMWSSB) and Plant maintenance manager Updation of Existing Transmission System Planned to be linked to Proposed System at Velachery and Porur was submitted on 26.02.2021. Data digitisation of Pallipattu WDS connecting transmission main from Alandur Data digitisation of Mylapore & Nandanam connecting transmission main from Kotturpuram tapping point and support with design works applied extra flow in 530mld transmission main. Data digitisation of 2000mm transmission line from Saveetha college tapping point to end cap near Koyambedu Rohini theatre and support with design works. Site visit to Choolaimedu WDS and Area office VIII for getting details of valves in Choolaimedu bridge to link with 300 MLD transmission main from AEE (CMWSSB). Digitisation of 530MLD and 100 MLD existing system of transmission lines. Feeder main data verified in depot 177 to 179 with AE (CMWSSB) Work order issued to sub-consultancy for carrying out the Geotechnical Investigation work at Porur and Perur WDS site on 29th April 2021. <p>Task 4: Detailed Design of the Reservoirs and Pumping Station</p> <ul style="list-style-type: none"> Plot Plan, General Arrangement Drawings and P&ID of Proposed Pumping Station & Ground Level Reservoir at Porur (CP-2) was submitted on 19.02.2021 Electrical load list and Electrical Single Line Diagram for Proposed 240 MLD Porur Pumping Station has been submitted on 05.03.2021 CP2- Plot Area Required for Proposed 240 MLD GLR and Pumping Station drawings at Porur was submitted on 30.04.2021 Provided the details of difference in cost estimate for 11 kVA and 3.3 kVA for the Pumping Station indicating that 3.3 kVA is costlier than 11 kVA.

Package	Achieved Activities
CP3	No significant activities have been carried out during this period
CP4	<p>Task 1: Reconnaissance Survey, Data and information collection commenced (JICA documents, Master Plan- Area X and XIII on top priority for world banking funding purpose</p> <ul style="list-style-type: none"> Visit 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 depot engineers of 131 & 137 for distribution network details Site Visit to Zone X and Data collection: Wards 128, 129, 131, 132, 137 to 140, 142) Site visit and data collection for Ward 105 to 109, 112, 117, 127, 130, 133 to 136, 141 from Deputy Area Engineer, Assistant Engineer (CMWSSB) from 02.11.2020 to 20.11.2020 Site visit and pipeline data collection of Zone XIII: wards 170 to,175,179 and 181 during the month of December 2020 Site Visit, Data collection and modelling activities for CP4 components during January 2021 Visit to Southern Headworks and Choolaimedu to get the command area details under WDZ Visit to KK Nagar, Pallipattu and Nandanam WDZ to get the command area details under each WDZ Site Visit and Data collection of Zone XIII wards 176, 178 and 181 Pipeline network Visit to depots and collection of latest distribution network drawings of Administrative Zone IX (all the Depots except Depot 120,124,125 and 126) <p>Task 2: Review and Analysis of Data</p> <ul style="list-style-type: none"> Review of salient details and existing water distribution network drawings collected for CP4 components and identification of gaps in the available data Digitalisation of pipeline inventory data collected for wards 128, 132, 137 and 139 Digitalisation of pipeline inventory data collected for wards 127,129,131,138,140, and 142 in November 2020 Preparation of Water Distribution network modelling for a total of 33km (Ward 127) from 23.11.2020 to 30.11.2020 Modelling activity of ward no. 127 for a length of 33km during Dec 2020 Modelling activity of all wards of KK Nagar WDS, i.e., 128,129, 131,132,137 to 140, 142 of Zone X and 179 of Zone XIII in the month of December 2020 Verification and correction/ updating of the WaterGEM model (prepared based on pipeline inventory data collected from Depot Engineer) for wards 132,138 to 140 & 142 of Zone X in Dec'2020 after discussions with respective Area/Depot Engineers Modelling activity of Zone XIII for a length of 282Km covering wards 171 to 174, 177, 179 and 182 in the month of Jan'2021 Modelling activity of Zone X for length of 88km covering wards 130,136 and 141 for a length of 88 km in the month of Jan'2021 Verification of modelled pipeline network of zone X wards 127, 128,131,136,137, 141 and 142 with respective area/ward engineers in the month of Jan 2021 Site visit to depot 127, 129, 130, 132 to 135 and 138 to 140 for getting details of priority to replacement & strengthening of pipes and condition assessment locations of pipes from concerned Engineers of CMWSSB. Area XIII: Adyar Zone, Ward 171 distribution network 10km length of modelling completed, Ward 170 water distribution network 48km length of modelling completed and Ward 174 water distribution network of 29km length of modelling completed.

Package	Achieved Activities
	<ul style="list-style-type: none"> Land use map preparation of ward No. 122, 138 to 140, 142 and 170 to 182. Classification of land use and preparation of area sheet. Digitisation & modelling of zone X existing distribution system with present updation. Submission of Ward wise existing distribution network drawings of Area X- Kodambakkam for verification/authentication by Ward/ Depot Area Engineer. Submission of WDS wise demand variation details of Chennai Core city considered in JICA/Master Plan report and projected based on ward wise population details received from CMWSSB. Digitisation & modelling of zone 13 existing distribution system with present updation. Completion of the preparation of updated existing ward wise network drawings of Admin zone XIII Ward wise existing distribution network drawings of Area XIII- Adyar for verification/authentication by Ward/ Depot Area Engineer was submitted on 26.04.2021 Conversion of available non-scale distribution drawings of Zone IX to scale with pipeline alignment Modelling activity of 6 wards (109,110 111, 112, 114 and 115) of Zone IX for a length of 153km
	<p>Task 3: Conducting Surveys and Investigations</p> <ul style="list-style-type: none"> The topographical survey work for the CP4 component commenced on 19.03.2021, and work is in progress.
	Task 4: Detailed Design of the Improvement of the Existing Water Distribution System CP4
CP5	Visit to Perur for common electrical substation for topographical survey work for CP-5
General	<ul style="list-style-type: none"> Monthly Progress Report (MPR 14) for March 2021 submitted on 09.04.2021 Quarterly Progress Report (QPR 05) for January to March 2021 submitted on 15.04.2021 <p>Draft Environmental Impact Assessment (EIA) Review Report for CP1 components submitted to CMWSSB on 26.05.2020</p> <ul style="list-style-type: none"> 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 component. Action Taken Report/clarification on the Draft Environmental Impact Assessment (EIA) Review Report for CP1 submitted to CMWSSB on 12.08.2020 <p>Draft Environmental Impact Assessment (EIA) Review Report for CP1 and CP2-1 components (Rev-1) submitted to CMWSSB on 23.09.2020</p> <ul style="list-style-type: none"> Social Safeguard Review (Draft Report) submitted on 18.11.2020 Draft Scope of work for Engagement of Reputed Institutions for continuous Coastal monitoring was submitted on 26.02.2021 <p>Environmental and Social support activities commenced, including documentation review and approvals planning</p>

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

4.2 Deliverables Status in April 2021

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

Sl. No.	Report / Document	Tentative Date / Frequency / Status **
1	Inception Report	Inception Report submitted on 28.02.2020 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 Report for Chennai Perur 400 MLD Desalination Plant for CP1 submitted on 10.07.2020 Bathymetry Survey report for Perur Desalination Plant of CP1 has been submitted to CMWSSB on 10.12.2020 Brine Dispersion Model Report for Perur Desalination Plant (CP 1) was submitted on 18.01.2021 Financial Analysis Report was submitted to CMWSSB on 12.02.2021 Seawater Sample Analysis Report for Perur Desalination Plant (CP1) has been submitted on 18.03.2021 Concept Design Report (Final) for 400 MLD Desalination Plant at Perur (CP1) submitted on 23.04.2021
	2.2 PQ Document	Draft PQ document for CP1 components submitted on 24.02.2020 Revised PQ document for CP1 components have been submitted on 03.03.2020, 06.03.2020 for client review and sent to JICA for Concurrence for floating of the tender 1 st comments received from JICA on PQ documents on 05.06.2020. Responses to JICA comments and Revised Prequalification document (RFQ) have been submitted to CMWSSB on 24.06.2020 2 nd comments received from JICA on PQ documents on 13.08.2020. Responses to JICA 2 nd comments and Revised Prequalification document (RFQ) on DBO basis have been submitted to CMWSSB on 17.08.2020 3 rd comments received from JICA on the PQ document on 05.09.2020.

Sl. No.	Report / Document	Tentative Date / Frequency / Status **
		<p>Responses to JICA 3rd comments and Revised Prequalification document (RFQ) on DBO basis have been submitted to CMWSSB on 08.09.2020</p> <p>4th comments have been received from JICA on PQ documents on 23.09.2020.</p> <p>Revised Prequalification document (RFQ) as per JICA 4th comments have been submitted to CMWSSB on 23.09.2020</p> <p>JICA has given the concurrence for Prequalification document (RFQ) for CP1 on DBO basis to CMWSSB on 30.09.2020</p> <p>Final Prequalification document (RFQ) for CP1 on DBO basis have been submitted to CMWSSB on 12.10.2020</p> <p>Notice Inviting Application (NIT for RfQ) for Prequalification documents for CP1 was published in the website and published in the Newspaper on 14.10.2020.</p> <p>Prequalification (PQ) Application meeting for CP1 components on DBO basis held at CMWSSB on 29.10.2020</p>
		<p>Reply to pre-bid queries of Application for Prequalification for CP1 components on DBO basis submitted on 04.11.2020</p> <p>The tender extension notice for receiving of PQ application of CP1, the due date has been extended to 16.12.2020 instead of the original date, i.e. 01.12.2020, and the details have been published by CMWSSB in the website on 26.11.2020</p> <p>2nd reply to pre-bid queries and Addendum-1 of Application for Prequalification for CP1 on DBO basis submitted on 27.11.2020</p> <p>3rd reply to Pre-Bid Queries and Corrigendum-1 of Application for Prequalification for CP1 submitted on 03.12.2020</p> <p>The tender 2nd extension notice for receiving of PQ application of CP1, the due date has been extended to 05.01.2021 instead of the original date, i.e. 01.12.2020, and the details have been published by CMWSSB in the website on 15.12.2020</p> <p>Corrigendum-2 for Prequalification document for CP1 submitted on 14.12.2020</p> <p>Notice Inviting Tender, Prequalification document for CP1 have been uploaded by CMWSSB, and the details have been published in www.tntenders.gov.in website on 23.12.2020</p> <p>Reply to Pre-bid queries 1st set, 2nd set, 3rd set, Addendum-II and Corrigendum-II for</p>

Sl. No.	Report / Document	Tentative Date / Frequency / Status **
		<p>PQ document have been uploaded by CMWSSB, and the details have been published in www.tntenders.gov.in website on 24.12.2020</p> <p>Addendum-III for PQ document has been uploaded by CMWSSB, and the details have been published in www.tntenders.gov.in website on 31.12.2020</p> <ul style="list-style-type: none"> Prequalification (PQ) Application for CP1 submission was held at CMWSSB on 05.01.2021 at 15:00 hours, and the opening was held at CMWSSB on 05.01.2021 at 15:30 hours Prequalification (PQ) Application for CP1 received from 4 Applicants on 05.01.2021
	2.3 PQ Evaluation Report	<ul style="list-style-type: none"> Evaluation of Prequalification (PQ) Application for CP1 was carried out by PMC team from 06.01.2021 to 27.01.2021 Evaluation Report for Prequalification (PQ) Application for CP1 was submitted to CMWSSB on 27.01.2021, and CMWSSB forwarded the Evaluation Report of PQ Applications to JICA for obtaining concurrence. CMWSSB has obtained the concurrence from JICA on the Report on the Evaluation of Prequalification (PQ) Applications for CP1 on 11.02.2021.
	2.4 Bid (RFP) Document	<ul style="list-style-type: none"> Draft Request For Proposal (RFP) for CP1 component on DBO basis have been submitted to CMWSSB on 01.12.2020, 02.12.2020 and 24.12.2020 for review. Response to CMWSSB on 1st comments on Particular Condition of Part A in Part III of Draft RFP for CP1 components on DBO basis was submitted on 30.12.2020 Draft Request For Proposal (RFP) (Rev.1) for CP1 components on DBO basis have been submitted to CMWSSB on 21.01.2021 for review. Draft Request For Proposal (RFP) (Rev.2) for CP1 component on DBO basis have been submitted to CMWSSB on 25.01.2021 for review. Draft Request For Proposal (RFP) (Rev.3) for CP1 component on DBO basis was submitted to CMWSSB on 27.01.2021 for review, and CMWSSB

Sl. No.	Report / Document	Tentative Date / Frequency / Status **
		<p>forwarded the RFP document to JICA for obtaining concurrence.</p> <ul style="list-style-type: none"> Additional copy of Draft Request For Proposal (RFP) (Rev.3) for CP1 component on DBO basis was submitted to CMWSSB on 19.02.2021 for review. Received the comments from JICA on Draft RFP (Part-I & III) document for CP1 components on DBO basis on 25.02.2021. Draft Bidding Document (Rev.4) for CP1 component on DBO basis and Reply to JICA's Comment was submitted to CMWSSB on 10.03.2021 for review Draft Bidding Document (Rev.5) for CP1 component on DBO basis and reply to JICA's comments have been submitted to CMWSSB on 16.03.2021 for review. Draft Bidding Document (RFP) (Rev.6) for CP1 component on DBO basis was submitted to CMWSSB on 30.03.2021. Draft Bidding Document (Rev.7) for CP1 component on DBO basis and updated reply to JICA's comments have been submitted to CMWSSB on 19.04.2021.
	2.5 Bid Evaluation Report (Technical)	July 2021 (October 2020)
	2.6 Bid Evaluation Report (Financial)	August 2021 (December 2020)
3	For Design and Tender Assistance for CP2	
	3.1 Detailed Design Report and Drawings	<ul style="list-style-type: none"> Review note on Product Water Transmission Main from Perur DSP to Porur WDS for CP2 component was submitted on 02.07.2020 (soft copy) and 15.07.2020 (hard copies) Plot Plan, General Arrangement Drawings and P&ID of Proposed Pumping Station & Ground Level Reservoir at Porur (CP-2) was submitted on 19.02.2021 Electrical load list and Electrical Single Line Diagram for Proposed 240 MLD Porur Pumping Station was submitted on 05.03.2021 CP2- Plot Area required for Proposed 240 MLD GLR and Pumping Station drawings at Porur was submitted on 30.04.2021
		June 2021

Sl. No.	Report / Document	Tentative Date / Frequency / Status **
	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	<ul style="list-style-type: none"> Ward-wise existing water distribution network drawings of Area X-Kodambakkam for verification/ authentication by Ward/ Depot Area Engineer was submitted on 23.02.2021 Submission of WDS wise demand variation details of Chennai Core city considered in JICA/Master Plan report and projected based on ward wise population details received from CMWSSB Ward-wise existing distribution network drawings of Area XIII Adyar for verification/ authentication by Ward/ Depot Area Engineer was submitted on 26.04.2021 <p>April 2022 (December 2021)</p>
	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	<ul style="list-style-type: none"> Draft Environmental Impact Assessment (EIA) Review Report for CP1 component submitted to CMWSSB on 26.05.2020

Sl. No.	Report / Document	Tentative Date / Frequency / Status **
		<ul style="list-style-type: none"> ▪ Draft Environmental Impact Assessment (EIA) Review Report for CP1 and CP-2 components (Rev-1) have been submitted to CMWSSB on 23.09.2020 ▪ Social Safeguard Review (Draft Report) submitted on 18.11.2020 ▪ Draft Scope of work for Engagement of Reputed Institutions for continuous Coastal monitoring was submitted on 26.02.2021
	9.2 Environmental Monitoring Report	Every Month
10	Progress Report and Project Completion Report	
	10.1 Monthly Progress Report (MPR)	<ul style="list-style-type: none"> ▪ 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 ▪ 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 ▪ MPR 09 for October 2020 (10 copies) submitted on 11.11.2020 ▪ MPR 10 for November 2020 (10 copies) submitted on 10.12.2020 ▪ MPR 11 for December 2020 (10 copies) submitted on 08.01.2021 ▪ MPR 12 for January 2021 (10 copies) submitted on 11.02.2021 ▪ MPR 13 for February 2021 (10 copies) submitted on 10.03.2021 ▪ MPR 14 for March 2021 (10 copies) submitted on 09.04.2021

Sl. No.	Report / Document	Tentative Date / Frequency / Status **
	10.2 Quarterly Progress Report (QPR)	<ul style="list-style-type: none"> ▪ 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) submitted on 15.07.2020 ▪ Quarterly Progress Report (QPR 03) for July to Sep'2020 submitted on 15.10.2020 ▪ Quarterly Progress Report (QPR 04) for October to Dec'2020 submitted on 18.01.2021 ▪ Quarterly Progress Report (QPR 05) for January 2021 to March 2021 submitted on 15.04.2021
	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 the 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 RFQ and consequently the RFP for CP1. 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 on intermittent input basis) 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 PMC 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 28th September 2020 to CMWSSB for review and consideration. The request letter has been submitted to CMWSSB for the approval from 01st February 2021 to 31st May 2021 regarding the Work From Home due to COVID-19 pandemic across the world.

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

4.3 Actual Progress versus Planned Progress – Upto April 2021

The Actual progress during the month up to April 2021 is with planned progress is furnished in Table 5.

Table 5: Actual Progress vs Planned Progress

Sl.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 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.
3	Revised PQ document for CP1	03.03.2020	03.03.2020	
		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	
5	Revised Inception Report	04.04.2020	04.04.2020	
		16.04.2020	16.04.2020	
6	Revised Monthly Progress Report (MPR 01) for January 2020 & February 2020	06.04.2020	06.04.2020	
		14.04.2020	14.04.2020	
7	Monthly Progress Report (MPR 02) for March 2020	26.05.2020	26.05.2020	Hard copies submitted
		17.04.2020	17.04.2020	
8	Interim report for the development of Concept Designs for Chennai Perur 400 MLD Desalination Plant for CP1 component	23.04.2020	23.04.2020	Hard copies submitted
		26.05.2020	26.05.2020	
9	Quarterly Progress Report (QPR 01) for January 2020 to March 2020	24.04.2020	24.04.2020	
		22.05.2020	22.05.2020	Hard copies submitted
10	Monthly Progress Report (MPR 03) for April 2020	10.05.2020	09.05.2020	
		10.05.2020	22.05.2020	Hard copies submitted
11	Draft Environmental Impact Assessment (EIA) Review Report for CP1 components	20.04.2020	24.05.2020 (soft copy)	Delay has happened for the Environmental data collection from CMWSSB (Due to COVID-19 pandemic issues across the globe and continuous lockdown in India). Accordingly, submission has been made.
		20.04.2020	26.05.2020	Hard copies submitted

Sl.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
12	Monthly Progress Report (MPR 04) for May 2020	10.06.2020	10.06.2020	
		10.06.2020	11.06.2020	Hard copies submitted
13	Revised PQ document for CP1	24.06.2020	24.06.2020	Responses to JICA 1 st comments and Revised Prequalification document (RFQ) for CP1 on DBO basis submitted to CMWSSB (Hard copies submitted)
14	Monthly Progress Report (MPR 05) for June 2020	10.07.2020	10.07.2020	
		10.07.2020	13.07.2020	Hard copies submitted
15	Concept Design Report for Chennai Perur 400MLD Desalination Plant for CP1 component	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.
16	Review note on Product Water Transmission Main from Perur DSP to Porur WDS for CP2 component	02.07.2020	02.07.2020	Soft copy submitted
		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 component (Rev-1)	23.09.2020	23.09.2020	Hard copies submitted

Sl.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 component on DBO basis held at CMWSSB	29.10.2020	29.10.2020	
30	Reply to pre-bid queries of Application for Prequalification for CP1 component on DBO basis	04.11.2020	04.11.2020	Hard copy submitted
31	Monthly Progress Report (MPR 09) for October 2020	10.11.2020	11.11.2020	Hard copies submitted
32	Social Safeguard Review (Draft Report)	18.11.2020	18.11.2020	Hard copies submitted
33	The tender extension notice for receiving of PQ application of CP1, the due date has been extended to 16.12.2020 instead of the original date, i.e. 01.12.2020, the details have been published by CMWSSB on the website	26.11.2020	26.11.2020	Published by CMWSSB

