

							WC	ORK:	SCH	EDU	LE -	CP1	L																											
Proj	ect Name:	Consultancy for "Design, Preparation of Bid Documents & I Construction Management & Su																												Road	, Sou	ıth o	f Che	enna	i, Ta	mil I	Nadı	u an	d	
,		, and the second		•													ect D																							
Activity	Task	Activities and tasks	Duration in Months 1 2	3 4 5	6 7	8 9 1	10 11 12	2 13 14	15 16	17 18	19 20	0 21 2	22 23	24 2	25 26	27 2	8 29	30 31	32 3	3 34	35 36	37 3	8 39	40 41	42 4	13 44	45 4	6 47	48 49	50 5	51 52	53 54	1 55 5	56 57	58 5	9 60	61 62	2 63	64 6	66
	16.5	Measurements, Claims and Financial Control	30														+			-				• -	+-	-		-		++										
	Task 17	Phase-II: Activities During Trial Run and Commissioning	8																												+				H					
	17.1	Pre Commissioning Activities	2																																4	-				
	17.2	Commissioning Activities	6																													+			-	-				
		Monthly Progress Report with Quality & Quantity Control Details	Monthly									•	1		•	-+							•	-		•		+ -	-		•	-		-	-	-	-	•		
		Material / Equipment Testing & Inspection Report	When Ever									+	-		-		++	-	-	-	-		+-	-	-	-		++	-	-	-									
4.5.7	Task 18	PMC Services During Post-Construction	2																																					
	18.1	As-Built Drawings	2																																			-		
	18.2	Submission of Project Completion Report [PCR]	2																																			+		
		Implementation 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. 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-Application meeting held at CMWSSB and Webex Online for CP1 for PQ documents on 29.10.2020. CMWSSB has forwarded the reply to pre-Application for PQ documents to JICA on 05.11.2020 for concurrence.
- 5. JICA has given concurrence on the reply to pre-bid queries for PQ application for CP1 to CMWSSB on 18th November 2020
- 6. CMWSSB has extended the tender due date for recieving the application of PQ documents for CP1 from 01.12.2020 to 16.12.2020 (published in the website on 26th November 2020)

Legends	
	Main Activities [Full Time]
←	Main Activities [Intermittent Time]
-	Tasks Under Main Activities [Full Time]
←	Tasks Under Main Activities [Intermittent Time]
\longleftarrow	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 **CMWSSB** 1 Task 9 Submission of PQ Evaluation Report End of CP2 Float RFP to Float RFQ 1 Approval by Task 10 | Submission of Bid Evaluation Report - Technical CMWSSB / 1 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

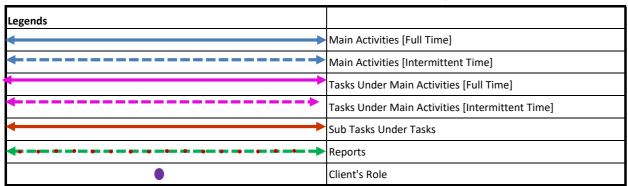
WORK SCHEDULE - CP2

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.

		Management & St	apervision i	101 111	СПОР	, , , , , , , , , , , , , , , , , , ,		.u.c.o.		aa		ouuce		c. co			.pc	co			aa a	,	0	uu (011101	•									
																	P	roject	t Dura	tion i	n Mor	nths															
Activity	Task	Activities and tasks	Duration in Months	1112	2 3 4	5 6 7	8 9	9 10 1	11 12 :	13 14 1	5 16 17	7 18 19	20 21	1 22 2	23 24 2	25 26 27	7 28 29	9 30 31	32 33	34 35	36 37	38 39	40 4	1 42	13 44	45 46	47 48	3 49 5	50 51 5	2 53 5	4 55 56	57 58	59 60	61 62	63 64 (65 66 6	68 69 70
	14.2	Commissioning Activities	1																										4								
		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.

															F	Project	Durat	ion in N	onths													
Activity	Task	Activities and tasks	Duration in Months	1 2 3	4 5 6 7	8 9 10 11	12 13 14 15 16	17 18 19 2	0 21 22	23 24	25 26 2	27 28 29	9 30 31	32 33	34 35 3	36 37 38	8 39 40	41 42 43	44 45 4	46 47 4	49 50	51 52	53 54 5	55 56 53	7 58 59	60 6	1 62 63 64	65 66 67 6	68 69 70 7	1 72 73 74	75 76 7	7 78 79 8
					YEAR	SSB sent the		YEAR 2021				,	YEAR 20	22				YEAR 20	23				YEAR 2	2024				YEAR 2025	5		YEAR 20	026
		Work Plan			RFP d	ocument to									(Constru	iction a	ınd Comr	nissioni	ing (51	. Month	is)							Defect	Liability Pe	riod (17	2 Months
		Balance Team Mobilization by Commencement Date	1	+				*	Start	t of CP	3																					
4.5.14		Construction Supervision for CP3	51																													
	Task 1	Phase-I: Pre-construction activities	2					**																								
	1.1	Review of DPR for CP3	2					+																				f CP3				
	1.2	Reconnaissance Survey and Understand the Scheme Proposals for CP3	2					*																				End of				
		Assisting in Land Acquisition, Authority Permissions for the Facilities for CP3	7					-			•																					
		Developing the Reporting Requirements for CP3	2							4	>																					
		Review of Good for Construction [GFC] Drawings, QA & QC Plans for CP3	7					4			•																					
	Task 2	Phase-II: Activities During Construction	46																									→				
	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						H-			• + + •	+			╺┿┿	+		-++		- - -	++-		- - -	++-	+		→				
	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																									*				
	1	Monthly Progress Report with Quality & Quantity Control Details	51					4	-		-	+-	-			-					++			-	+-							
		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																													
	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.

