

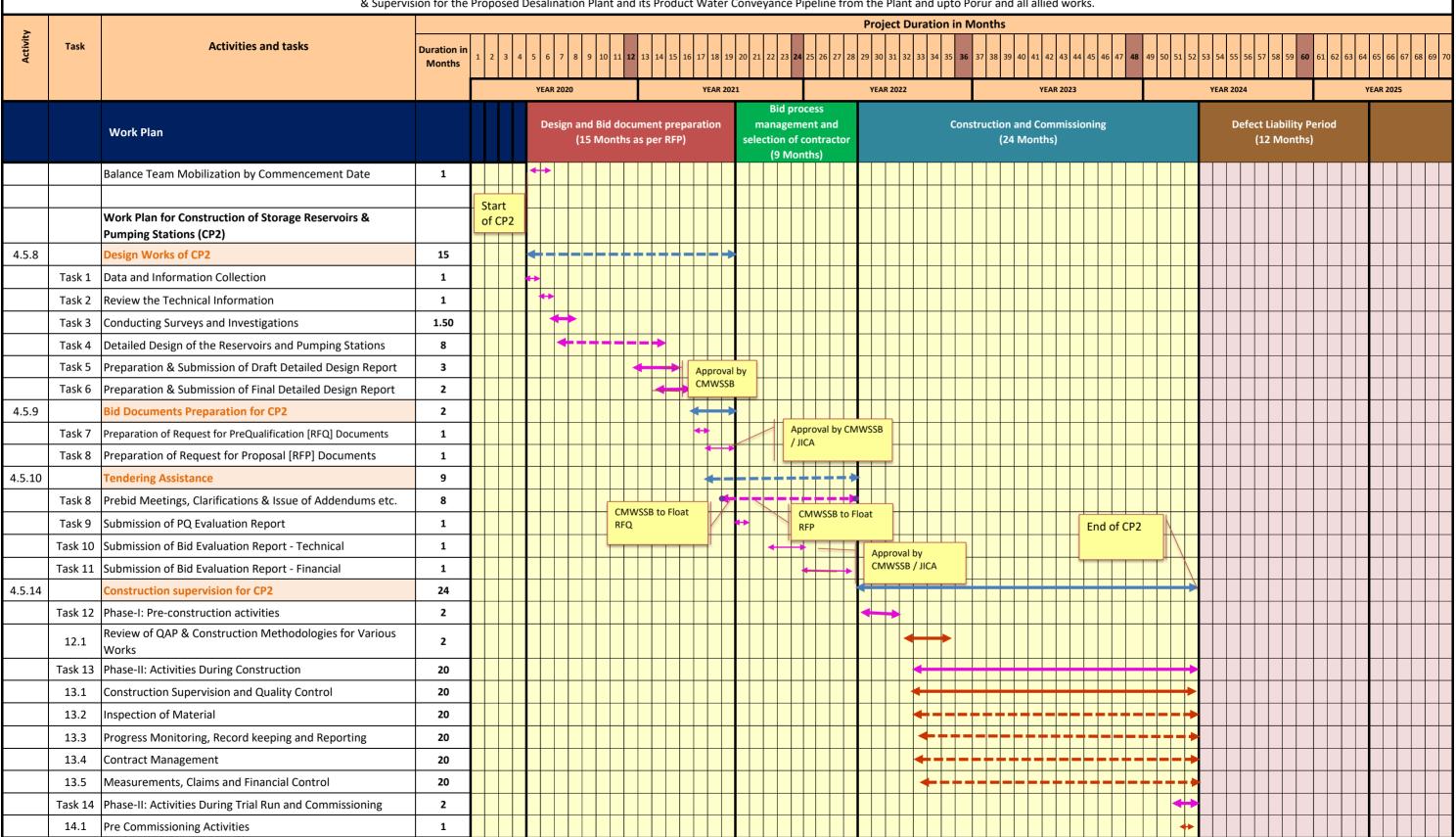
Project Name: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction

Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works.

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Activity	Task	Activities and tasks	Duration in Months	I 1 I 2	. 3	4 5	6 7	8 9	10 11	l <b>12</b> 1	.3 14	15 16	17 18	3 19 20	21 22	2 23 2	24 25	26 27	28 29	9 30	31 32	33 3	4 35 :	<b>36</b> 37	38 39	40 4	1 42	43 44	45 46	5 47 <b>4</b>	<b>18</b> 49	50 51	. 52 5	3 54	55 56	57 58	59 60	61 62	2 63 64	65 66
	16.5	Measurements, Claims and Financial Control	30																•	++	-					++	+-			-+			-			>				
	Task 17	Phase-II: Activities During Trial Run and Commissioning	8																														-				<b>&gt;</b>			
	17.1	Pre Commissioning Activities	2																																	+	<b>→</b>			
	17.2	Commissioning Activities	6																															-			<b>&gt;</b>			
		Monthly Progress Report with Quality & Quantity Control Details	Monthly										•	-	-		-				-		-	-	-		-		•						-	-	•			
		Material / Equipment Testing & Inspection Report	When Ever												-								++		-			-	-				++	+-	-					
4.5.7	Task 18	PMC Services During Post-Construction	2																																	<b>+</b>				
	18.1	As-Built Drawings	2																																	<b>†</b>				
	18.2	Submission of Project Completion Report [PCR]	2																																	<b>‡</b>				
		Implementation of EIA and EoMP		+-					-		-	- + -		-		-	++	-					++				++	-					++	-						