Sl.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
34	2 nd reply to pre-bid queries and Addendum-1 of Application for Prequalification for CP1 component on DBO basis	27.11.2020	27.11.2020	Hard copy submitted
35	Draft Request for Proposal (RFP) for CP 1 component on DBO basis	01.12.2020	01.12.2020	Hard copy submitted
		02.12.2020	02.12.2020	Hard copies submitted
		24.12.2020	24.12.2020	Hard copy submitted
36	3 rd Reply to Pre-Bid Queries and Corrigendum-1 of Application for Prequalification for CP1	02.12.2020	03.12.2020	Hard copy submitted
37	Bathymetry Survey Report for Perur Desalination Plant (CP 1)	09.12.2020	10.12.2020	Hard copy submitted
38	Monthly Progress Report (MPR 10) for November 2020	10.12.2020	10.12.2020	Hard copy submitted
39	Corrigendum-2 for Prequalification (RFQ) document for CP 1	11.12.2020	14.12.2020	Hard copy submitted
40	Revised Topographical Survey for 400MLD DSP (CP-1) and its Pumping Station (CP-2-1) at Perur	17.12.2020	18.12.2020	Hard copy submitted
41	Response to CMWSSB on 1 st comments on Particular Condition of Part A in Part III of Draft RFP for CP1 on DBO basis	30.12.2020	30.12.2020	Soft copy submitted to CMWSSB
42	Revised Topographical Survey Drawing for 400 MLD DSP (CP-1) and its Pumping Station (CP-2-1) at Perur	04.01.2021	04.01.2021	Hard copies submitted
43	MPR 11 for December 2020 (10 copies) submitted on 08.01.2021	10.01.2021	08.01.2021	Hard copies submitted
44	Quarterly Progress Report (QPR 04) for October to December 2020	18.01.2021	18.01.2021	Hard copies submitted
46	Report on Brine Dispersion Model for Perur Desalination Plant (CP1) has been submitted to CMWSSB	18.01.2021	18.01.2021	Hard copies submitted

Sl.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
47	Draft Request For Proposal (RFP) (Rev.1) for CP1 on DBO basis have been submitted to CMWSSB	21.01.2021	21.01.2021	Hard copy and soft copy submitted
48	Draft Request For Proposal (RFP) (Rev.2) for CP1 component on DBO basis have been submitted to CMWSSB	25.01.2021	25.01.2021	Hard copy and soft copy submitted
49	Draft Request For Proposal (RFP) (Rev.3) for CP1 was submitted to CMWSSB for review and CMWSSB forwarded the RFP document to JICA for obtaining concurrence.	Feb'2021	27.01.2021	Hard copy and soft copy submitted
50	Evaluation Report for Prequalification (PQ) Application for CP1 was submitted to CMWSSB and CMWSSB forwarded the Evaluation Report of PQ Applications to JICA for obtaining concurrence.	Feb'2021	27.01.2021	Hard copy submitted
51	Monthly Progress Report (MPR 12) for January 2021	11.02.2021	11.02.2021	Hard copy submitted
52	Financial Analysis Report of CP 1	12.02.2021	12.02.2021	Hard copy submitted
53	Plot Plan, General Arrangement Drawings and P&ID of Proposed Pumping Station & Ground Level Reservoir at Porur(CP-2)	19.02.2021	19.02.2021	Hard copy submitted
54	Ward wise existing distribution network drawings of Area X- Kodambakkam for verification/authentication by Ward/ Depot Area Engineers	In February 2021	23.02.2021	Hard copy submitted
55	Submission of WDS wise demand variation details of Chennai Core city considered in JICA/ Master Plan report and projected based on ward wise population details received from CMWSSB		23.02.2021	Hard copy submitted

Sl.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
56	Updation of Existing Transmission System Planned to be linked to Proposed System at Velachery and Porur		26.02.2021	Hard copy submitted
57	Electrical load list and Electrical Single Line Diagram for Proposed 240 MLD Porur Pumping Station	05.03.2021	05.03.2021	Hard copy submitted
58	Monthly Progress Report (MPR 13) for Feb'2021	10.03.2021	10.03.2021	Hard copy submitted
59	Draft Bidding Document (Rev.4) for CP1 on DBO basis and reply to JICA's Comment	10.03.2021	10.03.2021	Hard copy submitted
60	Draft Bidding Document (Rev.5) for CP1 on DBO basis and reply to JICA's Comment	16.03.2021	16.03.2021	Hard copy submitted
61	Seawater Sample Analysis Report for Perur Desalination Plant (CP1)	18.03.2021	18.03.2021	Hard copy submitted
62	Draft Bidding Document (Rev.6) for CP1 component on DBO	30.03.2021	30.03.2021	Hard copy submitted
63	Monthly Progress Report (MPR 14) for March 2021	10.04.2021	09.04.2021	Hard copy submitted
64	Quarterly Progress Report (QPR 05) for January to March 2021	15.04.2021	15.04.2021	Hard copy submitted
65	Draft Bidding Document (Rev.7) for CP1 on DBO basis and reply to JICA's Comment	19.04.2021	19.04.2021	Hard copy submitted
66	Concept Design Report (Final) for 400 MLD Desalination Plant at Perur	23.04.2021	23.04.2021	Soft copy submitted
67	Ward wise existing distribution network drawings of Area XIII-Adyar for verification/ authentication by Ward/ Depot Area Engineer	26.04.2021	26.04.2021	Hard copy submitted
68	Concept Design Report (Final) for 400 MLD Desalination Plant at Perur	26.04.2021	27.04.2021	Hard copy submitted
69	CP2- Plot Area required for Proposed 240 MLD GLR and Pumping Station drawings at Porur	29.04.2021	30.04.2021	Hard copy submitted

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

4.4 Financial Progress Upto April 2021

The Contract Value for the PMC assignment is furnished in the below Table :

Sl. No.	Name of the Participant	Role of the Member	Ceiling Amount of each Firm	
			Foreign Currency (USD)	Local Currency (INR)
1	SMEC International Pty Ltd	Lead Member	6,510,243	Nil
2	TATA Consulting Engineers Ltd.	Consortium Member	324,480	258,500,000
3	NJS Engineers India Pvt. Ltd.	Consortium Member	1,235,600	159,580,000
4	SMEC India Pvt. Ltd.	Consortium Member	869,642	111,020,600
	Total =		8,939,965	529,100,600
	Contingencies @ 5%		446,998	26,455,030
	Total with Contingencies (A)		9,386,963	555,555,630
	Provisional sum (B)		25,000	20,000,000
	Grand Total (A+B)		9,411,963	575,555,630

The summary of the above fee breakdown for each firm of PMC Services is furnished below:

Name of the Participant	Remuneration		Reimbursable		Total Amount	
	USD	INR	USD	INR	USD	INR
SMEC International Pty Ltd	6,390,243	-	120,000	-	6,510,243	-
TATA Consulting Engineers Ltd.	324,480	247,500,000	-	11,000,000	324,480	258,500,000
NJS Engineers India Pvt. Ltd.	1,205,600	147,980,000	30,000	11,600,000	1,235,600	159,580,000
SMEC India Pvt. Ltd.	869,642	72,324,600	-	38,696,000	869,642	111,020,600
Total Amount					8,939,965	529,100,600

Note: Above breakup covers remuneration and reimbursable and does not include contingencies and provisional sums.

The details of payment received / advice from CMWSSB for the PMC Services Contract at the end of April 2021 is furnished below:

Name of the firm	Month	Monthly Invoice Amount recommended by CMWSSB		Date of receipt of payment
		USD	INR	
SMEC International Pty Ltd	Jan' to June 2020	321,238		29.10.2020
	July to Nov'2020	188,793.74		15.03.2021
SMEC India Pvt. Ltd.	Jan' to June 2020		8,606,746	22.10.2020
	July to Nov'2020		6,665,393	09.03.2021
	Jan' to Nov'2020	61,392.74		15.03.2021
TATA Consulting Engineers Ltd.	Jan' to June 2020		6,323,037	22.10.2020
	July to Nov'2020		6,718,659	09.03.2021
	Jan' to Nov'2020	10,998.00		31.03.2021
NJS Engineers India Pvt. Ltd.	Feb' to June 2020	88,116		30.10.2020
	Feb' to June 2020		542,300	06.11.2020
	July to Nov'2020		3,218,591	09.03.2021
		132,868.76		23.03.2021 to 06.04.2021
TOTAL		803,407.24	32,074,726	

A summary of financial progress (at actual based on the bill passed) for the PMC Services Contract at the end of April 2021 is included in Table 6.

Table 6: Financial Progress (Actual based on the bill passed) on PMC Services at the end of April 2021

Month	Monthly Expenditure	Cumulative Expenditure	% of Total Contract Value
January 2020 to June 2020 *	INR 15,472,083	INR 15,472,083	2.69%
	USD 409,354	USD 409,354	4.35%
July 2020 to November 2020 **	INR 16,602,643	INR 32,074,726	5.57%
	USD 394,053.24	USD 803,407.24	8.54%
December 2020	INR 0	INR 32,074,726	5.57%
	USD 0	USD 803,407.24	8.54%
January 2021	INR 0	INR 32,074,726	5.57%
	USD 0	USD 803,407.24	8.54%
February 2021	INR 0	INR 32,074,726	5.57%
	USD 0	USD 803,407.24	8.54%
March 2021	INR 0	INR 32,074,726	5.57%
	USD 0	USD 803,407.24	8.54%
April 2021	INR 0	INR 32,074,726	5.57%
	USD 0	USD 803,407.24	8.54%

* In addition to the above, 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.

** In addition to the above, 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.

** In addition to the above, 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.

The summary of financial progress (projected based on man-month consumed and reimbursable items) for the PMC Services Contract at the end of April 2021 is included in Table 7. For further details, please refer to **Annexure 5**.

Table 7: Financial Progress (Projected based on man-month consumed and reimbursable items) on PMC Services at the end of April 2021

Month	Monthly Expenditure	Cumulative Expenditure	% of Total Contract Value
January 2020	INR 1,077,836	INR 1,077,836	0.18%
	USD 56,098	USD 56,098	0.60%
February 2020	INR 2,581,997	INR 3,659,833	0.62%
	USD 112,801	USD 168,899	1.79%
March 2020	INR 3,831,393	INR 7,491,226	1.30%
	USD 56,261	USD 225,159	2.39%
April 2020	INR 2,226,340	INR 9,717,566	1.69%
	USD 90,351	USD 315,518	3.35%
May 2020	INR 2,329,743	INR 1,20,47,309	2.09%
	USD 60,913	USD 376,431	4.00%
June 2020	INR 4,221,118	INR 16,268,427	2.83%
	USD 88,100	USD 464,532	4.94%
July 2020	INR 3,052,922	INR 18,536,918	3.22%
	USD 67,841	USD 532,374	5.66%
August 2020	INR 1,618,166	INR 20,114,190	3.49%
	USD 63,232	USD 595,604	6.33%
September 2020	INR 2,419,135	INR 22,503,011	3.91%
	USD 66,287	USD 661,889	7.03%
October 2020	INR 4,244,625	INR 26,747,636	4.65%
	USD 70,882	USD 732,772	7.79%
November 2020	INR 5,291,851	INR 32,162,512	5.59%
	USD 125,532	USD 858,303	9.12%
December 2020	INR 7,003,319	INR 38,865,821	6.75%
	USD 105,855	USD 964,134	10.24%
January 2021	INR 6,877,174	INR 45,737,995	7.95%
	USD 133,455	USD 1,097,043	11.66%
February 2021	INR 7,482,707	INR 53,520,701	9.30%
	USD 134,732	USD 1,231,775	13.09%
March 2021	INR 7,750,196	INR 61,210,898	10.64%
	USD 113,913	USD 1,345,687	14.30%
April 2021	INR 5,850,354	INR 67,061,252	11.65%
	USD 82,995	USD 1,428,686	15.18%

Financial Progress details (Local Currency in INR): Expenditure by PMC Vs Payment received from CMWSSB is furnished in Figure 1.

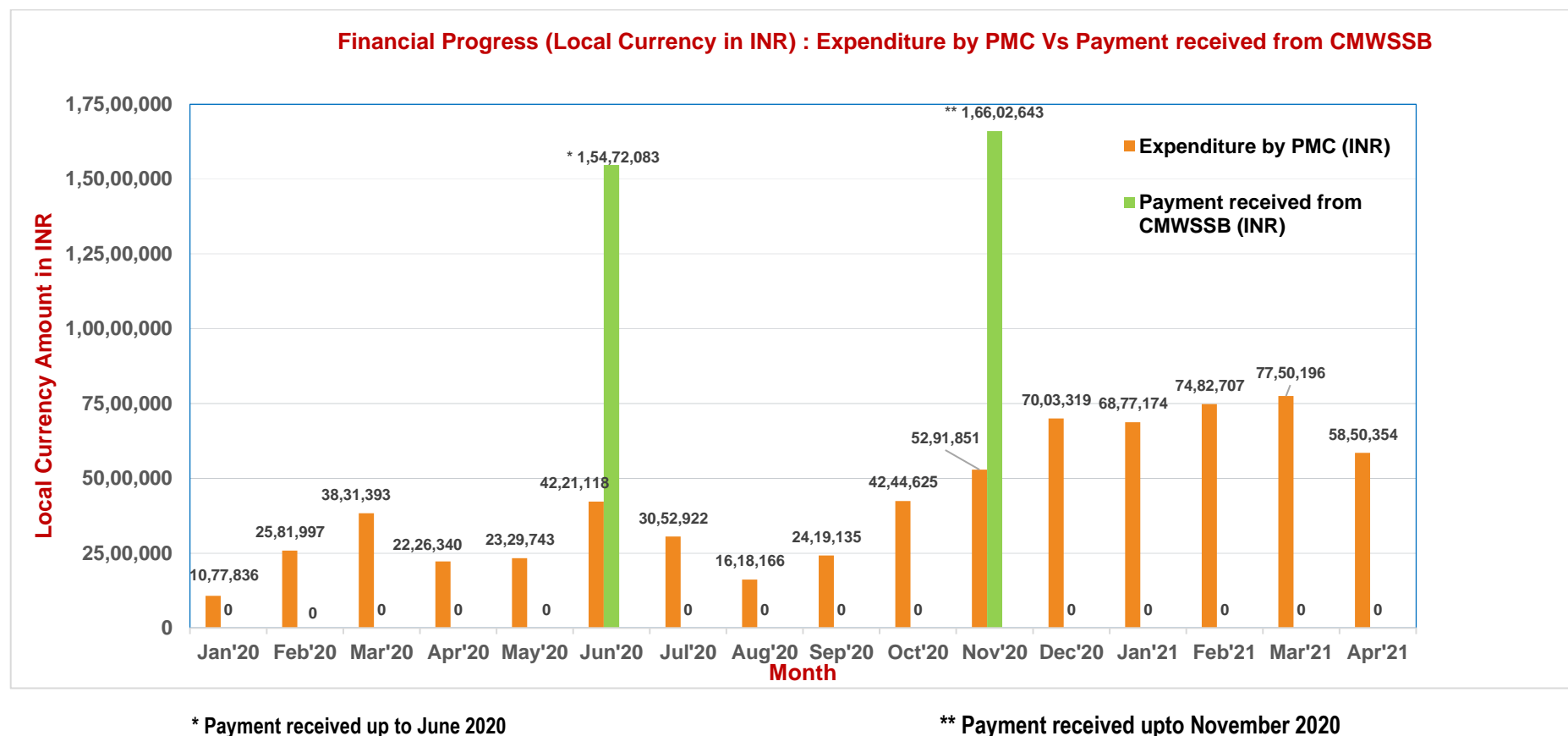


Figure 1: Financial Progress (Local Currency in INR): Expenditure by PMC Vs Payment received from CMWSSB

Financial Progress (Foreign Currency in USD): Expenditure by PMC Vs Payment received from CMWSSB is furnished in Figure 2.

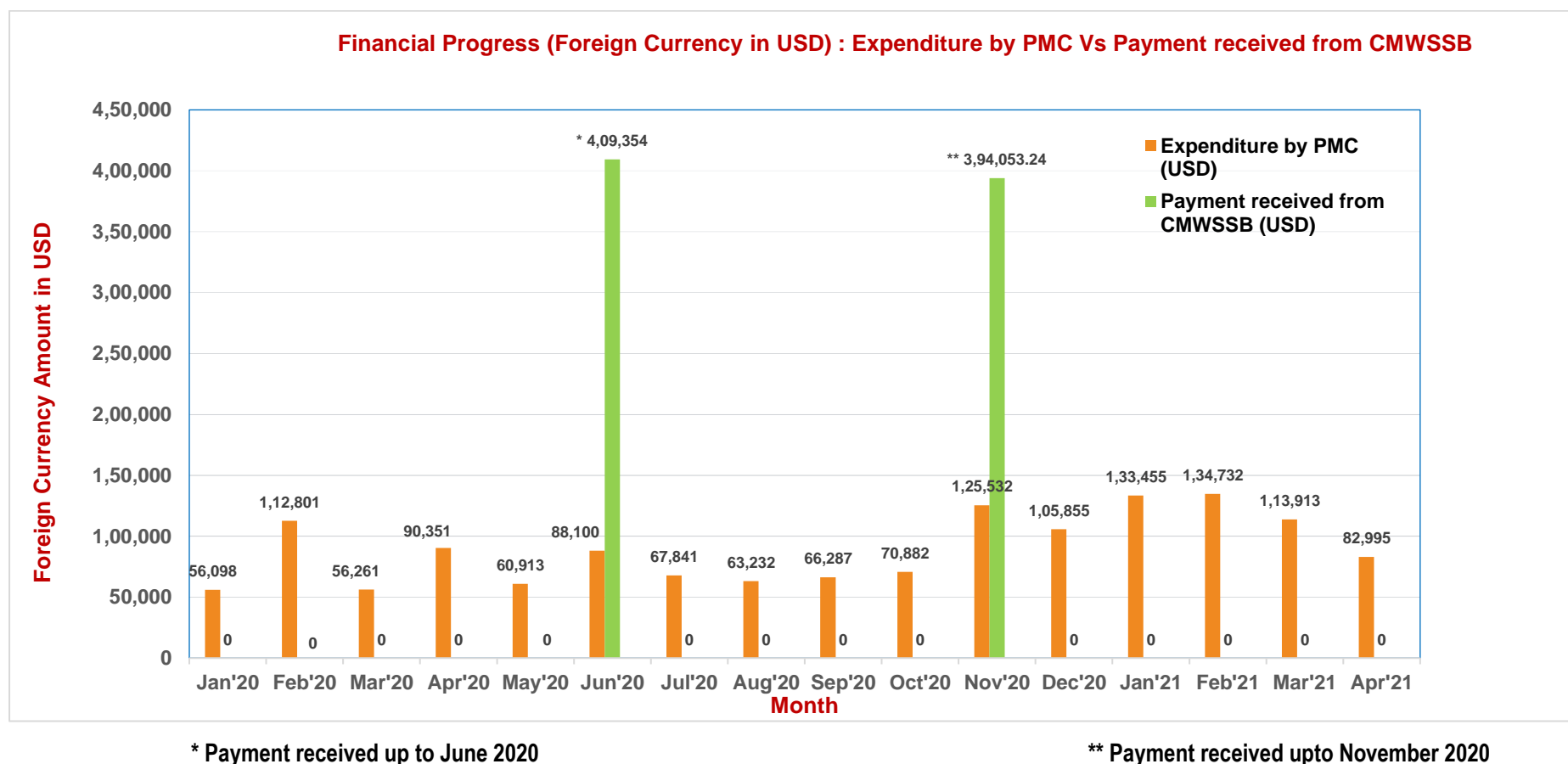


Figure 2: Financial Progress (Foreign Currency in USD): Expenditure by PMC Vs Payment received from CMWSSB

Financial Projection details for the year 2021 (Local Currency in INR): Expenditure by PMC is furnished in Figure 3.

