



CHENNAI METROPOLITAN WATER SUPPLY & SEWERAGE BOARD (CMWSSB)





MPR (12) / (January 2021)

PMC for Chennai Perur 400 MLD Desalination Plant and Allied Works

Reference No.: JICA Loan ID-P267

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

10 February 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

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DOCUMENT CONTROL

Document:	MPR (12) / (January 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 February 2021	PMC Team	S.Siddappaswamy	Dr.P.Dharmabalan

ISSUE REGISTER

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

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1 EXECUTIVE SUMMARY

This Monthly Progress Report for January 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 January 2021

Component	Key Message
-	 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 Pregualification document (RFQ) for CP1 on DBO basis as per JICA
	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 Pregualification 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
_	 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 Proft PER for CR1 commenced on PRO basis was submitted.
	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 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October to December 2020 (10 Quarterly Progress report (QPR 04) for October 10 QUarterly Progress report
	 Copies) was submitted on 18.01.2021 Brine Dispersion Model Report for Perur Desalination Plant (CP 1) was
	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 Progressive expenditure (at actuals, i.e. based on monthly bills
	passed till the end of January 2021) =1,54,72,083 (INR) and 409,354
	(USD)
	• 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.
	Monthly Progressive expenditure (Projected based on man-month
	consumed and reimbursable items till the end of January 2021) =
	4,57,42,995 (INR) and 1,097,588 (USD)
	Activities generally progressing on schedule
	 An accelerated program being followed for CP1, which brings forward the
	issue of the RFP to market by 4 to 5 months
	The emerging COVID-19 virus outbreak is being monitored, and CMWSSB
	is to be informed of any impact on the mobilisation of PMC personnel. Due
	to the COVID-19 issues pandemic across the globe, the Government of
	Tamil Nadu announced and extended the partial lockdown period from
	 01.01.2021 to 31.01.2021 throughout Tamil Nadu. No Project site work has been commenced
Project (the Works)	 No Project site work has been commenced Progressive expenditure = Nil
i rojoot (tile vvoika)	No activities scheduled to commence as of end January 2021
	TWO ACTIVITIES SCREAMING TO COMMITTERIOR AS OF CHA JAMES AND ACTIVITIES

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

- 1. The impact of current water quality issues (i.e. white fibrous particles and associated elevated TOC and COD levels) being experienced at Nemmeli DSP on the selection of a preferred pretreatment process arrangement being addressed during conceptual design.
- 2. Revision of the current concept for the site layout for the proposed reservoir and pumping station at the Porur Headworks site, due to other works currently under construction for CMWSSB.
- 3. Based on a discussion with CMWSSB officials, it is understood that the proposed desalination plant's land ownership transfer is in process. Upon receipt of the same, Consent To Establish (CTE) application will be forwarded to TNPCB (Tamil Nadu Pollution Control Board), the action to be taken up by CMWSSB.
- 4. Forest Clearance for cutting trees at Perur DSP site to be obtained from Tamil Nadu Forest Department.
- 5. Approval for the erection of offshore structure to be obtained from the Tamil Nadu Maritime Board.
- 6. System hydraulic design for the clear water transmission main from Perur DSP to Porur Headworks water transmission system (pumping station and transmission pipeline) and proposed water allocation to Chennai Core City and expansion area is to be resolved following initial analysis by PMC.
- 7. It is challenging to access the project site due to COVID-19 Pandemic issues spread across the globe. The Government of Tamil Nadu announced and extended the partial lockdown period from 01.01.2021 to 31.01.2021 throughout Tamil Nadu.
- 8. Quick turn-round of requests with approvals (Work From Home for International Experts till 31st January 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.
- Non-Availability of most of the pipeline inventory data specific to the CP4 package in the digital format [Scaled AutoCAD/ GIS files] and conversion of the available physical data into required digital format.
- 10. With the available designated key experts, it was not so easy task to work simultaneously on two important activities, but you would appreciate that all the staff worked late hours continuously for 20 days without having any weekends and public holidays. Considering the importance of the document and the ambitious timeline, PMC had mobilised additional staffs like project coordinator, legal expert, electrical expert etc., to meet the urgency and expectations of CMWSSB. The International Experts were also working on the document round the clock without even considering the hindrance of different time zones. All the PMC staff provided their respective inputs during the extended hours from 8:00 AM to 10:00 PM and sometimes even up to 1:00 AM, including weekends and public holidays, to meet the urgency of submitting RFP.

2 ABBREVIATIONS & ACRONYMS

Abbreviation / Acronym	Meaning
BoQ	Bill of Quantity
CMWSSB	Chennai Metropolitan Water Supply and Sewerage Board
СР	Contract Package
DI	Ductile Iron
DBO	Design-Build Operate
DMA	District Metered Area
DMS	Document Management System
DSP	Desalination Plant
GIS	Geographic Information System
HR & CE Board	Hindu Religious & Charitable Endowment Board
INR	Indian Rupees
JICA	Japan International Cooperation Agency
MLD	Million Litres per day
MPR	Monthly Progress Report
MS	Mild Steel
NJSEI	NJS Engineers India Pvt Ltd.
O&M	Operation & Maintenance
ODA	Official Development Assistance
OJT	On-Job-Training
PMC	Project Management Consultant (Consortium)
PQ	Prequalification
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 twelfth (12th) monthly progress report and covers activities of the Project Management Consultant (PMC services) and the Project (the Works) during **January 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 Sea Water Reverse Osmosis (SWRO) Desalination Plant at Perur
- CP2 Pumping Stations & Reservoirs at Perur and Porur
- CP3 Product Water Conveyance Main for about 65Km length from Perur to Porur
- CP4 Improvements to Existing Distribution System in the core area of Chennai City
- CP5 Installation of external dedicated transmission line

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

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

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

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

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

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

4 PROGRESS REPORT FOR PMC SERVICES

4.1 Achieved Activities –January 2021

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

Table 3: Achieved Activities –January 2021

Package	Achieved Activities
	Task 1: Data and information collection commenced (JICA documents, DPRs, water quality data)
	Task 2: Review of technical information commenced (JICA documents, DPRs, water quality data)
	Task 3: Conducting Surveys and Investigations
	 Carried out the Topographical Surveys at Perur Desalination Plant from 19.08.2020 to 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 Sea Water Sample Collection at Perur and Nemmeli DSP on 29.08.2020 Carried out Sea Water 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 400MLD DSP
	(CP-1) and its Pumping Station (CP-2-1) at Perur Task 4: Concept Design of Perur Desalination Plant has been submitted with design
	calculations based on the available existing data
	 Interim report for the development of Concept Designs for Chennai Perur 400 MLD
	Desalination Plant for CP1 components submitted to CMWSSB on 23.04.2020.
CP1	 Online Zoom Video conference call and discussion with CMWSSB officials on 20.04.2020 for the Interim Report for the development of Concept Region for
OI I	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 Sea Water 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. Preparation of Operation & Maintenance (O&M) Cost, Minimum Functioning
	Specifications etc.
	 Online MS Teams meeting Video conference call and discussion with Chief
	Engineer (Project-III) and SE (Desal) CMWSSB officials on 18.09.2020 for the

Package	Achieved Activities
	progress of the consultancy work and technical discussion for CP1 to CP4
	components.
	Task 5: Submission of Concept Design Report:
	 The Concept Design Report has been prepared based on the above activities, and this includes the review outcome of the existing technical documents and data,
	existing Desalination plants study and identified gaps in the process, proposed
	process description of all units of DSP and along with the recommendations, Block
	level Construction cost estimate and O&M cost estimate, Gaps in the statutory
	approvals, process control philosophy, layout drawings, process flow diagrams etc.
	 Concept Design Report for Chennai 400 MLD Desalination Plant at Perur for CP1 components submitted on 10.07.2020.
	 Action Taken Report/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.
	Task 6: Preparation of Technical Specifications: • Preparation of Technical Specifications including Civil works, Mechanical works,
	Instrumentation works etc.
	 Preparation of Automation and Control strategy, DCS Arch plan, Instrumentation &
	Control MFS
	 Preparation of MFS consolidated circulation, technical schedule data gathering, finalisation of technical schedule, billing system analysis etc.
	Task 7: Financial Analysis
	Preparation of Financial Analysis Table 9 Preparation of Control of Con
	Task 8: Preparation of O&M requirements for Bid Document Preparation of O&M requirements for Bid Document
	Task 9: Revised Request for Qualifications (RFQ) document was prepared on the DBO
	basis and issued to the Client for review. After review, CMWSSB has sent the RFQ to JICA
	for concurrence. Comments received from JICA on PQ documents on 05.06.2020.
	 Online Zoom Video conference call and discussion with CE (Project)–II, CE (O&M)–II CMWSSB officials on 15.06.2020 for the responses on JICA comments and
	Prequalification documents for CP1 on DBO basis.
	 Responses to JICA comments and Revised Prequalification documents (RFQ) for
	CP1 on DBO basis submitted to CMWSSB on 24.06.2020.
	Online Microsoft Teams Meeting with Chief Development Operations (JICA) and ONLYCER officials on 03 07 2020, for a discussion on the representation of the property o
	CMWSSB officials on 03.07.2020 for a discussion on the responses for JICA comments on Prequalification documents for CP1 on DBO basis.
	After review, CMWSSB has sent the RFQ to JICA for concurrence. 2 nd comments received
	from JICA on PQ documents on 13.08.2020.
	 Responses to JICA 2nd comments and Revised Prequalification documents (RFQ)
	for CP1 on DBO basis submitted to CMWSSB on 17.08.2020. After review, CMWSSB has sent the RFQ to JICA for concurrence. 3rd comments received
	from JICA on PQ documents on 05.09.2020.
	 Responses to JICA 3rd comments and Revised Prequalification documents (RFQ)
	for CP1 on DBO basis submitted to CMWSSB on 08.09.2020.
	After review, CMWSSB has sent the RFQ to JICA for obtaining the concurrence. 4th comments received from JICA on PQ documents on 23.09.2020.
	 Revised Prequalification document (RFQ) for CP1 on DBO basis as per JICA 4th
	comments submitted to CMWSSB on 23.09.2020.
	After review, JICA has given final concurrence to CMWSSB regarding the Revised
	Prequalification document (RFQ) for CP1 on DBO basis on 30.09.2020.
	 Final Prequalification document (RFQ) for CP1 on DBO basis submitted to CMWSSB on 12.10.2020
	0120.2020

Package	Achieved Activities				
rackage	ALC A C A C A C A C A C A C A C A C A C				
	Notice Inviting Application (NIT for RfQ) for Prequalification documents for CP1 was published in the website and published in Newspaper on 14.10.2020.				
	Pregualification (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				
	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				
	• 2 nd 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 2 nd 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 				
	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 CAMAGER as 27.04.2024, and CAMAGER forwarded the Fireheating Report of PQ.				
	CMWSSB on 27.01.2021, and CMWSB forwarded the Evaluation Report of PQ Applications to JICA for obtaining concurrence.				
	Task 9: Preparation of Request for Proposal [RFP] Documents				
	Preparation of Request for Proposal [RFP] Documents comprises of following volumes:				
	Part I (Bidding Procedures) of Draft Request For Proposal (RFP) for CP1				
	components				
	 Part II – Employers Requirements (3 Volumes) 				
	 Part III – Conditions of Contract and Contract Forms 				
	Part IV – Price Schedule				
	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.				
	Presentation on Part-II (Employers Requirements) of Draft Request For Proposal (RED) for CR1 component on DRO basis had been hold at CMWSSR.				
	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 components 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 components on DBO basis was submitted on				
	30.12.2020				

Package	Achieved Activities				
	 Joint discussion for review of RFP document for CP1 held with CMWSSB officials from 06.01.2021 to 27.01.2021. Draft Request For Proposal (RFP) (Rev.1) for CP1 component 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 have been submitted to CMWSSB on 27.01.2021 for review, and CMWSB forwarded the RFP document to JICA for obtaining concurrence.				
	Task 1: Data and information collection commenced				
	 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. 				
	Task 2: Review of technical information commenced (checking of the hydraulic design of the transmission system based on the available data) Calculation of CWR Capacity at Perur Reviewed the beneficiary population from Perur to Porur, and the observation was				
	 submitted to CMWSSB for feedback. Review note on Product Water Transmission Main from Perur DSP to Porur WDS for CP2 components submitted on 15.07.2020. 				
CP2	Task 3: Conducting Surveys and Investigations Carried out the Topographical Surveys at Porur new Water Distribution Station in October 2020 Total Conducting Surveys and Investigations Total Conducting Surveys and Investigations				
	 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 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. CP-2 ,Site visit to Chembarambakkam WTP and to collect the pump details from AE and Plant maintenance manager				
CP3	No significant activities have been carried out during this period				
CP4	Task 1: Reconnaissance Survey, Data and information collection commenced (JICA documents, Master Plan- Area X and XIII on top priority for world banking funding purpose Visit CMWSSB office to collect the CP-4 GIS data and meeting with P&D wing AEE and discussion with EE & AEEs (desal).				

Package	Achieved Activities				
	 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 head works 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 Pipe line network 				
	Task 2: Review and Analysis of Data				
	 Review of salient details and existing water distribution network drawings collected 				
	for CP4 components and identification of gaps in the available data				
	 Digitalisation of pipeline inventory data collected for wards128, 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 total 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				
	 Modeliing 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 pipe line network of zone X wards 127, 128,131,136,137, 				
	141 and 142 with respective area/ward engineers in the month of Jan 2021				
CP5	Visit to Perur for electrical substation for topographical survey work for CP-5				
	Monthly Progress Report (MPR 11) for December 2020 submitted on 08.01.2021				
	Draft Environmental Impact Assessment (EIA) Review Report for CP1 components submitted				
	to CMWSSB on 26.05.2020				
	 Online Zoom Video conference call and discussion with SE (Desal) CMWSSB 				
	officials on 03.06.2020 for the Draft Environmental Impact Assessment (EIA) Review				
0	Report for CP1 components.				
General	 Action Taken Report/clarification on the Draft Environmental Impact Assessment (EIA) Povicy Report for CR1 submitted to CMWSSR on 13.08.2020 				
	(EIA) Review Report for CP1 submitted to CMWSSB on 12.08.2020 Draft Environmental Impact Assessment (EIA) Review Report for CP1 and CP2.1				
	Draft Environmental Impact Assessment (EIA) Review Report for CP1 and CP2-1 components (Rev-1) submitted to CMWSSB on 23.09.2020				
	Social Safeguard Review (Draft Report) submitted on 18.11.2020				
	Environmental and Social support activities commenced including documentation review and				
	approvals planning				
L	numbering listed in Table above corresponds to masterwork schedule (refer Anneyure 4)				

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

4.2 Deliverables Status in January 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

	Deliverables Status	T () D () T	
SI.No.	Report / Document	Tentative Date / Frequency / Status **	
		Inception Report submitted on 28.02.2020	
1	Inception Report	Observations on Inception Report received from CMWSSB on 30.03.2020	
'	Inception Report	Revised Inception Report submitted on	
		04.04.2020 and 16.04.2020	
2	For Design and Tender Assistance for CP1	- No Nacional State (1975)	
		Interim report for development of Concept Designs for Perur 400 MLD Desalination Plant for CP1 submitted on 23.04.2020	
	2.1 Conceptual Design Report	Concept Design Report for Chennai Perur 400 MLD Desalination Plant for CP1 submitted on 10.07.2020	
		Bathymetry Survey report for Perur Desalination Plant of CP1 has been submitted to CMWSSB on 10.12.2020	
		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	
		1st 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	
	2.2 PQ Document	documents on 13.08.2020. Responses to JICA 2 nd comments and	
	2.2 i & Document	Revised Prequalification document (RFQ) on DBO basis have been submitted to CMWSSB on 17.08.2020	
		3rd comments received from JICA on PQ document on 05.09.2020.	
		Responses to JICA 3 rd comments and	
		Revised Prequalification document (RFQ)	
		on DBO basis have been submitted to CMWSSB on 08.09.2020	
		4th comments have been received from JICA on PQ documents on 23.09.2020.	
		Revised Prequalification document (RFQ)	
		as per JICA 4th comments have been submitted to CMWSSB on 23.09.2020	

