



## Tamil Nadu Water Supply and Drainage Board

**Name of Work:- Design, Build 60 MLD Capacity Desalination Plant Based on Sea Water Reverse Osmosis at Koonimedu in Villupuram District, Tamil Nadu and Operation and Maintenance for 20 Years**

**Tender No. IFB:15/DSP-VPM Pkg I /DO/CE/ VLR/2021/Dt:07.01.2021**

### Addendum for the pre-bid Queries

Sl.No	Vol / Clause / Page No.	As Existing			As Amended		
	<b>Volume I</b>						
1	Volume-I Section-IV Bidding FormPage No. 63 (i.e. Page 68 of 171)	<b>Sl. No</b>	<b>Functional Guarantee</b> [as required by the Employer in Section IX]	<b>Functional Guarantee Value Offered by the Bidder</b>	<b>Sl. No</b>	<b>Functional Guarantee</b> [as required in the Specification, e.g., performance, efficiency, consumption, etc.]	<b>Functional Guarantee Value Offered by the Bidder</b>
		1	Product water quantity	Minimum 60 MLD initially and expandable up to 72 MLD in future			
		2	Product water quality	(shall not be less than the specified quality parameters as in Employer's Requirements)	1	Water Production Quantity	Minimum 60 MLD initially and expandable up to 72 MLD in future
		3	Specific Power Consumption	First Year ..... KWh/ML	2	Water Production Quality	(shall not be less than the specified quality parameters as in Employer's Requirements)
				Second Year..... KWh/ML			
				Twentieth Year ..... KWh/ML			

Sl.No	Vol / Clause / Page No.	As Existing			As Amended		
		Sl. No	Functional Guarantee [as required by the Employer in Section IX]	Functional Guarantee Value Offered by the Bidder	Sl. No	Functional Guarantee [as required in the Specification, e.g., performance, efficiency, consumption, etc.]	Functional Guarantee Value Offered by the Bidder
		4	Life of Components such as RO/UF Membranes, Cartridge filter etc	Not less than 5 Years	3	Specific Power Consumption	First Year ..... kWh / m3
		5	Key Personnel				Second Year ..... KWh/m3
			R O Membrane				Twentieth Year ..... KWh/m3
			UF Membrane				
			Cartridge Filter				
		6	Key Personal	Should have minimum Key personnel as per Section VI- Employer's Requirements	4	Maximum Demand - Power	.....KVA [as proposed by bidder] (Furnish for 20 year without indicating the Price)
			7	Any other		5	Life of Components such as RO/UF Membranes and others
		Ultra Filter					
		Cartridge filter					
		RO membranes					
		Others					
		6	Key Personal	Should have minimum Key personnel as per Section VI- Employer's Requirements	7	Any other	

Sl.No	Vol / Clause / Page No.	As Existing	As Amended
2	Volume-I Section VIII Particular Conditions Cl 14.3(b) Amounts to be deducted Page No. 90 (i.e. Page 95 of 171)	1% towards Buildings and other construction welfare cess act, income tax, TDS and GST or any other statutory levies as per the prevailing law	1% towards Buildings and other construction welfare cess act, income tax and TDS or any other statutory levies as per the prevailing law
3	Volume I SectionVIII Particular Conditions Part A Page No. 92 (i.e. Page 97 of 171)	Clause 20.8 "The place of arbitration as "Chennai"	"The place of arbitration as "Chennai"
4	Volume-I Page No. 97 (i.e. Page 102 of 171) Sub Clause 4.2	50% of the Performance Security of the Design Build (Construction) will be refunded / returned along with the final bill payment after issue of commissioning certificate and balance 50% shall be refunded at the end of Defect Liability Period i.e. <b>after one year of date of Commissioning Certificate</b> or the date of rectification of all the defects notified as per Sub-Clause 12.1. whichever is later. The contractor shall ensure that the Bank guarantee for balance 50% of the Performance Security for Design Build (construction) portion of works is valid 28 days after the expiry of Defect Liability Period.	50% of the Performance Security of the Design Build (Construction) will be refunded / returned along with the final bill payment after issue of commissioning certificate and balance 50% shall be refunded at the end of Defect Liability Period i.e <b>after two years of date of Commissioning Certificate</b> or the date of rectification of all the defects notified as per Sub-Clause 12.1. whichever is later. The contractor shall ensure that the Bank guarantee for balance 50% of the Performance Security for Design Build (construction) portion of works is valid 28 days after the expiry of Defect Liability Period
5	Volume I Page No. 108 (i.e. Page 113 of 171) Volume-II,Part II,B. Electrical, SCADA, Instrumentation,	In the event during plant operation in any operating month the Contractor maintains a power factor which is lower than a power factor of 0.95, penalty @ 1.25 times the penalty, as charged by TANGEDCO to the Employer during the said month shall be charged to the Contractor. And in addition to the above 1.25	In the event during plant operation in any operating month the Contractor maintains a power factor which is lower than a power factor of 0.90, penalty as charged by TANGEDCO to the Employer during the said month shall be charged to the Contractor.