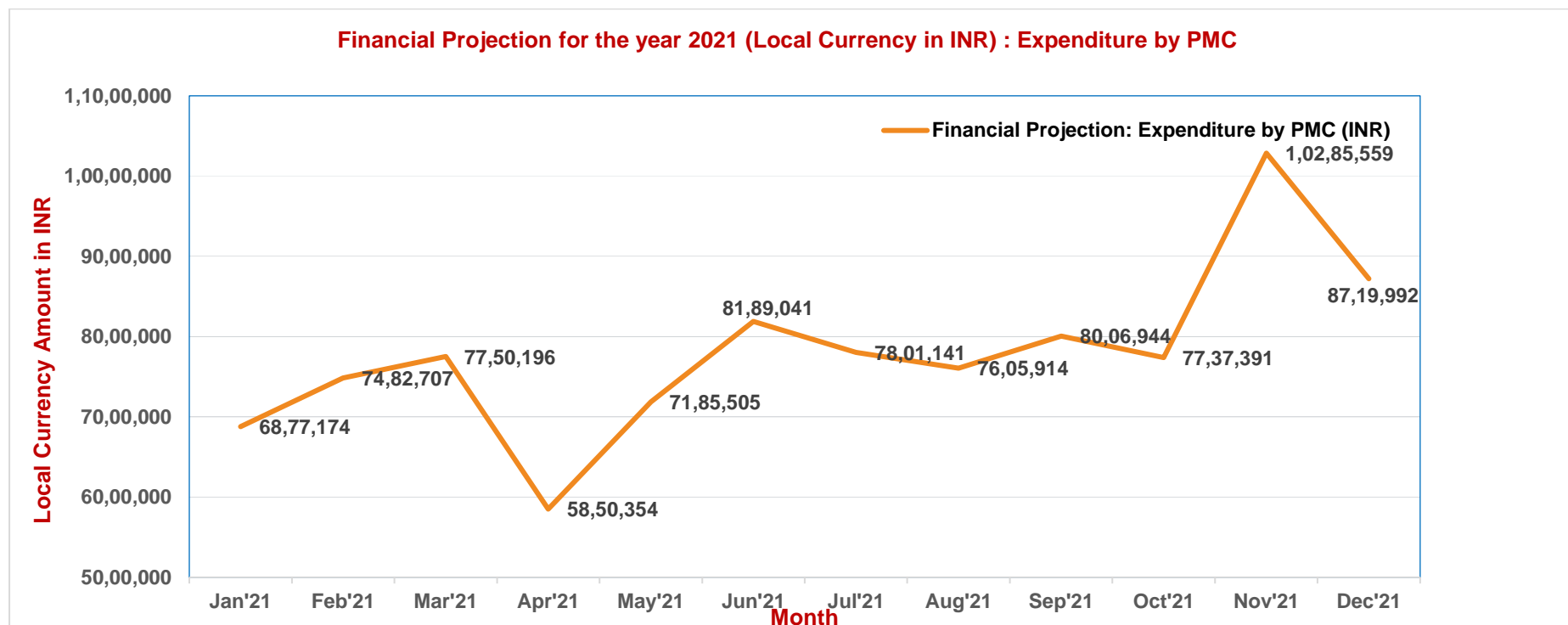


Figure 3: Financial Projection for the year 2021 (Local Currency in INR): Expenditure by PMC

Financial Projection's details for the year 2021 (Foreign Currency in USD): Expenditure by PMC is furnished in Figure 4.

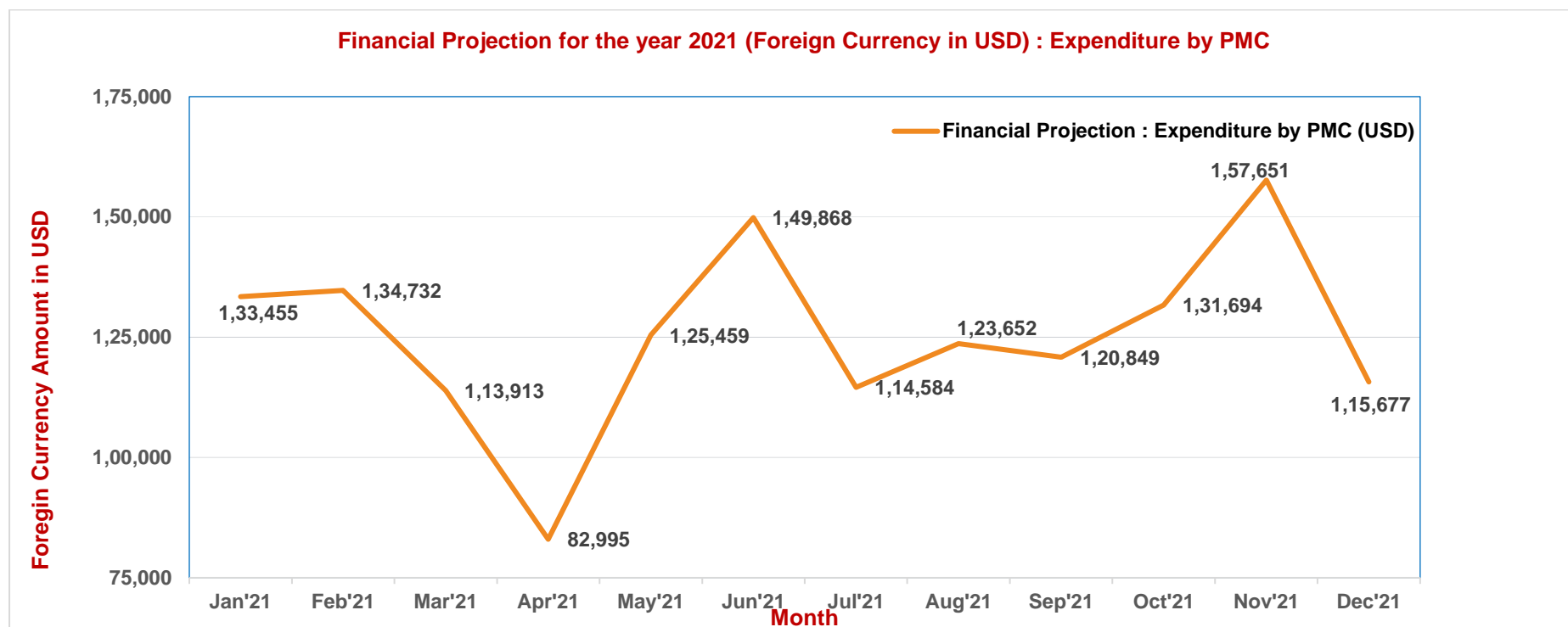


Figure 4: Financial Projection for the year 2021 (Foreign Currency in USD): Expenditure by PMC

4.5 Staffing Inputs – April 2021

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 April 2021 end)	Balance man-months available (May 2021 onwards)
Project Manager (Team Leader)	Dr P.Dharmabalan	I	14.02.2020	26.02.2020	07.04.2020	70	8.80	61.20
Senior Civil Engineer	Mr.S.Siddappaswamy	N	27.01.2020	22.02.2020	01.04.2020	72	9.54	62.46
Desalination Expert	Dr.Ghulam Mustafa	I	10.02.2020	22.02.2020	01.04.2020	29.50	12.71	16.79
Additional Key Expert – International	Dr.Uday G.Kelkar	I	01.06.2020			2.50	1.29	1.21
Water Supply Engineer	Mr.Shane Farquharson	I	20.01.2020	20.03.2020		23	2.04	20.96
Mechanical Engineer (Desal)	Mr.Michel Morillon	I	20.01.2020	08.02.2020 15.03.2020	23.02.2020 01.04.2020	15	4.22	10.78
Electrical Engineer (Desal)	Mr.Guilbert Z Gonzales (Replaced for Mr.Sergio de Bastos Vilar Magalhaes Paulo)	I	07.12.2020			25	3.18	21.82
Contract Specialist (Desal) - International	Mr.Abdel Fattah Toukan (Replaced for Mr. Roderick Mackenzie)	I	20.01.2020 02.11.2020	15.02.2020		9	4.57	4.43
Monitoring and Control Expert (Desal)	Mr.Afzal Abdul Latheef (Replaced for Mr.Manikandan Ganesh Shoranur)	I	19.11.2020			11	2.59	8.41
Civil and Structure Engineer (Desal)	Dr.D.Elanchezian	I	20.01.2020	04.04.2020 02.03.2021	15.10.2020	42	6.34	35.66
Specification Specialist (Desal)	Mr Ganesh Venkataraman (Replaced for Mr.J.Shanmuganathan)	I	12.11.2020			4	2.63	1.37

PROGRESS REPORT FOR PMC SERVICES

Position / Role	Name of the staff	Category	Commenced Date	De-mobilisation date	Remobilisation date	Total months allocated	Total months mobilised so far (till April 2021 end)	Balance man-months available (May 2021 onwards)
Financial Expert	Mr.Hemant Chadha	I	22.06.2020			3	2.32	0.68
Social Communication Specialist - International	Mr.Rajesh Mishra	I	05.10.2020			16	2.18	13.82
Civil Engineer	Mr.Ramesh Senthil	N	20.01.2020			72	14.30	57.70
Senior Pipeline Engineer	Mr.Nagesh Chinnam	N	04.02.2020			72	10.04	61.96
Mechanical Engineer	Mr.Mayur Gupta	N	14.12.2020	23.03.2021		40	2.72	37.28
Electrical Engineer	Mr.Om Prakash Singh	N	07.12.2020			45	3.86	41.14
Structural Engineer	Ms.J.Sudha	N	09.11.2020			28	4.55	23.45
Architect	Mrs Kirti Alhad Sadarjoshi	N	09.11.2020			12	2.59	9.41
Building Mechanical & Electrical Engineer	Mr.K.Senthil	N	11.01.2021			16	0.23	15.77
Environmental Specialist - International	Dr.Alok Kumar	I	24.02.2020	07.03.2020	25.04.2020	15	2.59	12.41
Environmental Specialist - National	Mr.S.M.Karthikaeswaran	N	25.02.2020			30	12.30	17.70
Organisational Expert	Mr.Hyacinth Augusto Vaz	I	01.04.2021			9	1.00	8.00
Pipeline Engineer-1	Mr.Rahul N Ramdhan (Replaced for Mr.Chandra Shekhar Reddy Yedla)	N	25.02.2020	05.03.2020		60	3.77	56.23
			23.09.2020	29.01.2021				
Pipeline Engineer-2	Mr.P.Thangavel (Replaced for Mr.V.Tulasi Ram)	N	15.10.2020			60	6.09	53.91
Hydraulic Modeller-1	Mr.P.M.Saravanan	N	25.02.2020	27.02.2020	23.03.2021	8	1.32	6.68
Social Communication Specialist – National	Mrs.R.Kanmani (Replaced for Dr.Rajshekar Reddy)	N	21.09.2020			72	6.90	65.10
Contract Management Specialist	Mr.Santosh Biswa	N	02.03.2020			6	5.50	0.50

PROGRESS REPORT FOR PMC SERVICES

Position / Role	Name of the staff	Category	Commenced Date	De-mobilisation date	Remobilisation date	Total months allocated	Total months mobilised so far (till April 2021 end)	Balance man-months available (May 2021 onwards)
Quantity Surveyor-1	Mr.R.Muthurajan (Replaced for Mr.K.C.Vinod Chandra)	N	21.10.2020			50	6.17	43.83
Quantity Surveyor-2	Mr.V.S.Rajasekar	N	21.09.2020			70	5.76	64.24
CAD Operator-1	Mr.G.Murali	N	25.02.2020	24.03.2020	01.05.2020	30	12.25	17.75
CAD Operator-2	Ms J.Nithya	N	04.12.2020			30	4.63	25.37
CAD Operator-3	Mr.Vijay Kumar	N	31.12.2020			30	3.32	26.68
GIS Operator	Mr.Suresh Mohan Dwivedi	N	07.10.2020	24.10.2020	24.11.2020	18	5.27	12.73
Secretary	Mr.B.Ajithkumar	N	29.10.2020			70	5.81	64.19
Geotechnical Engineer	Mrs P.Prashanthi	N	09.12.2020	31.03.2021		6	0.19	5.81
Visa and Admin Officer	Mr.A.Renu Kumar	N	20.01.2020			70	14.30	55.70
Accountant	Mr.K.Manikandan	N	09.03.2020			70	12.43	57.57
Office Keeper-1	Mr P.Raja (Replaced for Mr.R.Jagan)	N	03.02.2020			70	14.62	55.38
Office Keeper-2	Mr. T.Someswaran (Replaced for Mr.G.Arjun)	N	03.02.2020			70	14.62	55.38

I – International Staff

N – National Staff

A project office has been established in Chennai to accommodate PMC personnel and integrate PMC partners' resources 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 short and long-term commitments.

Dr.D.Elanchezian (Civil and Structure Engineer (Desal)), Mr.Mayur Gupta (Mechanical Engineer) and Mrs.Prashanthi (Geotechnical Engineer) have been permanently demobilised on 02.03.2021 and 23.03.2021 and 31.03.2021 respectively from the Project. However, some intermittent or staged inputs were temporarily demobilised during the period due to COVID-19 pandemic issues.

After the COVID-19 pandemic issues were resolved and the end of the extended partial lockdown period in Tamil Nadu, India, several of these PMC team members are scheduled to return to Chennai for further input Project coming month of May 2021.

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

Sl. 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 March 2021	Number of Days of Claim in April 2021	Cumulative Number of Days of Claim up to April 2021	Balance Number of Days for Claim
1	NJS Engineers India Pvt. Ltd.	International	2250	1,440	12	0	12	1,428
2	SMEC India Pvt. Ltd.	International		810	280	30	310	500
		National	50	50	0	0	0	50
3	SMEC International Pty. Ltd.	<ul style="list-style-type: none"> 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. (International Category) 						
4	TATA Consulting Engineers Ltd.	Not applicable. Hence no claim will be made for the entire project duration						
	TOTAL		2,300	2,300	292	30	322	1,978

4.5.3 Summary of Personnel Inputs for the Period

A summary of personnel inputs for the period (April 2021) is included in **Annexure 6**.

Planned mobilisation of PMC personnel for the next three (3) months (up to July 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 of the end of April 2021, 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 the 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. His cost is to be met from the Desalination Expert's cost, and there is no change in a project approved budget for this PMC assignment.

Mr.Rahul N Ramdhan (Pipeline Engineer-1) has been permanently demobilised on 29.01.2021 from the Project. Dr.D.Elanchezian (Civil and Structure Engineer (Desal)) has been permanently demobilised on 02.03.2021 from the Project. Mr.Mayur Gupta (Mechanical Engineer) has been permanently demobilised on 23.03.2021 from the Project. Mrs.Prashanthi (Geotechnical Engineer) has been permanently demobilised on 31.03.2021 from the Project.

CMWSSB has provided the approval for the replacement of the following staffs till April 2021 as listed below:

Sl. No.	Position	Original Staff as per Contract Agreement	Approved Staff by CMWSSB	Date of Approval
	KEY - INTERNATIONAL			
1	Electrical Engineer (International)	Mr.Sergio de Bastos Vilar Magalhaes Paulo	Mr.Guilbert Z.Gonzales	16.09.2020
2	Contract Specialist (Desal) – (International)	Mr. Roderick Mackenzie	Mr.Abdel Fattah Toukan	24.10.2020
3	Pipeline Engineer (International)	Mr. John Goullee	Dr.Mohamed Abdelmoneim Sayed Ahmed Mohamed	23.03.2021
	NON KEY INTERNATIONAL			
4	Monitoring & Control Expert (Desal)	Mr.Manikandan Ganesh Shoranur	Mr.Afzal Abdul Latheef	10.09.2020
5	Specification Specialist (Desal)	Mr.J.Shanmuganathan	Mr.Ganesh Venkataraman	10.11.2020
	NON KEY – NATIONAL / LOCAL EXPERT			
6	Mechanical Engineer	Mr.Surajit Debnath	Mr.Mayur Gupta	10.09.2020
7	Electrical Engineer	Mr.G.V.K Mohan	Mr.Om Prakash Singh	10.09.2020
8	Structural Engineer	Mr.M.K.Vinod	Ms.J.Sudha	10.09.2020
9	Pipeline Engineer - 1	Mr.Chandra Shekhar Reddy Yedla	Mr.Rahul N Ramdhan	10.09.2020
10	Pipeline Engineer – 2	Mr.V.Tulasi Ram	Mr.P.Thangavel	10.09.2020
11	Social Communication Specialist	Dr.M.Rajsekhar Reddy	Mrs.R.Kanmani	10.09.2020
12	Quantity Surveyor-1	Mr.Vinod Chandra K.C	Mr.R.Muthurajan	10.09.2020
13	Architect	Mr.M.Kumar	Mrs.Kirti Alhad Sadarjoshi	24.10.2020

As per CMWSSB letter dated 10.09.2020, it is informed that the above experts under the International and Local Expert category, i.e., Non-Key Experts (SI.No.4 and 6 to 12), have been considered and approved for replacement.

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

As per CMWSSB letter dated 24.10.2020, it is informed that the above experts under the International and Local Expert category (SI.No.2 & 13) have been considered and approved for replacement.

As per CMWSSB letter dated 10.11.2020, it is informed that the above expert under the International Expert category (SI.No.5) have been considered and approved for replacement.

As per CMWSSB letter dated 23.03.2021, it is informed that the above expert under the International Expert category (SI.No.3) have been considered and approved for replacement.

4.6 Meetings and Site Visits – April 2021

A summary of critical meetings and site visits completed during the period is furnished in Table10.

Table 10: Meetings and Site Visits (April 2021)

Date	Meeting and Site Visit	Location	Attendees
01.04.2021	Meeting at 1 st floor conference hall of CMWSSB and Online Microsoft Teams Meeting conducted by Superintending Engineer (Desal) for a discussion on the Draft Bidding Document (Part-II) Employer's Requirements for CP1 component on DBO basis	1 st floor conference hall of CMWSSB and Online Microsoft Teams Meeting Video Conference Call	CMWSSB officials & PMC team members
07.04.2021	Meeting at 1 st floor conference hall of CMWSSB and Online Microsoft Teams Meeting with Chief Engineer (Project-II) and Chief Engineer Project-III) and CMWSSB officials for a discussion on the updated responses for JICA's comments on Bidding Document for CP1 component on DBO basis	1 st floor conference hall of CMWSSB and Online Microsoft Teams Meeting Video Conference Call	CMWSSB officials & PMC team members
07.04.2021	Meeting at 1 st floor conference hall of CMWSSB and Online Microsoft Teams Meeting with Managing Director (CMWSSB) and CMWSSB officials for a discussion on the updated responses for JICA's comments on Bidding Document for CP1 component on DBO basis	1 st floor conference hall of CMWSSB and Online Microsoft Teams Meeting Video Conference Call	CMWSSB officials & PMC team members
08.04.2021	Meeting at 1 st floor conference hall of CMWSSB and Online Microsoft Teams Meeting with Chief Engineer (Project-II) and Chief Engineer Project-III) and CMWSSB officials for a discussion on the updated responses for JICA's comments on Bidding Document for CP1 component on DBO basis	1 st floor conference hall of CMWSSB and Online Microsoft Teams Meeting Video Conference Call	CMWSSB officials & PMC team members

Date	Meeting and Site Visit	Location	Attendees
09.04.2021	Online Microsoft Teams Meeting conducted by Project Co-ordinator (PMC) for a discussion on the work allocation of Draft Bidding Document review for the specific tasks allocated / working deliverables/ activities, project status for CP1 component	Online Microsoft Teams Meeting Video Conference Call	PMC team members
09.04.2021	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
15.04.2021	Online Microsoft Teams Meeting conducted by Senior Civil Engineer (PMC) for a discussion on the Draft Bidding Document for CP1 component on a DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
16.04.2021	Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the finalisation of Concept Design Report (Final) for CP1 component on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
20.04.2021	Online Microsoft Teams Meeting conducted by Chief Engineer (Project-III) and CMWSSB Area officials for a discussion on the progress of work and data collection for CMWSSB Area XIII for CP4 component	Online Microsoft Teams Meeting Video Conference Call	PMC team members, CMWSSB officials, including Area-XIII area/depot engineers
21.04.2021 and 22.04.2021	Online Microsoft Teams Meeting conducted by Senior Civil Engineer (PMC) for a discussion on the Draft Bidding Document for CP1 component on a DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
27.04.2021 & 28.04.2021	Discussion with EE, SE, CE and other CMWSSB officials regarding the population projection and variations in water demand details for CP4 component as per JICA report Vs CMWSSB data	1 st & 2 nd floor of CMWSSB	CMWSSB officials & PMC team members

The regular meetings/technical discussions have been conducted by PMC teams on the preparation and review of Instrumentation Control and Automation Works including plant operation control system, Instrumentation Plan, Project Implementation Schedule, Civil structural and architectural works, review of technical specification for Draft Request For Proposal (RFP) for CP1 components on DBO basis including Bidding Procedures, Employer's requirements (5 Volumes), Conditions of Contract and Contract Forms and Price Schedule. Preparation of Operation & Maintenance Cost, Minimum Functioning Specifications. Seawater Sample Analysis Report for Perur Desalination Plant (CP1) submitted 18.03.2021, Electrical load list and Electrical Single Line Diagram for Proposed 240 MLD Porur Pumping Station has been submitted on 05.03.2021.

Draft Bidding Document (Rev.0 to Rev.7) for CP1 component on DBO basis have been submitted to CMWSSB on 01.12.2020, 21.01.2021, 25.01.2021, 27.01.2021, 10.03.2021, 16.03.2021, 30.03.2021 and 19.04.2021 for review. Prequalification (PQ) Application for CP1 submission was held at CMWSSB on 05.01.2021 at 15:00 hours, and the opening was held at CMWSSB on 05.01.2021 at 15:30 hours. Prequalification (PQ) Application for CP1 received from 4 Applicants on 05.01.2021. Evaluation of Prequalification (PQ) Application for CP1 was carried out by the PMC team from 06.01.2021 to 27.01.2021. Evaluation Report for Prequalification (PQ) Application for CP1 was submitted to CMWSSB on 27.01.2021, and CMWSSB forwarded the Evaluation Report of PQ Applications to JICA for obtaining the concurrence on 27.01.2021. CMWSSB has obtained the concurrence from JICA on the Report on the Evaluation of Prequalification (PQ) Applications for CP1 on 11.02.2021. Financial Analysis Report was submitted on 12.02.2021. Received the comments from JICA on Draft RFP (Part-I & III) document for CP1 component on DBO basis on 25.02.2021, and the reply to comments was submitted on 10.03.2021, 25.03.2021 and 19.04.2021.