SI.No.	Report / Document	Tentative Date / Frequency / Status **
		JICA has given the concurrence for
		Prequalification document (RFQ) for CP1
		on DBO basis to CMWSSB on 30.09.2020
		Final Prequalification document (RFQ) for
		CP1 on DBO basis have been submitted to
		CMWSSB on 12.10.2020
		Notice Inviting Application (NIT for RfQ) for
		Prequalification documents for CP1 was
		published in the website and published in
		Newspaper on 14.10.2020.
		Prequalification (PQ) Application meeting
		for CP1 components on DBO basis held at
		CMWSSB on 29.10.2020
		Reply to pre-bid queries of Application for
		Prequalification for CP1 components 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, and the
		details have been published by CMWSSB
		in the website on 26.11.2020
		2 nd reply to pre-bid queries and Addendum-
		1 of Application for Prequalification for CP1
		components on DBO basis submitted on
		27.11.2020
		3 rd reply to Pre-Bid Queries and Corrigendum-1 of Application for
		Prequalification for CP1 submitted on
		03.12.2020
		The tender 2 nd 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
		Corrigendum-2 for Prequalification (RFQ)
		documents for CP 1 submitted on
		14.12.2020
		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
		Reply to Pre-bid queries 1st set, 2nd set, 3rd
		set, Addendum-II and Corrigendum-II for
		PQ document have been uploaded by
		CMWSSB, and the details have been
		published in www.tntenders.gov.in website
		on 24.12.2020
		Addendum-III for PQ document has been
		uploaded by CMWSSB, and the details
		have been published in

SI.No.	Report / Document	Tentative Date / Frequency / Status **
		www.tntenders.gov.in website 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
	2.3 PQ Evaluation Report	 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.
	2.4 Bid (RFP) Document	 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 component 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 have been submitted to CMWSSB on 27.01.2021 for review, and CMWSB forwarded the RFP document to JICA for obtaining concurrence. Issue of Request For Proposal (RFP) to the shortlisted bidders during the end of February 2021
	2.5 Bid Evaluation Report (Technical)	June 2021 (October 2020)

SI.No.	Report / Document	Tentative Date / Frequency / Status **	
OI.ITO.	2.6 Bid Evaluation Report (Financial)	August 2021 (December 2020)	
3	For Design and Tender Assistance for CP2	/ Adgust 2021 (December 2020)	
	3.1 Detailed Design Report and Drawings	Review note on Product Water Transmission Main from Perur DSP to Porur WDS for CP2 components submitted on 02.07.2020 (soft copy) and 15.07.2020 (hard copies) June 2021 (April 2021)	
	3.2 PQ Document (if required)	July 2021	
	3.3 PQ Evaluation Report (if required)	August 2021	
	3.4 Bid Document (RFP)	September 2021	
	3.5 Bid Evaluation Report (Technical)	December 2021	
	3.6 Bid Evaluation Report (Financial)	February 2022	
4	For Design and Tender Assistance for CP4		
	4.1 Detailed Design Report and Drawings	April 2022 (December 2021)	
	4.2 Bid Document(s)	June 2022 (April 2022)	
	4.3 Bid Evaluation Report (Technical)	September 2022	
	4.4 Bid Evaluation Report (Financial)	November 2022	
5	For Construction Supervision of CP 1	THOUGH EDZE	
	5.1 Contractor's Design Review Report	Within 1 month after submission of the Contractor's design report	
	5.2 Quality and Quantity Control Report	Every Month	
	5.3 Final Inspection Report	At Appropriate timing	
6	For Construction Supervision of CP 2		
	6.1 Quality and Quantity Control Report	Every Month	
	6.2 Final Inspection Report	At Appropriate timing	
7	For Construction Supervision of CP 3-1 to CP 3-4		
	7.1 Quality and Quantity Control Report	Every Month	
	7.2 Final Inspection Report (CP 3-1, CP 3-2)	At Appropriate timing	
	7.3 Final Inspection Report (CP 3-3, CP 3-4)	At Appropriate timing	
8	For Construction Supervision of CP 4		
	8.1 Quality and Quantity Control Report	Every Month	
	8.2 Final Inspection Report	At Appropriate timing	
9	Environmental and Social Safeguard		
	9.1 EIA Review Report for CP 1	 Draft Environmental Impact Assessment (EIA) Review Report for CP1 component submitted to CMWSSB on 26.05.2020 Draft Environmental Impact Assessment (EIA) Review Report for CP1 and CP-2 components (Rev-1) have been submitted to CMWSSB on 23.09.2020 Social Safeguard Review (Draft Report) submitted on 18.11.2020 	
	9.2 Environmental Monitoring Report	Every Month	
10	Progress Report and Project Completion Report		
	10.1 Monthly Progress Report (MPR)	 MPR 01 for Jan' & Feb'2020 (2 copies) submitted on 10.03.2020 for review Observations on MPR 01 received from CMWSSB on 31.03.2020 	

SI.No.	Report / Document	Tentative Date / Frequency / Status **
SI.NU.	Report / Document	 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)
	10.2 Quarterly Progress Report (QPR)	 submitted on 08.01.2021 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 September 2020 submitted on 15.10.2020 Quarterly Progress Report (QPR 04) for October to December 2020 submitted on 18.01.2021
	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 COVID-19 pandemic across the globe. Hence, PMC requested CMWSSB to allow the International Experts to work from home.

In general, both parties (PIU and PMC team) noted that due to the current COVID-19 Pandemic situation, an overall 2 months delay in floating of the RFQ and consequently the RFP for CP1 components. Where these tender dates are delayed, there will be an associated delay with the completion of tender evaluation reports. PMC also requested to consider the effort of national staff (outside Chennai 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 Project Management Consultant Services to work from their home offices at their respective countries till 31.07.2020.

During the Online MS Teams meeting held on 18.09.2020, Project Manager indicated that due to COVID-19, some of the activities have been slipped out of the target date and requested CMWSSB to indicated the new target dates, if they have anything in their consideration. CMWSSB advised submitting the revised Schedule for review and consideration. PMC revised the Annexure 3 – Overall Work Schedule and submitted on 28 September 2020 to CMWSSB for review and consideration. The request letter has been submitted to CMWSSB for the approval from 01st August 2020 to 31st January 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 January 2021

The Actual progress during the month up to January 2021 is with planned progress is furnished in Table 5. Table 5: Actual Progress vs Planned Progress

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

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

SI.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
18	Monthly Progress Report (MPR 06) for July 2020	10.08.2020	10.08.2020	Hard copies submitted
19	Revised PQ document for CP1	17.08.2020	17.08.2020	Responses to JICA 2 nd comments and Revised Prequalification document (RFQ) for CP1 on DBO basis submitted to CMWSSB (Hard copy submitted)
20	Revised PQ document for CP1	08.09.2020	08.09.2020	Responses to JICA 3 rd comments and Revised Prequalification document (RFQ) for CP1 on DBO basis submitted to CMWSSB (Hard copies submitted)
21	Monthly Progress Report (MPR 07) for August 2020	10.09.2020	10.09.2020	Hard copies submitted
22	Draft Environmental Impact Assessment (EIA) Review Report for CP1 and CP-2 components (Rev-1)	23.09.2020	23.09.2020	Hard copies submitted
23	Revised PQ document for CP1	23.09.2020	23.09.2020	Revised Prequalification document (RFQ) for CP1 on DBO basis as per JICA 4 th comments submitted to CMWSSB (Hard copies submitted)
24	Topographical Survey Drawings for Proposed UGT and Pumping Station (CP2-2) at Porur new WDS	09.10.2020	09.10.2020	Hard copy submitted
25	Monthly Progress Report (MPR 08) for September 2020	09.10.2020	09.10.2020	Hard copies submitted
26	Final Prequalification document (RFQ) for CP1 on DBO basis	12.10.2020	12.10.2020	Hard copies submitted
27	Notice Inviting Application (NIT for RfQ) for Prequalification documents for CP1 was published in the website and published in Newspaper	14.10.2020	14.10.2020	Published by CMWSSB
28	Quarterly Progress Report (QPR 03) for July to September 2020	15.10.2020	15.10.2020	Hard copies submitted
29	Prequalification (PQ) Application meeting for CP1 components on	29.10.2020	29.10.2020	

SI.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
	DBO basis held at CMWSSB			
30	Reply to pre-bid queries of Application for Prequalification for CP1 components 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
34	2 nd reply to pre-bid queries and Addendum-1 of Application for Prequalification for CP1 components on DBO basis	27.11.2020	27.11.2020	Hard copy submitted
	Draft Request for	01.12.2020	01.12.2020	Hard copy submitted
35	Proposal (RFP) for CP 1 components on DBO	02.12.2020	02.12.2020	Hard copies submitted
	Basis	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

SI.No.	Deliverable	Planned	Actual	Remarks/reasons for the delay
41	Response to CMWSSB on 1st comments on Particular Condition of Part A in Part III of Draft RFP for CP1 components 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
	Quarterly Progress Report (QPR 04) for October to December 2020	18.01.2021	18.01.2021	Hard copies submitted
44	Report on Brine Dispersion Model for Perur Desalination Plant (CP1) has been submitted to CMWSSB	18.01.2021	18.01.2021	Hard copies submitted
45	Draft Request For Proposal (RFP) (Rev.1) for CP1 component on DBO basis have been submitted to CMWSSB for review.	21.01.2021	21.01.2021	Hard copy and soft copy submitted
46	Draft Request For Proposal (RFP) (Rev.2) for CP1 component on DBO basis have been submitted to CMWSSB for review.	25.01.2021	25.01.2021	Hard copy and soft copy submitted
47	Draft Request For Proposal (RFP) (Rev.3) for CP1 have been submitted to CMWSSB for review and CMWSB forwarded the RFP document to JICA for obtaining concurrence.	Feb'2021	27.01.2021	Hard copy and soft copy submitted
48	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

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 January 2021

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

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

Month	Monthly	Cumulative	% of Total		
WiOiitii	Expenditure	Expenditure	Contract Value		
January 2020 to	INR 1,54,72,083	INR 1,54,72,083	2.69%		
June 2020 *	USD 409,354	USD 409,354	4.35%		
July 2020	INR 0	INR 1,54,72,083	2.69%		
July 2020	USD 0	USD 409,354	4.35%		
August 2020	INR 0	INR 1,54,72,083	2.69%		
August 2020	USD 0	USD 409,354	4.35%		
September	INR 0	INR 1,54,72,083	2.69%		
2020**	USD 0	USD 409,354	4.35%		
October 2020 ***	INR 0	INR 1,54,72,083	2.69%		
October 2020	USD 0	USD 409,354	4.35%		
November 2020	INR 0	INR 1,54,72,083	2.69%		
****	USD 0	USD 409,354	4.35%		
December 2020	INR 0	INR 1,54,72,083	2.69%		
December 2020	USD 0	USD 409,354	4.35%		
January 2021	INR 0	INR 1,54,72,083	2.69%		
January 2021	USD 0	USD 409,354	4.35%		

^{*} 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.

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

^{**} 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.

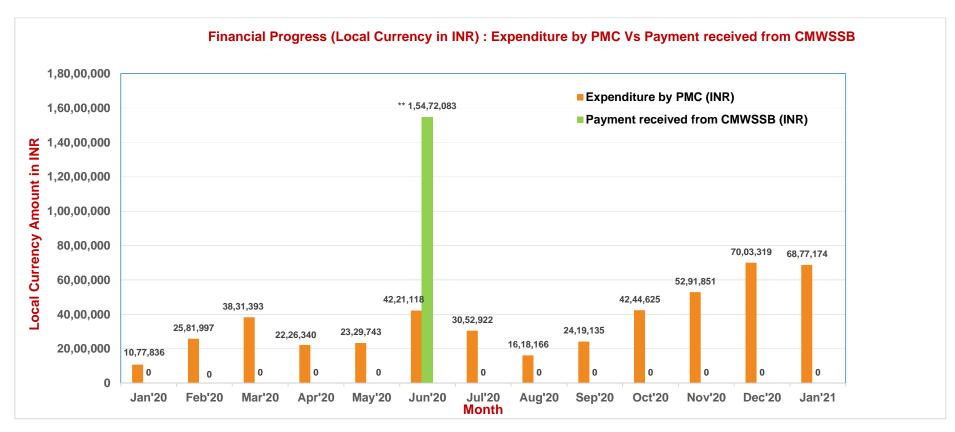
^{***} In addition to the above, for TATA Consulting Engineers Ltd., the Mobilisation advance payment in INR (5% of Contract value) have been received on 22.10.2020 as against Advance Bank Guarantee.

^{****} For NJS Engineers India Pvt. Ltd., the monthly payment for Feb'2020 to June'2020 in INR has been received on 06.11.2020.

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

Month	Monthly	Cumulative	% of Total Contract Value		
WOITH	Expenditure	Expenditure			
January 2020	INR 10,77,836	INR 10,77,836	0.18%		
January 2020 —	USD 56,098	USD 56,098	0.60%		
February 2020	INR 25,81,997	INR 36,59,833	0.62%		
rebluary 2020 —	USD 112,801	USD 168,899	1.79%		
March 2020 —	INR 38,31,393	INR 74,91,226	1.30%		
March 2020	USD 56,261	USD 225,159	2.39%		
April 2020	INR 22,26,340	INR 97,17,566	1.69%		
Aprii 2020 —	USD 90,351	USD 315,518	3.35%		
May 2020	INR 23,29,743	INR 1,20,47,309	2.09%		
May 2020 —	USD 60,913	USD 376,431	4.00%		
luna 2020	INR 42,21,118	INR 1,62,68,427	2.83%		
June 2020 —	USD 88,100	USD 464,532	4.94%		
July 2020	INR 30,52,922	INR 1,85,36,918	3.22%		
July 2020 —	USD 67,841	USD 532,374	5.66%		
August 2020	INR 16,18,166	INR 2,01,14,190	3.49%		
August 2020 —	USD 63,232	USD 595,604	6.33%		
September	INR 24,19,135	INR 2,25,03,011	3.91%		
2020	USD 66,287	USD 661,889	7.03%		
October 2020	INR 42,44,625	INR 2,67,47,636	4.65%		
October 2020 —	USD 70,882	USD 732,772	7.79%		
November	INR 52,91,851	INR 3,21,62,512	5.59%		
2020	USD 125,532	USD 858,303	9.12%		
December	INR 70,03,319	INR 3,88,65,821	6.75%		
2020	USD 105,855	USD 964,134	10.24%		
January 2021	INR 68,77,174	INR 4,57,42,995	7.95%		
January 2021	USD 133,455	USD 1,097,588	11.66%		

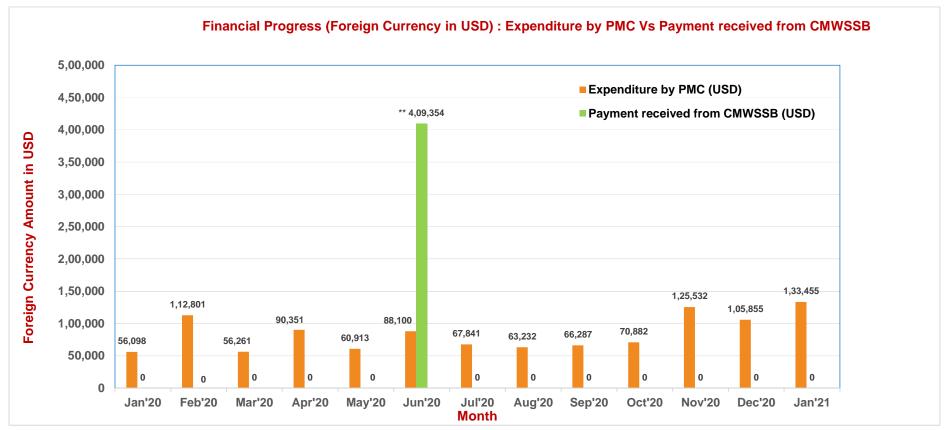




^{**} Payment received up to June 2020

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





^{**} Payment received up to June 2020

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.