Sl.No	Vol / Clause / Page No.	As Existing	As Amended
	Control and Automation Work	times of excess power consumption charges will be levied as penalty.	
	<b>Volume – II Part I A Process Description &amp; Design basis</b>		
6	Volume –II Part I A Process Description & Design basis Clause 1.3 Page No. 3 (i.e. Page 4 of 814)	The proposed SWRO Desalination Plant shall have a production capacity of 60 MLD (60000 cum/day) of product water with all the Civil works including Plant buildings such as substation & control room, <b>chemical house and Clo2 dosing generator room</b> , Clear water sump, Intake and Outfall systems etc. sized for 72 MLD capacity.	The proposed SWRO Desalination Plant shall have a production capacity of 60 MLD (60000 cum/day) of product water with all the Civil works including Plant buildings such as substation & control room, <b>chemical house</b> , Clear water sump, Intake and Outfall systems etc. sized for 72 MLD capacity.
7	Volume –II Part I A Process Description & Design basis Clause 2.1 Page No. 10 (i.e. Page 11 of 814)	The Contractor shall design the layout and all the Civil works including Plant buildings such as substation & control room, <b>chemical house and Clo2 dosing generator room</b> , Clear water sump, Intake and Outfall systems, all the Civil works etc. shall be sized for 72 MLD capacity and all the RO units, mechanical, Electrical and Instrumentation shall be provided to produce 60 MLD of desalination water as per the Employer's Requirements.	The Contractor shall design the layout and all the Civil works including Plant buildings such as substation & control room, <b>chemical house</b> , Clear water sump, Intake and Outfall systems, all the Civil works, etc. shall be sized for 72 MLD capacity and all the RO units, mechanical, Instrumentation and remaining Electrical Equipment including distribution transformer shall be provided to produce 60 MLD of desalination water as per the Employer's Requirements.
8	Volume –II Part I A Process Description & Design basis Section 2: Design Services Clause 2.1 Page No. 10 (i.e. Page 11 of 814)	2.1 General	The following statement shall be read along with section 2 design services: The requirements indicated above are basic and minimum. Since, this is being Design, Build & Operate Contract with functional guarantee, the bidders have the option to design as per the requirement of Section -6 Employer's Requirement and however, the plant shall meet all the functional guarantees as indicated by the bidder in pursuance to the Appendix 7 – Functional guarantee of Volume I.