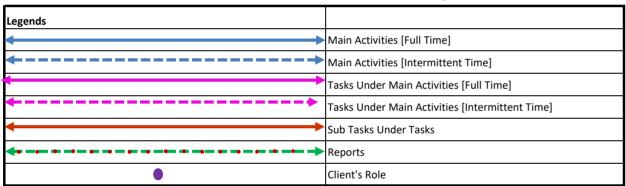
Legends	
<del></del>	Main Activities [Full Time]
<b>←</b>	Main Activities [Intermittent Time]
<del></del>	Tasks Under Main Activities [Full Time]
<b>—————</b>	Tasks Under Main Activities [Intermittent Time]
<del></del>	Sub Tasks Under Tasks
<del></del>	Reports
•	Client's Role

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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Activity	Task	Activities and tasks	Duration ir Months	n 1	2 3	4 5	6 7	8	9 10	11 12	2 13 1	14 15	16 1	7 18 1	.9 20	21 22	2 23 2	4 25 2	26 27	28 2	9 30	31 32	33 3	34 35	<b>36</b> 3	37 38	39 4	0 41	42 43	44 4	5 46	47 48	49 5	0 51	52 5	3 54	55 50	5 57 !	58 59	60	61 63	2 63	64 6	65 66	67	68 69	70
	14.2	Commissioning Activities	1																																<b>‡</b>												
		Monthly Progress Report with Quality & Quantity Control Details	24																		-	•		•			+	-		-	•	-	-														
		Material / Equipment Testing & Inspection Report	24																	•			FF	-		+		++	+-	-			++	-	•												
4.5.15	Task 15	Defect Liability Period	12																																		_				-		•				
	15.1	As-Built Drawings	1			Ш												Ш																					<b>*</b>								
	15.2	Submission of Project Completion Report [PCR]	3															Ш																					+		<b>→</b>						
	Task 16	Regular Inspection During Defect Liability Period	12																																				+-		-	-	•				
		Implementation of EIA and EoMP	48						+	-		-		+-	-			-		-+	+-	-					-	-				-	++				-	-									



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
Activity	Task	Activities and tasks	Duration in Months	- 1 1 1 2 1 3 1 4 1 5 1 6 1 / 1 X 1 9 1 101 11 <b>12 1</b> 1 3 1 1 2	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76
				YEAR 2020	YEAR 2021         YEAR 2022         YEAR 2023         YEAR 2024         YEAR 2025         YEAR 2026           Defect Liability Period (12)         12
		Work Plan			Construction and Commissioning (51 Months)  Months)
		Balance Team Mobilization by Commencement Date	1		Start of CP3  End of CP3
4.5.14		Construction Supervision for CP3	51		
	Task 1	Phase-I: Pre-construction activities	2		
	1.1	Review of DPR for CP3	2		
	1.2	Reconnaissance Survey and Understand the Scheme Proposals for CP3	2		
	1.3	Assisting in Land Acquisition, Authority Permissions for the Facilities for CP3	7		<del></del>
	1.4	Developing the Reporting Requirements for CP3	2		
	1.5	Review of Good for Construction [GFC] Drawings, QA & QC Plans for CP3	7		
	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		<u>┃                                    </u>
	2.4	Contract Management	46		<u>┃  │  │  │  │  │  │  │  │  │  │  │  │  │</u>
	2.5	Measurements, Claims and Financial Control	46		<u>┃                                    </u>
	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		<del>┖╡</del> ┽┥┥┵┷┾┾╃╃╃╃╃╃╃┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┾┼┾┾┾┾┾┼ <b>╒</b>
		Material / Equipment Testing & Inspection Report	51		<del>┇╡</del> ┦═══╒╒┾┾┼╃╃═══╒┾┾┼┼╃╃══╒╒┾┾┼┼┼╃╃╃╃╃╃╃╃╃╃╃
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		<del></del>

Legends	
<del></del>	Main Activities [Full Time]
<b>←</b>	Main Activities [Intermittent Time]
	Tasks Under Main Activities [Full Time]
<b></b>	Tasks Under Main Activities [Intermittent Time]
<del></del>	Sub Tasks Under Tasks
<b></b>	Reports
•	Client's Role