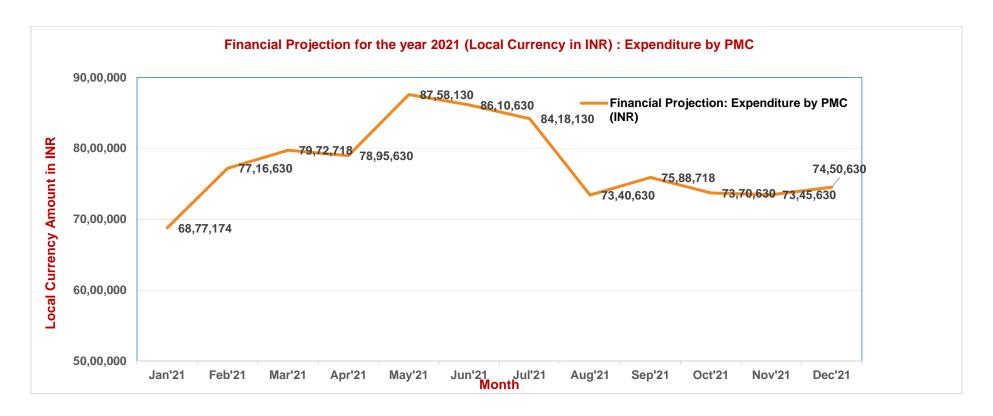


Figure 3: Financial Projection for the year 2021 (Local Currency in INR): Expenditure by PMC

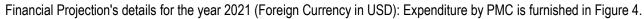




Figure 4: Financial Projection for the year 2021 (Foreign Currency in USD): Expenditure by PMC

4.5 Staffing Inputs – January 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 January 2021 end)	Balance man- months available (February 2021 onwards)
Project Manager (Team Leader)	Dr P.Dharmabalan	I	14.02.2020	26.02.2020	07.04.2020	70	6.62	63.38
Senior Civil Engineer	Mr.S.Siddappaswamy	N	27.01.2020	22.02.2020	01.04.2020	72	7.13	64.87
Desalination Expert	Dr.Ghulam Mustafa	I	10.02.2020	22.02.2020	01.04.2020	29.50	10.03	19.47
Additional Key Expert – International	Dr.Uday G.Kelkar	I	01.06.2020			2.50	1.01	1.49
Water Supply Engineer	Mr.Shane Farquharson	I	20.01.2020	20.03.2020		23	2.04	20.96
Machanical Engineer (Decal)	Mr Michal Marillan	ı	20.01.2020	08.02.2020	23.02.2020	15	4.22	10.78
Mechanical Engineer (Desal)	Mr.Michel Morillon	l		15.03.2020	01.04.2020			
Electrical Engineer (Desal)	Mr.Guilbert Z Gonzales (Replaced for Mr.Sergio de Bastos Vilar Magalhaes Paulo)	I	07.12.2020			25	0.32	24.68
Contract Specialist (Desal) - International	Mr.Abdel Fattah Toukan (Replaced for Mr. Roderick	I	20.01.2020 02.11.2020	15.02.2020		9	3.12	5.88
Monitoring and Control Expert (Desal)	Mackenzie) Mr.Afzal Abdul Latheef (Replaced for Mr.Manikandan Ganesh Shoranur)	I	19.11.2020			11	1.91	9.09
Civil and Structure Engineer (Desal)	Dr.D.Elanchezian	l	20.01.2020	04.04.2020	15.10.2020	42	5.48	36.52
Specification Specialist (Desal)	Mr Ganesh Venkataraman (Replaced for Mr.J.Shanmuganathan)	I	12.11.2020			4	1.81	2.19
Financial Expert	Mr.Hemant Chadha	I	22.06.2020			3	1.59	1.41

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Position / Role	Name of the staff	Category	Commenced Date	De- mobilisation date	Remobilisation date	Total months allocated	Total months mobilised so far (till January 2021 end)	Balance man- months available (February 2021 onwards)
Social Communication Specialist - International	Mr.Rajesh Mishra	I	05.10.2020			16	0.82	15.18
Civil Engineer	Mr.Ramesh Senthil	N	20.01.2020			72	11.48	60.52
Senior Pipeline Engineer	Mr.Nagesh Chinnam	N	04.02.2020			72	7.13	64.87
Mechanical Engineer	Mr.Mayur Gupta	N	14.12.2020			40	1.13	38.87
Electrical Engineer	Mr.Om Prakash Singh	N	07.12.2020			45	1.54	43.46
Structural Engineer	Ms.J.Sudha	N	09.11.2020			28	2.41	25.59
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	1.95	13.05
Environmental Specialist - National	Mr.S.M.Karthikaeswaran	N	25.02.2020			30	9.67	20.33
	Mr.Rahul N Ramdhan		25.02.2020	05.03.2020			3.81	56.19
Pipeline Engineer-1	(Replaced for Mr.Chandra Shekhar Reddy Yedla)	N	23.09.2020	29.01.2021		60		
Pipeline Engineer-2	Mr.P.Thangavel (Replaced for Mr.V.Tulasi Ram)	N	15.10.2020			60	3.41	56.59
Hydraulic Modeller-1	Mr.P.M.Saravanan	N	25.02.2020	27.02.2020		8	0.09	7.91
Social Communication Specialist – National	Mrs.R.Kanmani (Replaced for Dr.Rajshekar Reddy)	N	21.09.2020			72	4.04	67.96
Contract Management Specialist	Mr.Santosh Biswa	N	02.03.2020			6	4.36	1.64

Position / Role	Name of the staff	Category	Commenced Date	De- mobilisation date	Remobilisation date	Total months allocated	Total months mobilised so far (till January 2021 end)	Balance man- months available (February 2021 onwards)
	Mr.R.Muthurajan						,	
Quantity Surveyor-1	(Replaced for Mr.K.C.Vinod	N	21.10.2020			50	3.26	46.74
	Chandra)							
Quantity Surveyor-2	Mr.V.S.Rajasekar	N	21.09.2020			70	3.22	66.78
CAD Operator-1	Mr.G.Murali	N	25.02.2020	24.03.2020	01.05.2020	30	9.49	20.51
CAD Operator-2	Ms J.Nithya	N	04.12.2020			30	1.82	28.18
CAD Operator-3	Mr.Vijay Kumar	N	31.12.2020			30	1.00	29.00
GIS Operator	Mr.Suresh Mohan Dwivedi	N	07.10.2020	24.10.2020	24.11.2020	18	2.77	15.23
Secretary	Mr.B.Ajithkumar	N	29.10.2020			70	2.90	67.10
Geotechnical Engineer	Mrs P.Prashanthi	N	09.12.2020			6	0.14	5.86
Visa and Admin Officer	Mr.A.Renu Kumar	N	20.01.2020			70	11.57	58.43
Accountant	Mr.K.Manikandan	N	09.03.2020			70	10.16	59.84
Office Manney 4	Mr Pilominraj Raja	N.I.	02.00.0000			70	44.74	50.00
Office Keeper-1	(Replaced for Mr R.Jagan)	N	03.02.2020			70	11.71	58.29
	Mr.Thiruvengadam							
Office Keeper-2	Someswaran (Replaced for	N	03.02.2020			70	11.71	58.29
	Mr.G.Arjun)							

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.

Mr.Rahul N Ramdhan (Pipeline Engineer-1) PMC team has been permanently demobilised on 29.01.2021 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 team members are scheduled to return to Chennai for further inputs to this Project coming month of February 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

SI. No.		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 December 2020	Number of Days of Claim in January 2021	Cumulative Number of Days of Claim up to January 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	International		810	138	12	150	660	
_	Pvt. Ltd.	National	50	50	19	5	24	26	
3	SMEC International Pty. Ltd.	 Per-diem allowance in INR for the Key International Experts will be claimed by SMEC India Pvt. Ltd. (International Category) Per-diem allowance in INR for the Non-Key International Experts will be claimed by SMEC India Pvt. Ltd. (National Category) 							
4	TATA Consulting Engineers Ltd.	Not applicable. Hence no claim will be made for the entire project duration							
	TOTAL		2,300	2,300	169	17	186	2,114	

4.5.3 Summary of Personnel Inputs for the Period

A summary of personnel inputs for the period January 2021) is included in **Annexure 6.**Planned mobilisation of PMC personnel for the next three (3) month period (up to April 2021) is presented in **Annexure 7**.

4.5.4 Team Structure

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

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

As at the end of January 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 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 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) PMC team has been permanently demobilised on 29.01.2021 from the Project.

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

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

As per CMWSSB letter dated 10.09.2020, it is informed that above experts under International and Local Expert category, i.e. Non-Key Experts (Sl.No.3 and 5 to 11) have been considered and approved for replacement.

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

As per CMWSSB letter dated 24.10.2020, it is informed that above experts under International and Local Expert category (SI.No.2 & 12) have been considered and approved for replacement.

As per CMWSSB letter dated 10.11.2020, it is informed that the above expert under International Expert category (SI.No.4) have been considered and approved for replacement.

4.6 Meetings and Site Visits – January 2021

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

Table 10: Meetings and Site Visits (January 2021)

Date	Meeting and Site Visit	Location	Attendees
05.01.2021	Attended the Prequalification (PQ) Application opening for CP1 components on DBO basis	6th floor conference hall of CMWSSB	CMWSSB officials & PMC team members
07.01.2021	Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the evaluation of Prequalification (PQ) Application and Review of Draft Request For Proposal (RFP) (Rev.1) for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
07.01.2021	Online Microsoft Teams Meeting conducted by Senior Civil Engineer (PMC) for a discussion on the evaluation of Prequalification (PQ) Applications for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
07.01.2021 to 08.01.2021	Review of Draft RfP (Rev.1) document and discussion along with Chief Engineer (Project-II & III), other CMWSSB officials on Part-I to Part-III of Draft RfP (Rev.1) document for CP1 components on DBO basis	PMC office	CMWSSB officials & PMC team members
09.01.2021 to 12.01.2021	Review of Draft RfP (Rev.1) document and discussion at PMC office along with Executive Engineer (Desal), other CMWSSB officials on Part-II Employers requirements of Draft RfP (Rev.1) document for CP1 components on DBO basis	PMC office	CMWSSB officials & PMC team members
13.01.2021	Meeting with Chief Engineer (Project-II & III) and other CMWSSB officials for a review of Part-I and Part-III of Draft RfP (Rev.1) document for CP1 components on DBO basis	1st Floor Conference Hall of CMWSSB	CMWSSB officials & PMC team members
15.01.2021	Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the review of Part-I to Part-III of Draft RfP (Rev.1) document for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members

Date	Meeting and Site Visit	Location	Attendees
16.01.2021	Review of Draft RfP (Rev.1) document and discussion along with Chief Engineer (Project-II & III), other CMWSSB officials on Part-II Employers requirements of Draft RfP (Rev.1) document for CP1 components on DBO basis	PMC office	CMWSSB officials & PMC team members
17.01.2021	Online Microsoft Teams Meeting conducted by Senior Civil Engineer (PMC) for a discussion on the finalisation of Prequalification (PQ) Evaluation Report for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
19.01.2021	Meeting with Executive Director and other CMWSSB officials for finalisation of JV, Price Indices, Alternative bidders and Technical Schedules of Draft RfP (Rev.1) document for CP1 components on DBO basis	1st Floor Conference Hall of CMWSSB	CMWSSB officials & PMC team members
22.01.2021	Online Microsoft Teams Meeting conducted by Desalination Expert (PMC) for a discussion on Part-I(A) Price Schedule and finalisation of Draft RfP (Rev.2) document for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
22.01.2021	Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the finalisation of Prequalification (PQ) Evaluation Report for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
24.01.2021	Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on Payment Milestone clause etc. and Part-I(A) Price Schedule of finalisation of Draft RfP (Rev.2) document for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
26.01.2021	Online Microsoft Teams Meeting conducted by Senior Civil Engineer (PMC) and discussion along with CMWSSB officials on Liquidity Damage, Milestone and Payment terms, Price escalation etc. clause on Part III of Conditions of Contract and Contract Forms and Part-IV of Price Schedule of Draft RfP (Rev.3) document for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	CMWSSB officials & PMC team members
26.01.2021	Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the finalisation of Prequalification (PQ) Evaluation Report for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members

Date	Meeting and Site Visit	Location	Attendees
27.01.2021	Discussion with Chief Engineer (Project-II & III) and Controller of Finance (R), CMWSSB officials on JV agreement, JV terms, Milestone interlinking with Liquidity Damage etc. clause of Draft RfP (Rev.3) document for CP1 components on DBO basis	O/o Chief Engineer (Project-III), CMWSSB	CMWSSB officials & PMC team members
28.01.2021	Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the finalisation of Concept Design Report for CP1 components on DBO basis	Online Microsoft Teams Meeting Video Conference Call	PMC team members
04.01.2021 to 30.01.2021	Site Visit and Data collection for CP2 to CP4 components	CMWSSB Area office & Depot office	PMC team members
04.01.2021 to 27.01.2021	 Visit to southern head works 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 Pipe line network Visit for Verification of modelled pipe line network of zone X wards 127, 128,131,136,137, 141 and 142 with respective area/ward engineers 	CMWSSB Area office & Depot offices	PMC team members
27.01.2021 to 29.01.2021	 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. 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. Site Visit and Data collection from Pallipattu WDS and Mylapore WDS Site visit to Chembarambakkam WTP to collect the pump details 	CMWSSB Area office & Depot offices	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 (3 Volumes), Conditions of Contract and Contract Forms and Price Schedule. Preparation of Operation & Maintenance Cost, Minimum Functioning Specifications. Submission of Monthly Progress Report (MPR 11) for December 2020, Quarterly Progress Report (QPR 04) for October to December 2020 was submitted on 18.01.2021. Brine Dispersion Modelling Study report

submitted on 18.01.2021, topographical survey drawing submitted on 04.01.2021. Draft Request For Proposal (RFP) (Rev.1 to Rev.3) for CP1 component on DBO basis have been submitted to CMWSSB on 21.01.2021, 25.01.2021 and 27.01.2021 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.

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

4.7 Health & Safety – January 2021

There are no health and safety incidents to report for January 2021, associated with the activities of the PMC. However, the evolving international situation regarding the COVID-19 virus is pandemic of concern to the PMC, as restricted travel movements may impact 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 January 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 to consider the approval of national and support staff for work from home inputs, if the COVID-19 virus Pandemic situation worsens and travel restrictions to sites are enforced, for the PMC to maintain progress on activities.

The details of Insurance are listed in Table 11.

Table 11: Details of Insurance

Name of the Firm	Type of Insurance	Name of the Agency	Insurance Value	Period Insurance from	Period Insurance to
	Third-Party Motor Vehicle Liability Insurance Third-Party Liability Insurance	SBI General Insurance	INR 100 Million	10.01.2021	09.01.2022
SMEC International Pty. Ltd.	Professional Liability	Engineering Consultants Underwriters Ltd.	AUD 10 Million	30.06.2020	31.12.2021
· • , · = · · ·	Employer's Liability and Worker Compensation Insurance	CHUBB Insurance Singapore limited	SGD 10 Million	01.01.2021	31.12.2021
	Insurance against Loss or Damage	Not Applicable	-	-	-
	Third-Party Motor Vehicle Liability Insurance Third-Party Liability Insurance	SBI General Insurance	INR 100 Million	10.01.2021	09.01.2022
SMEC India Pvt. Ltd.	Professional Liability	Bajaj Allianz General Insurance Company Ltd.	INR 1000 Million	08.07.2020	07.07.2021
	Employer's Liability and Worker Compensation Insurance	IFFCO TOKIO General Insurance Co. Ltd.	INR 640.84 Million	05.01.2021	04.01.2022
	Insurance against Loss or Damage	Bajaj Allianz General Insurance Company Ltd.	INR 8.40 Million	30.04.2020	29.04.2021
	Third-Party Motor Vehicle Liability Insurance	IFFCO TOKIO General Insurance Company Ltd.	INR 1.70 Million	27.08.2020	26.08.2021
NJS Engineers India	Professional Liability	New India Assurance Company Limited	INR 259 Million	20.04.2020	19.09.2027
Pvt. Ltd.	Employer's Liability and Worker Compensation Insurance	New India Assurance Company Limited	INR 20 Million	20.04.2020	19.04.2021
	Insurance against Loss or Damage	Not Applicable	-	-	-
	Third-Party Motor Vehicle Liability Insurance	Royal Sundaram General Insurance	INR 0.31 Million	22.02.2020	21.02.2021
TATA Consulting	Professional Liability	The New India Assurance Co. Ltd.	INR 1500 Million	03.10.2020	02.10.2021
Engineers Ltd.	Employer's Liability and Worker Compensation Insurance	The New India Assurance Co. Ltd.	INR 1145 Million	01.04.2020	31.03.2021
	Insurance against Loss or Damage	The New India Assurance Co. Ltd.	INR 1000 Million	03.10.2020	02.10.2021

4.8 Variations

4.8.1 Submitted/Approved

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

Dr.Uday G.Kelkar, NJSEI Pvt. Ltd. have been mobilised for the Project since June 2020, as an additional Key Expert (International) with 2.50 man-months (Intermittent) by adjusting with the input man-months of Dr.Ghulam Mustafa (Desalination Expert), International Key Expert with remuneration of USD 26225 per Man-month has been accepted by CMWSSB and JICA. As per CMWSSB letter dated 24.04.2020, it is informed that his input of 2.50 man-months is expected to spread over the entire project duration. His cost is to be met from 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 2 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.