Also, regular interactions, discussions held with CMWSSB officials and other Project aspects until April 2021. Where formal minutes have not been recorded, these meetings are not listed in the above.

4.7 Health & Safety – April 2021

There are no health and safety incidents to report for April 2021 associated with the activities of the PMC. However, the evolving international situation regarding the COVID-19 virus is a pandemic of concern to the PMC, as restricted travel movements may impact the mobilisation of international (and possibly national) staff. The PMC will keep CMWSSB officials 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 till the end of April 2021, 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 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 the 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
SMEC International Pty. Ltd.	Third-Party Motor Vehicle Liability Insurance Third-Party Liability Insurance	SBI General Insurance	INR 100 Million	10.01.2021	09.01.2022
	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	01.01.2021	31.12.2021
	Insurance against Loss or Damage	Not Applicable	-	-	-
SMEC India Pvt. Ltd.	Third-Party Motor Vehicle Liability Insurance Third-Party Liability Insurance	SBI General Insurance	INR 100 Million	10.01.2021	09.01.2022
	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	05.01.2021	04.01.2022
	Insurance against Loss or Damage	Bajaj Allianz General Insurance Company Ltd.	INR 8.40 Million	30.04.2020	29.04.2021
			INR 6.91 Million	29.04.2021	28.04.2022
NJS Engineers India Pvt. Ltd.	Third-Party Motor Vehicle Liability Insurance	IFFCO TOKIO General Insurance Company Ltd.	INR 1.70 Million	27.08.2020	26.08.2021
	Professional Liability	New India Assurance Company Limited	INR 259 Million	20.04.2020	19.09.2027
	Employer's Liability and Worker Compensation Insurance	New India Assurance Company Limited	INR 20 Million	20.04.2020	19.04.2021
				20.04.2021	19.04.2022
	Insurance against Loss or Damage	Not Applicable	-	-	-
TATA Consulting Engineers Ltd.	Third-Party Motor Vehicle Liability Insurance	Shriram General Insurance Company Limited	INR 0.50 Million	29.05.2020	28.05.2021
		National Insurance Company Ltd.	INR 0.52 Million	09.03.2021	08.03.2021
	Professional Liability	The New India Assurance Co. Ltd.	INR 1500 Million	03.10.2020	02.10.2021
	Employer's Liability and Worker Compensation Insurance	The New India Assurance Co. Ltd.	INR 13.97 Million	01.02.2021	31.01.2021
	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. His cost is to be met from the Desalination Expert's cost, and there is no change in the Project approved budget for this PMC assignment.

The following staff CVs have been submitted for the replacement of 3 nos. of Key Expert (International), 2 nos. of Non-Key Expert (International) and 8 nos. of Non-Key National / Local Expert (Non-evaluation position) vide our correspondence letters communicated to CMWSSB. The following are the details of the approved staff by CMWSSB.

Sl. No.	Position	Original Staff as per Contract Agreement	Approved Staff by CMWSSB	Date of Approval
	KEY – INTERNATIONAL EXPERT			
1	Electrical Engineer (International)	Mr.Sergio de Bastos Vilar Magalhaes Paulo	Mr.Guilbert Z.Gonzales	16.09.2020
2	Contract Specialist (Desal) – International	Mr.Roderick Mackenzie	Mr.Abdel Fattah Toukan	24.10.2020
3	Pipeline Engineer (International)	Mr. John Goullee	Dr.Mohamed Abdelmoneim Sayed Ahmed Mohamed	23.03.2021
	NON KEY INTERNATIONAL EXPERT			
4	Monitoring & Control Expert (Desal)	Mr.Manikandan Ganesh Shoranur	Mr.Afzal Abdul Latheef	10.09.2020
5	Specification Specialist (Desal)	Mr.J.Shanmuganathan	Mr.Ganesh Venkataraman	10.11.2020
	NON KEY – NATIONAL / LOCAL EXPERT			
6	Mechanical Engineer	Mr.Surajit Debnath	Mr.Mayur Gupta	10.09.2020
7	Electrical Engineer	Mr.G.V.K Mohan	Mr.Om Prakash Singh	10.09.2020
8	Structural Engineer	Mr.M.K.Vinod	Ms.J.Sudha	10.09.2020
9	Pipeline Engineer – 1	Mr.Chandra Shekhar Reddy Yedla	Mr.Rahul N Ramdhan	10.09.2020
10	Pipeline Engineer – 2	Mr.V.Tulasi Ram	Mr.P.Thangavel	10.09.2020
11	Social Communication Specialist	Dr.M.Rajsekhar Reddy	Mrs.R.Kanmani	10.09.2020
12	Quantity Surveyor-1	Mr.Vinod Chandra K.C	Mr.R.Muthurajan	10.09.2020
13	Architect	Mr.M.Kumar	Mrs.Kirti Alhad Sadarjoshi	24.10.2020

4.8.2 Under Consideration

The following staff CV has been submitted for the replacement of 2 nos. of Non-Key Expert (National).

Sl. No.	Position	Original Staff as per Contract Agreement	Replaced Staff	Proposed Staff	Approval Status	Date of Submission
	NON KEY – NATIONAL / LOCAL EXPERT					
1	Pipeline Engineer – 1	Mr.Chandra Shekhar Reddy Yedla	Mr.Rahul N Ramdhan	Mr.K.Prabhat	Under Review	11.03.2021

The experience Certificate of Mr.K.Prabhat (Pipeline Engineer-1, Non-key Local Expert) was submitted to CMWSSB on 29.03.2021.

The reply to a clarification requested for Mr.K.Prabhat (Pipeline Engineer-1, Non-key Local Expert) CV was submitted to CMWSSB on 15.04.2021.

The request letter submitted to CMWSSB on 04.03.2021 for the Price Adjustment for Local and Foreign Currency for Remuneration and Reimbursable expenses as per Special Condition of Contract Agreement Clause 6.2(c) for Project Management Consultant (PMC). Waiting for the approval.

4.9 Communication and Correspondence

There is no progress on activities to report for Project communications this period. However, the PMC does 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 communication lines.

The letters submitted to CMWSSB and letters received from CMWSSB for the Project are furnished in Table 12.

Table 12: Details of Correspondence for the Project

Sl. No.	Details of Correspondence letter	Letter Correspondence reference number, date	Date of submission / received
1.	Demobilisation of Ms.P.Prashanthi, Geotechnical Engineer (Support Staff)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/321, dated 05.04.2021	07.04.2021
2.	Clarification on Mobilisation of Mr. Hyacinth Augusto Vaz, Organisational Expert (Non-Key/International)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/322, dated 07.04.2021	07.04.2021
3.	Submission of Draft Reply for 6 points for updated responses to JICA's comments on Bidding Document	Soft copy sent by email to CMWSSB	08.04.2021
4.	Submission of Monthly Progress Report (MPR 14) for March 2021 (10 copies)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/323, dated 09.04.2021	09.04.2021

Sl. No.	Details of Correspondence letter	Letter Correspondence reference number, date	Date of submission / received
5.	Submission of Cheque for TDS of NJS Engineers India Pvt. Ltd from July 2020 to November 2020 monthly invoice Foreign Currency payment	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/324, dated 09.04.2021	09.04.2021
6.	Submission of Invoice for March 2021 for SMEC International Pty Ltd in Foreign Currency	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/325, dated 12.04.2021	12.04.2021
7.	Submission of Invoice for March 2021 for SMEC India Pvt. Ltd. in Local Currency	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/326, dated 12.04.2021	12.04.2021
8.	Submission of Invoice for March 2021 for SMEC India Pvt. Ltd. in Foreign Currency	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/327, dated 12.04.2021	12.04.2021
9.	Submission of Details of Invoices for March 2021 for all Consortium Members	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/328, dated 12.04.2021	12.04.2021
10.	Submission of Workman Compensation Insurance Renewed policy of NJS Engineers India Pvt. Ltd	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/329, dated 12.04.2021	12.04.2021
11.	Submission of Price Escalation for CP1	Soft copy sent by email to CMWSSB	15.04.2021
12.	List of activities to be carried out for CP1 to CP4 during extended partial lockdown period from 01 st February 2021 to 31 st May 2021 (PMC for 400 MLD Desalination Project)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/330, dated 15.04.2021 (Soft copy sent by email to CMWSSB)	15.04.2021
13.	Submission of Clarification requested for Mr. Prabhat, Pipeline Engineer 1(Non-Key/Local Expert)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/331 dated 15.04.2021	15.04.2021
14.	Submission of Quarterly Progress Report (QPR 05) for January to March 2021 (10 copies)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/332, dated 15.04.2021	15.04.2021
15.	COVID-19 Positive case observed in PMC Office	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/333, dated 15.04.2021 (soft copy sent by email to CMWSSB)	15.04.2021
16.	Request for Feedback in Client Satisfaction Questionnaire Form	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/334, dated 15.04.2021	15.04.2021
17.	Submission of Price Adjustment Comparison	Soft copy sent by email to CMWSSB	16.04.2021
18.	Submission of CP1: RFP-Price Schedule	Soft copy sent by email to CMWSSB	19.04.2021
19.	Submission of updated responses to JICA's comments on Bidding Document received on 25.02.2021 and submission of Draft Bidding Document for CP1 component (Rev.7)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/335 dated 19.04.2021 (soft copy sent by email to CMWSSB)	19.04.2021

Sl. No.	Details of Correspondence letter	Letter Correspondence reference number, date	Date of submission / received
20.	Submission of updated response to JICA queries on RFP for CP1 on 21.04.2021	Email sent to CMWSSB on 21.04.2021	21.04.2021
21.	Submission of updated responses to JICA's comments on Bidding Document received on 25.02.2021 and submission of Draft Bidding Document for CP1 component (Rev.7)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/335 dated 19.04.2021 (soft copy sent by email to CMWSSB)	22.04.2021
22.	Submission of Concept Design Report (Final) for 400 MLD Desalination Plant at Perur (CP1)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/336, dated 23.04.2021 (Soft Copy sent by email to CMWSSB)	23.04.2021
23.	Submission of TDS Remittance Challan for TCE Ltd from February 2020 to June 2020 for monthly invoice Foreign Currency Payment	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/337, dated 26.04.2021	26.04.2021
24.	Submission of ward wise existing distribution network drawings of Area XIII- Adyar for verification/ authentication by Ward/ Depot Area Engineers	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/338, dated 26.04.2021	26.04.2021
25.	Submission of Concept Design Report (Final) for 400 MLD Desalination Plant at Perur (CP1) [3 copies]	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/339, dated 26.04.2021	27.04.2021
26.	Submission of CP2- Plot Area Required for Proposed 240 MLD GLR and Pumping Station at Porur	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/340, dated 29.04.2021	30.04.2021
27.	Clarification on Mobilisation of Mr.Hyacinth Augusto Vaz, Organisational expert (Non-Key International)	Ref: CMWSSB/SE(Desal)/400 MLD Plant/PMC/039/2021, dated 05.04.2021	05.04.2021
28.	Clarification Requested for Replacement of Key Expert-Pipeline Engineer (Non-Key/Local Expert)	Ref: CMWSSB/SE(Desal)/400 MLD Plant/PMC/040/2021 dated 09.04.2021	09.04.2021
29.	Email from SE (Desal) towards the reply to JICA's comments furnished by PMC – Clarifications on 26.04.2021	Received by email from CMWSSB on 26.04.2021	26.04.2021

The PMC team is maintaining the Document Management System (DMS) for the Project.

5 PROGRESS OUTLOOK FOR PMC SERVICES

5.1 Activities Planned for Next Month

A summary of planned (key) activities for May 2021 is provided in Table 13.

Table 13: Planned Activities until May 2021 (PMC activities)

Contract Package	Activities (Planning for next months)
CP1	Task 10: Bidding Document / Request for Proposal (RFP) – commence and review the final document preparation of the following during May 2021 <ul style="list-style-type: none"> Part I – Bidding Procedures Part II – Employers Requirements (5 Volumes) Part III – Conditions of Contract and Contract Forms Part IV – Price Schedule <ul style="list-style-type: none"> Finalisation of response to comments received from JICA on Draft Bidding document during May 2021 Obtaining the concurrence from JICA on the Bidding Document during May 2021 Issue of Bidding Document to the shortlisted bidders during May 2021
CP2	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 <ul style="list-style-type: none"> Review of the preliminary design in the DPR. Reviewing the AECOM report about Pumping Station at Perur and WDS & PS at Porur, giving our observations, if any.
	Task 3: Conducting Surveys and Investigations – Confirm the scope of services for the proposed site for geotechnical investigation <ul style="list-style-type: none"> Carrying out the Geotechnical Investigations at Perur and Porur new WDS site
	Task 4: Detailed Design of the Reservoirs and Pumping Stations <ul style="list-style-type: none"> Preparation of draft design report of the reservoirs and pumping stations
CP3	Task 1: Design reviews – undertake the review of design and bid document deliverables (by others), if prioritised by CMWSSB <ul style="list-style-type: none"> 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 bidding documents (prepared by CMWSSB) and the issue of comments

Contract Package	Activities (Planning for next months)
CP4	<p>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)</p> <ul style="list-style-type: none"> Review of Technical information about the Project, Finalization of population and demand details with CMWSSB consent. Review of the inventory data of zone-XIII distribution network details collected and its filed verification with ward /area engineers of CMWSSB. Ward wise water demand finalization of Chennai Core city area after discussions with CMWSSB Modelling activity of Area IX Conversion of Non-scale pipeline drawings of Area VIII to scale with pipeline alignment.
	<p>Task 3: Conducting Surveys and Investigations</p> <ul style="list-style-type: none"> Carrying out the topographical survey work in Chennai City Core area of 176Sq.Km, including establishing benchmarks for the CP4 component, commenced on 19.03.2021, and work is in progress.
	<p>Task 4: GIS development – progressive development of the GIS database for existing water distribution asset inventory, including design of attribute data structure</p>
	<p>Task 5: Preparation of Preliminary Design basis status report – a document for proposed design criteria for water distribution system modelling and design</p> <ul style="list-style-type: none"> Preparation and submission of PMC observations on various components of the Master plan/ JICA report
CP5	No planned activities during this period
General	Preparation and Submission of Monthly Progress Report for May 2021
	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
	<p>Project Updated EIA review report – complete review of the Project EIA review report and environmental commitments and brief package Lead on specific requirements relevant to each package</p> <ul style="list-style-type: none"> Attending the Stakeholder Consultation meeting (if any) with CMWSSB and World Bank team for allocation of funding pattern for Zone X and Zone XIII for CP4 component
	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 to tendering 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 the construction of reservoir and pumping station at Porur is taken for other projects, and the construction of 6 MLD TTRO Plant 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. CMWSSB has confirmed and allotted the land to construct the proposed UGT and Pumping Station at Porur new WDS site. 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 April 2021, 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 – April 2021

There are no achieved activities (Works) to report.

6.2 Actual Progress versus Planned Progress – April 2021

The Project works are not scheduled to commence until later in August 2021 (CP1 and CP3 components). Other contract packages may start even later during September 2021 and beyond.

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

6.3 Financial Progress in April 2021

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

6.4 Health & Safety – April 2021

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 April 2021 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 May 2021 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 – PMC Organisational Chart

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

Sl. No.	Name of the Expert (International/ National Local)	Role/ Position	Staff Month (SM)
KEY EXPERT – INTERNATIONAL & NATIONAL			
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	Mr.Shane Farquharson	Water Supply Engineer – International Expert	23
4	Mr.Michel Morillon	Mechanical Engineer (Desal)- International Expert	15
5	Mr.Guilbert Z Gonzales (Replaced for Sergio de Bastos Vilar Magalhaes Paulo)	Electrical Engineer (Desal)- International Expert	25
6	Mr.John Goullee	Pipeline Engineer-International Expert	70
7	Mr.Abel Fattah Toukan (Replaced for Mr.Roderick Mackenzie)	Contract Specialist (Desal) – International Expert	9
8	Mr.Tharloak S Bhatt	Contract Specialist (Distribution) - International Expert	8
9	Mr.S.Siddappaswamy	Senior Civil Engineer	72
10	Mr.Nagesh Chinnam	Senior Pipeline Engineer	72
	Sub Total		396
NON KEY EXPERT – INTERNATIONAL			
1	Dr.D.Elanchezian	Civil and Structure Engineer (Desal)	42
2	Mr.Madhawa Delpachitra	Mechanical Engineer (Distribution)	4
3	Mr.Manfred Kurt (Meisner)	Electrical Engineer (Distribution)	4
4	Mr.Afzal Abdul Latheef (Replaced for Manikandan Ganesh Shoranur)	Monitoring and Control Expert (Desal)	11
5	Mr.Ashish Gosain	Monitoring and Control Expert (Distribution)	12
6	Mr.Ganesh Venkataraman (Replaced for Mr.J.Shanmuganathan)	Specification Specialist (Desal)	4
7	Mr.Manish Chintamani Sane	Specification Specialist (Distribution)	3
8	Mr.Hemant Chadha	Financial Expert	3
9	Dr.Alok Kumar	Environmental Specialist	15
10	Mr.Santhosh Kumar	Commissioning Engineer	10
11	Mr.Rajesh Mishra	Social Communication Specialist	16
12	Mr.Hyacinth Augusto Vaz	Organisational Expert	9
	Sub Total		133
NON KEY EXPERT – NATIONAL			
13	Mr.Ramesh Senthil	Civil Engineer	72
14	Mr.Mayur Gupta (Replaced for Surajit Debnath)	Mechanical Engineer	40
15	Mr.Om Prakash Singh (Replaced for Mr.G.V.K.Mohan)	Electrical Engineer	45