Sl.No	Vol / Clause / Page No.	As Existing	As Amended
9	Volume II, Part I A Process Description and Design Basis Section 2: Design Services 2.1. General / Page No. 10 (i.e. Page 11 of 814)	The Contractor shall design the layout and all the Civil works including Plant buildings such as substation & control room, chemical house and Clo2 dosing generator room, Clear water sump, Intake and Outfall systems, all the Civil works etc., shall be sized for 72 MLD capacity and all the RO units, mechanical, Electrical and Instrumentation shall be provided to produce 60 MLD of desalination water as per the Employer's Requirements.	The Contractor shall design the layout and all the Civil works including Plant buildings such as substation & control room, chemical house and Clo2 dosing generator room, Clear water sump, Intake and Outfall systems, all the Civil works and Power Transformer etc., shall be sized for 72 MLD capacity and all the RO units, mechanical, Instrumentation and remaining Electrical Equipment including distribution transformer shall be provided to produce 60 MLD of desalination water as per the Employer's Requirements.
10	Volume II Part IA Process Description & Design Basis Page No. 18 (i.e. Page 19 of 814)	Table 6.0: Drinking Water Quality Requirements as per IS 10500 – 2012 Sl. No. xxxiii. Boron mg/l, Max $\leq 0.5$ <b>Note:</b> * Permissible limit in the absence of alternative source	Table 6.0: Drinking Water Quality Requirements as per IS 10500 – 2012 Sl. No. xxxiii. Boron mg/l, Max $\leq 0.5$
11	Volume –II Part I A Process Description & Design basis Clause 6.1 Page No. 25 I.e. Page 26 of 814)	The intake conduit shall be of minimum 1600 mm (OD) diameter and shall be of HDPE ( <b>SDR 13.6</b> PN10 PE100) as per ISO: 4427:2007	The intake conduit shall be of minimum 1600 mm (OD) diameter and shall be of HDPE ( <b>SDR 17</b> PN10 PE100) as per ISO: 4427:2007
12	Volume -II Part I A Process Description & Design basis Clause 6.5 Page No. 33 (i.e. Page 34 of 814)	Add at the end of Clause 6.5	<b>Travelling water Screen:</b> The travelling water screens shall be of self-cleaning type consisting of a series of wire screen mesh panels fastened to vertical strands of chain. The screen shall be of "Through Flow" arrangement where water passes through the screen from the upstream ascending screen to the downstream of the descending screen. As the water flows through the mesh panels, debris shall be retained within the mesh panels and the accumulated debris shall then conveyed to the top of the screen where it shall be dislodged using a spray wash system and discharged into a gully in the civil works. The

Sl.No	Vol / Clause / Page No.	As Existing	As Amended
			spray water system shall consist of spray nozzle piping network served by the spray wash pump, which takes suction from a tap off in the intake water pumps discharge line. The requirement are:- a) Number of Travelling water screens with all necessary embedment (Primary & secondary), grooves etc : 2 Nos, b) Mesh Opening for the screen: 3 mm x 3 mm, c) Type: Through flow, d) Velocity of flow through the screen at Low-Low condition: < 0.5 m/s, e) Speed of screen travel < 2 m / minute, f) Minimum two (2) sets of spray systems at different elevations with adequate non clogging nozzles to cover entire span of the mesh panel, g) Material of Construction: SS316 L for all like Screen wire, Chain/Chain rollers/ Chain links/Bush, Side guide cum track, Head and Foot Shaft, Frame (Top /intermediate /Bottom), All Embedment's/grooves, Mechanical Fasteners, Head and Foot Sprocket, Baffle plate, Spray nozzles and Torque tube/Torque arm; h) Material of Construction: FRP for Splash/Rear Housing/deflector plate/chain guard i) Material of Construction: RCC for Refuse Trench.
13	Volume –II Part I A Process Description & Design basis Clause 7.4 Page No. 36 (i.e. Page 37 of 814)	<b>7.4 Flocculation</b> Due to the warm temperature, min <b>15.0</b> minutes of flocculation shall be proposed.	Due to the warm temperature, min <b>30.0</b> minutes of flocculation shall be proposed.
14	Volume –II Part I A Process Description & Design basis Clause 7.4, Table 11.0	Number of flocculation tanks <b>2 Nos.</b>	Number of flocculation tanks <b>4 Nos.</b>

Sl.No	Vol / Clause / Page No.	As Existing	As Amended
	Page No. 36 (i.e. Page 37 of 814)		
15	Volume –II Part I A Process Description & Design basis Clause 9.1.2 Page No. 48 (i.e. Page 49 of 814)	The Bidder may also recommend a post-treatment system of their preference and provide a brief analysis of the cost and operational advantages of the post-treatment stabilization system they propose vs the post-treatment method indicated above along with their technical proposal.	<b>Delete</b>
16	Volume –II Part I A Process Description & Design basis Clause 11.1 Page No. 55 (i.e. Page 56 of 814)	<b>11.1 Potable water storage</b> Treated potable water shall be stored on site prior to being transferred to the consumers for consumption. The criteria for the storage tank are summarised below; Total net usable storage volume shall be minimum 19 ML with 6 hours storage of capacity 72 MLD. Material of construction: RCC epoxy coating. Tank geometry: to suit site hydraulics and cost optimisation and covered.	Clause 11.1 Potable water storage shall be read as <b>11.1 Potable water storage</b> Treated potable water shall be stored on site prior to being transferred to the consumers for consumption. The criteria for the storage tank are summarised below; Total net usable storage volume shall be minimum 19 ML with 6 hours storage of capacity 72 MLD. Material of construction: RCC epoxy coating. Tank geometry: to suit site hydraulics and cost optimisation and covered. Battery limit for the bidder's work will be at Final Product (Potable) Water Storage Tank. Product (Potable) Water Pump House with pump sets is not in the scope of the present Contract. However, the Contractor has to consider additional electrical load of 570 kW (220 kW pumps with 2W +1S and 65 kW pumps with 2W+1S) for the product water pumps during the design of electrical system.
17	Volume –II Part I A Process Description & Design basis Clause 13.1 Page No. 57 (i.e. Page 58 of 814)	The outfall conduit shall be of minimum 1200 mm (OD) diameter and shall be of HDPE ( <b>SDR 13.6PN10</b> PE100) as per ISO: 4427:2007	The outfall conduit shall be of minimum 1200 mm (OD) diameter and shall be of HDPE ( <b>SDR 17PN10</b> PE100) as per ISO: 4427:2007