#### **WORK SCHEDULE - CP4** Project Name: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of Hold Documents & Evaluation of Bids for the Proposed 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 Activities and tasks** Defect Liability Period and selection of Construction and Commissioning **Design and Bid document preparation Work Plan** (28 Months) (38 Months) (12 Months) contractor (9 Months) Balance Team Mobilization by Commencement Date 1 Start of CP4 Work Plan for Improvement of Existing Water Distribution System (CP4) 4.5.11 Design Works of CP4 27 2 Task 1 Reconnaissance Survey, Data and Information Collection Review and Analysis of Data 2 Task 2 Task 3 Conducting Surveys and Investigations 3 Detailed Design of the Improvement of the Existing Water Task 4 18 Distribution System CP4 12 Upgradation of Existing network in GIS 4.1 4.2 Creation of District Metered Areas (DMAs) 8 8 4.3 Hydraulic Design and Modelling of distribution system 4.4 Plan to Improve the Existing Network 6 Design and Improvement of Storage reservoirs 4.6 Design and providing metered service connections Design the SCADA system 4.7 Approval Preparation and Submission of Draft Detailed Project Report Task 5 CMWSSB Preparation and Submission of Final Detailed Project 5.1 Report Task 6 Assisting in procurement of Software to CMWSSB 2 Preparation of Technical Specifications 3 Task 7 Task 8 **BoQ** Preparation 2 Task 9 Bid Documents Preparation for CP4 2 4.5.13 endering Assistance 9 Task 10 Prebid Meetings, Clarifications & Issue of Addendums etc. 8 Task 11 Submission of Draft Bid Evaluation Report 1 Task 12 Submission of Final Bid Evaluation Report - Technical 1 Approval by CMWSSB / JICA Task 13 | Submission of Bid Evaluation Report - Financial Evaluation 1

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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Activity	Task	Activities and tasks	Duration in Months	1 2	3 4	5 6	7 8 9	10 11	12 13 1	4 15 16	6 17 18	8 19 20	21 22	23 24	25 26 2	7 28 2	29 30 3	31 32	33 34 35	5 <b>36</b> 3	37 38 3	39 40	41 42 43	3 44 45	46 47 48	49 50	51 52	53 54	55 56 5	7 58 59	9 60 61	62 63	64 65	5 66 67	7 68 69	70 71	72 73 7	74 75	76 77	78 79 8	80 81 8	2 83 84	85 86 87
4.5.15		Construction Supervision for CP4	38																		+									+		H	H	+	+		++	-			417		
	Task 20	Phase-I: Pre-construction activities	2																		-	•																	V	Enc	d of CF	P4	
	20.1	Review of QAP & Construction Methodologies for Various Works	2																		+	•								П					П								
	Task 21	Phase-II: Activities During Construction	34																			4								₩		H	+	+	+		-						
	21.1	Construction Supervision and Quality Control	34																			4							$\downarrow \downarrow$	#			$\bot$	#	#		-						
	21.2		34														$\dagger$					4			-+-					44-			-+-	++-	4-1-								
	21.3	Progress Monitoring, Record keeping and Reporting	34														$\Box$				П	4								++-				++-									
	21.4	Contract Management	34														П					4							-  -  -	++-				++-									
	21.5	Measurements, Claims and Financial Control	34														Ħ					4								++-	-			++-	+								
	Task 22	Phase-II: Activities During Trial Run and Commissioning	2													Ħ														H		$\square$											
	22.1	Pre Commissioning Activities	1																																		-	+				Ш	
	22.2	Commissioning Activities	1																																			**					
		Monthly Progress Report with Quality & Quantity Control Details	38																		4	-						-		4-4-	+												
		Material / Equipment Testing & Inspection Report	38																																								
4.5.7		Defect Liability Period	12																											4													
	23.1	As-Built Drawings	1																																			ł	•				
	23.2	Submission of Project Completion Report [PCR]	3																																			1					
	Task 24	Regular Inspection During Defect Liability Period	12																																			l			•	++-	
		Implementation of EIA and EoMP	73	4	-			+				+				+ -				++				++-											-	+++							

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																						Proje	ct Du	uratio	n in	Mon	ths -	30 M	onths	Involv	eme	nt																		
Activity	Task	Activities and tasks	Duration in Months	1 :	2 3	4 5	6 7	8 9	10 11	12 1	13 14	15 16	17 18	3 19 2	0 21 2	2 23	24 25	26 27	28 2	29 30	31 32	33 34	35 3	36 37 3	38 39	40 41	42 43	44 45	46 47	48 49	50 51	52 53	54 55	56 57	58 59	60 61	62 63	64 65	5 66	67 68	69 70	71 72	73 7	4 75 7	76 77 7	8 79 8	0 81 8	82 83	84 85	86 87
4.5.16		Installation of External Power Transmission Line CP5	30											1						-										<b></b>																				
	Task 1	Technical Coordination	30											<b>+</b>		-		-+-	+ -				-+	++					-	•																			A	
	Task 2	Monthly Progress Report	30											•		-	1		ļ.,	-	-		++	++	-				-	*																				
		Implementation of EIA and EoMP	30											Ť		-			-								-+-			<b>*</b>																				

Legends	
•	Main Activities [Full Time]
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	Tasks Under Main Activities [Full Time]
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<del></del>	Sub Tasks Under Tasks
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•	Client's Role