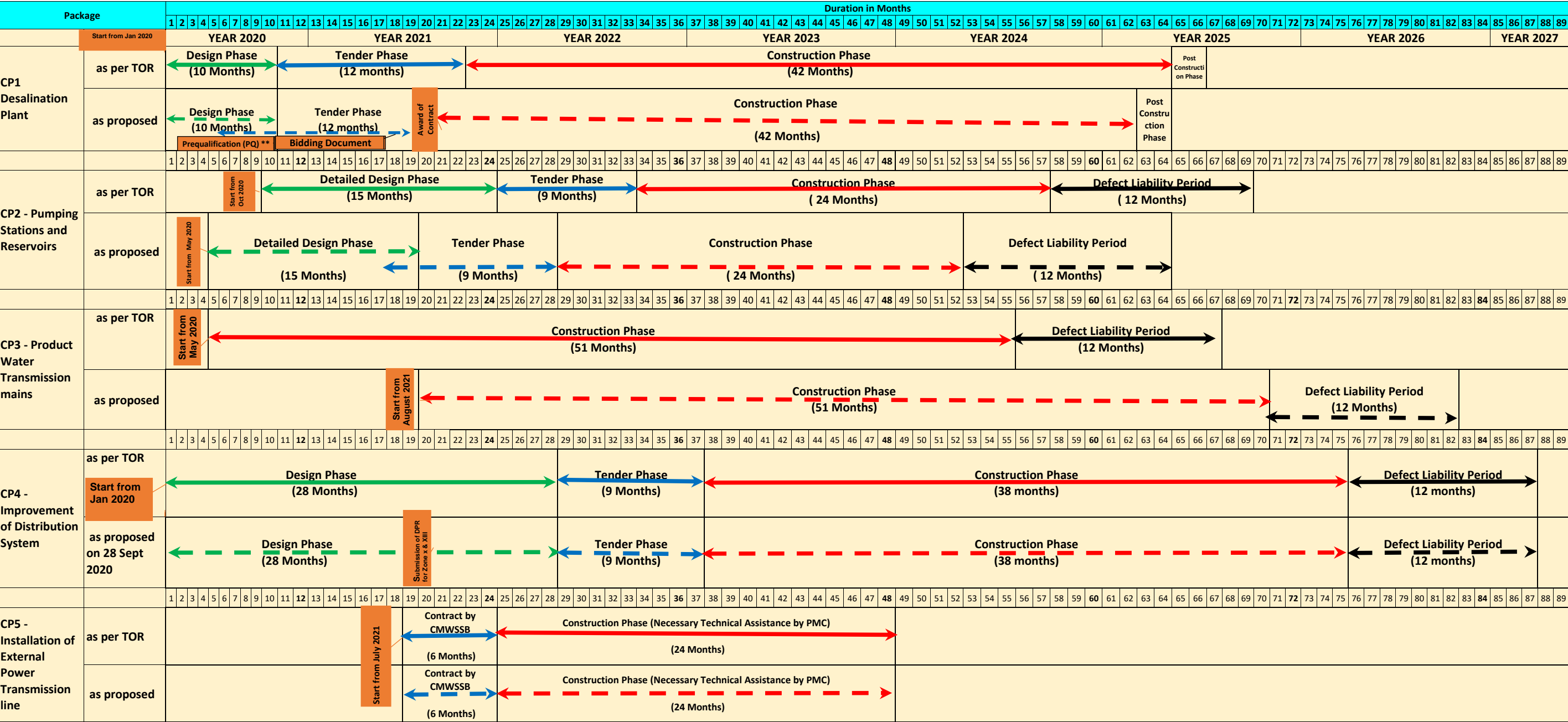
Sl. No.	Name of the Expert (International/ National Local)	Role/ Position	Staff Month (SM)
16	Ms.J.Sudha (Replaced for Mr.Vinod MK)	Structural Engineer	28
17	Mrs.Kirti Alhad Sadarjoshi (Replaced for Kumar M)	Architect	12
18	Mr.K.Senthil	Building Mechanical and Electrical Engineer	16
19	Mr.Rahul N Ramdhan (Replaced for Mr.Chandra Shekhar Reddy Yedla)	Pipeline Engineer 1	60
20	Mr.P.Thangavel (Replaced for Mr.V.Tulasi Ram)	Pipeline Engineer 2	60
21	Mr.Hema Kumar.S	Pipeline Engineer 3	50
22	Mr.P.M.Saravanan	Hydraulic Modeler – 1	8
23	Mrs.V.Nandhini	Hydraulic Modeler – 2	8
24	Mr.Naisa Sreenivasulu Reddy	Construction Planner Cost Estimator	4
25	Mr.S.Sreenivasula Reddy	Specification Specialist	4
26	Mr.S.M.Karthikaeswaran	Environmental Specialist	30
27	Mrs.R.Kanmani (Replaced for Dr.M.Rajsekhar Reddy)	Social Communication Specialist	72
28	Mr.Najas Thattakatte Abdulkareem	Safety and Health Expert-1	40
29	Mr.Prasanth Balan	Safety and Health Expert-2	70
30	Mr.R.Muthurajan (Replaced for Mr.Vinod Chandra K.C)	Quantity Surveyor 1	50
31	Mr.V.S.Rajasekar	Quantity Surveyor 2	70
	Sub Total		739
SUPPORTING STAFF			
1	Mr.B.Ajithkumar	Secretary	70
2	Mr.G.Murali	CAD Operator-1	30
3	Ms.J.Nithya	CAD Operator-2	30
4	Mr.Vijay Kumar	CAD Operator-3	30
5	Mr.Suresh Mohan Dwivedi	GIS Operator	18
6	TBN	Inspectors (4 Nos.)	200
7	Mrs.P.Prashanthi	Geotechnical Engineer	6
8	TBN	MIS Specialist	50
9	Mr.Santosh Biswa	Contract Management Specialist	6
10	Mr.A.Renu Kumar	Visa and Admin. Officer	70
11	Mr.K.Manikandan	Accountant	70
12	Mr.P.Raja (Replaced for Mr.R.Jagan)	Office Keeper-1	70
13	Mr.T.Someswaran (Replaced for Mr.G.Arjun)	Office Keeper-2	70
	Sub Total		720
	Total		1988

Annexure 2 Project Scope

Sl. No.	Component	Construction Items
CP1	Construction of the Perur DSP (400 MLD)	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 Area (DMA)
CP5	Installation of external power transmission line	<ul style="list-style-type: none"> 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 3 OVERALL WORK PLAN FOR CHENNAI PERUR 400 MLD DESALINATION PROJECT



Note : The above timelines are subject to bid evaluation, approval, award of contract and signing of agreement

Note : 1. 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.

- * During Video Conference call Zoom meeting held on 30.04.2020 with CMWSSB and PMC noted that due to the current COVID-19 Pandemic situation across the globe, overall 2 months delay in floating the PQ and consequently the Bidding Document for CP1.
- CMWSSB has forwarded the PQ document to JICA on March 2020 & August 2020 for concurrence. JICA has given concurrence on the PQ documents for CP1 to CMWSSB for floating of Notice Inviting Tender (NIT) on 30th September 2020
- Pre-bid Prequalification Application meeting held at CMWSSB and also through Online Webex meeting on 29.10.2020
- CMWSSB has extended the tender 2nd extension notice to 05.01.2021 instead of original date of submission of PQ application 02.12.2020
- CMWSSB has received 4 Prequalification (PQ) Applications on 05.01.2021. The PQ evaluation report have been submitted to CMWSSB on 27.01.2021 and JICA has provided the approval during Feb'2021
- The RFP document was submitted to CMWSSB on 27.01.2021 and CMWSSB have forwarded the RFP document to JICA for obtaining the concurrence. JICA has provided the comments on Part-I & Part-III of Draft Bidding Document for CP1 on 25.02.2021
- The reply to JICA comments on Bidding Document was submitted to CMWSSB on 18.03.2021 and forwarded to JICA for obtaining the concurrence.
- Meeting held at CMWSSB and Online Microsoft Teams Meeting between PMC, JICA and CMWSSB on 30.03.2021 for a discussion on the responses to JICA comments on Bidding Document.

Legend:

Design Phase

Tender Phase

Construction Phase

Defect Liability Period

Note 2: Revised Project Schedule due to the effect of COVID 19

For CP1 - Refer the bar chart "as proposed"

For CP2 - No change is anticipated

For CP4 - Refer the bar chart "as proposed on 26 Sept 2020"

For CP3 and CP5 - No change is anticipated

Annexure 4 Work Schedule (Contract Package-wise)

Annexure 4








Work Schedule (Contract Package-wise)

WORK SCHEDULE

WORK SCHEDULE - CP1																																																																							
Project Name: Consultancy for “Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works.																																																																							
Activity	Task	Activities and tasks	Duration in Months	Project Duration in Months																																																																			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66		
				YEAR 2020												YEAR 2021												YEAR 2022												YEAR 2023												YEAR 2024												YEAR 2025							
		Work Plan		Design and Bid document preparation (9 Months)												Bid process management and selection of contractor (12 Months)												Construction and Commissioning of Desalination Plant (42 Months)																																										Post Const. (2M)	
4.5.1		Team Mobilization and Kick Off meeting	1																																																																				
4.5.2		Inception Report: (Output-1)	1																																																																				
		Work Plan for Perur Desalination Plant (CP1)																																																																					
4.5.3		Design Works of CP1	9																																																																				
	Task 1	Data and Information Collection	2																																																																				
	Task 2	Review the Technical Information	2																																																																				
	Task 3	Conducting Surveys and Investigations	2																																																																				
	Task 4	Concept Design of Perur DSP	5																																																																				
	Task 5	Preparation & Submission of Concept Design Report	1																																																																				
	Task 6	Preparation of Technical Specifications	2																																																																				
	Task 7	Financial Analysis	2																																																																				
	Task 8	Preparation of O&M Requirements for Bid Document	2																																																																				
4.5.4		Bid Documents Preparation for Perur DSP (CP1)																																																																					
	Task 9	Preparation of PreQualification [PQ] Document																																																																					
	Task 10	Preparation of Bidding Document																																																																					
4.5.5		Tendering Assistance	12																																																																				
	Task 11	Prebid Meetings, Clarifications & Issue of Addendums etc.	6																																																																				
	Task 12	Submission of PQ Evaluation Report	1																																																																				
	Task 13	Submission of Bid Evaluation Report - Technical	1.50																																																																				
	Task 14	Submission of Bid Evaluation Report - Financial	1																																																																				
4.5.6		Construction Supervision for CP1	42																																																																				
	Task 15	Phase-I: Pre-construction activities	12																																																																				
	15.1	Design Review & Submission of Review Reports	12																																																																				
	15.2	Review of QAP & Construction Methodologies for Various Works	9																																																																				
	Task 16	Phase-II: Activities During Construction	30																																																																				
	16.1	Construction Supervision and Quality Control	30																																																																				
	16.2	Inspection of Material	30																																																																				
	16.3	Progress Monitoring, Record keeping and Reporting	30																																																																				

Note : 1. 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.

2. * During Video Conference call Zoom meeting held on 30.04.2020 with CMWSSB and PMC noted that due to the current COVID-19 Pandemic situation across the globe, overall 2 months delay in floating the RfQ and consequently the RfP for CP1.
3. CMWSSB has forwarded the PQ documents to JICA on March 2020 & August 2020 for concurrence
4. Pre-bid Prequalification Application meeting held at CMWSSB and also through Online Webex meeting on 29.10.2020
5. CMWSSB has extended the tender 2nd extension notice to 05.01.2021 instead of original date of submission of PQ application 02.12.2020
6. CMWSSB has received 4 Prequalification (PQ) Applications on 05.01.2021. The PQ evaluation report have been submitted to CMWSSB on 27.01.2021 and JICA has provided the approval during Feb'2021
7. The RFP document was submitted to CMWSSB on 27.01.2021 and CMWSSB have forwarded the RFP document to JICA for obtaining the concurrence. JICA has provided the comments on Part-I & Part-III of Draft Bidding Document for CP1 on 25.02.2021.
8. The reply to JICA comments on Bidding Document have been submitted to CMWSSB on 18.03.2021, 25.03.2021 and forwarded to JICA for obtaining the concurrence.
9. Meeting held at CMWSSB and Online Microsoft Teams Meeting between PMC, JICA and CMWSSB on 30.03.2021 for a discussion on the responses to JICA comments on Bidding Document.

Legend:	
	Main Activities [Full Time]
	Main Activities [Intermittent Time]
	Tasks Under Main Activities [Full Time]
	Tasks Under Main Activities [Intermittent Time]
	Sub Tasks Under Tasks
	Reports
	Client's Role

WORK SCHEDULE - CP2

Project Name: Consultancy for “Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works.








[illegible]

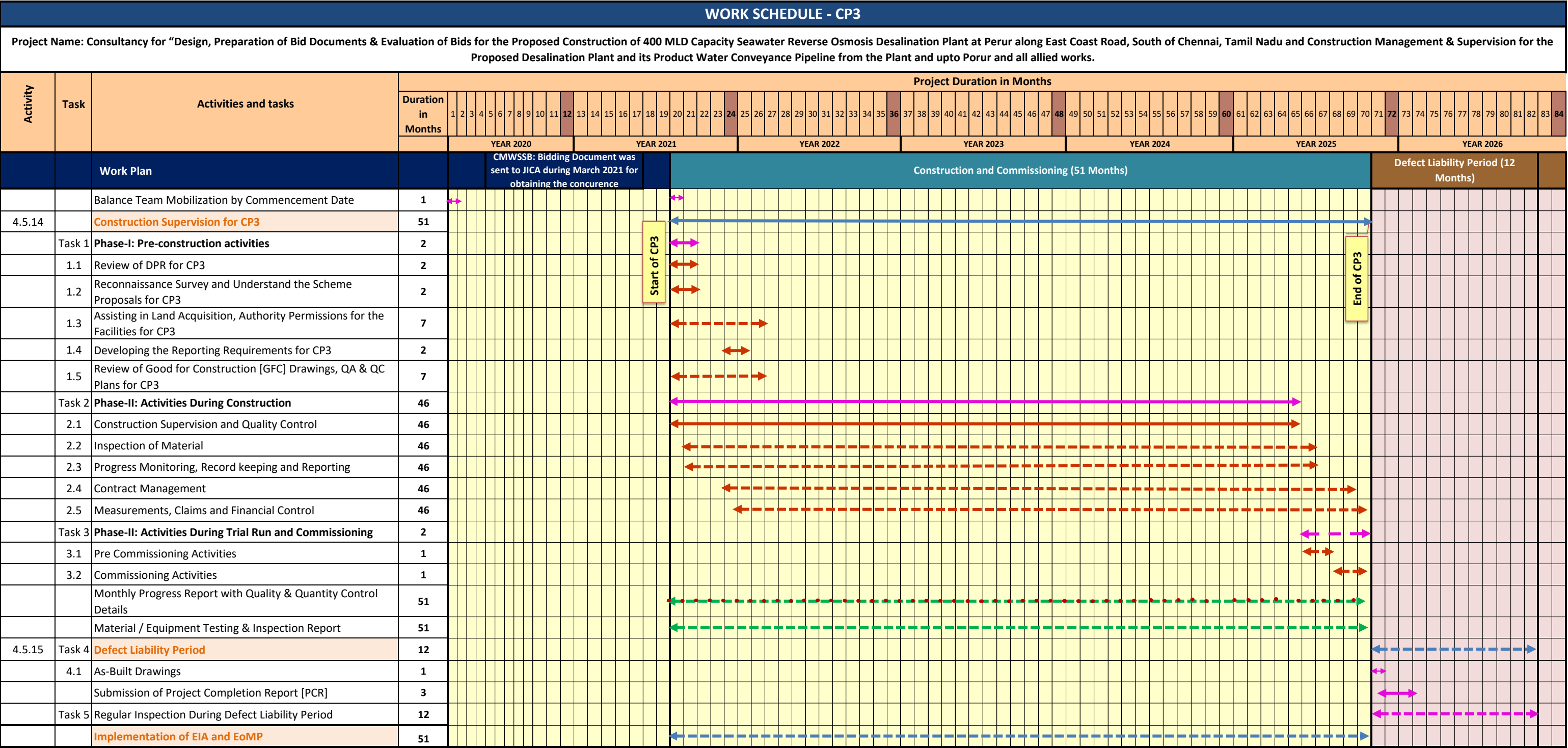
WORK SCHEDULE - CP2

Project Name: Consultancy for “Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works.

[illegible]

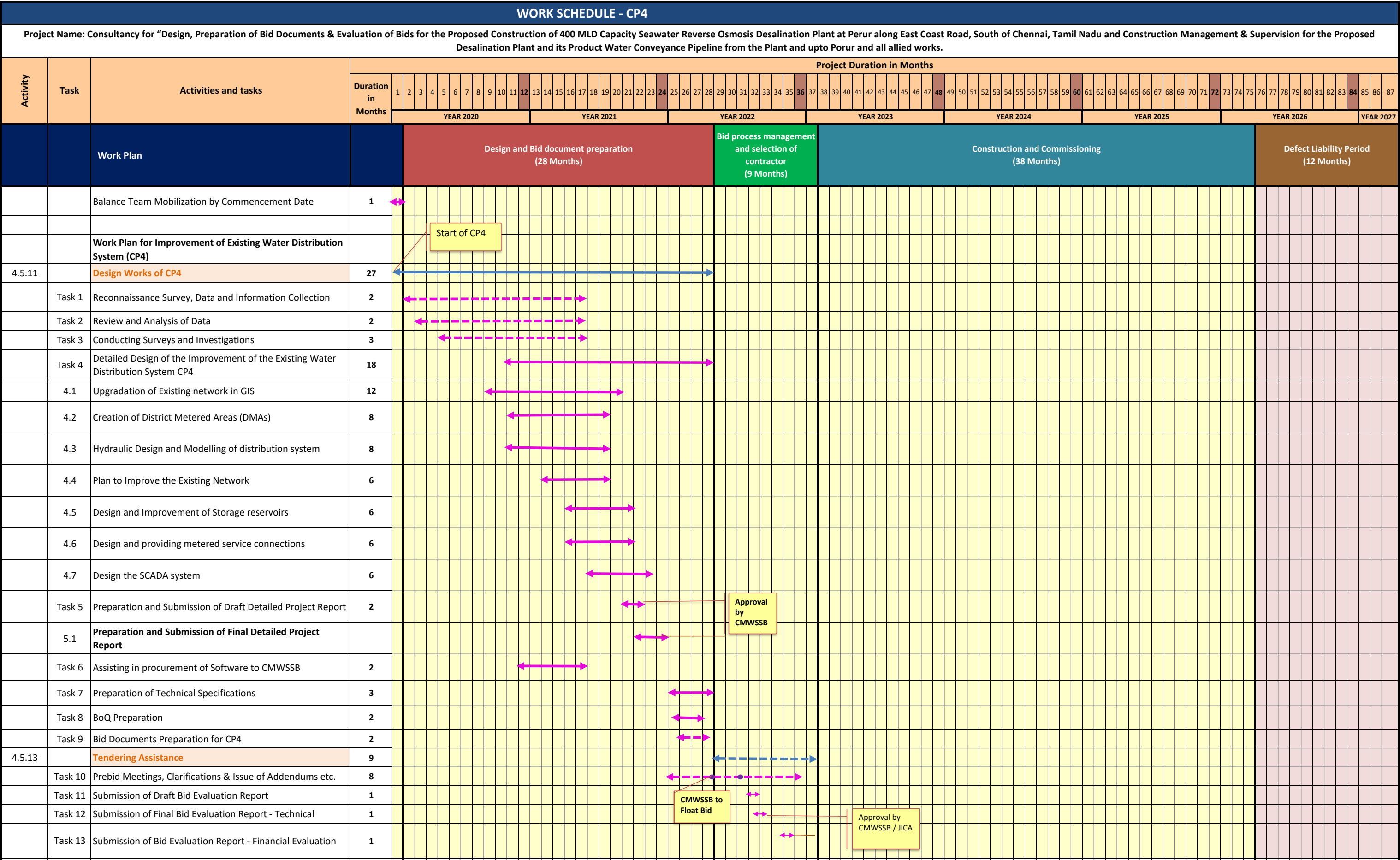
Note : The tentative date of deliverables have been worked out based on the discussion with CMWSSB officials, but the total time duration of each component is fixed as per ToR / as proposed by the PMC team.

Legend:	
	Main Activities [Full Time]
	Main Activities [Intermittent Time]
	Tasks Under Main Activities [Full Time]
	Tasks Under Main Activities [Intermittent Time]
	Sub Tasks Under Tasks
	Reports
	Client's Role



Note : 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.

Legend:	
	Main Activities [Full Time]
	Main Activities [Intermittent Time]
	Tasks Under Main Activities [Full Time]
	Tasks Under Main Activities [Intermittent Time]
	Sub Tasks Under Tasks
	Reports
	Client's Role



WORK SCHEDULE - CP4








Project Name: Consultancy for “Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works.

Activity	Task	Activities and tasks	Duration in Months	Project Duration in Months																																																																																																		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87												
4.5.15		Construction Supervision for CP4	38																																																																																																			
	Task 20	Phase-I: Pre-construction activities	2																																																																																										<div>End of CP4</div>									
	20.1	Review of QAP & Construction Methodologies for Various Works	2																																																																																																			
	Task 21	Phase-II: Activities During Construction	34																																																																																																			
	21.1	Construction Supervision and Quality Control	34																																																																																																			
	21.2	Inspection of Material	34																																																																																																			
	21.3	Progress Monitoring, Record keeping and Reporting	34																																																																																																			
	21.4	Contract Management	34																																																																																																			
	21.5	Measurements, Claims and Financial Control	34																																																																																																			
	Task 22	Phase-II: Activities During Trial Run and Commissioning	2																																																																																																			
	22.1	Pre Commissioning Activities	1																																																																																																			
	22.2	Commissioning Activities	1																																																																																																			
		Monthly Progress Report with Quality & Quantity Control Details	38																																																																																																			
		Material / Equipment Testing & Inspection Report	38																																																																																																			
4.5.7	Task 23	Defect Liability Period	12																																																																																																			
	23.1	As-Built Drawings	1																																																																																																			
	23.2	Submission of Project Completion Report [PCR]	3																																																																																																			
	Task 24	Regular Inspection During Defect Liability Period	12																																																																																																			
		Implementation of EIA and EoMP	73																																																																																																			

WORK SCHEDULE - CP5									
---------------------	--	--	--	--	--	--	--	--	--

Activity	Task	Activities and tasks	Duration in Months	Project Duration in Months - 30 Months Involvement																																																																																						
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
4.5.16		Installation of External Power Transmission Line CP5	30																																																																																							
	Task 1	Technical Coordination	30																																																																																							
	Task 2	Monthly Progress Report	30																																																																																							
		Implementation of EIA and EoMP	30																																																																																							

Note : 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.