SI. No.	Position	Original Staff as per Contract Agreement	Approved Staff by CMWSSB	Date of Approval
	KEY – INTERNATIONAL		,	
1	Electrical Engineer	Mr.Sergio de Bastos	Mr.Guilbert Z.Gonzales	16.09.2020
	(International)	Vilar Magalhaes Paulo		
2	Contract Specialist	Mr.Roderick Mackenzie	Mr.Abdel Fattah Toukan	24.10.2020
	(Desal) – International			
	NON KEY			
	INTERNATIONAL			
3	Monitoring & Control	Mr.Manikandan	Mr.Afzal Abdul Latheef	10.09.2020
	Expert (Desal)	Ganesh Shoranur		
	Specification Specialist		Mr.Ganesh	
4	(Desal)	Mr.J.Shanmuganathan	Venkataraman	10.11.2020
	1101117517 111510111			
	NON KEY – NATIONAL / LOCAL EXPERT			
5	Mechanical Engineer	Mr.Surajit Debnath	Mr.Mayur Gupta	10.09.2020
6	Electrical Engineer	Mr.G.V.K Mohan	Mr.Om Prakash Singh	10.09.2020
7	Structural Engineer	Mr.M.K.Vinod	Ms.J.Sudha	10.09.2020
8	Pipeline Engineer – 1	Mr.Chandra Shekhar	Mr.Rahul N Ramdhan	10.09.2020
		Reddy Yedla		
9	Pipeline Engineer – 2	Mr.V.Tulasi Ram	Mr.P.Thangavel	10.09.2020
10	Social Communication	Dr.M.Rajsekhar Reddy	Mrs.R.Kanmani	10.09.2020
	Specialist			
11	Quantity Surveyor-1	Mr.Vinod Chandra K.C	Mr.R.Muthurajan	10.09.2020
12	Architect	Mr.M.Kumar	Mrs.Kirti Alhad	24.10.2020
			Sadarjoshi	

4.8.2 Under Consideration

There are no future variations currently under consideration.

4.9 Communication and Correspondence

There is no progress on activities to report for Project communications this period. 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

SI.	Details of Correspondence letter	Letter Correspondence	Date of
No.		reference number, date	submission
			/ received
1.	Mobilization of Mr.Vijay Kumar, CAD Operator-3 (Support Staff)	Ref: SMEC/CMWSSB/5061185/248 dated 31.12.2020	04.01.2021
2.	Reply sent to CMWSSB for RfQ opening on 05.01.2021	Soft Copy sent by email to CMWSSB on 04.01.2021	04.01.2021
3.	Submission of Topographical Survey Drawings for 400 MLD Desalination Plant (CP 1) and its Pumping Station (CP2-1) at Perur-R1 (2 Copies)	Ref: SMEC/CMWSSB/5061185/245 dated 04.01.2021	04.01.2021
4.	Financial Data on number of Consumers in Chennai and related water-tariff and one-time charges for new connection in Chennai Metropolitan Area	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/250 dated 05.01.2021	05.01.2021
5.	Submission of Invoice for December 2020 for SMEC International Pty Ltd in Foreign Currency (2 copies)	Ref: SMEC/CMWSSB/5061185/251 dated 07.01.2021	07.01.2021
6.	Submission of Invoice for December 2020 for SMEC India Pvt. Ltd. in Foreign Currency (2 copies)	Ref: SMEC/CMWSSB/5061185/252 dated 07.01.2021	07.01.2021
7.	Submission of Invoice for December 2020 for SMEC India Pvt. Ltd. in Local Currency (2 copies)	Ref: SMEC/CMWSSB/5061185/253 dated 07.01.2021	07.01.2021
8.	Details of Invoices for December 2020 for all Consortium Members	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/254 dated 07.01.2021	08.01.2021
9.	Submission of Monthly Progress Report (MPR 11) for December 2020 (10 copies)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/255 dated 07.01.2021	08.01.2021
10.	Mobilisation of K.Senthil, Building Mechanical and Electrical Engineer (Non-Key / Local Expert)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/256 dated 11.01.2021	12.01.2021
11.	Submission of Quarterly Progress report (QPR 04) for October to December 2020 (10 Copies)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/257 dated 13.01.2021	18.01.2021
12.	Submission of Report on Brine Dispersion Model for Perur Desalination Plant (CP 1)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/261 dated 18.01.2021	18.01.2021

SI.	Details of Correspondence letter	Letter Correspondence	Date of
No.		reference number, date	submission
			/ received
13.	Reply to CMWSSB Letter- Payment to PMC-Negotiation Charges Claimed by Bank	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/249 dated 21.01.2021	21.01.2021
14.	Submission of SMEC India Pvt Ltd Renewed Insurance	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/258 dated 21.01.2021	21.01.2021
15.	Submission of Draft Request for Proposal (RFP) CP 1 components on DBO Basis (Rev.1)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/268 dated 21.01.2021	21.01.2021
16.	Submission of Draft Request for Proposal (RFP) CP 1 components on DBO Basis (Rev.2) and Compliance/ Action Taken Report on RFP	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/270 dated 25.01.2021	25.01.2021
17.	Submission of SMEC International Pty Ltd Renewed Insurance	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/260 dated 27.01.2021	27.01.2021
18.	Submission of Draft Request for Proposal (RFP) CP 1 components on DBO Basis (Rev.3)	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/271 dated 27.01.2021	27.01.2021
19.	Request for Issue of Letter to VISA officer, High Commission of India, Canada-Multiple Entry Visa for Mr.Abdel Fattah Toukan [Contract Specialist (Desal)-Key International Expert] with the duration of 4 years for the subject project.	Ref: SSNT PMC 400MLD /CMWSSB / 5061185/262 dated 29.01.2021	29.01.2021
20.	Email received from SE (Desal) towards RfQ opening for CP1 on 04.01.2021	Received by email from CMWSSB on 04.01.2021	04.01.2021
21.	Email received from SE (Desal) towards RFP document - scrutiny on 06.01.2021	Received by email from CMWSSB on 06.01.2021	06.01.2021
22.	Email received from SE (Desal) towards RfP – Observations CP1 on 08.01.2021	Received by email from CMWSSB on 08.01.2021	08.01.2021
23.	Email received from SE (Desal) towards CP1 - RfP Document - Observations of CMWSSB on 16.01.2021	Received by email from CMWSSB on 16.01.2021	16.01.2021
24.	Email received from SE (Desal) towards Component CP4- Improvement of existing Water Distribution Network (Stakeholder Clarifications) on 19.01.2021	Received by email from CMWSSB on 19.01.2021	19.01.2021
25.	Email received from SE (Desal) towards Intake and Outfall Pipeline on 21.01.2021	Received by email from CMWSSB on 21.01.2021	21.01.2021
26.	Email received from SE (Desal) towards Component CP1 - RfP - Clarifications on 22.01.2021	Received by email from CMWSSB on 22.01.2021	22.01.2021
27.	Email received from CE (P-III) towards Component CP1 - Request for Proposal (RfP) on 23.01.2021	Received by email from CMWSSB on 23.01.2021	23.01.2021
28.	Email received from SE (Desal) towards Milestone LD calculation on 27.01.2021	Received by email from CMWSSB on 27.01.2021	27.01.2021

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 February 2021 is provided in Table 13.

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

Contract	Activities (Planning for next menths)
Package	Activities (Planning for next months)
CP1	Task 3: Conducting Surveys and Investigations – Preparation of report on surveys and investigations on the following: Submission of seawater quality testing and analysis report Preparation, finalisation of Terms of Reference and carry out the Geotechnical Investigations at Perur Desalination Plant site Task 5: Preparation & Submission of Concept Design Report Preparation and Submission of Final Concept Design Report including Financial Modelling and Operation & Maintenance Requirements Task 6: Preparation of Technical Specifications Task 7: Financial Analysis Financial Modelling and Analysis Preparation of Bid Parameters Task 8: Preparation of O&M Requirements for Bid Document Task 9: Request for Qualification (RFQ) – issued the document to market (15.10.2020) and tender opening postponed to 05.01.2021 instead of original date 01.12.2020 Received Prequalification (PQ) Application from 4 Applicants on 05.01.2021 Received Prequalification (PQ) Applications from 06.01.2021 to 27.01.2021 and CMWSSB forwarded the Evaluation Report to JICA for obtaining concurrence on 27.01.2021 Obtaining concurrence from JICA on the Report on the Evaluation of Prequalification (PQ) Applications during February 2021 Task 10: Request for Proposal (RFP) – commence and review the final document preparation of the following in February 2021 Part I – Bidding Procedures Part II – Employers Requirements (3 Volumes) Part III – Conditions of Contract and Contract Forms Part IV – Price Schedule Obtaining concurrence from JICA on the Request for Proposal (RFP) document during February 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 Pumps combination at Perur will be reviewed. 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. Submission on Review Note on Product Water Transmission Main for arriving the pump head for Perur DSP. Task 3: Conducting Surveys and Investigations – Confirm the scope of services for the proposed site for geotechnical investigation Finalization of layout plan for CWR and PS at Porur Preparation, finalisation of Terms of Reference and carry out the Geotechnical Investigations at Porur new WDS site

Contract	
Package	Activities (Planning for next months)
CP3	Task 1: Design reviews – undertake the review of design and bid document deliverables (by others), if prioritised by CMWSSB Hydraulic analysis of the product water transmission main for final determination of the pump head and countermeasure for water hammer. Received the product water pipeline transmission design, we will review the final design to arrive at the pumping head required at Perur pumping station. Task 2: Review of draft CP3 bid documents (prepared by CMWSSB) and the issue of comments
CP4	Task 1: Reconnaissance Survey, Data and information collection – collect and verify data on the existing CMWSSB water distribution network according to agreed prioritisation of WDZs (Area X and Area XIII) Review of Technical information about the Project, revision of population and demand details with CMWSSB consent. Collect and review of the topographical survey for the Chennai core city. Review of the inventory data of the other zone-wise distribution network provided by CMWSSB Reconnaissance Survey and a Site visit to various Water Distribution Stations. Task 3: Conducting Surveys and Investigations Preparation, finalisation of Terms of Reference for the topographical survey work in Core City of Chennai Corporation Obtaining 3 quotations from the survey agency, preparation of comparison statement and award of work for carrying out the topographical survey work in Core City of Chennai Corporation Task 4: GIS development – progressive development of the GIS database for existing water distribution asset inventory, including design of attribute data structure Task 5: Preparation of Preliminary Design basis status report – a document for proposed design criteria for water distribution system modelling and design Preparation and submission of PMC observations on various components of the Master plan/ JICA report
CP5	No planned activities during this period
General	 Preparation of updation of Concept Design Report for CP1 components – finalise based on Client/JICA reviews Preparation and Submission of Monthly Progress Report for January 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 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 Preparation of Environmental Management Plans and Environmental Monitoring Plans for CP1, CP2-1 and CP2-2 (for Perur pumping station). Presentation of Final Environmental Impact Assessment review report and finalisation of the EIA by incorporating the comments, if any, from CMWSSB. Preparation of Social Safeguard Review (Final Report) for CP1 and CP2 components Attending the Stakeholder Consultation meeting with CMWSSB and World Bank team for allocation of funding pattern for Zone X and Zone XIII for CP4 components Land acquisition/access status review – review and Report on the status of all land acquisition and access requirements for all Project sites/routes and develop an action plan to close gaps.

5.2 Managing Progress Risks

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

Table 14: Managing Progress Risks (PMC activities)

Contract Package	Risk	Control measure	Status
All	COVID-19 virus Pandemic restricts travel movements of PMC personnel and prevents mobilisation of key personnel	Agreement with CMWSSB for selected activities/tasks to be completed remotely (not Chennai based) to avoid any delays to progress	•
All	JICA concerns with the rate of progress and achieved activities to date	PMC has prepared an updated work schedule to compress the timeline for CP1 activities and shorten the duration 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 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 January 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 – January 2021

There are no achieved activities (Works) to report.

6.2 Actual Progress versus Planned Progress –January 2021

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

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

6.3 Financial Progress in January 2021

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

6.4 Health & Safety - January 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 January 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 February 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

SI. No.	Name of the Expert (International/ National Local)	Role/ Position	Staff Month (SM)					
KEY	EXPERT							
1	Dr.P.Dharmabalan	Project Manager- International Expert	70					
2a	Dr.Ghulam Mustafa	Desalination Expert- International Expert	29.50					
2b	Dr.Uday G.Kelkar	Additional Key Expert – International Expert	2.50					
3	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.Abdel 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 12	Mr.Rajesh Mishra Mr.Hyacinth Augusto Vaz	Social Communication Specialist Organisational Expert	16 9					
14	Sub Total	Organioational Expert	133					
NON	KEY EXPERT – NATIONAL	<u>'</u>						
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					

SI.	Name of the Expert	Role/ Position	Staff					
No.	(International/ National Local)	Kole/ Position	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					
SUPI	PORTING 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.Pilominraj Raja (Replaced for Mr.R.Jagan)	Office Keeper-1	70					
13	Mr.Thiruvengadam Someswaran (Replaced for Mr.G.Arjun)	Office Keeper-2	70					
	Sub Total		720					
	Total		1988					

Annexure 2 Project Scope

SI. No.	Component	Construction Items				
CP1	Construction of the Perur DSP (400 MLD)	 Seawater intake facilities Pre-treatment facility Seawater desalination facilities by Reverse Osmosis (RO) technology Post-treatment facility for remineralisation and disinfection Potable water storage Effluent discharge pipelines Pre-treatment and wastewater treatment facility All other buildings and structures necessary for the seawater desalination plant Perur electrical sub-station (80 MVA capacity). Perur UGT Product water tanks of Capacity 36 ML (4 compartments of each 9 ML) Proposed to construct a potable water tank of 10 ML capacity instead of 9 ML capacity 				
CP2	Construction of Pumping Station and Reservoirs	Pumphouse and pump facility at Perur DSP				
CP3	Construction of product water transmission system	 Product water transmission main (DN 1000, 1600, 1800 and 2000mm, 65 km, MS or DI pipe) 				
CP4	Improvement of the existing distribution system in Chennai Core City	 Replacement of the existing distribution pipes (DN100-450 mm, 375km, DI pipe) Installation of supplementary distribution pipes to strengthen the capacity of the existing distribution networks (D150-700mm, 101km, DI pipe) Installation of new water distribution pipes in un-covered streets in Core city (DN100-150 mm, 258km, DI pipe) Reinforcement of the storage capacity of Under Ground Tank (UGT) and Elevated Storage Tanks (ESRs) Installation of service connections and water meters Setup of district metered areas (DMA) 				
CP5	Installation of external power transmission line	 Construction of 230/110 kV transmission lines to achieve dedicated power feed to the existing Nemmeli DSP, Nemmeli Expansion DSP and the proposed Perur DSP 				

Annexure 3 Overall Work Plan

Annexure 4 Work Schedule (Contract Package-wise)

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

Annexure 6 Personnel Inputs Summary

PERSONNEL INPUT SUMMARY FOR JANUARY 2021

SI. No.	Key activity / significant task carried out	List of PMC team members	Working on Delivery						
1	 Due to COVID-19 Pandemic issues across the globe, the Government of Tamil Nadu announced the extended partial lockdown period from 01.01.2021 to 31.01.2021 throughout Chennai and its adjacent Districts in Tamil Nadu, so some of the International staffs (outside Chennai) are allowed to work on the Project as Work From Home option. Preparation and review of updated Topographical Survey drawing for 400 MLD Desalination Plant (CP1) and its Pumping Station (CP2-1) at Perur on 04.01.2021 	Dr.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.R.Senthil (Civil Engineer)	Submission of updated Topographical Survey drawing for 400 MLD Desalination Plant (CP1) and its Pumping Station (CP2-1) at Perur on 04.01.2021						
2	 Discussion on the issues/ concerns for the specific tasks allocated / working deliverables/ activities, project status for CP2 and CP4 components 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.R.Senthil (Civil Engineer); Mr.Mayur Gupta (Mechanical Engineer); Mr.Om Prakash Singh (Electrical Engineer); Mr.Rahul N Ramdhan (Pipeline Engineer-1); Mr.P.Thangavel (Pipeline Engineer-2); Dr.Alok Kumar (Environmental Specialist); Mr.S.M.Karthikaeswaran (Environmental Specialist); Mrs.R.Kanmani (Social Communication Specialist); Mr.R.Muthurajan (Quantity Surveyor-1); Mr.V.S.Rajasekar (Quantity Surveyor-2); Ms.J.Sudha (Structural Engineer); Mr.Suresh Mohan Diwivedi (GIS Operator)	Preparation of Preliminary Design Report and site visit report for CP2 and CP4						
3	 Attended the Prequalification (PQ) Application opening at the 6th-floor conference hall of CMWSSB along with CMWSSB officials on 05.01.2021 for CP1 components on DBO basis 	Mr.Siddappaswamy (Sr. Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist); Mr.R.Senthil (Civil Engineer)	Prequalification (PQ) Application opening for CP1 on DBO basis						