Sl.No	Vol / Clause / Page No.	As Existing	As Amended
18	Volume –II Part I A Process Description & Design basis Clause 15.2 Road Works Page No. 60 (i.e. Page 61 of 814)	Areas of significant traffic, such as around workshops and offices and roads between facilities plus roads surrounding and internal to the process plant shall be <b>bitumen sealed</b> .	Areas of significant traffic, such as around workshops and offices and roads between facilities plus roads surrounding and internal to the process plant shall be <b>concrete</b> .
	<b>Volume-II-Part II A. Civil – Specifications</b>		
19	Volume-II-Part II Civil – Specifications, Clause 2.1, Page No. 7 of 302 (i.e. Page 113 of 814)	The finished level shall be 300 mm above existing ground level.	Finished Ground level (FGL) at any place inside the Plant shall be at +4.500m w.r.t. to MSL or at the Natural ground level whichever is more. The Bidder also has a choice to maintain a uniform FGL of +4.500m wrt to MSL for the entire Plant.
20	Volume-II-Part-II Civil – Specifications, Clause 8.43.7 CoverPage No. 107 of 302 (i.e. Page 213 of 814)	Hence as per the latest Indian Standard (IS) 456 "Plain and Reinforced Concrete – Code of Practice" – Table 3, Environmental Exposure conditions – category – <b>Severe exposure</b> can be considered, with cover not less than that mentioned elsewhere in this Bid document (Clause 2.8).	Hence as per the latest Indian Standard (IS) 456 "Plain and Reinforced Concrete – Code of Practice" – Table 3, Environmental Exposure conditions – category – <b>Very Severe exposure</b> can be considered, with cover not less than that mentioned elsewhere in this Bid document (Clause 2.8).
21	Volume-II-Part-II Civil – Specifications, Clause 8.43.7 CoverPage No. 108 of 302 (i.e. Page 214 of 814)	Increased cover thickness shall be provided for surfaces exposed to the action of harmful chemicals or exposed to earth contaminated by such chemicals, acid, alkalis, saline atmosphere, sulphurous smoke etc. and such increase of cover may be between 15 mm and 50 mm beyond the figures mentioned here as may be specified by the Engineer.	Cover thickness shall be provided for surfaces exposed to the action of harmful chemicals or exposed to earth contaminated by such chemicals, acid, alkalis, saline atmosphere, sulphurous smoke etc. as per the latest Indian Standard (IS) 456 "Plain and Reinforced Concrete – Code of Practice" – Table 3, Environmental Exposure conditions – category – <b>Very Severe exposure</b> , with cover not less than that mentioned elsewhere in this Bid document (Clause 2.8).