Legends	
	Main Activities [Full Time]
	Main Activities [Intermittent Time]
	Tasks Under Main Activities [Full Time]
	Tasks Under Main Activities [Intermittent Time]
	Sub Tasks Under Tasks
	Reports
	Client's Role

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

ANNEXURE 5 PROJECTED FINANCIAL PROGRESS BASED ON MAN MONTHS CONSUMED Vs ACTUAL PROGRESS (BILLS PASSED) TILL APRIL 2021

**CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD (CHENNAI PERUR 400MLD DESALINATION PLANT & ALLIED WORKS PROJECT)
REMUNERATION AND REIMBURSABLE COSTS (Indian Rupees & US Dollars)**

DATE : 30.04.2021

PERIOD : Projected till April 2021

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneration / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (March 2021)	Person Months/ Quantity Spent for current month (April 2021)	Total Person Months/ quantity spent upto current month (April 2021)	Balance Carried over	Amount Booked as on last Month (March 2021)	Amount Booked for this Invoice (April 2021)	Total Booked upto this Invoice	Balance Amount
	SMEC INTERNATIONAL PTY LTD													
I	REMUNERATION (in US Dollar)													
	Key International Expert													
1	Dr.Pararajasegram Dharmabalan	Project Manager	Field	70	37,500	26,25,000	8.12	0.68	8.80	61.20	3,04,500	25,568	3,30,068	22,94,932
2	Mr.Shane Farquharson	Water Supply Engineer	Field	23	25,360	5,83,280	2.04	0.00	2.04	20.96	51,734	0	51,734	5,31,546
3	Mr.Michel Morillon	Mechanical Engineer (Desal)	Field	15	44,000	6,60,000	4.22	0.00	4.22	10.78	1,85,680	0	1,85,680	4,74,320
4	Mr.Guilbert Z Gonzales (Replaced for Mr.Sergio de Bastos Vilar Magalhaes Paulo)	Electrical Engineer (Desal)	Field	25	13,132	3,28,300	2.18	1.00	3.18	21.82	28,676	13,132	41,808	2,86,492
5	Mr.John Goullee	Pipeline Engineer	Field	70	22,602	15,82,140	0	0	0	70	0	0	0	15,82,140
6	Mr.Abel Toukan (Replaced for Mr.Roderick Mackenzie)	Contract Specialist (Desal)	Field	9	44,407	3,99,663	4.39	0.18	4.57	4.43	1,95,068	8,074	2,03,142	1,96,521
	Non-Key - International Expert													
7	Mr.Afzal Abdul Latheef (Replaced for Mr.Manikandan Ganesh Shoranur)	Monitoring and Control Expert (Desal)	Field	11	19,260	2,11,860	2.59	0.00	2.59	8.41	49,918	0	49,918	1,61,942
	Sub Total 1 in USD			223		63,90,243	23.55	1.86	25.41	197.59	8,15,576	46,774	8,62,351	55,27,892

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneration / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (March 2021)	Person Months/ Quantity Spent for current month (April 2021)	Total Person Months/ quantity spent upto current month (April 2021)	Balance Carried over	Amount Booked as on last Month (March 2021)	Amount Booked for this Invoice (April 2021)	Total Booked upto this Invoice	Balance Amount
II	REIMBURSABLES (in US Dollar)													
II	DUTY TRAVEL TO SITE													
1	International Air Travel													
	Professional Staff	Trip		40	3,000	1,20,000	6	0	6	34	18,000	0	18,000	1,02,000
	Sub Total 2 in USD					1,20,000					18,000	0	18,000	1,02,000
	GROSS INVOICE OF SMEC INTERNATIONAL PTY LTD					65,10,243					8,33,576	46,774	8,80,351	56,29,892
	Deduction of Mobilisation Advance	Advance Amount = USD 325,512				3,25,512	No. of months = 77			4th Month of deduction	12,682	4,227	16,910	3,08,602
	INVOICE OF SMEC INTERNATIONAL PTY LTD (USD)					61,84,731					8,20,894	42,547	8,63,441	53,21,290
	SMEC INDIA PVT. LTD.													
	REMUNERATION (in US Dollar)													
	Non-Key International Expert													
1	Dr.D.Elanchezian	Civil and Structure Engineer (Desal)	Field	42	10,895	4,57,590	6.34	0	6.34	35.66	69,064	0	69,064	3,88,526
2	Mr.Ashish Gosain	Monitoring and Control Expert (Distribution)	Field	12	7,704	92,448	0	0	0	12	0	0	0	92,448
3	Mr.Ganesh Venkataraman (Replaced for Mr.J.Shanmuganathan)	Specification Specialist (Desal)	Field	4	7,264	29,056	2.58	0.05	2.63	1.37	18,761	330	19,091	9,965
4	Mr.Hemant Chadha	Financial Expert	Field	3	12,106	36,318	2.23	0.09	2.32	0.68	26,948	1,100	28,048	8,270
5	Mr.Santhosh Kumar	Commissioning Engineer	Field	10	10,015	1,00,150	0	0	0	10	0	0	0	1,00,150
6	Mr.Rajesh Mishra	Social Communication Specialist	Field	16	9,630	1,54,080	2.18	0	2.18	13.82	21,028	0	21,028	1,33,052
	Sub Total 3 in USD			87		8,69,642	13.33	0.14	13.47	73.53	1,35,800	1,431	1,37,231	7,32,411
	INVOICE OF SMEC INDIA PVT. LTD. (USD)					8,69,642					1,35,800	1,431	1,37,231	7,32,411
	Non-Key Expert- Local Staff (Local in Rupees)													
1	Mr.Ramesh Senthil	Civil Engineer	Field	72	4,35,750	3,13,74,000	13.34	0.95	14.30	57.70	58,14,491	4,15,945	62,30,436	2,51,43,564
2	Mr.N.Srinivasulu Reddy	Construction Planner / Cost Estimator	Field	4	3,00,000	12,00,000	0	0	0	4	0	0	0	12,00,000

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remunerati on / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (March 2021)	Person Months/ Quantity Spent for current month (April 2021)	Total Person Months/ quantity spent upto current month (April 2021)	Balance Carried over	Amount Booked as on last Month (March 2021)	Amount Booked for this Invoice (April 2021)	Total Booked upto this Invoice	Balance Amount
3	Mr.R.Muthurajan (Replaced for Mr.K.C.Vinod Chandra)	Quantity Surveyor - 1	Field	50	3,00,000	1,50,00,000	5.17	1.00	6.17	43.83	15,50,727	3,00,000	18,50,727	1,31,49,273
	Sub Total 1 in INR			126	10,35,750	4,75,74,000	18.51	1.95	20.47	105.53	73,65,218	7,15,945	80,81,163	3,94,92,837
	Support Staff (Local in Rupees)													
4	Mr.B.Ajithkumar	Secretary	Field	70	52,290	36,60,300	4.81	1.00	5.81	64.19	2,51,467	52,290	3,03,757	33,56,543
5	Mrs.P.Prashanthi	Geo-technical Engineer	Home	6	4,35,750	26,14,500	0.19	0.00	0.19	5.81	80,812	0	80,812	25,33,688
6	Mr.Santosh Biswa	Contract Management Specialist	Home	6	4,35,750	26,14,500	5.27	0.23	5.50	0.50	22,96,006	99,034	23,95,040	2,19,460
7	Mr.A.Renu Kumar	Visa & Admin. Officer	Field	70	1,04,580	73,20,600	13.34	0.95	14.30	55.70	13,95,383	99,827	14,95,210	58,25,390
8	Mr.K.Manikandan	Accountant	Field	70	69,720	48,80,400	11.48	0.95	12.43	57.57	8,00,259	66,551	8,66,811	40,13,589
9	Mr.P.Raja (Replaced for Mr.R.Jagan)	Office Keeper-1	Field	70	26,145	18,30,150	13.62	1.00	14.62	55.38	3,56,071	26,145	3,82,216	14,47,934
10	Mr.T.Someswaran (Replaced for Mr.G.Arjun)	Office Keeper-2	Field	70	26,145	18,30,150	13.62	1.00	14.62	55.38	3,56,071	26,145	3,82,216	14,47,934
	Sub Total 2 in INR			362		2,47,50,600	62.32	5.14	67.46	294.54	55,36,070	3,69,992	59,06,062	1,88,44,538
	REIMBURSABLE EXPENSES													
1	TRANSPORTATION													
1	The Vehicles provided by the Consultants shall include the cost for the rental, drivers, operation, maintenance, repairs, insurance etc.	Month		170	50,000	85,00,000	16	2	18	152	6,56,584	98,000	7,54,584	77,45,416
2	DUTY TRAVEL TO SITE (REIMBURSABLE)													
2	Local Air Travel													
a	Professional Staff	Round Trip		10	20,000	2,00,000	4	0	4	6	80,000	0	80,000	1,20,000
b	Sub Professional Staff	Round Trip		80	10,000	8,00,000	3	0	3	77	30,000	0	30,000	7,70,000
3	OFFICE RENT (REIMBURSABLE)													
1	The Rent Cost include maintenance, cleaning, repairs etc.	Month		77	1,00,000	77,00,000	14.40	1	15.40	61.60	14,40,000	1,00,000	15,40,000	61,60,000

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneration / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (March 2021)	Person Months/ Quantity Spent for current month (April 2021)	Total Person Months/ quantity spent upto current month (April 2021)	Balance Carried over	Amount Booked as on last Month (March 2021)	Amount Booked for this Invoice (April 2021)	Total Booked upto this Invoice	Balance Amount
4	OFFICE SUPPLIES, UTILITIES & COMMUNICATION (REIMBURSABLE)													
1	Office supplies	No.		77	10,000	7,70,000	12.57	1	13.57	63.43	1,25,700	10,000	1,35,700	6,34,300
2	Drafting supplies	No.		77	6,000	4,62,000	12.57	1	13.57	63.43	75,420	6,000	81,420	3,80,580
3	Computer running costs	No.		77	5,000	3,85,000	12.57	1	13.57	63.43	62,850	5,000	67,850	3,17,150
4	Domestic communication	No.		77	15,000	11,55,000	12.57	1	13.57	63.43	1,88,550	15,000	2,03,550	9,51,450
5	OFFICE FURNITURE & EQUIPMENT (REIMBURSABLE)													
A	Office Furniture (Purchase)													
1	Work Station Table & Chairs	No.		LS	5,00,000	5,00,000	LS	0	LS	0	5,00,000	0	5,00,000	0
2	Conference Hall Table & Chairs	No.		LS	2,50,000	2,50,000	LS	0	LS	0	2,50,000	0	2,50,000	0
3	Office Interiors	No.		LS	10,00,000	10,00,000	LS	0	LS	0	10,00,000	0	10,00,000	0
B	Office Equipment (Purchase)													
1	Multipurpose Copy Machine	No.		1	2,00,000	2,00,000	1	0	1	0	2,00,000	0	2,00,000	0
	A0,A1,A2 Plotter	No.		1	5,00,000	5,00,000	1	0	1	0	5,00,000	0	5,00,000	0
2	Laser Printers	No.		1	1,00,000	1,00,000	0	0	0	1	0	0	0	1,00,000
3	Desktop/Laptops	No.		15	60,000	9,00,000	10	0	10	5	6,00,000	0	6,00,000	3,00,000
4	Refrigerator, Coffee Vending Machine, Oven etc.	No.		LS	1,00,000	1,00,000	LS	0	LS	LS	45,560	0	45,560	54,440
5	Office Attendance Biometric Systems	No.		LS	1,00,000	1,00,000	0	0	0	LS	0	0	0	1,00,000
6	Office Server	LS		1	10,00,000	10,00,000	1	0	1	0	10,00,000	0	10,00,000	0
7	Projector	No.		2	25,000	50,000	2	0	2	0	50,000	0	50,000	0
8	Video Conference with Display TVs	No.		1	3,00,000	3,00,000	1	0	1	0	3,00,000	0	3,00,000	0
9	Softwares	No.		LS	30,00,000	30,00,000	LS	LS	LS	LS	24,12,581	0	24,12,581	5,87,419
6	PER DIEM (PER DAY) ALLOWANCE (REIMBURSABLE)													
1	International	No.		810	5,000	40,50,000	280	30	310	500	14,00,000	1,50,000	15,50,000	25,00,000
2	National	No.		50	5,000	2,50,000	0	0	0	50	0	0	0	2,50,000

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneration / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (March 2021)	Person Months/ Quantity Spent for current month (April 2021)	Total Person Months/ quantity spent upto current month (April 2021)	Balance Carried over	Amount Booked as on last Month (March 2021)	Amount Booked for this Invoice (April 2021)	Total Booked upto this Invoice	Balance Amount
7	REPORTS & DOCUMENT PRINTING (REIMBURSABLE)													
1	Monthly Progress Report	No.		154	6,000	9,24,000	13	1	14	140	78,000	6,000	84,000	8,40,000
2	Design Report	No.		50	10,000	5,00,000	3	0	3	47	30,000	0	30,000	4,70,000
8	SURVEYS (REIMBURSABLE)													
1	Bathymetric Survey	No.		1	8,00,000	8,00,000	0	0	0	1	0	0	0	8,00,000
2	Geo-Technical Survey	No.		50	15,000	7,50,000	0	0	0	50	0	0	0	7,50,000
3	Water Sample Testing	No.		10	45,000	4,50,000	0	0	0	10	0	0	0	4,50,000
4	Topographical Survey	No.		600	5,000	30,00,000	45.86	0	45.86	554.14	1,89,406	0	1,89,406	28,10,594
	Sub Total 3 in INR					3,86,96,000					1,12,14,651	3,90,000	1,16,04,651	2,70,91,349
	GROSS INVOICE OF SMEC INDIA PVT. LTD.					11,10,20,600					2,41,15,939	14,75,937	2,55,91,876	8,54,28,724
	Deduction of Mobilisation Advance	Advance Amount = INR 5,551,030				55,51,030	No. of months = 77		4th Month of deduction		2,16,274	72,091	2,88,365	52,62,665
	INVOICE OF SMEC INDIA PVT. LTD. (INR)					10,54,69,570					2,38,99,665	14,03,846	2,53,03,511	8,01,66,059
	TATA CONSULTING ENGINEERS LTD.													
	Non-Key International Expert (in US Dollar)													
1	Mr.Manish Chintamani Sane	Specification Specialist [Distribution]	Field	3	11,560	34,680	0	0	0	3	0	0	0	34,680
2	Dr.Alok Kumar	Environmental Specialist	Field	15	12,750	1,91,250	2.59	0.00	2.59	12.41	33,023	0	33,023	1,58,228
3	Mr.Hyacinth Augusto Vaz	Organisational Expert	Field	9	10,950	98,550	0	1.00	1.00	8.00	0	10,950	10,950	87,600
	Sub Total 4 in USD			27		3,24,480	2.59	1.00	3.59	23.41	33,023	10,950	43,973	2,80,508
	INVOICE OF TATA CONSULTING ENGINEERS LTD. (USD)					3,24,480					33,023	10,950	43,973	2,80,508
	(Key Staff) - Local in Rupees													
1	Mr.S.Siddappaswamy	Senior Civil Engineer	Field	72	8,00,000	5,76,00,000	8.63	0.91	9.54	62.46	69,03,200	7,27,273	76,30,473	4,99,69,527
2	Mr.Nagesh Chinnam	Senior Pipeline Engineer	Field	72	6,00,000	4,32,00,000	9.04	1.00	10.04	61.96	54,22,800	6,00,000	60,22,800	3,71,77,200
	Sub Total 4 in INR			144		10,08,00,000	17.67	1.91	19.58	124.42	1,23,26,000	13,27,273	1,36,53,273	8,71,46,727

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneration / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (March 2021)	Person Months/ Quantity Spent for current month (April 2021)	Total Person Months/ quantity spent upto current month (April 2021)	Balance Carried over	Amount Booked as on last Month (March 2021)	Amount Booked for this Invoice (April 2021)	Total Booked upto this Invoice	Balance Amount
	Non-Key Expert [National] in Rupees													
3	Mr.Mayur Gupta (Replaced for Mr.Surajit Debnath)	Mechanical Engineer	Field	40	5,00,000	2,00,00,000	2.72	0	2.72	37.28	13,60,000	0	13,60,000	1,86,40,000
4	Mr.Om Prakash Singh (Replaced for Mr.GVK Mohan)	Electrical Engineer	Field	45	5,00,000	2,25,00,000	3.31	0.55	3.86	41.14	16,55,000	2,72,727	19,27,727	2,05,72,273
5	Ms.Sudha J. (Replaced for Mr.Vinod MK)	Structural Engineer	Field	28	6,25,000	1,75,00,000	4.23	0.32	4.55	23.45	26,43,750	1,98,864	28,42,614	1,46,57,386
6	Mrs.Kirti Alhad Sadarjoshi (Replaced for Mr.Kumar M)	Architect	Field	12	4,75,000	57,00,000	2.59	0.00	2.59	9.41	12,30,250	0	12,30,250	44,69,750
7	Mr.K.Senthil	Building Mechanical & Electrical Engineer	Field	16	5,50,000	88,00,000	0.23	0.00	0.23	15.77	1,26,500	0	1,26,500	86,73,500
8	Mr.S.Sreenivasula reddy	Specification Specialist	Field	4	5,00,000	20,00,000	0.00	0.00	0.00	4.00	0	0	0	20,00,000
9	Mr.S.M.Karthikaeswaran	Environmental Specialist	Field	30	5,00,000	1,50,00,000	11.35	0.95	12.30	17.70	56,74,500	4,77,273	61,51,773	88,48,227
10	Mr.Hema Kumar	Pipeline Engineer-3	Field	50	2,40,000	1,20,00,000	0.00	0.00	0.00	50.00	0	0	0	1,20,00,000
11	Mr.Najas Thattakatte Abdul Kareem	Safety & Health Expert-1	Field	40	2,40,000	96,00,000	0.00	0.00	0.00	40.00	0	0	0	96,00,000
12	Mr.Prashant Balan	Safety & Health Expert-2	Field	70	2,40,000	1,68,00,000	0.00	0.00	0.00	70.00	0	0	0	1,68,00,000
13	Mr.V.S.Rajasekar	Quantity Surveyor-2	Field	70	2,40,000	1,68,00,000	4.81	0.95	5.76	64.24	11,53,920	2,29,091	13,83,011	1,54,16,989
	Sub Total 5 in INR			405		14,67,00,000	29.24	2.77	32.01	372.99	1,38,43,920	11,77,955	1,50,21,875	13,16,78,125
	REIMBURSABLE EXPENSES													
1	TRANSPORTATION													
1	The Vehicle provided by the consultants shall include the cost for the rental, drivers, operation, maintenance, repairs, insurance etc.	Months		200	50,000	1,00,00,000	13.06	2	15.06	184.94	5,77,418	79,590	6,57,008	93,43,002
2	Local Air travel													
	Professional Staff	Return Trip		50	20,000	10,00,000	5.50	0	5.50	44.50	1,10,000	0	1,10,000	8,90,000
	Sub Total 6 in INR					1,10,00,000					6,87,418	79,590	7,67,008	1,02,33,002
	GROSS INVOICE OF TATA CONSULTING ENGINEERS LTD.					25,85,00,000					2,68,57,338	25,84,817	2,94,42,155	22,90,57,855
	Deduction of Mobilisation Advance	Advance Amount = INR 12,925,000				1,29,25,000	No. of months = 77		4th Month of deduction		5,03,571	1,67,857	6,71,429	1,22,53,571
	INVOICE OF TATA CONSULTING ENGINEERS LTD. (INR)					24,55,75,000					2,63,53,767	24,16,960	2,87,70,727	21,68,04,283
	NJS ENGINEERS INDIA PVT. LTD.													