SI.	Key activity / significant task carried	List of PMC	Working on						
No.	out	team members	Delivery						
4	 Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the evaluation of Prequalification (PQ) Application and Review of Draft Request For Proposal (RFP) (Rev.1) for CP1 components on DBO basis on 07.01.2021 	Dr.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Dr.Ghulam Mustafa (Desalination Expert); Mr.Ganesh Venkataraman (Specification Specialist, Desal); Mr.Afzal Abdul Latheef (Monitoring & Control Expert, Desal); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Preparation and Evaluation of PQ Applications and Draft RfP (Rev.1) document for CP1 components on DBO basis						
5	 Preparation of Monthly Progress Report (MPR 11) for December 2020 	Dr.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.R.Senthil (Civil Engineer); Mr.B.Ajithkumar (Secretary)	MPR 11 (10 copies) submitted on 08.01.2021						
6	 Online Microsoft Teams Meeting conducted by Senior Civil Engineer (PMC) for a discussion on the evaluation of Prequalification (PQ) Applications for CP1 components on DBO basis on 07.01.2021 	Dr.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Dr.Uday G.Kelkar (Additional Key Expert – International)	Preparation of PQ Evaluation Report for CP1 components on DBO basis						
7	 Review of Specification for civil works, Design of Administrative building for new Desalination Plant at Perur for CP1. Preparation of Architectural layouts for Workshop and Warehouse, Security office. Review of General Specification and 5A Particular Specification for the Civil works. Preparation of Rough Cost Estimate for Microbiology lab building (G+1) from 04.01.2021 to 11.01.2021 	Mr.Siddappaswamy (Sr. Civil Engineer); Dr.D.Elanchezian (Civil & Structural Engineer); Mrs.Kirti Alhad Sadarjoshi (Architect); Mr.R.Muthurajan (Quantity Surveyor-1)	Preparation of Final Concept Design Report and Draft Request For Proposal (RFP) for CP1 components on DBO basis						
8	■ Review of Draft RfP (Rev.1) document and discussion at PMC office along with Chief Engineer (Project-II & III), other CMWSSB officials on Part-I to Part-III of Draft RfP (Rev.1) document on 07.01.2021 to 08.01.2021	Mr.S.Srinivasarao (Project Coordinator); Mr.Afzal Abdul Latheef (Monitoring & Control Expert, Desal); Mr.Ganesh Venkataraman (Specification Specialist, Desal); Mr.R.Senthil (Civil Engineer)	Preparation of Draft RfP (Rev.1) document for CP1 components on DBO basis						

SI.	Key activity / significant task carried	List of PMC	Working on Delivery						
No.	Out	team members	Delivery						
9	 Online Microsoft Teams Meeting conducted by Desalination Expert (PMC) for a discussion on Part-II of Draft RfP (Rev.1) document Mobilisation of Mr.K.Senthil, Building Mechanical and Electrical Engineer on 11.01.2021 Review of Draft RfP (Rev.1) document and discussion at PMC office along with Executive Engineer (Desal), other CMWSSB officials on Part-II Employers requirements of Draft RfP (Rev.1) document on 09.01.2021 to 12.01.2021 	Dr.Ghulam Mustafa (Desalination Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.Ganesh Venkataraman (Specification Specialist, Desal); Mr.Abdel Fattah Toukan (Contract Specialist, International Expert); Mr.G.Parasuraman (Senior Electrical Engineer); Mr.Om Prakash Singh (Electrical Engineer); Mr.Santosh Biswa (Contract Management Specialist)							
10	 Meeting at 1st Floor Conference Hall with Chief Engineer (Project-II & III) and other CMWSSB officials for a review of Part-I and Part-III of Draft RfP (Rev.1) document on 13.01.2021 	Mr.Siddappaswamy (Sr. Civil Engineer); Mr.Abdel Fattah Toukan (Contract Specialist, International Expert); Mr.Hemant Chadha (Finance Specialist); Mr.Ganesh Venkataraman (Specification Specialist, Desal); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)							
11	 Online Microsoft Teams Meeting conducted by Project Manager (PMC) for a discussion on the review of Part-I to Part-III of Draft RfP (Rev.1) document on 15.01.2021 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Mr.Abdel Fattah Toukan (Contract Specialist, International Expert); Mr.Ganesh Venkataraman (Specification Specialist, Desal); Mr.Santosh Biswa (Contract Management Specialist)							
12	 Online Microsoft Teams Meeting conducted by Senior Civil Engineer (PMC) for a discussion on the finalisation of Prequalification (PQ) Evaluation Report for CP1 components on DBO basis on 17.01.2021 	Mr.Siddappaswamy (Sr. Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Dr.Uday G.Kelkar (Additional Key Expert – International); Mr.Hemant Chadha (Finance Specialist); Mr.Santosh Biswa (Contract Management Specialist)	Preparation of PQ Evaluation Report for CP1 components on DBO basis						

SI. No.	Key activity / significant task carried out	List of PMC team members	Working on Delivery						
13	 Preparation of Quarterly Progress Report QPR 04) for October to December 2020 	Dr.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.Nagesh Chinnam (Senior Pipeline Engineer); Mr.R.Senthil (Civil Engineer)	QPR 04 (10 copies) submitted on 18.01.2021						
14	 Review of Draft RfP (Rev.1) document and discussion at PMC office along with Chief Engineer (Project-II & III), other CMWSSB officials on Part-II Employers requirements of Draft RfP (Rev.1) document on 16.01.2021 Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the finalisation of the Draft RfP (Rev.1) document on 19.01.2021 Meeting at 1st Floor Conference Hall with Executive Director and other CMWSSB officials for finalisation of JV, Price Indices, Alternative bidders and Technical Schedules of Draft RfP (Rev.1) document on 19.01.2021 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Dr.Ghulam Mustafa (Desalination Expert); Mr.Pushpendra Sharma, (Legal Expert); Mr.Abdel Fattah Toukan (Contract Specialist, International Expert); Mr.Ganesh Venkataraman (Specification Specialist, Desal); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Submission of Draft RfP (Rev.1) document on 21.01.2021						
15	 Online Microsoft Teams Meeting conducted by Desalination Expert (PMC) for a discussion on Part-I(A) Price Schedule and finalisation of Draft RfP (Rev.2) document on 22.01.2021 	Dr.Ghulam Mustafa (Desalination Expert); Mr.Ganesh Venkataraman (Specification Specialist, Desal); Mr.R.Senthil (Civil Engineer)	Preparation and finalisation of Draft RfP (Rev.2) document on 22.01.2021						
16	 Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the finalisation of Prequalification (PQ) Evaluation Report for CP1 components on DBO basis on 22.01.2021 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Dr.Uday G.Kelkar (Additional Key Expert – International); Mr.Hemant Chadha (Finance Specialist); Mr.Santosh Biswa (Contract Management Specialist)	Preparation of PQ Evaluation Report for CP1 components on DBO basis						
17	 Preparation of Draft RfP (Rev.2) and discussion at CMWSSB Koyambedu TTRO Plant along with Chief Engineer (Project-II & III), CMWSSB officials on Part-I and Part-III of Draft RfP (Rev.2) document on 23.01.2021 	Mr.Siddappaswamy (Sr. Civil Engineer); Mr.R.Senthil (Civil Engineer)	Submission of Draft Request For Proposal (RFP) (Rev.2) for CP1 components on DBO basis on 25.01.2021						

SI. No.	Key activity / significant task carried out	List of PMC team members	Working on Delivery						
18	 Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on Payment Milestone clause etc. and Part-I(A) Price Schedule of finalisation of Draft RfP (Rev.2) document on 24.01.2021 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Dr.Ghulam Mustafa (Desalination Expert); Mr.Ganesh Venkataraman (Specification Specialist, Desal); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Delivery						
19	 Online Microsoft Teams Meeting conducted by Senior Civil Engineer (PMC) and discussion along with CMWSSB officials on Liquidity Damage, Milestone and Payment terms, Price escalation etc. clause on Part III of Conditions of Contract and Contract Forms and Part-IV of Price Schedule of Draft RfP (Rev.3) document on 26.01.2021 Discussion at O/o Chief Engineer (Project-II & III) and Controller of Finance (R), CMWSSB officials on JV agreement, JV terms, Milestone interlinking with Liquidity Damage etc. clause of Draft RfP (Rev.3) document on 27.01.2021 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Dr.Ghulam Mustafa (Desalination Expert); Mr.Abdel Fattah Toukan (Contract Specialist, International Expert); Mr.Ganesh Venkataraman (Specification Specialist, Desal); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist)	Submission of Draft Request For Proposal (RFP) (Rev.3) for CP1 components on DBO basis on 27.01.2021						
20	 Evaluation of 4 Prequalification (PQ) Applications for CP1 components on DBO basis from 06.01.2021 to 27.01.2021 	Mr.Siddappaswamy (Sr. Civil Engineer); Mr.Abdel Fattah Toukan (Contract Specialist, International Expert); Mr.Hemant Chadha (Finance Specialist); Mr.Santosh Biswa (Contract Management Specialist)	Submission of PQ Evaluation Report						
21	 Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the finalisation of Prequalification (PQ) Evaluation Report for CP1 components on DBO basis on 26.01.2021 Preparation and finalisation of PQ Evaluation Report for CP1 components on DBO basis 	Dr.P.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Dr.Uday G.Kelkar (Additional Key Expert – International); Mr.Santosh Biswa (Contract Management Specialist)	for CP1 components on DBO basis on 27.01.2021						

SI.	Key activity / significant task carried	List of PMC	Working on
No. 22	Online Microsoft Teams Meeting conducted by Project Coordinator (PMC) for a discussion on the finalisation of Concept Design Report for CP1 components on DBO basis on 28.01.2021	team members Dr.P.Dharmabalan (Project Manager, International Expert); Mr.Siddappaswamy (Sr. Civil Engineer); Mr.S.Srinivasarao (Project Coordinator); Dr.Ghulam Mustafa (Desalination Expert); Mr.Abdel Fattah Toukan (Contract Specialist, International Expert); Mr.R.Senthil (Civil Engineer); Mr.Santosh Biswa (Contract Management Specialist); Mr.S.M.Karthikaeswaran (Environmental Specialist);	Preparation of Final Concept Design Report for CP1 components on DBO basis
23	 Site Visit and Data collection for CP4 components from 04.01.2021 to 30.01.2021 Site Visit and data collection from O/o CMWSSB at Besant Nagar existing water distribution system of Zone XIII Verification and data collection from CMWSSB officials for Depot 176 of the existing water distribution system for Zone XIII and discussion with the respective area/depot Engineer. Verification and data collection from CMWSSB officials for Depot 131, 137 and 142 of existing feeder main details for Zone X and discussion with the respective area /depot Engineers. Site Visit to Choolaimedu Headworks and KK Nagar Headworks for obtaining the details from CMWSSB officials. Verification and data collection from CMWSSB officials for Depot 127 and 128 of existing feeder main and distribution system details for Zone X and discussion with the respective area /depot Engineers. 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. 	Mr.Nagesh Chinnam (Sr. pipeline Engineer); Mr.Rahul N Ramdhan (Pipeline Engineer-1); Mr.P.Thangavel (Pipeline Engineer-2); Mr.R.Muthurajan (Quantity Surveyor-1); Mr.V.S.Rajasekar (Quantity Surveyor-2)	Preparation of Preliminary Design Report and Site Visit for CP2 to CP4 components

SI.	Key activity / significant task carried	List of PMC	Working on
No.	out	team members	Delivery
	 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. Site Visit and Data collection from Pallipattu WDS and Mylapore WDS 		

Annexure 7 Team Deployment Schedule for Next months

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.

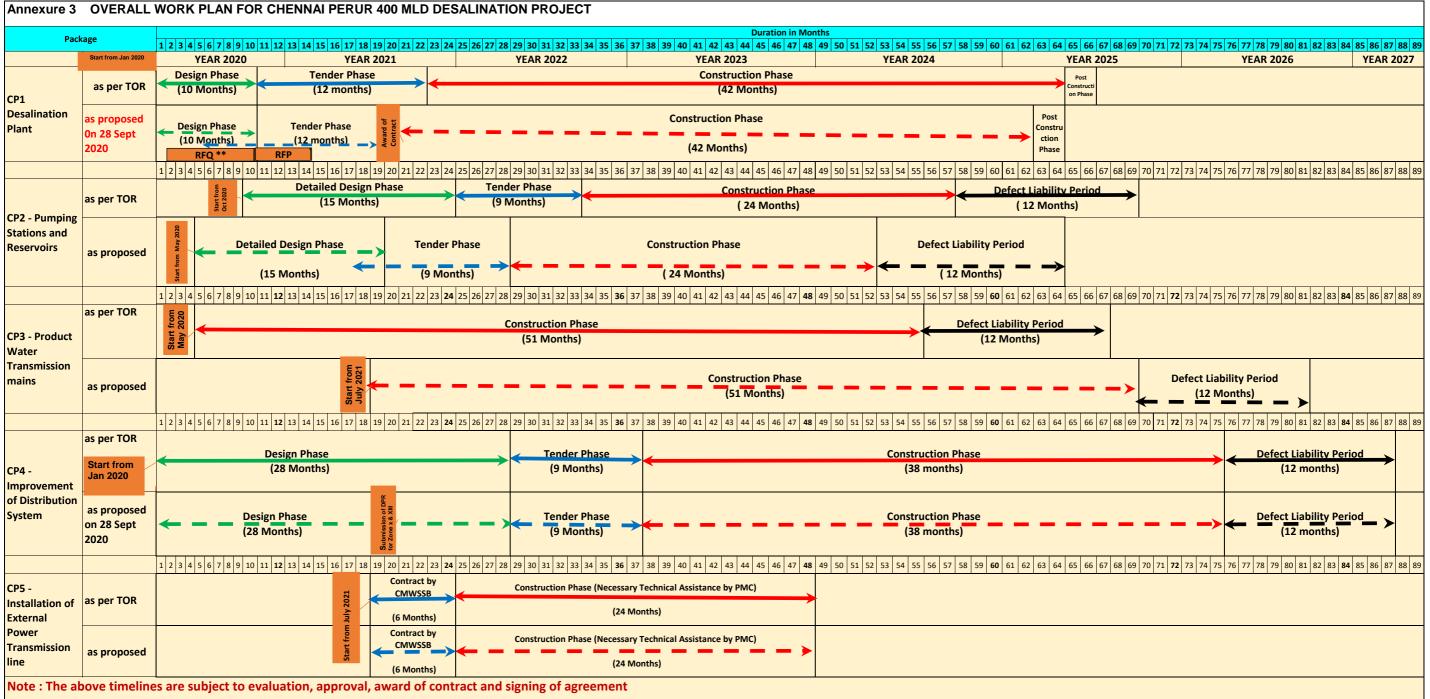












Note: 1. The tentative date of deliverables have been worked out based on the discussion with CMWSSB officials, but the total time duration of each component is fixed as per ToR / as proposed by the PMC team.

- 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. JICA has given concurrence on the PQ documents for CP1 to CMWSSB for floating of Notice Inviting Tender (NIT) on 30th September 2020
- 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
- 7. The RFP document have been submitted to CMWSSB on 27.01.2021 and CMWSSB have forwarded the RFP document to JICA for obtaining the concurrence

Legend:

Design Phase

Construction Phase

Tender Phase

Defect Liability Period

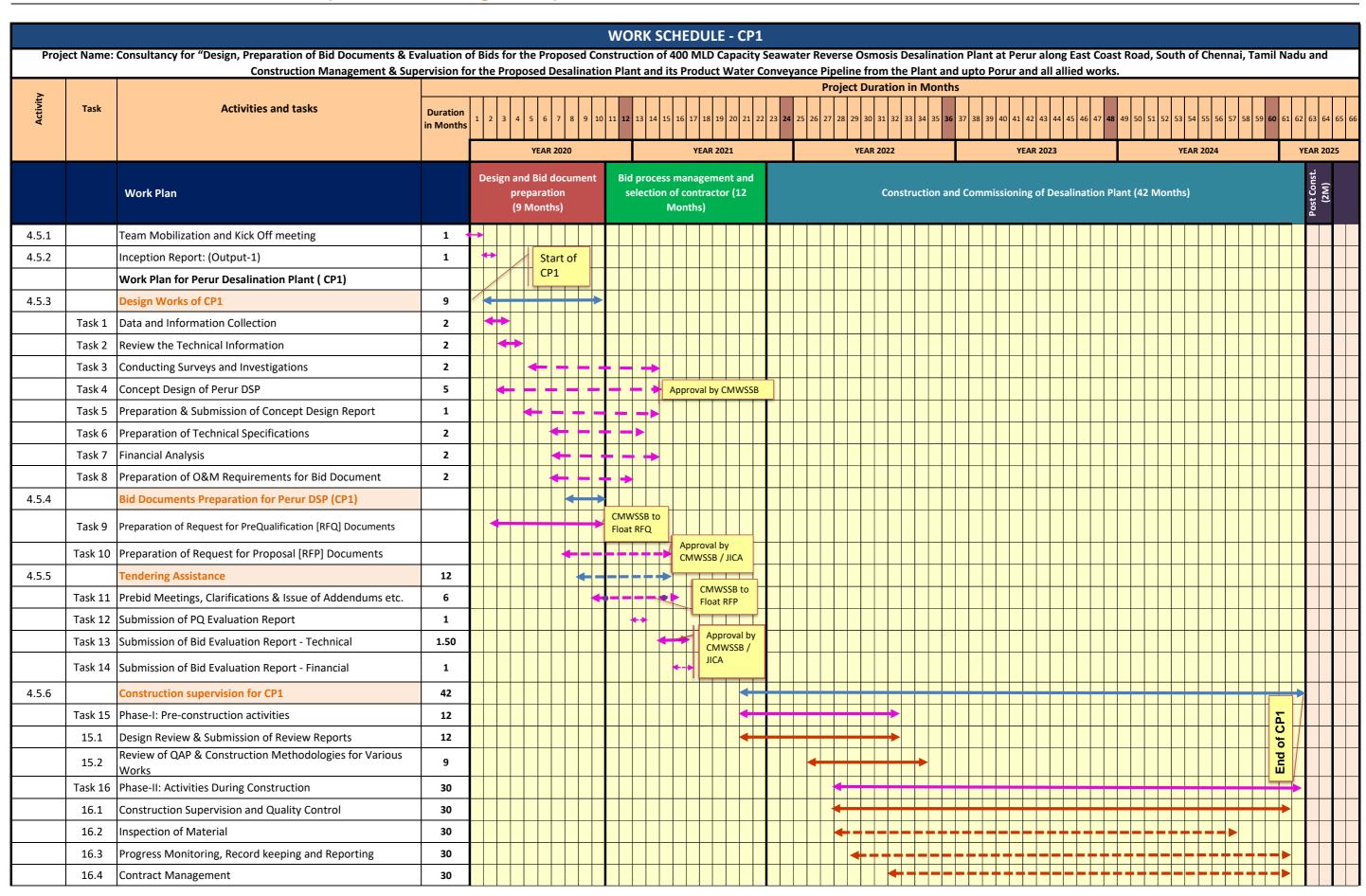
Note 2: Revised Project Schedule due to the effect of COVID 19