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22	Volume-II-Part-II Civil – Specifications, Clause 16.3, Page No. 226 of 302 (i.e. Page 332 of 814)	A Security building at the entrance of the Plant of minimum <b>7 sqm</b> plinth area with 3.3 m height	A Security building at the entrance of the Plant of minimum <b>36 sqm</b> plinth area <b>including a toilet of 2.5 sqm</b> with 3.3 m height
	<b>Volume-II, Section-VI, Part-II B Electrical, SCADA, Instrumentation, Control and Automation</b>		
23	Volume-II,Part-IIB. Electrical,SCADA, Instrumentation, Control and Automation Section3.0-Plant Power Supply and Distribution. Table Fault Level Page-No.21(i.e. Page 474 of 814)	Fault Level: 110 kV Short Circuit Rating in kA: 40kA, 3 Sec Fault Level: 11 kV Short Circuit Rating in kA: 40 kA, 3 sec (Switch Yard & MRSS)	Fault Level: 110 kV Short Circuit Rating in kA: 40kA, 1 Sec Fault Level: 11 kV Short Circuit Rating in kA: 40 kA, 1 sec (Switch Yard & MRSS)
24	Volume-II,Part-IIB. Electrical,SCADA, Instrumentation, Control and Automation Section-4.0 Outdoor Switchyard:Page No.22(i.e.Page 475	All Power cables shall be of Aluminium, XLPE insulated, armored and FRLS outer sheath and all control and instrument cables shall be of Copper, PVC insulated, armored and FRLS outer sheath.	All Power cables shall be of Aluminium, XLPE insulated, armoured and FRLS outer sheath and all control and instrument cables shall be of Copper, PVC insulated, armoured and FRLS outer sheath. <b>The copper cables having size 4 sqmm and 2.5 sqmm shall be used for receptacle and lighting purpose respectively with due consideration of design requirement, factor of safety, etc., as per IS.</b>

Sl.No	Vol / Clause / Page No.	As Existing	As Amended
	of 814)		
25	Volume-II,Part-IIB. Electrical,SCADA, Instrumentation, Control and Automation-4.2 Outdoor type SF6 gas operated circuit breakers: Page No 32 (i.e. Page 485 of 814), Sl. No. 33	Rating of auxiliary contacts, 10 A at 220V DC	Rating of auxiliary contacts, 10 A at 110V DC
26	Volume-II,Part-IIB. Electrical,SCADA, Instrumentation, Control and Automation Clause 7.0 11 KV Indoor Sub Station:Page No. 94 (i.e. Page 547 of 914)	The bus duct shall serve as interconnection between secondary terminal of the power transformer and the 11kV MV Panel in the MRSS building.	The H.T underground cable shall be used for interconnection between secondary terminal of the power transformer and the 11kV MV Panel in the MRSS building.
27	Volume-II,Part-IIB. Electrical,SCADA, Instrumentation, Control and AutomationSection, 7.0 11 KV indoor substation Page No. 95 (i.e.Page 548 of 814)	In table for Basic Data Sheet –Sl. No. 13 Protection class IP 45 ( indoor )	In table for Basic Data Sheet – Sl. No. 13 Protection class IP 52 ( indoor )
28	Volume-II,Part-IIB. Electrical,SCADA, Instrumentation,	In all switchgear, busbars and primary conductors shall be contained in segregated compartments accessed only by bolted removable cover plates. The	In all switchgear, busbars and primary conductors shall be contained in segregated compartments accessed only by bolted removable cover plates. The

Sl.No	Vol / Clause / Page No.	As Existing	As Amended
	Control and Automation 8.0 Low Voltage Switch Gear: Construction features Para 1. Page No. 96 (i.e. Page 549 of 814)	enclosure shall be IP 54.	enclosure shall be IP 52.
29	Volume-II, Part II B. Electrical, SCADA, Instrumentation, Control and Automation Clause 14.0. Lighting and small power Page No. 112 (i.e. Page 565 of 814)	Clause 14.1 Scope of Work: Solar Street Lighting System	Add the following under Solar Lighting System "The street lighting system shall be provided including 20% solar power. The specification of Solar Street Lights are given below: The Solar street light system shall be supplied in accordance with applicable codes and standards automatically. Solar Street lights shall be switched ON after the sunset and switched OFF after sunrise. The solar street lighting system shall consist of (i) 20 Lux LED street light with pole (ii) Solar photovoltaic Module, (iii) Battery with box, (iv) Inverter card to convert the stored DC energy in the battery to suitable AC voltage to ignite the LED & (iv) Interconnecting cables."
30	Volume-II, Part II B. Electrical, SCADA, Instrumentation, Control and Automation 14.0 Lighting and small power system Page No. 112 (i.e. Page 565 of 814)	Clause 14.2 Design Requirement: The following minimum requirement shall be considered while designing lighting for indoor area: Maintenance factor 0.7	14.2 Design Requirement The following minimum requirement shall be considered while designing lighting for indoor area: Maintenance factor a) for Air-conditioned rooms 0.90 b) for other rooms 0.85
31	Volume-II, Part II B. Electrical, SCADA, Instrumentation, Control and	LIPs for transmitters should be provided both in indoor and outdoor areas.	The following specification has been included in the Local Instrument Panel (LIPs): "The Local Instrumentation Panels (LIPs) for Indoor application shall IP 52 protection class"