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remunerati on / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (March 2021)	Person Months/ Quantity Spent for current month (April 2021)	Total Person Months/ quantity spent upto current month (April 2021)	Balance Carried over	Amount Booked as on last Month (March 2021)	Amount Booked for this Invoice (April 2021)	Total Booked upto this Invoice	Balance Amount
I	REMUNERATION													
	Key Staff- International Expert (in US Dollars)													
1	Dr.Ghulam Mustafa	Desalination Expert	Field	29.50	26,225	7,73,638	11.94	0.77	12.71	16.79	3,13,127	20,265	3,33,392	4,40,246
2	Dr.Uday G. Kelkar	Additional Key Expert - International	Field	2.50	26,225	65,563	1.15	0.14	1.29	1.21	30,161	3,576	33,739	31,824
3	Mr.Tharloak S.Bhatt	Contract Specialist (Distribution)	Field	8	22,700	1,81,600	0	0	0	8	0	0	0	1,81,600
	Non-Key - International Expert													
4	Mr.Madhawa Delpachitra	Mechanical Engineer (Distribution)	Field	4	22,700	90,800	0.00	0.00	0.00	4.00	0	0	0	90,800
5	Mr.Manfred Kurt (Meisner)	Electrical Engineer (Distribution)	Field	4	23,500	94,000	0.00	0.00	0.00	4.00	0	0	0	94,000
	Sub Total 5 in USD			48		12,05,600	13.09	0.91	14.00	34.00	3,43,288	23,841	3,67,131	8,38,469

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remunerati on / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (March 2021)	Person Months/ Quantity Spent for current month (April 2021)	Total Person Months/ quantity spent upto current month (April 2021)	Balance Carried over	Amount Booked as on last Month (March 2021)	Amount Booked for this Invoice (April 2021)	Total Booked upto this Invoice	Balance Amount
II	REIMBURSABLE EXPENSES													
2	DUTY TRAVEL TO SITE (in US Dollar)													
1	International Air Travel													
	Professional Staff	Return Trip		10	3,000	30,000	0	0	0	10	0	0	0	30,000
	Sub Total 6 in USD					30,000					0	0	0	30,000
	INVOICE OF NJS ENGINEERS INDIA PVT. LTD. (USD)					12,35,600					3,43,288	23,841	3,67,131	8,68,469
	Non-Key Expert [National]- in Rupees													
6	Mr.Rahul N Ramdhan (Replaced for Mr.Chandra Sekhar Reddy Yedla)	Pipeline Engineer 1	Field	60	4,30,000	2,58,00,000	3.77	0.00	3.77	56.23	16,21,100	0	16,21,100	2,41,78,900
7	Mr.P.Thangavel (Replaced for Mr.V.Tulasi Ram)	Pipeline Engineer - 2	Field	60	4,30,000	2,58,00,000	5.14	0.95	6.09	53.91	22,10,200	4,10,455	26,20,655	2,31,79,345
8	Mr.Saravanan P M	Hydraulic Modeller - 1	Field	8	4,30,000	34,40,000	0.41	0.91	1.32	6.68	1,76,300	3,90,909	5,67,209	28,72,791
9	Ms.V.Nandhini	Hydraulic Modeller - 2	Field	8	4,30,000	34,40,000	0.00	0	0	8	0	0	0	34,40,000
10	Mrs.R.Kanmani (Replaced for Dr.M.Rajsekhar Reddy)	Social Communication Specialist	Field	72	5,00,000	3,60,00,000	5.90	1.00	6.90	65.10	29,50,000	5,00,000	34,50,000	3,25,50,000
	Support Staff (in Rupees)													
11	Mr.G.Murali	CAD Operator-1	Field	30	1,00,000	30,00,000	11.30	0.95	12.25	17.75	11,30,000	95,455	12,25,455	17,74,545
12	Ms.J.Nithya	CAD Operator-2	Field	30	1,00,000	30,00,000	3.68	0.95	4.63	25.37	3,68,000	95,455	4,63,455	25,36,545
13	Mr.Vijay Kumar	CAD Operator-3	Field	30	1,00,000	30,00,000	2.77	0.55	3.32	26.68	2,77,000	54,545	3,31,545	26,68,455
14	Mr.Suresh Mohan Dwivedi	GIS Operator	Field	18	2,50,000	45,00,000	4.50	0.77	5.27	12.73	11,25,000	1,93,182	13,18,182	31,81,818
15	TBN	Site Inspector-1	Field	50	1,35,000	67,50,000	0	0	0	50	0	0	0	67,50,000
16	TBN	Site Inspector-2	Field	50	1,35,000	67,50,000	0	0	0	50	0	0	0	67,50,000
17	TBN	Site Inspector-3	Field	50	1,35,000	67,50,000	0	0	0	50	0	0	0	67,50,000
18	TBN	Site Inspector-4	Field	50	1,35,000	67,50,000	0	0	0	50	0	0	0	67,50,000
19	TBN	MIS Specialist	Field	50	2,60,000	1,30,00,000	0	0	0	50	0	0	0	1,30,00,000
	Sub Total 7 in INR			566		14,79,80,000	37.47	6.09	43.56	522.44	98,57,600	17,40,000	1,15,97,600	13,63,82,400

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneration / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (March 2021)	Person Months/ Quantity Spent for current month (April 2021)	Total Person Months/ quantity spent upto current month (April 2021)	Balance Carried over	Amount Booked as on last Month (March 2021)	Amount Booked for this Invoice (April 2021)	Total Booked upto this Invoice	Balance Amount
1	TRANSPORTATION													
1	The Vehicle provided by the consultants shall include the cost for the rental, drivers, operation, maintenance, repairs, insurance etc.	Months		84	50,000	42,00,000	7.40	1	8.40	75.60	3,00,729	44,600	3,45,329	38,54,671
2	DUTY TRAVEL TO SITE													
2	Local Air Travel													
b	Sub Professional Staff	Return Trip		20	10,000	2,00,000	1.50	0.50	2.00	18.00	19,292	5,000	24,292	1,75,708
6	PER DIEM													
1	International	Day		1,440	5,000	72,00,000	12	0	12	1,428	60,000	0	60,000	71,40,000
	Sub Total 8 in INR					1,16,00,000					3,80,021	49,600	4,29,621	1,11,70,379
	INVOICE OF NJS ENGINEERS INDIA PVT. LTD. (INR)					15,95,80,000					1,02,37,621	17,89,600	1,20,27,221	14,75,52,779
	Grand Total in INR					52,91,00,600					6,12,10,898	58,50,354	6,70,61,252	46,20,39,358
	Grand Total in USD					89,39,965					13,45,687	82,995	14,28,686	75,11,279
	Contingencies @ 5% (in INR)					2,64,55,030								
	Contingencies @ 5% (in USD)					4,46,998								
	Provisional Sum (in INR)					2,00,00,000								
	Provisional Sum (in USD)					25,000								
	GRAND TOTAL COST IN INR					57,55,55,630								
	GRAND TOTAL COST IN USD					94,11,963								
	PROJECTED FINANCIAL PROGRESS till the end of April 2021	6,70,61,252	in INR	Total project cost		57,55,55,630	INR			% Financial Progress till the end of April 2021		11.65%	in INR	
		14,28,686	in USD			94,11,963	USD					15.18%	in USD	
	ACTUAL FINANCIAL PROGRESS (Based on Bills Passed till the end of April 2021)	3,20,74,726.00	in INR							% Actual Financial Progress till the end of April 2021		5.57%	in INR	
		8,03,407.24	in USD									8.54%	in USD	

In addition to the above for SMEC India Pvt. Ltd., the Mobilisation advance payment in Local Currency (5% of Contract value) received on 19.05.2020 as against Advance Bank Guarantee

In addition to the above for SMEC International Pty Ltd, the Mobilisation advance payment in Foreign Currency (5% of Contract value) received on 17.09.2020 as against Advance Bank Guarantee

In addition to the above for TATA Consulting Engineers Ltd., the Mobilisation advance payment in Local Currency (5% of Contract value) received on 22.10.2020 as against Advance Bank Guarantee

Chennai Metropolitan Water Supply & Sewerage Board
CHENNAI 400 MLD DESALINATION PLANT & ALLIED WORKS

STATEMENT OF TIME

MONTH : April 2021

Sl. No.	Name of the Staff	Position	TIME AS SPENT ON THE JOB																														Total No. of Days Worked	Man Month	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
	SMEC INTERNATIONAL PTY LTD																																		
	Key Expert - International Expert																																		
1	Dr.Pararajasegram Dharmabalan	Project Manager	1	0	0	0	1	0	0	1	1	0	0	1	1	0	0	1	0	0	1	1	0	1	1	0	0	1	1	1	1	0	15	0.68	
2	Mr.Shane Farquharson	Water Supply Engineer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
3	Mr.Michel Morillon	Mechanical Engineer (Desal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
4	Mr.Guilbert Z Gonzales (Replaced for Mr.Sergio de Bastos Vilar Magalhaes Paulo)	Electrical Engineer (Desal)	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	1	1	1	1	1	22	1.00
5	Mr.John Goullee	Pipeline Engineer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6	Mr.Abdel Toukan (Replaced for Mr.Roderick Mackenzie)	Contract Specialist (Desal)	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.18	
	Non-Key Expert - International Expert																																		
7	Mr.Afzal Abdul Latheef (Replaced for Mr.Manikandan Ganesh Shoranur)	Monitoring and Control Expert (Desal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	

Chennai Metropolitan Water Supply & Sewerage Board
CHENNAI 400 MLD DESALINATION PLANT & ALLIED WORKS

Sl. No.	Name of the Staff	Position	TIME AS SPENT ON THE JOB																														Total No. of Days Worked	Man Month	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
	SMEC INDIA PRIVATE LIMITED																																		
	Non-Key Expert - International Expert																																		
1	Dr.D.Elanchezian	Civil and Structure Engineer (Desal)	0																														0	0.00	
2	Mr.Ashish Gosain	Monitoring and Control Expert (Distribution)	0																														0	0.00	
3	Mr.Ganesh Venkataraman (Replaced for Mr.J.Shanmuganathan)	Specification Specialist (Desal)	1																														1	0.05	
4	Mr.Hemant Chadha	Financial Expert	0						1	0	1																						2	0.09	
5	Mr.Santhosh Kumar	Commissioning Engineer	0																														0	0.00	
6	Mr.Rajesh Mishra	Social Communication Specialist	0																														0	0.00	
	Non-Key Expert - Local Expert																																		
1	Mr.Ramesh Senthil	Civil Engineer	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	A	21	0.95
2	Mr.N.Srinivasulu Reddy	Construction Planner / Cost Estimator	0																														0	0.00	
3	Mr.R.Muthurajan (Replaced for Mr.K.C.Vinod Chandra)	Quantity Surveyor - 1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	22	1.00	

Chennai Metropolitan Water Supply & Sewerage Board
CHENNAI 400 MLD DESALINATION PLANT & ALLIED WORKS

Sl. No.	Name of the Staff	Position	TIME AS SPENT ON THE JOB																														Total No. of Days Worked	Man Month
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
	Support Staff																																	
4	Mr.B.Ajithkumar	Secretary	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	22	1.00	
5	Mrs.P.Prashanthi	Geo-technical Engineer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6	Mr.Santosh Biswa	Contract Management Specialist	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5	0.23	
7	Mr.A.Renu Kumar	Visa & Admin. Officer	1	1	0	0	A	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	21	0.95	
8	Mr.K.Manikandan	Accountant	1	1	0	0	1	1	1	1	1	0	0	1	A	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	21	0.95	
9	Mr.P.Raja (Replaced for Mr.R.Jagan)	Office Keeper-1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	22	1.00	
10	Mr.T.Someswaran (Replaced for Mr.G.Arjun)	Office Keeper-2	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	22	1.00	

Chennai Metropolitan Water Supply & Sewerage Board
CHENNAI 400 MLD DESALINATION PLANT & ALLIED WORKS

Sl. No.	Name of the Staff	Position	TIME AS SPENT ON THE JOB																														Total No. of Days Worked	Man Month
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
	TATA CONSULTING ENGINEERS LTD.																																	
	Non-Key - International Expert																																	
1	Mr.Manish Chintamani Sane	Specification Specialist [Distribution]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2	Dr.Alok Kumar	Environmental Specialist	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3	Mr.Hyacinth Augusto Vaz	Organisational Expert	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	22	
	Key Expert - Local Expert																																	
1	Mr.S.Siddappaswamy	Senior Civil Engineer	A	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	20	
2	Mr.Nagesh Chinnam	Senior Pipeline Engineer	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	22	
	Non-Key Expert - Local Expert																																	
3	Mr.Mayur Gupta (Replaced for Mr.Surajit Debnath)	Mechanical Engineer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	Mr.Om Prakash Singh (Replaced for Mr.GVK Mohan)	Electrical Engineer	1	1	0	0	A	0	A	A	A	0	0	A	A	0	A	A	0	0	1	1	1	1	1	0	0	1	1	1	1	1	12	
5	Ms.Sudha J. (Replaced for Mr.Vinod MK)	Structural Engineer	1	1	0	0	1	1	1	1	1	0	0	A	A	0	A	A	0	0	A	A	A	A	A	0	0	A	A	A	A	A	7	
6	Mrs.Kirti Alhad Sadarjoshi (Replaced for Mr.Kumar M)	Architect	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Mr.K Senthil	Building Mechanical & Electrical Engineer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Mr.S.Sreenivasula Reddy	Specification Specialist	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	Mr.S.M.Karthikaeswaran	Environmental Specialist	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	A	1	1	1	1	21	
10	Mr.S.Hema Kumar	Pipeline Engineer-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	Mr.Najas Thattakatte Abdul Kareem	Safety & Health Expert-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Mr.Prashant Balan	Safety & Health Expert-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Mr.V.S.Rajasekar	Quantity Surveyor-2	1	1	0	0	A	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	21	

Chennai Metropolitan Water Supply & Sewerage Board
CHENNAI 400 MLD DESALINATION PLANT & ALLIED WORKS

Sl. No.	Name of the Staff	Position	TIME AS SPENT ON THE JOB																														Total No. of Days Worked	Man Month
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
	NJS ENGINEERS INDIA PVT. LTD.																																	
	Key Expert - International Expert																																	
1	Dr.Ghulam Mustafa	Desalination Expert	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	17	0.77
2	Dr.Uday G.Kelkar	Additional Key Expert - International	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0.14
3	Mr.Tharloak S.Bhatt	Contract Specialist (Distribution)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
	Non-Key Expert - International Expert																																	
4	Mr.Madhawa Delpachitra	Mechanical Engineer (Distribution)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
5	Mr.Manfred Kurt (Meisner)	Electrical Engineer (Distribution)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
	Non-Key Expert - Local Expert																																	
6	Mr.Rahul N Ramdhan (Replaced for Mr.Chandra Sekhar Reddy Yedla)	Pipeline Engineer-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
7	Mr.P.Thangavel (Replaced for Mr.V.Tulasi Ram)	Pipeline Engineer - 2	1	1	0	0	A	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	21	0.95
8	Mr.Saravanan P M	Hydraulic Modeller-1	1	1	0	0	1	1	A	1	1	0	0	1	1	1	A	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	20	0.91
9	Mrs.V.Nandhini	Hydraulic Modeller - 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
10	Mrs.R.Kanmani (Replaced for Dr.M.Rajsekhar Reddy)	Social Communication Specialist	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	22	1.00

Chennai Metropolitan Water Supply & Sewerage Board
CHENNAI 400 MLD DESALINATION PLANT & ALLIED WORKS

Sl. No.	Name of the Staff	Position	TIME AS SPENT ON THE JOB																														Total No. of Days Worked	Man Month
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
	Support Staff																																	
11	Mr.G.Murali	CAD Operator-1	1	1	0	0	A	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	21	0.95
12	Ms.J.Nithya	CAD Operator-2	1	1	0	0	A	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	21	0.95
13	Mr.Vijay Kumar	CAD Operator-3	1	1	0	0	1	1	1	1	1	0	0	A	A	0	A	A	0	0	A	A	A	A	A	0	0	1	1	1	1	1	12	0.55
14	Mr.Suresh Mohan Dwivedi	GIS Operator	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	17	0.77
15	TBN	Site Inspector-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
16	TBN	Site Inspector-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
17	TBN	Site Inspector-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
18	TBN	Site Inspector-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
19	TBN	MIS Specialist	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total																														479	21.77			

Holiday : Saturday, Sunday
 Government Public Holiday 02.04.2021: Good Friday; 06.04.2021: Tamil Nadu State Assembly Election Day; 14.04.2021: Tamil New Year Day / Ambedkar Jayanthi
 Absent

Annexure 6 Personnel Inputs Summary

PERSONNEL INPUT SUMMARY FOR APRIL 2021

Sl. No.	Key activity / significant task carried out	List of PMC team members	Working on Delivery
1	<ul style="list-style-type: none"> Due to COVID-19 Pandemic issues globally, the Government of Tamil Nadu announced the extended partial lockdown period from 01.04.2021 to 30.04.2021 throughout Tamil Nadu and International staffs (outside Chennai) are allowed to work on the Project as Work From Home option. Preparation and review of Draft Bidding Document (Part I, II III & IV) for CP1 component on DBO basis from 01.04.2021 to 30.04.2021 Preparation of Concept Design Report (Final) for CP1 component on DBO basis from 01.04.2021 to 23.04.2021 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Dr.Ghulam Mustafa (Desalination Expert); Mr.Abdel Fattah Toukan (Contract Specialist, International Expert); Mr.Guilbert Z Gonzales (Electrical Engineer, Desal); Mr.Ganesh.V (Specification Specialist (Desal)); Mr.Hemant Chadha (Finance Specialist); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist); Dr.Alok Kumar (Environmental Specialist); Mr.S.M.Karthikaeswaran (Environmental Specialist); Mr.Rajesh Mishra (Social Communication Specialist); Mrs.R.Kanmani (Social Communication Specialist)	Submission of Draft Bidding Document (Rev.7) for CP1 component on DBO basis on 19.04.2021
2	<ul style="list-style-type: none"> Meeting at 1st floor conference hall of CMWSSB and Online Microsoft Teams Meeting conducted by Superintending Engineer (Desal) for a discussion on the Draft Bidding Document (Part-II) Employer's Requirements for CP1 component on DBO basis on 01.04.2021. 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Dr.Ghulam Mustafa (Desalination Expert); Ms.J.Sudha (Structural Engineer); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	

Sl. No.	Key activity / significant task carried out	List of PMC team members	Working on Delivery
3	<ul style="list-style-type: none"> Meeting at 1st floor conference hall of CMWSSB and Online Microsoft Teams Meeting with Chief Engineer (Project-II) and Chief Engineer Project-III) and CMWSSB officials for a discussion on the updated responses for JICA's comments on Bidding Document for CP1 component on DBO basis on 07.04.2021 	Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Mr.Hemant Chadha (Finance Specialist); Mr.Pushpendra Sharma (Legal Expert); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Preparation of updated responses to JICA's comments on Draft Bidding Document (Part-I & III) for CP1 component on DBO basis
4	<ul style="list-style-type: none"> Meeting at 1st floor conference hall of CMWSSB and Online Microsoft Teams Meeting with Managing Director (CMWSSB) and CMWSSB officials for a discussion on the updated responses for JICA's comments on Bidding Document for CP1 component on DBO basis on 07.04.2021 		
5	<ul style="list-style-type: none"> Meeting at 1st floor conference hall of CMWSSB and Online Microsoft Teams Meeting with Chief Engineer (Project-II) and Chief Engineer Project-III) and CMWSSB officials for a discussion on the updated responses for JICA's comments on Bidding Document for CP1 component on DBO basis on 08.04.2021 		
6	<ul style="list-style-type: none"> Online Microsoft Teams Meeting conducted by Project Co-ordinator (PMC) for a discussion on the work allocation of Draft Bidding Document review for the specific tasks allocated / working deliverables/ activities, project status for CP1 component on 09.04.2021 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Srinivasarao (Project Coordinator); Mr.S.Siddappaswamy (Senior Civil Engineer); Dr.Ghulam Mustafa (Desalination Expert); Mr.Guilbert Z Gonzales (Electrical Engineer, Desal); Mr.S.M.Karthikaeswaran (Environmental Specialist); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	








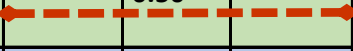


Sl. No.	Key activity / significant task carried out	List of PMC team members	Working on Delivery
7	<ul style="list-style-type: none"> Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the issues/ concerns for the specific tasks allocated / working deliverables/ activities, project status for CP2 and CP4 components on 09.04.2021 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.R.Senthil (Civil Engineer); Ms.J.Sudha (Structural Engineer); Mr.Om Prakash Singh (Electrical Engineer); Mr.P.Thangavel (Pipeline Engineer-2); Mr.P.M.Saravanan (Hydraulic Modeller-1); Mr.R.Muthurajan (Quantity Surveyor-1); Mr.V.S.Rajasekar (Quantity Surveyor-2); Mr.Suresh Mohan Dwivedi (GIS Operator)	Preparation of Preliminary Design Report and Drawings for CP2 and CP4 component
8	<ul style="list-style-type: none"> Preparation of Monthly Progress Report (MPR 14) for March 2021 from 01.04.2021 to 09.04.2021 	Dr.Dharmabalan (Project Manager, International Expert); Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.R.Senthil (Civil Engineer); Mr.B.Ajithkumar (Secretary)	MPR 14 (10 copies) submitted on 09.04.2021
9	<ul style="list-style-type: none"> Preparation of Quarterly Progress Report (QPR 05) for January 2021 to March 2021 from 12.04.2021 to 13.04.2021 	Dr.Dharmabalan (Project Manager, International Expert); Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.R.Senthil (Civil Engineer); Mr.B.Ajithkumar (Secretary)	QPR 05 (10 copies) submitted on 15.04.2021
10	<ul style="list-style-type: none"> Online Microsoft Teams Meeting conducted by Senior Civil Engineer (PMC) for a discussion on the Draft Bidding Document for CP1 component on DBO basis on 15.04.2021 	Dr.Dharmabalan (Project Manager, International Expert); Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.Guilbert Z Gonzales (Electrical Engineer, Desal); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Preparation of updated Draft Bidding Document (Part-II Employer's Requirements) for CP1 component on DBO basis