For CP1 - Refer the bar chart "as proposed on 26 Sept 2020"

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



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. **Project Duration in Months** Task **Activities and tasks** Duration in Months Measurements, Claims and Financial Control 30 Task 17 Phase-II: Activities During Trial Run and Commissioning 2 17.1 Pre Commissioning Activities 6 17.2 Commissioning Activities Monthly Progress Report with Quality & Quantity Control Monthly When Material / Equipment Testing & Inspection Report Ever 4.5.7 Task 18 2 PMC Services During Post-Construction As-Built Drawings 2 18.2 Submission of Project Completion Report [PCR] 2 nplementation of EIA and EoMP

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
- $\textbf{4. Pre-bid Prequalification Application meeting held at CMWSSB} \ and \ also \ through \ Online \ Webex \ meeting \ on \ 29.10.2020$
- 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
- 7. The RFP document have been submitted to CMWSSB on 27.01.2021 and CMWSSB have forwarded the RFP document to JICA for obtaining the concurrence

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 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. **Project Duration in Months** Activity **Activities and tasks** Duration Task in Months YEAR 2020 YEAR 2021 YEAR 2022 YEAR 2023 YEAR 2024 YEAR 2025 Bid process managemer **Design and Bid document preparation Construction and Commissioning Defect Liability Period Work Plan** and selection of (15 Months as per RFP) (24 Months) (12 Months) contractor (9 Months) Balance Team Mobilization by Commencement Date 1 Start Work Plan for Construction of Storage Reservoirs & of CP2 Pumping Stations (CP2) 15 4.5.8 **Design Works of CP2** Task 1 Data and Information Collection 1 1 Task 2 Review the Technical Information 1.50 Task 3 Conducting Surveys and Investigations Detailed Design of the Reservoirs and Pumping Stations 8 Task 4 Preparation & Submission of Draft Detailed Design Report 3 Task 5 Approval by **CMWSSB** Task 6 Preparation & Submission of Final Detailed Design Report 2 4.5.9 2 **Bid Documents Preparation for CP2** Preparation of Request for PreQualification [RFQ] 1 Approval by Task 7 Documents (If required) CMWSSB / JICA 1 Preparation of Request for Proposal [RFP] Documents Task 8 4.5.10 9 Tendering Assistance 8 Task 8 Prebid Meetings, Clarifications & Issue of Addendums etc. CMWSSB to Float **CMWSSB** to Float 1 Task 9 Submission of PQ Evaluation Report End of CP2 1 Task 10 | Submission of Bid Evaluation Report - Technical Approval by 1 CMWSSB / JICA Task 11 | Submission of Bid Evaluation Report - Financial 4.5.14 24 Construction supervision for CP2 Task 12 Phase-I: Pre-construction activities 2 Review of QAP & Construction Methodologies for Various 2 12.1 Works Task 13 Phase-II: Activities During Construction 20 13.1 Construction Supervision and Quality Control 20 20 13.2 Inspection of Material 13.3 Progress Monitoring, Record keeping and Reporting 20 20 13.4 Contract Management Measurements, Claims and Financial Control 20 13.5 Task 14 Phase-II: Activities During Trial Run and Commissioning 2 14.1 Pre Commissioning Activities

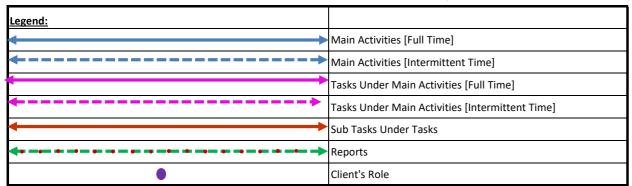
WORK SCHEDULE - CP2

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.

		ivianagement & 30	ipei vision i			poscu	D C3	uiiiiu			t unu i	165 1 1	ouuct	wat	c. c	,,,,,,	unce	. i ipc				· iaiic	ana c	apto	. 0. u	· una	un un	ica w	OI KJ.											
																			Pro	oject	Dura	tion	in Mo	nths																
Activity	Task	Activities and tasks	Duration in Months	111	2 3	4 5 6	7	8 9	10 11	12 13	3 14 15	16 1	7 18 19	20 2:	1 22	23 24	25 26	5 27 28	8 29 3	30 31	32 33	34 35	36 3	7 38	39 40	41 42	43 44	45 46	47 48	49 50	51 52	53 54	55 56	57 58	59 60	61 6	2 63 6	4 65 6	66 67 6	8 69 70
	14.2	Commissioning Activities	1																												*									
		Monthly Progress Report with Quality & Quantity Control Details	24																•		-				•			-			-									
		Material / Equipment Testing & Inspection Report	24																+				+		_	-+-	-			+	_									
4.5.15	Task 15	Defect Liability Period	12																													+					>	•		
	15.1	As-Built Drawings	1																																*					
	15.2	Submission of Project Completion Report [PCR]	3																															,	+	-				
	Task 16	Regular Inspection During Defect Liability Period	12																													-					-			
		Implementation of EIA and EoMP	48						-			+	+	-											-									•						

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.



WORK SCHEDULE - CP3

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.

														Pr	oject Du	ıration	in Mont	hs											
Activity	Task	Activities and tasks	Duration	1 2 2	4 5 6 7	00101113	12 14 15 16 17	10 10 20	24 22 22	24 25 26	27, 20, 2	20 20 24	22 22 2	24 25 26	27, 20, 20	10 41	42 44	45 46 4	7 40 40	50 51	52 52 54	FE FC F	7 50 50	60 6	1 62 62 64	5 66 67 60	60 70 71	72 73 74 75	76 77 70
¥			in Months		4 5 6 /	8 9 10 11 12	13 14 15 16 17	18 19 20	21 22 23	24 25 26	2/ 28 2	29 30 31	32 33 3	34 35 36	3/ 38 35	40 41 2	12 43 44 4	45 46 4	48 49	50 51	52 53 54	55 56 57	7 58 59	60 6.	1 62 63 64 6	5 66 67 68	69 70 71	72 /3 /4 /5	76 77 78 7
					YEAR 2			EAR 2021				YEAR 202	22			YE	AR 2023				YEAR	2024				YEAR 2025		Y	YEAR 2026
		Work Plan				/SSB sent the RFF ument to JICA for concurence								Co	onstructio	on and (Commissi	oning ((51 Mo	nths)							Defect L	iability Perio	od (12 Mon
	I	Balance Team Mobilization by Commencement Date	1	*				*	Start o	f CP3																			
4.5.14	(Construction Supervision for CP3	51																										
-	Task 1	Phase-I: Pre-construction activities	2					1																					
	1.1	Review of DPR for CP3	2					1																		f CP3			
	1 / 1	Reconnaissance Survey and Understand the Scheme Proposals for CP3	2					‡																		End of			
		Assisting in Land Acquisition, Authority Permissions for the Facilities for CP3	7					+																					
	1.4	Developing the Reporting Requirements for CP3	2							++																			
	15	Review of Good for Construction [GFC] Drawings, QA & QC Plans for CP3	7					.		-+																			
1	Task 2	Phase-II: Activities During Construction	46					4																					
	2.1	Construction Supervision and Quality Control	46					•																	++++				
	2.2	Inspection of Material	46					+												-+-									
	2.3	Progress Monitoring, Record keeping and Reporting	46					•			+++	++-				-	╺┝╺┾			┝┿			-+-	++-					
	2.4	Contract Management	46					+			-++																		
	2.5	Measurements, Claims and Financial Control	46					+																					
-	Task 3	Phase-II: Activities During Trial Run and Commissioning	2																							 			
	3.1	Pre Commissioning Activities	1																						-	++			
	3.2	Commissioning Activities	1																							++			
		Monthly Progress Report with Quality & Quantity Control Details	51					-	-									-											
	1	Material / Equipment Testing & Inspection Report	51					-			+++			-++-	+		╺┾┿┿			-			++-		· - 	++-			
4.5.15	Task 4	Defect Liability Period	12																								+		
	4.1	As-Built Drawings	1																								+		
	!	Submission of Project Completion Report [PCR]	3																								-	\mapsto	
-	Task 5	Regular Inspection During Defect Liability Period	12																								 -		
		Implementation of EIA and EoMP	51					+									+++												

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

							,	WOR	K SC	HED	ULE	- CP4	4																														
Projec	t Name: C	onsultancy for "Design, Preparation of Bid Documents & Eva	luation of Bi	ids for			Constr ation P																			oad, S	outh (of Che	nnai,	Tamil	Nadu	and C	Const	ructior	Man	nagem	ent & s	Super	rvision	for th	ne Prop	osed	
																				Proje	ect Du	ıratioı	n in N	lonth	s																		
Activity	Task	Activities and tasks	Duration in	2 3	4 5 6	7 8	9 10 11	12 13	14 15 16	5 17 18	3 19 20	21 22	23 24	25 26	27 28	3 29 30	31 32	33 34	35 36 3	37 38 3	89 40 4	1 42 4	13 44 4	5 46 4	7 48 4	9 50 51	52 53	54 55	56 57 !	58 59 6	60 61 6	2 63 64	4 65 6	6 67 68	69 70	71 72	73 74 7	75 76	77 78 79	80 81	1 82 83 8	85 86 8	87
			Months		YEAR	2020				YEAI	R 2021			Ė		YEAR	2022					YEAR 2	2023				Y	EAR 202	4				YEA	R 2025					YEAR 20)26		YEAR 202	27
		Work Plan				ı	Design a		docum 8 Mont		eparat	tion				-			of	it						C	onstru		and Co Month		ioning								Defe		bility Pe Ionths)	riod	
		Balance Team Mobilization by Commencement Date	1 4																																								
					Start o	of CP4	\uparrow				4					Ш		\perp		\bot											\perp	44	11										
		Work Plan for Improvement of Existing Water Distribution System (CP4)					_																																				
4.5.11		Design Works of CP4	27												-																												
	Task 1	Reconnaissance Survey, Data and Information Collection	2	4-		- -	-		•																																		
	Task 2	Review and Analysis of Data	2	+			-++-	-	>																																		
	Task 3	Conducting Surveys and Investigations	3		4-			-++			Ш									Ш												Ш	Ш										
	Task 4	Detailed Design of the Improvement of the Existing Water Distribution System CP4	18				+								-																												
	4.1	Upgradation of Existing network in GIS	12				4				++,																																
	4.2	Creation of District Metered Areas (DMAs)	8				+			-																																	
	4.3	Hydraulic Design and Modelling of distribution system	8				+			•																																	
	4.4	Plan to Improve the Existing Network	6					+																																			
	4.5	Design and Improvement of Storage reservoirs	6					+																																			
	4.6	Design and providing metered service connections	6						+																																		
	4.7	Design the SCADA system	6						\blacksquare		-																																
	Task 5	Preparation and Submission of Draft Detailed Project Report	2									+				b	Approva by CMWSS																										
	5.1	Preparation and Submission of Final Detailed Project Report										4	-																														
	Task 6	Assisting in procurement of Software to CMWSSB	2					\blacksquare																																			
	Task 7	Preparation of Technical Specifications	3											+	-																												
	Task 8	BoQ Preparation	2											+	-																												
	Task 9	Bid Documents Preparation for CP4	2											+																													
4.5.13		Tendering Assistance	9													-																											
	Task 10	Prebid Meetings, Clarifications & Issue of Addendums etc.	8											-					-																								
	Task 11	Submission of Draft Bid Evaluation Report	1											MWSSB			1++																										
	Task 12	Submission of Final Bid Evaluation Report - Technical	1										T									Approv																					
	Task 13	Submission of Bid Evaluation Report - Financial Evaluation	1															+				CMWS	SSB / JI	CA																			

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 upto Porur and all allied works.

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																				P	roject	Durat	tion in	Mon	:hs																		
Activity	Task	Activities and tasks	Duration in Months	n 1	2 3	4 5 6	7 8	9 10 11	12 13	14 15 1	16 17 1	8 19 20	21 22	23 24 2	25 26 27	28 29	30 31	32 33	34 35 3 6	6 37	38 39 4	41 4	2 43 44	4 45 46	47 48	49 50	51 52 53	3 54 55	56 57	58 59	60 61	62 63	64 65 6	66 67	68 69 70	71 7	73 74 7	75 76	77 78 7	9 80 8:	1 82 83	3 84 8	5 86 87
4.5.15		Construction Supervision for CP4	38																		\bigoplus																						
	Task 20	Phase-I: Pre-construction activities	2																		+															H				End of	f CP4		
	20.1	Review of QAP & Construction Methodologies for Various Works	2																		+																						
	Task 21	Phase-II: Activities During Construction	34																			++										+	+	+	+	+	→				A 17		
	21.1	Construction Supervision and Quality Control	34																		•											\blacksquare	\blacksquare	\blacksquare		H	→						
	21.2	Inspection of Material	34																		•	+	- - -								- - -		-++	. 4 -			-						
	21.3	Progress Monitoring, Record keeping and Reporting	34			\top															4	← →								• -				. + +			-						
	21.4	Contract Management	34		П	\top															4	-								•			╺┝┿	. + +		Æ	-						
	21.5	Measurements, Claims and Financial Control	34																		•	+ +				•				•			╍┾╼┾	•			-						
	Task 22	Phase-II: Activities During Trial Run and Commissioning	2		\top	\top								\top	\top						\top								Ш	\top	\top		\top	\Box				11					T
		Pre Commissioning Activities	1		П	П														П											П						*						П
	22.2	Commissioning Activities	1																																		*	→					
		Monthly Progress Report with Quality & Quantity Control Details	38																		•	1			-	-				-			-	-			+ + -						
		Material / Equipment Testing & Inspection Report	38																		4																						
4.5.7	Task 23	Defect Liability Period	12																																							44	
	23.1	As-Built Drawings	1																																	Ш		*		417	4 I I		41'
	23.2	Submission of Project Completion Report [PCR]	3																																			-	-				
	Task 24	Regular Inspection During Defect Liability Period	12																																			-			++-	++-	
		Implementation of EIA and EoMP	73		4-							++-					-		-++	++			-	++-				++-				-				++							

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>																			Pro	ject D	urati	on in	Mon	ths -	30 M	onths	Invol	veme	ent							-										
ĭ	Task	Activities and tasks	Duration																																								\mathbf{T}			П
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			Months																																										Ш	
4.5.16		Installation of External Power Transmission Line CP5	30									1															+																			
	Task 1	Technical Coordination	30									4										-		FF.	++	+	•								П											
	Task 2	Monthly Progress Report	30									•	-		ľ		-		ļ		-				•		•																			
		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 (BILLS PASSED) TILL JANUARY 2021