Sl.No	Vol / Clause / Page No.	As Existing	As Amended
	Automation <b>Control and Instrumentation</b> Local Instrument Panel under Section 1.3.4 Panel Installation requirements Page No. 7 (i.e. Page 588 of 814)		
	<b>Volume-II, Section-VI, Part-II C Mechanical and Piping Specifications</b>		
32	Volume-II, Section-VI, Part-II C Mechanical and Piping Specifications 1.8 Piping System Page No. 5 (i.e. Page 679 of 814)	<b>1.8 Piping System</b> Pipelines under gravity : 1.0 m/s	Pipelines under gravity : Not less than 1.0 m/s
33	<b>Volume-III, Drawings</b>		
	Volume-III, Drawings /General Arrangement Layout of 60 MLD Expandable to 72 MLD SWRO Desalination Plant at Koonimedu / 17 of 38	Drg. No TWAD-MKM-SWRO -014 – GA layout 60 MLD SWRO Desal Plant at Marakkanam . Unit No 13A Product Water Pump House	The Contractor has to consider additional electrical load of 570 kW (220 kW pumps with 2W +1S and 65 kW pumps with 2W+1S) for the product water pumps during the design of electrical system. However, Construction of product water pump house is not under the scope of Contractor.

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34	Volume III, Drawings. Page No. 17 of 38	Drg. No TWAD-MKM-SWRO -014 – GA layout 60 MLD SWRO Desal Plant at Marakkanam . Unit No. 16 Plant Security Gate Complex, 1 No., <b>10.0 x 6.0 x 3.65m</b>	Drg. No TWAD-MKM-SWRO -014 – GA layout 60 MLD SWRO Desal Plant at Marakkanam . 16.0 Plant Security Gate Complex, 1 No., <b>6.0 x 6.0 x 3.3m</b>																																																																																																												
35	Volume III, Drawings. Page No. 18 of 38	FGL 0.0 m	FGL 3.5 m																																																																																																												
36	Volume IV Schedule No.7: Asset replacement fund excluding GST	In column 3 (quantity) numbers are mentioned/ given as 4,3	The numbers given ( 4 & 3) to be deleted, and should be filled up by the bidder in column 3 (quantity).																																																																																																												
37	Volume IV Schedule No.12: Grand Summary	<p>Schedule No. 12: Grand Summary</p> <table> <tr> <th rowspan="2">Schedule No.</th><th rowspan="2">Title</th><th colspan="2">Total Price in Indian Rupees, Excluding GST</th></tr> <tr> <th>Amount</th><th>Words</th></tr> <tr> <td>1</td><td>Plant and Mandatory Spare Parts Supplied from Abroad for 60 MLD</td><td></td><td></td></tr> <tr> <td>2</td><td>Plant and Mandatory Spare Parts Supplied from Within India for 60 MLD</td><td></td><td></td></tr> <tr> <td>3</td><td>Design Services</td><td></td><td></td></tr> <tr> <td>4</td><td>Build, Installation and Other Services</td><td></td><td></td></tr> <tr> <td>5</td><td>Summary of Design-Build Price (1+2+3+4)</td><td></td><td></td></tr> <tr> <td>6</td><td>Operation Services for 20 years</td><td></td><td></td></tr> <tr> <td>7</td><td>Asset Replacement Fund for 20 years</td><td></td><td></td></tr> <tr> <td>8</td><td>Summary of O &amp; M Price (6+7)</td><td></td><td></td></tr> <tr> <td colspan="2">Total Excluding GST</td><td></td><td></td></tr> <tr> <td colspan="2">GST @ 12%</td><td></td><td></td></tr> <tr> <td colspan="2">Grand Total to be carried forward to Letter of Price Bid</td><td></td><td></td></tr> <tr> <td colspan="4">Name of Bidder _____</td></tr> <tr> <td colspan="4">Signature of Bidder _____</td></tr> </table>	Schedule No.	Title	Total Price in Indian Rupees, Excluding GST		Amount	Words	1	Plant and Mandatory Spare Parts Supplied from Abroad for 60 MLD			2	Plant and Mandatory Spare Parts Supplied from Within India for 60 MLD			3	Design Services			4	Build, Installation and Other Services			5	Summary of Design-Build Price (1+2+3+4)			6	Operation Services for 20 years			7	Asset Replacement Fund for 20 years			8	Summary of O & M Price (6+7)			Total Excluding GST				GST @ 12%				Grand Total to be carried forward to Letter of Price Bid				Name of Bidder _____				Signature of Bidder _____				<p>Schedule No. 12: Grand Summary</p> <table> <tr> <th rowspan="2">Schedule No.