

**Design and Build Basis for Construction of Water Supply and Sewerage Facilities in Th.Vandhoo**

**Summary**

<b>Schedule no:</b>	<b>Description</b>	<b>Total</b>
<b>1</b>	Schedule 1- Design	
<b>2</b>	Schedule 2- General Works	
<b>3</b>	Schedule 3- Water Supply System Works	
<b>4</b>	Schedule 4- Gravity Sewerage System	
<b>5</b>	Schedule 5- Provsional Sums	
	<b>Subtotal</b>	
	<b>GST (6%)</b>	
	<b>Total</b>	

**Schedule 1- Design**

<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>Rate</b>	<b>Total</b>
<b>1</b>	Survey			
	Carrying out the Topographic, Bathymatric and Social Surveys as specified in the Employers Requirment	LS		
<b>2</b>	Concept Design			
	Preperation of Concept Design for Water Supply and Sewerage System as specified in the Employers Requirment	LS		
<b>3</b>	EIA			
	Carrying out the EIA for the project based on concept Design Report and as specified in the Employers Requirement			
<b>4</b>	Detailed Design			
	Preperation of Detailed Design for Water Supply and Sewerage System as specified in the Employers Requirment	LS		
	<b>Total</b>			

**Schedule 2- General Works**

Item	Description	Unit	Rate	Total
1	Contractual Requirements	LS		
	Provide & Maintain all necessary Insurances, Guarantees and Securities.			
2	Project Management	LS		
	Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings & similar.			
3	Mobilisation	LS		
	Allow for Establishment of Contractors office, Labour Camps and transportaion of Equipment and Materials etc			
4	Site Preperation	LS		
	Clearing grass, bushes, shrubs, saplings, uprooting rank vegetation all along the pipeline route and removal & disposal of rubbish to approved tips anywhere in the island as directed by the Engineer-in-charge, etc			
5	Construction of Administration and RO plant Building	LS		
	Foundation works , Structural Works, Masonry, Plastering, Plot boundary works and Finishing works etc as per the approved drawings and Employers Requirements			
	<b>Total</b>			

**Schedule 3- Water Supply System Works**

Item	Description	Unit	Rate	Total
<b>1</b>	Distribution Network	LS		
	Supply and Installation of HDPE pipe network as per the design including provision of house connections with meters			
<b>2</b>	Water Intake Boreholes	LS		
	Construction of boreholes as per the employers requirement and approved designs			
<b>3</b>	RO Plant & Pumping System	LS		
	Supply and Installation of RO plants, Distribution Pumps as per Employers Requirement			
<b>4</b>	Brine Discharge outfall	LS		
	Installation of HDPE brine discharge line as per the Employers Requirement			
<b>5</b>	Storage tanks	LS		
	Supply and Installation of Storage tanks as per the Employers Requirement			
<b>6</b>	Mechanical and Electrical Works	LS		
	Supply and Installation of electrical and mechanical components required as per approved drawings including provision of power supply from feeder cable			
<b>7</b>	Solar PV	LS		
	Provision of Solar Panels on Plant building Roof Catchment and provision of Necessary Equipments to utilise PV in RO plant operation			
<b>8</b>	Testing & Commissioning	LS		
	Carrying out testing and commissioning as per the employers requirement for all components of the system			
	<b>Total</b>			

**Schedule 4- Gravity Sewerage System**

Item	Description	Unit	Rate	Total
1	Gravity sewer network	LS		
	Supply and Installation of UPVC pipes and Intallation of Manholes, cleanouts, lateral connectons and provision of house inspection chambers as per the approved drawings , etc			
2	Pumping mains Network	LS		
	Supply and Installation of HDPE pumping main as per the approved drawings etc.			
3	Supply and Intallation of Pumps	LS		
	Supply and Installtion of all pumps required for pumping stations/liftstation or outfall discharge station as per the approved drawings			
4	Civil Works for Pump Stations	LS		
	Carrying out the concrete works and finishing works of PS/LS as per the approved drawings and Employers requirement etc			
5	Sea outfall	LS		
	Installtion of HDPE pipes and Ballast blocks as per the approved drawings			
6	Mechanical and Electrical	LS		
	Supply and Installation of electrical and mechanical components required as per approved drawings including provision of power supply from feeder cable			
7	Provision of Equipments for O&M and Spare parts	LS		
	Providing spare parts and Equipments required for operation and maintances of the system including O&M Manuals etc as per the employers requirments and approved designs			
8	Testing & Commissioning	LS		
	Carrying out testing and commissioning as per the employers requirment for all components of the system			
9	Jetting Machine	LS		
	Supply of jetting machine as per the requirments stated in Employers Requirement			
	<b>Total</b>			

**Schedule 5- Provsional Sums**

Item	Description	Unit	Qty	Rate	Total
1.0	<b>Schedule 3- Water Supply System Works</b>				
1.1	<i>Provision of house connections with meters</i>	nos	8		
2.0	<b>Schedule 4- Gravity Sewerage System</b>				
2.1	<i>provision of house Connection with laterals and inspection chambers as per the approved drawings</i>	nos	8		
	<b>Total</b>				