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

DATE : 31.01.2021

PERIOD : Projected till January 2021

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneratio n / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (December 2020)	Person Months/ Quantity Spent for current month (January 2021)	Total Person Months/ quantity spent upto current month (January 2021)	Balance Carried over	Amount Booked as on last Month (December 2020)	Amount Booked for this Invoice (January 2021)	Total Booked upto this Invoice	Balance Amount
	SMEC INTERNATIONAL PTY	LTD												
I	REMUNERATION													
	Key International Expert (in US Dollar)													
1		Project Manager	Field	70	37,500	26,25,000	5.85	0.77	6.62	63.38	2,19,375	28,875	2,48,250	23,76,750
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	0.00	0.32	0.32	24.68	0	4,202	4,202	3,24,098
5	Mr.John Goullee	Pipeline Engineer	Field	70	22,602	15,82,140	0.00	0.00	0.00	70.00	0	0	0	15,82,140
6	Mr.Abdel Toukan (Replaced for Mr.Roderick Mackenzie)	Contract Specialist (Desal)	Field	9	44,407	3,99,663	2.26	0.86	3.12	5.88	1,00,360	38,190	1,38,550	2,61,113
	Non-Key Expert - International Expert													
7		Monitoring and Control Expert (Desal)	Field	11	19,260	2,11,860	1.18	0.73	1.91	9.09	22,727	14,060	36,787	1,75,073
	Sub Total 1 in USD			223		63,90,243	15.55	2.68	18.23	204.77	5,79,876	85,327	6,65,203	57,25,040
	Reimbursables													
II	DUTY TRAVEL TO SITE (in US Dollar)													
1	International Air Travel													
	Professional Staff	Trip		40	3,000	1,20,000	5	1	6	34	15,000	3,000	18,000	1,02,000
	Sub Total 2 in USD					1,20,000					15,000	3,000	18,000	1,02,000

SI. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneratio n / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (December 2020)	Person Months/ Quantity Spent for current month (January 2021)	Total Person Months/ quantity spent upto current month (January 2021)	Balance Carried over	Amount Booked as on last Month (December 2020)	Amount Booked for this Invoice (January 2021)	Total Booked upto this Invoice	Balance Amount
	SMEC INDIA PVT. LTD.													
	Non-Key International Expert (in US Dollar)													
1	Dr.D.Elanchezian	Civil and Structure Engineer (Desal)	Field	42	10,895	4,57,590	4.80	0.68	5.48	36.52	52,296	7,409	59,705	3,97,885
2	Mr.Ashish Gosain	Monitoring and Control Expert (Distribution)	Field	12	7,704	92,448	0.00	0.00	0.00	12.00	0	0	0	92,448
3	Mr.Ganesh Venkataraman (Replaced for Mr.J.Shanmuganathan)	Specification Specialist (Desal)	Field	4	7,264	29,056	1.13	0.68	1.81	2.19	8,208	4,940	13,147	15,909
4	Mr.Hemant Chadha	Financial Expert	Field	3	12,106	36,318	1.23	0.36	1.59	1.41	14,890	4,358	19,248	17,070
5	Mr.Santhosh Kumar	Commissioning Engineer	Field	10	10,015	1,00,150	0.00	0.00	0.00	10.00	0	0	0	1,00,150
6	Mr.Rajesh Mishra	Social Communication Specialist	Field	16	9,630	1,54,080	0.82	0.00	0.82	15.18	7,897	0	7,897	1,46,183
	Sub Total 3 in USD			87		8,69,642	7.98	1.72	9.70	77.30	83,290	16,707	99,997	7,69,645
	Non-Key Experts- Local Staff (Local in Rupees)													
7	Mr.Ramesh Senthil	Civil Engineer	Field	72	4,35,750	3,13,74,000	10.62	0.86	11.48	60.52	46,27,665	3,74,745	50,02,410	2,63,71,590
8	Mr.N.Srinivasulu Reddy	Construction Planner / Cost Estimator	Field	4	3,00,000	12,00,000	0.00	0.00	0.00	4.00	0	0	0	12,00,000
9	Mr.R.Muthurajan (Replaced for Mr.K.C.Vinod Chandra)	Quantity Surveyor - 1	Field	50	3,00,000	1,50,00,000	2.31	0.95	3.26	46.74	6,93,000	2,85,000	9,78,000	1,40,22,000
	Support Staff (Local in Rupees)													
_	Mr.B.Ajithkumar	Secretary	Field	70	52,290	36,60,300	1.95	0.95	2.90	67.10	1,01,966	49,676		35,08,659
11	Mrs.P.Prashanthi	Geo-technical Engineer	Home	6	4,35,750	26,14,500	0.14	0.00	0.14	5.86	61,005	0	61,005	25,53,495
	Mr.Santosh Biswa	Contract Management Specialist	Home	6	4,35,750	26,14,500	3.81	0.55	4.36	1.64	16,60,208	2,39,663		7,14,630
	Mr.A.Renu Kumar	Visa & Admin. Officer	Field	70	1,04,580	73,20,600	10.66	0.91	11.57	58.43	11,14,823	95,168		61,10,609
14	Mr.K.Manikandan	Accountant	Field	70	69,720	48,80,400	9.34	0.82	10.16	59.84	6,51,185	57,170	7,08,355	41,72,045
15	Mr.Pilominraj Raja (Replaced for Mr.R.Jagan)	Office Keeper-1	Field	70	26,145	18,30,150	10.76	0.95	11.71	58.29	2,81,320	24,838	3,06,158	15,23,992
16	Mr.Thiruvengadam Someswaran (Replaced for Mr.G.Arjun)	Office Keeper-2	Field	70	26,145	18,30,150	10.76	0.95	11.71	58.29	2,81,320	24,838	3,06,158	15,23,992
	Sub Total 1 in INR			488		7,23,24,600	60.35	6.94	67.29	420.71	94,72,491	11,51,097	1,06,23,588	6,17,01,012

Sl. No.	Name of the Staff	Position O	Office	Allocated Person Months / Quantity	Monthly Remuneratio n / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (December 2020)	Person Months/ Quantity Spent for current month (January 2021)	Total Person Months/ quantity spent upto current month (January 2021)	Balance Carried over	Amount Booked as on last Month (December 2020)	Amount Booked for this Invoice (January 2021)	Total Booked upto this Invoice	Balance Amount
	REIMBURSABLE EXPENSES													
1	TRANSPORTATION (REIMBURSABLE)													
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	11	1	12	158	4,29,166	45,697	4,74,863	80,25,137
2	DUTY TRAVEL TO SITE (REIMBURSABLE)													
2	Local Air Travel													
a	Professional Staff	Round Trip		10	20,000	2,00,000	1	1	2	8	20,000	20,000	40,000	1,60,000
b	Sub Professional Staff	Round Trip		80	10,000	8,00,000	3.50	0	3.50	76.50	35,000	0	35,000	7,65,000
3	OFFICE RENT (REIMBURSABLE)													
1	The Rent Cost include maintenance, cleaning, repairs etc.	Month		77	1,00,000	77,00,000	11.40	1	12.40	64.60	11,40,000	1,00,000	12,40,000	64,60,000
4	OFFICE SUPPLIES, UTILITIES & COMMUNICATION (REIMBURSABLE)													
1	Office supplies	No.		77	10,000	7,70,000	9.57	1	10.57	66.43	95,700	10,000	1,05,700	6,64,300
2	Drafting supplies	No.		77	6,000	4,62,000	9.57	1	10.57	66.43	57,420	6,000	63,420	3,98,580
3	Computer running costs	No.		77	5,000	3,85,000	9.57	1	10.57	66.43	47,850	5,000	52,850	3,32,150
4	Domestic communication	No.		77	15,000	11,55,000	9.57	1	10.57	66.43	1,43,550	15,000	1,58,550	9,96,450
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	4,95,600	0	4,95,600	4,400
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
	Office Interiors	No.		LS	10,00,000	10,00,000	LS	0	LS	0	10,00,000	0	10,00,000	0

SI. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneratio n / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (December 2020)	Person Months/ Quantity Spent for current month (January 2021)	Total Person Months/ quantity spent upto current month (January 2021)	Balance Carried over	Amount Booked as on last Month (December 2020)	Amount Booked for this Invoice (January 2021)	Total Booked upto this Invoice	Balance Amount
	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
	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	3,00,000	0	3,00,000	6,00,000
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
	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	0	0	0	0	0	0	0	30,00,000
6	PER DIEM (PER DAY) ALLOWANCE (REIMBURSABLE)			010	7.000	40.50.000	120		150		6.00.000		7.70.000	22.00.000
	International	No.		810	5,000	40,50,000	138	12	150	660	6,90,000	60,000	7,50,000	33,00,000
2	National National	No.		50	5,000	2,50,000	19	5	24	26	95,000	25,000	1,20,000	1,30,000
7	REPORTS & DOCUMENT PRINTING (REIMBURSABLE)													
1	Monthly Progress Report	No.		154	6,000	9,24,000	10	1	11	143	60,000	6,000	66,000	8,58,000
2	Design Report	No.		50	10,000	5,00,000	1	1	2	48	10,000	10,000	20,000	4,80,000
	SURVEYS (REIMBURSABLE)													
	Bathymetric Survey	No.		1	8,00,000	8,00,000	0	0	0	1	0	0	0	8,00,000
	Geo-Technical Survey	No.		50	15,000	7,50,000	0	0	0	50	0	0	0	7,50,000
	Water Sample Testing	No.		10	45,000	4,50,000	0	0	0	10	0	0	0	4,50,000
	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 2 in INR					3,86,96,000					71,54,252	3,02,697	74,56,949	3,12,39,051

SI. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneratio n / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (December 2020)	Person Months/ Quantity Spent for current month (January 2021)	Total Person Months/ quantity spent upto current month (January 2021)	Balance Carried over	Amount Booked as on last Month (December 2020)	Amount Booked for this Invoice (January 2021)	Total Booked upto this Invoice	Balance Amount
	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	0.00	0.00	0.00	3.00	0	0	0	34,680
2	Dr.Alok Kumar	Environmental Specialist	Field	15	12,750	1,91,250	1.86	0.09	1.95	13.05	23,715	1,148	24,863	1,66,388
3	Mr.Hyacinth Augusto Vaz	Organisational Expert	Field	9	10,950	98,550	0.00	0.00	0.00	9.00	0	0	0	98,550
	Sub Total 4 in USD			27		3,24,480	1.86	0.09	1.95	25.05	23,715	1,148	24,863	2,99,618
	(Key Staff) - Local in Rupees													
1	Mr.S.Siddappaswamy	Senior Civil Engineer	Field	72	8,00,000	5,76,00,000	6.18	0.95	7.13	64.87	49,43,200	7,60,000	57,03,200	5,18,96,800
2	Mr.Nagesh Chinnam	Senior Pipeline Engineer	Field	72	6,00,000	4,32,00,000	6.45	0.68	7.13	64.87	38,68,800	4,08,000	42,76,800	3,89,23,200
	Sub Total 3 in INR			144.000		10,08,00,000	12.63	1.63	14.26	129.74	88,12,000	11,68,000	99,80,000	9,08,20,000
	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	0.45	0.68	1.13	38.87	2,25,000	3,40,000	5,65,000	1,94,35,000
4	Mr.Om Prakash Singh (Replaced for Mr.GVK Mohan)	Electrical Engineer	Field	45	5,00,000	2,25,00,000	0.68	0.86	1.54	43.46	3,40,000	4,30,000	7,70,000	2,17,30,000
5	Ms.Sudha J. (Replaced for Mr.Vinod MK)	Structural Engineer	Field	28	6,25,000	1,75,00,000	1.68	0.73	2.41	25.59	10,50,000	4,56,250	15,06,250	1,59,93,750
6	Mrs.Kirti Alhad Sadarjoshi (Replaced for Mr.Kumar M)	Architect	Field	12	4,75,000	57,00,000	1.64	0.95	2.59	9.41	7,79,000	4,51,250	12,30,250	44,69,750
7	Mr.K.Senthil	Building Mechanical & Electrical Engineer	Field	16	5,50,000	88,00,000	0.00	0.23	0.23	15.77	0	1,26,500	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	8.81	0.86	9.67	20.33	44,04,500	4,30,000	48,34,500	1,01,65,500
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
	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	2.54	0.68	3.22	66.78	6,09,120	1,63,200	7,72,320	1,60,27,680
	Sub Total 4 in INR			405		14,67,00,000	15.80	4.99	20.79	384.21	74,07,620	23,97,200	98,04,820	13,68,95,180

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneratio n / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (December 2020)	Person Months/ Quantity Spent for current month (January 2021)	Total Person Months/ quantity spent upto current month (January 2021)	Balance Carried over	Amount Booked as on last Month (December 2020)	Amount Booked for this Invoice (January 2021)	Total Booked upto this Invoice	Balance Amount
	REIMBURSABLE EXPENSES													
1	TRANSPORTATION (REIMBURSABLE)													
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	7.06	2	9.06	190.94	3,29,175	86,500	4,15,675	95,84,335
2	Local Air travel													
	Professional Staff	Return Trip		50	20,000	10,00,000	3.50	1	4.50	45.50	70,000	20,000	90,000	9,10,000
	Sub Total 5 in INR					1,10,00,000					3,99,175	1,06,500	5,05,675	1,04,94,335
	NJS ENGINEERS INDIA PVT.	LTD.												
	Key Staff- International (in US Dollars)													
1	Dr.Ghulam Mustafa	Desalination Expert	Field	29.50	26,225	7,73,638	9.08	0.95	10.03	19.47	2,38,123	24,914	2,63,037	5,10,601
2	Dr.Uday G. Kelkar	Additional Key Expert - International	Field	2.50	26,225	65,563	0.92	0.09	1.01	1.49	24,127	2,360	26,489	39,074
3	Mr.Tharloak S.Bhatt	Contract Specialist (Distribution)	Field	8	22,700	1,81,600	0.00	0.00	0.00	8.00	0	0	0	1,81,600
	Non-Key Expert - 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	10.00	1.04	11.04	36.96	2,62,250	27,274	2,89,526	9,16,074

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneratio n / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (December 2020)	Person Months/ Quantity Spent for current month (January 2021)	Total Person Months/ quantity spent upto current month (January 2021)	Balance Carried over	Amount Booked as on last Month (December 2020)	Amount Booked for this Invoice (January 2021)	Total Booked upto this Invoice	Balance Amount
	Non-Key Expert [National]- in Rupees													
6	Mr.Rahul N Ramdhan (Replaced from Mr.Chandra Sekhar Reddy Yedla)	Pipeline Engineer 1	Field	60	4,30,000	2,58,00,000	2.90	0.91	3.81	56.19	12,47,000	3,91,300	16,38,300	2,41,61,700
7	Mr.P.Thangavel (Replaced from Mr.V.Tulasi Ram)	Pipeline Engineer - 2	Field	60	4,30,000	2,58,00,000	2.50	0.91	3.41	56.59	10,75,000	3,91,300	14,66,300	2,43,33,700
8	Mr.Saravanan P M	Hydraulic Modeller - 1	Field	8	4,30,000	34,40,000	0.09	0.00	0.09	7.91	38,700	0	38,700	34,01,300
9	Ms.V.Nandhini	Hydraulic Modeller - 2	Field	8	4,30,000	34,40,000	0.00	0.00	0.00	8.00	0	0	0	34,40,000
10	Mrs.R.Kanmani (Replaced from Dr.M.Rajsekhar Reddy)	Social Communication Specialist	Field	72	5,00,000	3,60,00,000	3.22	0.82	4.04	67.96	16,10,000	4,10,000	20,20,000	3,39,80,000
	Support Staff (in Rupees)													
11	Mr.G.Murali	CAD Operator-1	Field	30	1,00,000	30,00,000	8.58	0.91	9.49	20.51	8,58,000	91,000	9,49,000	20,51,000
12	Ms.J.Nithya	CAD Operator-2	Field	30	1,00,000	30,00,000	0.91	0.91	1.82	28.18	91,000	91,000	1,82,000	28,18,000
13	Mr.Vijay Kumar	CAD Operator-3	Field	30	1,00,000	30,00,000	0.05	0.95	1.00	29.00	5,000	95,000	1,00,000	29,00,000
14	Mr.Suresh Mohan Dwivedi	GIS Operator	Field	18	2,50,000	45,00,000	1.82	0.95	2.77	15.23	4,55,000	2,37,500	6,92,500	38,07,500
15	TBN	Site Inspector-1	Field	50	1,35,000	67,50,000	0.00	0.00	0.00	50.00	0	0	0	67,50,000
16	TBN	Site Inspector-2	Field	50	1,35,000	67,50,000	0.00	0.00	0.00	50.00	0	0	0	67,50,000
17	TBN	Site Inspector-3	Field	50	1,35,000	67,50,000	0.00	0.00	0.00	50.00	0	0	0	67,50,000
18	TBN	Site Inspector-4	Field	50	1,35,000	67,50,000	0.00	0.00	0.00	50.00	0	0	0	67,50,000
19	TBN	MIS Specialist	Field	50	2,60,000	1,30,00,000	0.00	0.00	0.00	50.00	0	0	0	1,30,00,000
	Sub Total 6 in INR			566		14,79,80,000	20.07	6.36	26.43	539.57	53,79,700	17,07,100	70,86,800	14,08,93,200
	REIMBURSABLE EXPENSES													
2	DUTY TRAVEL TO SITE (in US Dollar)													
1	International Air Travel	B		1.0	• • • •	***				10	_	_		20.000
	Professional Staff	Return Trip		10	3,000	30,000 30,000	0	0	0	10	0	0		30,000 30,000
	Sub Total 6 in USD					30,000					0	0	0	30,000