Sl. No.	Key activity / significant task carried out	List of PMC team members	Working on Delivery
11	<ul style="list-style-type: none"> Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the finalisation of Concept Design Report (Final) for CP1 component on DBO basis on 16.04.2021 	Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Dr.Ghulam Mustafa (Desalination Expert); Mr.Afzal Abdul Latheef (Monitoring & Control Expert, Desal); Mr.S.M.Karthikaeswaran (Environmental Specialist); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Submission of Concept Design Report (Final) for CP1 component on DBO basis on 23.04.2021
12	<ul style="list-style-type: none"> Review and understanding of Minutes on Discussion and JICA Preparatory Survey Report Preparation of Preliminary Report on Capacity Development and Organisational Development from 01.04.2021 to 30.04.2021 	Mr.Hyacinth Augusto Vaz, (Organisational Expert); Mr.S.Siddappaswamy (Senior Civil Engineer)	Preparation of Preliminary Report on Capacity Development and Organisational Development
13	<ul style="list-style-type: none"> Online Microsoft Teams Meeting conducted by Chief Engineer (Project-III) and CMWSSB Area officials for a discussion on the progress of work and data collection for CMWSSB Area XIII for CP4 component on 20.04.2021 	Dr.Dharmabalan (Project Manager, International Expert); Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.R.Senthil (Civil Engineer); Mr.P.Thangavel (Pipeline Engineer-2); Mr.P.M.Saravanan (Hydraulic Modeller-1); Mr.R.Muthurajan (Quantity Surveyor-1); Mr.V.S.Rajasekar (Quantity Surveyor-2); Mr.Suresh Mohan Dwivedi (GIS Operator)	Preparation of Preliminary Design Report and Drawings for CP4 component
14	<ul style="list-style-type: none"> Discussion with EE (400 MLD Desalination) CMWSSB officials regarding the population projection and water allocation details for the CP4 component on 21.04.2021 	Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer)	

Sl. No.	Key activity / significant task carried out	List of PMC team members	Working on Delivery
15	<ul style="list-style-type: none"> Online Microsoft Teams Meeting conducted by Senior Civil Engineer (PMC) for a discussion on the Draft Bidding Document for CP1 component on DBO basis on 21.04.2021 and 22.04.2021 	Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Preparation of Updated Draft Bidding Document for CP1 component on DBO basis
16	<ul style="list-style-type: none"> Preparation of estimate for proposed site development, Administrative Building, Microbiology Building, Retaining Wall, Compound Wall, Storm Water Drains, Internal Road etc. for CP1 component from 01.04.2021 to 15.04.2021 	Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.R.Senthil (Civil Engineer); Mr.R.Muthurajan (Quantity Surveyor-1)	Finalisation of Cost Estimate for civil works for Final Concept Design Report for CP1 component on DBO basis
17	<ul style="list-style-type: none"> Preparation of revised Rate Analysis and Cost Estimates as per current Schedule of Rates for the year 2020-21 for proposed transmission main for CP3-1 to CP3-4 components from 09.04.2021 to 23.04.2021 	Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.R.Muthurajan (Quantity Surveyor-1); Mr.V.S.Rajasekar (Quantity Surveyor-2)	Submission of updated cost estimate for CP3 component on 23.04.2021
18	<ul style="list-style-type: none"> Preparation of Ward wise existing distribution network drawings of Area XIII- Adyar for verification/authentication by Ward/ Depot Area Engineers for CP4 component from 01.04.2021 to 26.04.2021 	Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.Suresh Mohan Dwivedi (GIS Operator); Mr.G.Murali (CAD Operator-1); Ms.J.Nithya (CAD Operator-2); Mr.Vijay Kumar (CAD Operator-3)	Ward-wise existing distribution network drawings of Area XIII- Adyar for verification/authentication by Ward/ Depot Area Engineer was submitted on 26.04.2021
19	<ul style="list-style-type: none"> Topographical survey work including the establishment of benchmarks for Area X and XIII for CP4 component from 19.03.2021 to 24.04.2021 	Mr.Nagesh Chinnam (Sr. Pipeline Engineer); Mr.P.Thangavel (Pipeline Engineer-2); Mr.R.Muthurajan (Quantity Surveyor-1); Mr.V.S.Rajasekar (Quantity Surveyor-2)	Finalisation of topographical survey fieldwork for CP4 component
20	Preparation of drawings for Plot Area required for Proposed 240MLD GLR and Pumping Station at Porur WDS site from 29.04.2021	Mr.S.Siddappaswamy (Senior Civil Engineer); Mr.R.Senthil (Civil Engineer); Mr.Suresh Mohan Dwivedi (GIS Operator); Mr.G.Murali (CAD Operator-1); Ms.J.Nithya (CAD Operator-2)	Submission of drawings on Plot Area required for Proposed 240 MLD GLR and Pumping Station at Porur WDS site for CP2 component on 30.04.2021

Annexure 7 Team Deployment Schedule for Next months











ANNEXURE 7 STAFF DEPLOYMENT SCHEDULE FOR ALL PACKAGES (PLAN FOR NEXT MONTHS)

Sl. No.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-1	Design / Tender Phase - Deployment Requirement			
						May-21	Jun-21	Jul-21	Total Man-months requirement in Design / Tender Phase
COMMON STAFF FOR ALL PACKAGE									
1	SMEC International Pty Ltd.	Project Manager	Dr.P.Dharmabalan	70	70		3		3
2	TATA Consulting Engineers Ltd.	Senior Civil Engineer	Mr.S.Siddappaswamy	72	72		3		3
3	TATA Consulting Engineers Ltd.	Environmental Specialist	Dr.Alok Kumar	15	15		0.50		0.50
4	SMEC India Pvt Ltd.	Social Communication Specialist	Mr.Rajesh Mishra	16	16		1		1
5	TATA Consulting Engineers Ltd.	Environmental Specialist	Mr.S.M.Karthikaeswaran	30	30		3		3
6	NJS Engineers India Pvt. Ltd.	Social Communication Specialist	Mrs.R.Kanmani (Replaced for Dr.M.Rajsekhar Reddy)	72	72		3		3
STAFF DEPLOYMENT SCHEDULE FOR CP-1 (PLAN FOR NEXT MONTHS)									
KEY STAFF									
7	NJS Engineers India Pvt. Ltd.	Desalination Expert	Dr.Ghulam Mustafa	32	29.50		2.50		2.50
8	NJS Engineers India Pvt. Ltd.	Additional Key Expert - International	Dr.Uday G. Kelkar		2.50		0.50		0.50
9	SMEC International Pty Ltd.	Mechanical Engineer (Desal)	Mr.Michel Morillon	15	15		0.50	0.50	1
10	SMEC International Pty Ltd.	Electrical Engineer (Desal)	Mr.Guilbert Z Gonzales (Replaced for Sergio de Bastos Vilar Magalhaes Paulo)	25	25		3		3

Sl. No.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-1	Design / Tender Phase - Deployment Requirement			
						May-21	Jun-21	Jul-21	Total Man-months requirement in Design / Tender Phase
11	SMEC International Pty Ltd.	Water Supply Engineer	Mr.Shane Farquharson	23	2		0.50		0.50
12	SMEC International Pty Ltd.	Pipeline Engineer	Mr.John Goullee	70	4		1		1
13	SMEC International Pty Ltd.	Contract Specialist (Desal)	Mr.Abdel Fattah Toukan (Replaced for Roderick Mackenzie)	9	9		2		2
NON-KEY STAFF									
14	SMEC India Pvt Ltd.	Civil and Structure Engineer (Desal)	Dr.D.Elancherian	42	42				0
15	SMEC India Pvt Ltd.	Monitoring and Control Expert (Desal)	Mr.Afzal Abdul Latheef (Manikandan Ganesh Shoranur)	11	11		0.50		0.50
16	SMEC India Pvt Ltd.	Specification Specialist (Desal)	Mr.Ganesh Venkataraman (Replaced for Mr.J.Shanmuganathan)	4	4		1		1
17	SMEC India Pvt Ltd.	Financial Expert	Mr.Hemant Chadha	3	3		0.50		0.50
18	SMEC India Pvt Ltd.	Quantity Surveyor 1	Mr.R.Muthurajan (Replaced for Vinod Chandra K.C)	50	30		2		2
19	TATA Consulting Engineers Ltd.	Mechanical Engineer	Mr.Mayur Gupta (Replaced for Surajit Debnath)	40	15				0
20	TATA Consulting Engineers Ltd.	Electrical Engineer	Mr.Om Prakash Singh (Replaced for G.V.K.Mohan)	45	15				0

Sl. No.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-1	Design / Tender Phase - Deployment Requirement			
						May-21	Jun-21	Jul-21	Total Man-months requirement in Design / Tender Phase
21	TATA Consulting Engineers Ltd.	Structural Engineer	Ms.Sudha J. (Replaced for Vinod M.K.)	28	10				0
22	TATA Consulting Engineers Ltd.	Architect	Mrs.Kirti Alhad Sadarjoshi (Replaced for Kumar.M)	12	6		1		1
23	TATA Consulting Engineers Ltd.	Building Mechanical and Electrical	Mr.K.Senthil	16	6		0.50	0.50	1
OTHER SUPPORT COMMON STAFF (ALL PACKAGES)									
24	SMEC India Pvt Ltd.	Secretary	Mr.B.Ajithkumar	70	70		3		3
25	SMEC India Pvt Ltd.	Contract Management Specialist	Mr.Santosh Biswa	6	6	0.14	0.18	0.18	0.50
26	SMEC India Pvt Ltd.	Geotechnical Engineer	Mrs.P.Prashanthi	6	6		1		1
27	SMEC India Pvt Ltd.	Visa & Admin. Officer	Mr.A.Renukumar	70	70		3		3
28	SMEC India Pvt Ltd.	Accountant	Mr.K.Manikandan	70	70		3		3
29	SMEC India Pvt Ltd.	Office Keeper-1	Mr.P.Raja (Replaced for Mr.R.Jagan)	70	70		3		3
30	SMEC India Pvt Ltd.	Office Keeper-2	Mr.T.Someswaran (Replaced for Mr.G.Arjun)	70	70		3		3


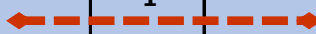





STAFF DEPLOYMENT SCHEDULE FOR CP-2 (PLAN FOR NEXT MONTHS)

Sl. No.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-2	Design Phase - Deployment Requirement			
						May-21	Jun-21	Jul-21	Total Man-months requirement in Design Phase
KEY STAFF									
1	SMEC International Pty Ltd.	Water Supply Engineer	Mr.Shane Farquharson	23	3		0.50		0.50
NON-KEY STAFF									
2	NJS Engineers India Pvt. Ltd.	Mechanical Engineer (Distribution)	Mr.Madhawa Delpachitra	4	4		0.50		0.50
3	NJS Engineers India Pvt. Ltd.	Electrical Engineer (Distribution)	Mr.Manfred Kurt (Meisner)	4	4		0.50		0.50
4	SMEC India Pvt Ltd.	Monitoring and Control Expert (Distribution)	Mr.Ashish Gosain	12	6		1		1
5	SMEC India Pvt Ltd.	Construction Planner/ Cost Estimator	Mr.Naisa Sreenivasulu Reddy	4	4		0.50		0.50
6	SMEC India Pvt Ltd.	Quantity Surveyor 1	Mr.R.Muthurajan (Replaced for Mr.Vinod Chandra K.C)	50	15		1		1
7	TATA Consulting Engineers Ltd.	Mechanical Engineer	(Replaced for Mr.Mayur Gupta / Mr.Surajit Debnath)	40	9				0
8	TATA Consulting Engineers Ltd.	Electrical Engineer	Mr.Om Prakash Singh (Replaced for Mr.G.V.K.Mohan)	45	10		2		2
9	TATA Consulting Engineers Ltd.	Structural Engineer	Ms.Sudha J. (Replaced for Mr.Vinod M.K.)	28	6		2		2
10	TATA Consulting Engineers Ltd.	Architect	Mrs.Kirti Alhad Sadarjoshi (Replaced for Mr.Kumar.M)	12	6			0.50	0.50
11	TATA Consulting Engineers Ltd.	Building Mechanical and Electrial	Mr.K.Senthil	16	10			0.50	0.50

STAFF DEPLOYMENT SCHEDULE FOR CP-3 (PLAN FOR NEXT MONTHS)

Sl. No.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-3	Design / Tender Support Phase - Deployment Requirement			
						May-21	Jun-21	Jul-21	Total Man-months requirement in Design Phase
KEY STAFF									
1	SMEC International Pty Ltd.	Pipeline Engineer	Mr.John Goullee	70	51		0.25		0.25
2	TATA Consulting Engineers Ltd.	Senior Pipeline Engineer	Mr.Nagesh Chinnam	72	51		0.25		0.25
NON-KEY STAFF									
3	SMEC India Pvt Ltd.	Civil Engineer	Mr.Ramesh Senthil	72	51		0.25		0.25
4	TATA Consulting Engineers Ltd.	Pipeline Engineer-3	Mr.Hema Kumar S.	50	50				0
5	TATA Consulting Engineers Ltd.	Safety and Health Expert-2	Mr.Prasanth Balan	70	50				0
6	TATA Consulting Engineers Ltd.	Quantity Surveyor-2	Mr.V.S.Rajasekar	70	30				0

STAFF DEPLOYMENT SCHEDULE FOR CP-4 (PLAN FOR NEXT MONTHS)

Sl. No.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-4	Design Phase - Deployment Requirement			
						May-21	Jun-21	Jul-21	Total Man-months requirement in Design Phase
KEY STAFF									
1	SMEC International Pty Ltd.	Water Supply Engineer	Mr.Shane Farquharson	23	18		1		1
2	SMEC International Pty Ltd.	Pipeline Engineer	Mr.John Goullee	70	15		1		1
3	TATA Consulting Engineers Ltd.	Senior Pipeline Engineer	Mr.Nagesh Chinnam	72	21		2.75		2.75
NON-KEY STAFF									
4	SMEC India Pvt Ltd.	Civil Engineer	Mr.Ramesh Senthil	72	21		2.75		2.75
5	NJS Engineers India Pvt. Ltd.	Pipeline Engineer-1	(Replaced for Mr.Rahul N Ramdhan / Mr.Chandra Shekhar Reddy Yedla)	60	60		2		2
6	NJS Engineers India Pvt. Ltd.	Pipeline Engineer-2	Mr.P.Thangavel (Replaced for V.Tulasi Ram)	60	60		3		3
7	NJS Engineers India Pvt. Ltd.	Hydraulic Modeler-1	Mr.P.M.Saravanan	8	8		3		3
8	NJS Engineers India Pvt. Ltd.	Hydraulic Modeler-2	Mrs.V.Nandhini	8	8				0

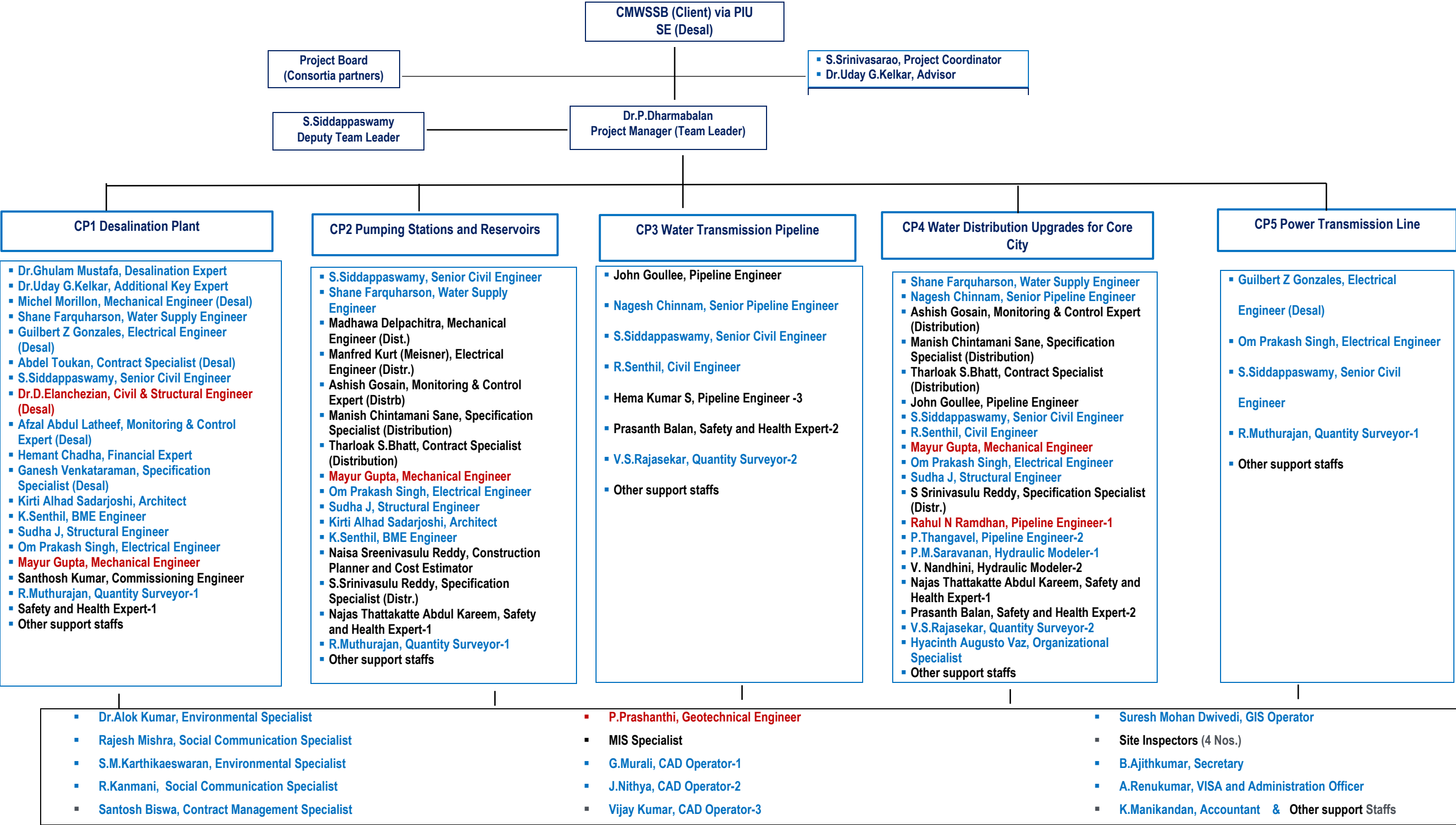
Sl. No.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-4	Design Phase - Deployment Requirement			
						May-21	Jun-21	Jul-21	Total Man-months requirement in Design Phase
9	TATA Consulting Engineers Ltd.	Mechanical Engineer	(Replaced for Mr.Mayur Gupta / Mr.Surajit Debnath)	40	16				0
10	TATA Consulting Engineers Ltd.	Electrical Engineer	Mr.Om Prakash Singh (Replaced for Mr.G.V.K.Mohan)	45	13		0.85		0.85
11	TATA Consulting Engineers Ltd.	Structural Engineer	Ms.Sudha J. (Replaced for Mr.Vinod M.K.)	28	8		1		1
12	TATA Consulting Engineers Ltd.	Safety and Health Expert-2	Mr.Prasanth Balan	70	20				0
13	TATA Consulting Engineers Ltd.	Quantity Surveyor-2	Mr.V.S.Rajasekar	70	40		3		3
14	TATA Consulting Engineers Ltd.	Organizational Specialist	Mr.Hyacinth Augusto Vaz	9	9	1			1
OTHER SUPPORT STAFF									
15	NJS Engineers Pvt. Ltd.	CAD Operator -1	Mr.G.Murali	30	30		3		3
16	NJS Engineers Pvt. Ltd.	CAD Operator -2	Ms.J.Nithya	30	30		3		3
17	NJS Engineers Pvt. Ltd.	CAD Operator -3	Mr.K.Vijaykumar	30	30		3		3
18	NJS Engineers Pvt. Ltd.	GIS Operator	Mr.Suresh Mohan Dwivedi	18	18		3		3

STAFF DEPLOYMENT SCHEDULE FOR CP-5 (PLAN FOR NEXT MONTHS)

Sl. No.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-5	Design / Tender Phase (Technical Assistance by PMC) - Deployment Requirement			
						May-21	Jun-21	Jul-21	Total Man-months requirement in Design / Tender Phase (Technical Assistance by PMC)
NON-KEY STAFF									
1	TATA Consulting Engineers Ltd.	Electrical Engineer	Mr.Om Prakash Singh (Replaced for	45	8	<div>◀-----0.15-----▶</div>			
2	TATA Consulting Engineers Ltd.	Safety and Health Expert-1	Mr.Najas Thattakatte Abdulkareem	40	8				0
3	SMEC India Pvt Ltd.	Quantity Surveyor 1	Mr.R.Muthurajan (Replaced for Mr.Vinod Chandra K.C)	50	5				0

Annexure 8 PMC Organisation Chart

Annexure 8 PMC Organisation Chart



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

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