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

WORK SCHEDULE - CP4 Project Name: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bid Documents & Evaluation of Honoragement 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** Months YEAR 2021 YEAR 2022 YEAR 2023 YEAR 2024 YEAR 2025 YEAR 202 YEAR 2020 YEAR 2026 Bid process manageme **Design and Bid document preparation** and selection of **Construction and Commissioning Defect Liability Period Work Plan** (28 Months) (38 Months) (12 Months) contractor (9 Months) Balance Team Mobilization by Commencement Date 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 Task 2 Review and Analysis of Data 2 Task 3 Conducting Surveys and Investigations 3 Detailed Design of the Improvement of the Existing Water 18 Task 4 Distribution System CP4 Upgradation of Existing network in GIS 12 4.1 Creation of District Metered Areas (DMAs) 4.2 4.3 8 Hydraulic Design and Modelling of distribution system Plan to Improve the Existing Network 4.5 Design and Improvement of Storage reservoirs 4.6 Design and providing metered service connections 4.7 Design the SCADA system Approval 2 Task 5 Preparation and Submission of Draft Detailed Project Report CMWSSB Preparation and Submission of Final Detailed Project 5.1 Report 2 Task 6 Assisting in procurement of Software to CMWSSB 3 Task 7 Preparation of Technical Specifications 2 **BoQ** Preparation Task 8 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 CMWSSB to Float RFP 1 Task 12 | Submission of Final Bid Evaluation Report - Technical Approval by CMWSSB / JICA Task 13 | Submission of Bid Evaluation Report - Financial Evaluation 1

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.

							Desam	iation	r iaiit e	and its	1100	uct vv	ater C	Cirvey	ance Fi	pellile	- 11011	ii tiile i	iant							••																	
																					Proje	ect Du	ratio	n in Mo	nths																		
Activity	Task	Activities and tasks	Duration in Months	n 1	2 3	4 5	6 7 8	9 10	11 12 1	3 14 15	16 17	18 19 2	20 21	22 23 24	25 26	27 28	29 30	31 32 3	33 34 3.	3 36 3	38 3	39 40 4:	1 42 4	3 44 45	46 47	49 5	51 52	53 54	55 56 5	7 58 5	69 60 61	1 62 6	3 64 65	5 66 6	7 68 69	70 71	72 73 7	4 75 7	76 77 78	79 80	81 82	83 84	85 86 87
4.5.15		Construction Supervision for CP4	38																		+																	-					
	Task 20	Phase-I: Pre-construction activities	2																		+	+																		End	of CP4	4	
	20.1	Review of QAP & Construction Methodologies for Various Works	2																		+	•																					
	Task 21	Phase-II: Activities During Construction	34																			+				++			++	++	++				++-	HH							
	21.1	Construction Supervision and Quality Control	34																			4								\blacksquare							-						
	21.2	Inspection of Material	34																			₩.			-++				-++	┽┥.			++	┿┿.			-+						
	21.3	Progress Monitoring, Record keeping and Reporting	34																			4	+-			•			-++	++				++	+-								
	21.4	Contract Management	34																		П	4				. — —			-++	++		-		++	+								
	21.5	Measurements, Claims and Financial Control	34																			4	+-			. — — .				++.				++	+								
	Task 22	Phase-II: Activities During Trial Run and Commissioning	2			\top		Ш	\top				\top			\Box	\Box		\top	\top	T		\top		\top						\top	\top		\top	\top								
		Pre Commissioning Activities	1													П					П																4						
	22.2	Commissioning Activities	1																																			**					
		Monthly Progress Report with Quality & Quantity Control Details	38																		4	-			•	-			•	-	+	++	++-	-	-								
		Material / Equipment Testing & Inspection Report	38																													П											
4.5.7	Task 23	Defect Liability Period	12																																								
	23.1	As-Built Drawings	1																																			44	•				
	23.2	Submission of Project Completion Report [PCR]	3																																								
	Task 24	Regular Inspection During Defect Liability Period	12																																			1			-+-	-	
		Implementation of EIA and EoMP	73		-			-++												++				-+-								++	-										

								W	ORK	SCH	EDU	JLE	- CP	5																															
>																			Proje	ct Du	ration	in M	onth	s - 30	Mon	ths Inv	olver	ment																	
ĭ	Task	Activities and tasks	Duration																																										
Act			in	1 2 3	4 5	6 7	8 9 10	11 12	13 14	15 16	17 18	19 20	0 21 22	2 23 2 4	4 25 26	6 27 28	8 29 30	0 31 3	2 33 3	4 35 3 6	37 38	39 40	41 42	2 43 44	45 46	47 48	49 50	51 52	53 54	55 56	57 58 5	60 61	1 62 63	3 64 65	66 67	68 69	70 71	1 72 73	74 75	5 76 7	7 78 79	80 81	82 83	84 85 8	5 87
			Months																																										
4.5.16		Installation of External Power Transmission Line CP5	30									1														ţ																			
	Task 1	Technical Coordination	30									₩.				++-				++						-																			
	Task 2	Monthly Progress Report	30									4- -								• •						-																			
		Implementation of EIA and EoMP	30									<u>†</u>			++	+			++	++-	-		-+	++-																					

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