Sl. No.	Name of the Staff	Position	Office	Allocated Person Months / Quantity	Monthly Remuneratio n / Rate (at fixed rate)	Allocated Amount	Total Person months/ quantity Spent upto last Month (December 2020)	Person Months/ Quantity Spent for current month (January 2021)	Total Person Months/ quantity spent upto current month (January 2021)	Balance Carried over	Amount Booked as on last Month (December 2020)	Amount Booked for this Invoice (January 2021)	Total Booked upto this Invoice	Balance Amount
1	TRANSPORTATION													
	(Reimbursable) (in Indian													
	Rupees)													
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	4.40	1	5.40	78.60	1,66,291	44,580	2,10,871	39,89,129
2	DUTY TRAVEL TO SITE													
2	Local Air Travel													
b	Sub Professional Staff	Return Trip		20	10,000	2,00,000	3	1	4	16	14,292	0	14,292	1,85,708
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 7 in INR					1,16,00,000					2,40,583	44,580	2,85,163	1,13,14,837
	Grand Total in INR					52,91,00,600					3,88,65,821	68.77.174	4,57,42,995	48,33,57,615
	Grand Total in USD					89,39,965					9,64,134			78,42,377
	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	4,57,42,995	in INR			57,55,55,630	INR			% Financi	ial Progress	7.95%	in INR	
	PROGRESS till the end of January 2021	10,97,588		Total j	project cost	94,11,963					l of January		in USD	
	ACTUAL FINANCIAL PROGRESS (Based on Bills	1,54,72,083	in INR							% Actual	Financial ill the end of	2.69%	in INR	
	Passed till the end of January 2021)	4,09,354								January 2		4.35%	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

STATEMENT OF TIME

MONTH : December 2020

Sl.	Name of the Staff	Position												T	IME	AS	S SI	PEN	NT (ON	TH	IE .	JOI	3										Total No. of Days	Man
No.			1	2	3	4	5	6	7	8	9 1	10 1	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	5 2	7 28	8 29	30) 31	•	Month
	SMEC INTERNATIONAL PTY LTD																																		
	Key Expert - International Expert																																		
1	Dr.Pararajasegram Dharmabalan	Project Manager	0	0	0	1	1	1	1	1	0	0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	1	0	1	1 1	1	C	0	17	0.77
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	C	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	C	0	0	0.00
4	Mr.Guilbert Z Gonzales (Replaced for Mr.Sergio de Bastos Vilar Magalhaes Paulo)	Electrical Engineer (Desal)	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	(0 0	0	С	0	7	0.32
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	C	0	0	0.00
6	Mr.Abdel Toukan (Replaced for Mr.Roderick Mackenzie)	Contract Specialist (Desal)	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	0	1	1 1	. 1	C	0	19	0.86
	Non-Key Expert - International Expert																																		
7	II K eniacea Tar Mir Manikanaan	Monitoring and Control Expert (Desal)	0	0	0	1	1	1	1	1	0	0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	A	0	1	1 1	. 1	0	0	16	0.73

Sl.	Name of the Staff	Position											Т	IME	E AS	S S	PEN	NT	ON	TE	ΙE .	JOI	3										Total No.	Man
No.			1	2	3	4	5	6 7	7 8	3 9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Worked	Month
	SMEC INDIA PRIVATE LIMITED																																	
	Non-Key Expert - International Expert																																	
1	Dr.D.Elanchezian	Civil and Structure Engineer (Desal)	0	0	0	1	1	1 1	1		0 0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	1	0	1	1	A	0	0	15	0.68
2	Mr.Ashish Gosain	Monitoring and Control Expert (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
3	Mr.Ganesh Venkataraman (Replaced for Mr.J.Shanmuganathan)	Specification Specialist (Desal)	0	0	0	1	1 4	A 1	. 1		0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	A	A	1	0	0	15	0.68
4	Mr.Hemant Chadha	Financial Expert	0	0	0	0	0	0 0) (0	1	1	1	0	0	0	0	1	1	0	0	1	0	0	1	0	1	0	0	0	0	8	0.36
5	Mr.Santhosh Kumar	Commissioning 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.Rajesh Mishra	Social Communication 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	0.00
	Non-Key Expert - Local Expert																																	
7	Mr.Ramesh Senthil	Civil Engineer	1	0	0	1	1	1 1	1 1	(0	A	A	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	19	0.86
8	Mr.N.Srinivasulu Reddy	Construction Planner / Cost Estimator	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
9	Mr.R.Muthurajan (Replaced for Mr.K.C.Vinod Chandra)	Quantity Surveyor - 1	1	0	0	1	1	1 1	1 1		0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	21	0.95

Sl.	Name of the Staff	Position													TI	ME	AS	SSI	PEN	IT (ON	TI	ΗE	JO]	В										Total No. of Days	Man
No.			1	2	2 3	3 4	1 5	6	7	8	9) 10	0 1	1 1	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Worked	Month
	Support Staff																																			
10	Mr.B.Ajithkumar	Secretary	1	C) (0 1	1	1	1	1	C	0 0) 1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	21	0.95
11	Mrs.P.Prashanthi	Geo-technical Engineer	0	C) (0	0	0	0	0	C	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
12	Mr.Santosh Biswa	Contract Management Specialist	0	C) () () 1	1	1	1	C	0)]	1	1	1	0	0	0	0	1	1	1	1	A	0	0	A	0	1	0	0	0	0	12	0.55
13	Mr.A.Renu Kumar	Visa & Admin. Officer	1	C) () 1	1	1	1	1	C	0) 1	1	1	A	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	20	0.91
14	Mr.K.Manikandan	Accountant	1	C) () A	1	1	1	1	C	0	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	A	A	1	0	0	18	0.82
15	Mr.Pilominraj Raja (Replaced for Mr.R.Jagan)	Office Keeper-1	1	C) () 1	1	1	1	1	C	0 0) 1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	21	0.95
16	Mr.Thiruvengadam Someswaran (Replaced for Mr.G.Arjun)	Office Keeper-2	1	C) (0 1	1	1	1	1	C	0) 1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	21	0.95

Sl.	Name of the Staff	Position												T	IME	E AS	S S	PEI	NT	ON	TH	IE .	JOI	В										Total No. of Days	Man
No.			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	Worked	Month
	TATA CONSULTING																																		
	ENGINEERS LTD.			L	┸		┸	L																						_					
	Non-Key Expert -																																		
	International Expert			L	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	0.00
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	1	0	0	0	0	0	1	0	0	0	2	0.09
3	Mr.Hyacinth Augusto Vaz	Organisational Expert	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	0.00
	Key Expert - Local Expert																																		
1	Mr.S.Siddappaswamy	Senior Civil Engineer	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	0	0	21	0.95
2	Mr.Nagesh Chinnam	Senior Pipeline Engineer	1	0	0) 1	1	1	1	1	0	0	A	A	A	0	0	0	0	1	1	1	1	1	0	0	A	1	1	1	1	0	0	15	0.68
	Non-Key Expert - Local Expert				Ī																														
3	Mr.Mayur Gupta (Replaced for Mr.Surajit Debnath)	Mechanical Engineer	1	0	0) 1	1	1	1	1	0	0	1	1	1	1	1	0	0	A	A	A	A	A	0	0	A	1	1	1	1	0	0	15	0.68
4	Mr.Om Prakash Singh (Replaced for Mr.GVK Mohan)	Electrical Engineer	1	0	0) 1	A	A	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	19	0.86
5	Ms.Sudha J. (Replaced for Mr.Vinod MK)	Structural Engineer	1	0	0) 1	1	1	1	1	0	0	A	A	A	0	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	16	0.73
6	Mrs.Kirti Alhad Sadarjoshi (Replaced for Mr.Kumar M)	Architect	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	0	0	21	0.95
7	Mr.K Senthil	Building Mechanical & Electrical Engineer				0							1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	5	0.23
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	0	0	0.00
9	Mr.S.M.Karthikaeswaran	Environmental Specialist	1	0	0) 1	1	1	1	1	0	0	1	1	A	1	1	0	0	1	1	1	1	1	0	0	1	1	A	1	1	0	0	19	0.86
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	0	0.00
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	0	0.00
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	0	0.00
13	Mr.V.S.Rajasekar	Quantity Surveyor-2	1	0	0) 1	1	1	1	1	0	0	1	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	1	0	0	15	0.68

Sl.	Name of the Staff	Position												T	IME	C AS	S S	PEI	NT	ON	TI	HE .	JO	В										Total No. of Days	Man
No.			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	7 28	29	30	31	Worked	Month
	NJS ENGINEERS INDIA PVT. LTD.																																		
	Key Expert - International Expert																																		
1	Dr.Ghulam Mustafa	Desalination Expert	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	0	0	21	0.95
2	Dr.Uday G.Kelkar	Additional Key Expert - International	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0.09
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	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	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	0	0.00
	Non-Key Expert - Local Expert																																		
6	Mr.Rahul N Ramdhan (Replaced for Mr.Chandra Sekhar Reddy Yedla)	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	0	0	0	20	0.91
7	Mr.P.Thangavel (Replaced for Mr.V.Tulasi Ram)	Pipeline Engineer - 2	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	0	1	1	0	0	20	0.91
8	Mr.Saravanan P M	Hydraulic Modeller-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	0.00
9		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	0	0.00
10	\ 1	Social Communication Specialist	1	0	0	1	1	A	A .	A	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	18	0.82

Sl.	Name of the Staff	Position												T	IME	AS	S Sl	PEN	T	ON	TH	IE .	JO	В										Total No. of Days	Man
No.	Traine of the starr	Toskion	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	Worked	Month
	Support Staff																																		
11	Mr.G.Murali	CAD Operator-1	1	0	0	1	1	1	1	1	0	0	1	1	A	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	20	0.91
12	Ms.J.Nithya	CAD Operator-2	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	0	0	20	0.91
13	Mr.Vijay Kumar	CAD Operator-3	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	0	0	21	0.95
14	Mr.Suresh Mohan Dwivedi	GIS Operator	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	0	0	21	0.95
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	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	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	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	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	0.00
										_																				7	Tota	al	0	561	25.45

Holiday : Saturday, Sunday

Government Public Holiday / CMWSSB Holiday: 01.01.201 New Year Day; 14.01.2021 Pongal;

15.01.2021 Thiruvalluvar Day; 26.01.2021 Republic Day Holiday

A Absent

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

	AININEAURE / 31	ATT DETECTIVIENT SCI	TEDULE FOR ALL PACKAL	JLJ (I L/	*** ***	TEXT IVI	0111113	<u>, </u>	
SI.				Total	Total Man	Desi	•	der Phase	- Deployment nt
No.	Entity	Position	Name [Replaced / (Original)]	Man months	months for CP-1	Feb-21	Mar-21	Apr-21	Total Man-months requirement in Design / Tender Phase
		COM	MON STAFF FOR ALL PA	CKAGE					
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	ļ	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 SCHEDU	JLE FOR CP-1 (PLAN FOR	NEXT N	MONTHS	<u>5)</u>			
7	NJS Engineers India Pvt. Ltd.	Desalination Expert	Dr.Ghulam Mustafa		29.50	——	3		3
8	NJS Engineers India Pvt. Ltd.	Additional Key Expert - International	Dr.Uday G. Kelkar	32	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 (Sergio de Bastos Vilar Magalhaes Paulo)	25	25		2.50		2.50
11	SMEC International Pty Ltd.	Water Supply Engineer	Mr.Shane Farquharson	23	2		0.50		0.50

SI.				Total	Total Man	Desi	•	der Phase -	- Deployment nt
No.	Entity	Position	Name [Replaced / (Original)]	Man months	months for CP-1	Feb-21	Mar-21	Apr-21	Total Man-months requirement in Design / Tender Phase
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		0.60		0.60
15	SMEC India Pvt Ltd.	Monitoring and Control Expert (Desal)	Mr.Afzal Abdul Latheef (Manikandan Ganesh Shoranur)	11	11		1.50		1.50
16	SMEC India Pvt Ltd.	Specification Specialist	Mr.Ganesh Venkataraman (Replaced for Mr.J.Shanmuganathan)	4	4	ļ	1	+	1
17	SMEC India Pvt Ltd.	Financial Expert	Mr.Hemant Chadha	3	3	 	1	+	1
18	SMEC India Pvt Ltd.	IOUantity 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
21	Tata Consulting Engineers Ltd.	Structural Engineer	Ms.Sudha J. (Replaced for Vinod M.K.)	28	10				0

SI.				Total	Total Man	Desi	•	der Phase equireme	- Deployment nt
No.	Entity	Position	Name [Replaced / (Original)]	Man months	months	Feb-21	Mar-21	Apr-21	Total Man-months requirement in Design / Tender Phase
22	Tata Consulting Engineers Ltd.	Architect	Mrs.Kirti Alhad Sadarjoshi (Replaced for Kumar.M)	12	6	1		0.50	1.50
23	Tata Consulting Engineers Ltd.	Building Mechanical and Electrial	Mr.K.Senthil	16	6	0.50		0.50	1
		OTHER S	UPPORT COMMON STAFF (ALI	L PACKAG	ES)				
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	0.50	0.50	0.50	1.50
26	SMEC India Pvt Ltd.	Geotechnical Engineer	Mrs.P.Prashanthi	6	6	 	2	+	2
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.Pilominraj Raja (Replaced for Mr.R.Jagan)	70	70		3		3
30	SMEC India Pvt Ltd.	Office Keeper-2	Mr.Thiruvengadam Someswaran (Replaced for Mr.G.Arjun)	70	70		3		3

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

	<u></u>					D	esign Pha	ase - Deplo	yment
					Total		Red	quirement	
SI. No.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Man months for CP-2	Feb-21	Mar-21	Apr-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 Vinod Chandra K.C)	50	15	-	_ 1 _		1
7	Tata Consulting Engineers Ltd.	Mechanical Engineer	Mr.Mayur Gupta (Replaced for Surajit Debnath)	40	9		2.50		2.50
8	Tata Consulting Engineers Ltd.	Electrical Engineer	Mr.Om Prakash Singh (Replaced for G.V.K.Mohan)	45	10	 -	2		2
9	Tata Consulting Engineers Ltd.	Structural Engineer	Ms.Sudha J. (Replaced for Vinod M.K.)	28	6		2	+	2
10	Tata Consulting Engineers Ltd.	Architect	Mrs.Kirti Alhad Sadarjoshi (Replaced for Kumar.M)	12	6	1		0.50	1.50
11	Tata Consulting Engineers Ltd.	Building Mechanical and Electrial	Mr.K.Senthil	16	10		0.50	0.50	1

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

SI.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-3	Design / Tender Support Phase - Deployment Requirement				
No.						Feb-21	Mar-21	Apr-21	Total Man-months requirement in Design Phase	
	KEY STAFF									
1	SMEC International Pty Ltd.	Pipeline Engineer	Mr.John Goullee	70	51		ļ	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)

		Entity Position Name [Replaced / Man (Original)] months			Design Phase - Deployment Requirement					
SI. No.	l Fntitv				Total Man months for CP-4	Feb-21	Mar-21	Apr-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		2.50		2.50	
	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	Mr.Rahul N Ramdhan (Replaced for Chandra Shekhar Reddy Yedla)	60	60				0	
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		1	-+	1	
8	NJS Engineers India Pvt. Ltd.	Hydraulic Modeler-2	Mrs.V.Nandhini	8	8		-	1	1	

	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-4	Design Phase - Deployment Requirement				
SI. No.						Feb-21	Mar-21	Apr-21	Total Man- months requirement in Design Phase	
9	Tata Consulting Engineers Ltd.	Mechanical Engineer	Mr.Mayur Gupta (Replaced for Surajit Debnath)	40	16	+	0.50		0.50	
10	Tata Consulting Engineers Ltd.	Electrical Engineer	Mr.Om Prakash Singh (Replaced for G.V.K.Mohan)	45	13	+	0.85		0.85	
11	Tata Consulting Engineers Ltd.	Structural Engineer	Ms.Sudha J. (Replaced for 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)

_	STAFF DEFECTIVIENT SCHEDOLE FOR CF-5 (FLAN FOR NEXT MONTHS)									
							Design / Tender Phase (Technical Assistance by PMC) - Deployment Requirement			
	SI. No.	Entity	Position	Name [Replaced / (Original)]	Total Man months	Total Man months for CP-5	Feb-21	Mar-21	Apr-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 (G.V.K.Mohan)	72	8		0.15		0.15
	2	Tata Consulting Engineers Ltd.	Safety and Health Expert-1	Mr.Najas Thattakatte Abdulkareem	60	8				0
	3	SMEC India Pvt Ltd.	Quantity Surveyor 1	Mr.R.Muthurajan (Vinod Chandra K.C)	50	5				0

Annexure 8 PMC Organisation Chart