</th><th rowspan="2">Title</th><th colspan="2">Total Price in Indian Rupees, Excluding GST</th></tr> <tr> <th>Amount</th><th>Words</th></tr> <tr> <td>1</td><td>Plant and Mandatory Spare Parts Supplied from Abroad for 60 MLD</td><td></td><td></td></tr> <tr> <td>2</td><td>Plant and Mandatory Spare Parts Supplied from Within India for 60 MLD</td><td></td><td></td></tr> <tr> <td>3</td><td>Design Services</td><td></td><td></td></tr> <tr> <td>4</td><td>Build, Installation and Other Services</td><td></td><td></td></tr> <tr> <td>5</td><td>Summary of Design-Build Price (1+2+3+4)</td><td></td><td></td></tr> <tr> <td>6</td><td>Operation Services for 20 years</td><td></td><td></td></tr> <tr> <td>6.1</td><td>Power consumption charges for 20 years</td><td></td><td></td></tr> <tr> <td>7</td><td>Asset Replacement Fund for 20 years</td><td></td><td></td></tr> <tr> <td>8</td><td>Summary of O &amp; M Price (6+6.1+7)</td><td></td><td></td></tr> <tr> <td>9</td><td>System Expansion - Plant and Mandatory Spare Parts Supplied from Abroad for 12 MLD Expansion</td><td></td><td></td></tr> <tr> <td>10</td><td>System Expansion - Plant and Mandatory Spare Parts Supplied from within India for 12</td><td></td><td></td></tr> </table>	Schedule No.	Title	Total Price in Indian Rupees, Excluding GST		Amount	Words	1	Plant and Mandatory Spare Parts Supplied from Abroad for 60 MLD			2	Plant and Mandatory Spare Parts Supplied from Within India for 60 MLD			3	Design Services			4	Build, Installation and Other Services			5	Summary of Design-Build Price (1+2+3+4)			6	Operation Services for 20 years			6.1	Power consumption charges for 20 years			7	Asset Replacement Fund for 20 years			8	Summary of O & M Price (6+6.1+7)			9	System Expansion - Plant and Mandatory Spare Parts Supplied from Abroad for 12 MLD Expansion			10	System Expansion - Plant and Mandatory Spare Parts Supplied from within India for 12		
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Schedule No.	Title	Total Price in Indian Rupees, Excluding GST																																																																																																													
		Amount	Words																																																																																																												
1	Plant and Mandatory Spare Parts Supplied from Abroad for 60 MLD																																																																																																														
2	Plant and Mandatory Spare Parts Supplied from Within India for 60 MLD																																																																																																														
3	Design Services																																																																																																														
4	Build, Installation and Other Services																																																																																																														
5	Summary of Design-Build Price (1+2+3+4)																																																																																																														
6	Operation Services for 20 years																																																																																																														
6.1	Power consumption charges for 20 years																																																																																																														
7	Asset Replacement Fund for 20 years																																																																																																														
8	Summary of O & M Price (6+6.1+7)																																																																																																														
9	System Expansion - Plant and Mandatory Spare Parts Supplied from Abroad for 12 MLD Expansion																																																																																																														
10	System Expansion - Plant and Mandatory Spare Parts Supplied from within India for 12																																																																																																														

Sl.No	Vol / Clause / Page No.	As Existing	As Amended			
				MLD Expansion		
			11	Summary of System Expansion Price (9+10)		
			Total Excluding GST(5+8+11)			
			GST @ 12% of (5+8+11)			
			Grand Total to be carried forward to Letter of Price Bid			
			Name of Bidder _____			
			Signature of Bidder _____			

**Enclosures:**

1. MoU for Joint Venture / Consortium
2. Approach Road Drawing