



Office of the Executive Engineer(Construction),
Room No. 114, Ground Floor,
ANNEX, Administrative Office Gandhidham,
Dist. Kutch, Gujarat, Pin – 370 201

Date: 03-04-2025

Sub: Budgetary-offer for 100 MLD Ship based floating Desalination plant on Built Operate & Own basis (BOO) for Deendayal Port & Supply chain Industrial Park. – Reg.

Ref: 1. DPA request for EOI EG/WK/Desal dt. 11/03/2025

Reply to the Queries

Technical scope related inputs	
1. Feed Seawater Quality	Annexure I
2. Configuration of the Desalination plant	As compact as possible
3. Plant availability	By Bidder
4. Applicable Process, Mechanical, Electrical, Instrumentation & control specifications	By the bidder
5. Incoming HT Power Supply	Available
6. Product water Storage, Pumping and Conveyance mains scope	By bidder
7. Fresh water storage capacity	100 MLD by bidder
Commercial related inputs	
1. Custom Duty Exemptions for the Imported Items – Will it be exempted	Nil
2. Fresh water consumption over the next 30 years	300 MLD
3. Cost of green power over the next 30 years	Green power (24 X 7), at present approximately of Rs. 4.00 to 5.00/ kWh. Which may vary at time of execution.
Govt. approval & study related points	
1. Bathymetry study report – Is it available, if so kindly provide	Annexure II
2. Detailed Project / Feasibility report – Is it available, if so kindly provide	Under process
3. Scope of CRZ / MOEF Clearances – Whose scope	Bidder; if required

Thanking you,

Executive Engineer (Const.)
Deendayal Port Authority

4.1.1. Water quality assessment

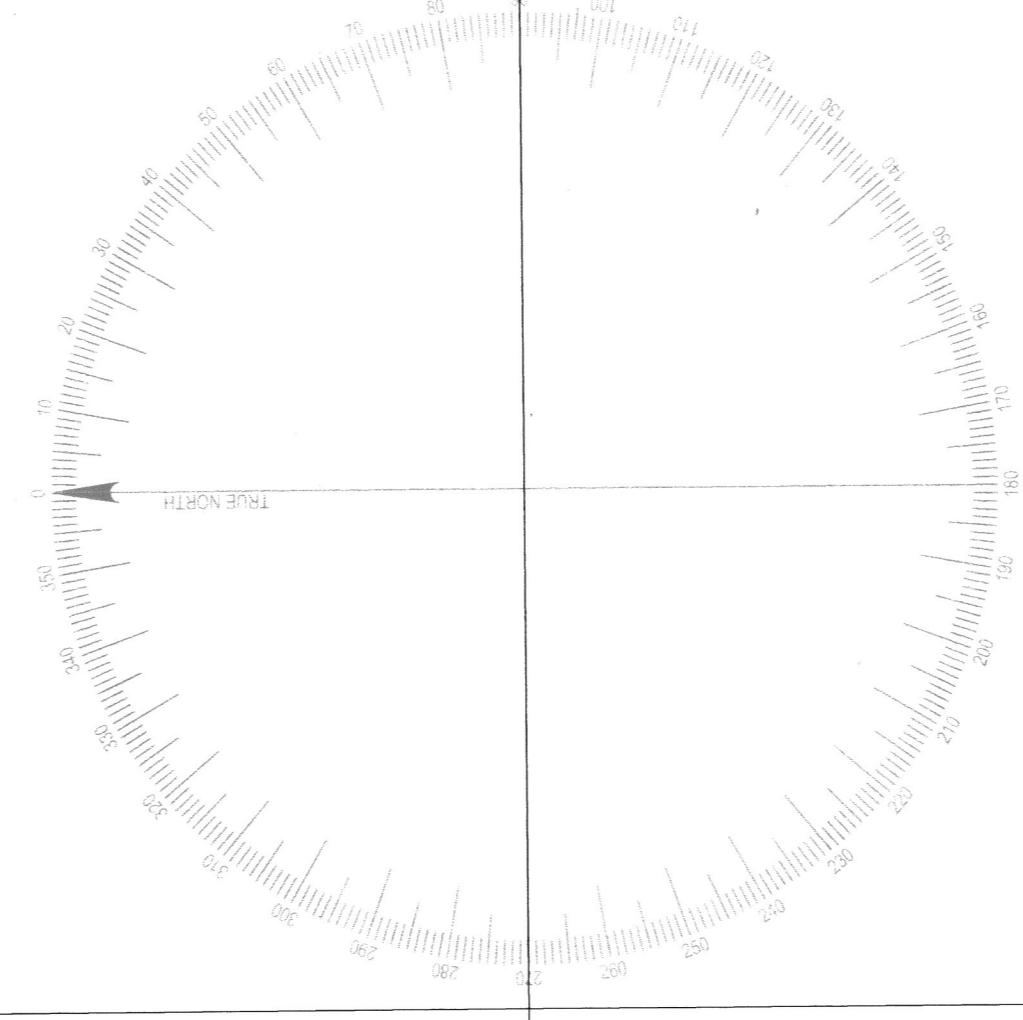
The data on the mean water quality parameters measured at the time of sampling of the biological components from the 15 study sites are presented in Table 11.

Table-11 Physico-chemical characteristics of the DPA Jurisdiction From May 2023- May 2024

Parameter		Monsoon 2022	Post Monsoon 2022-23	Pre Monsoon 2024
Temperature	max	30	20	31
	min	23	10	25
pH	max	8.1	8.0	7.9
	min	7.7	7.7	7.7
Salinity	max	44	43	47
	min	36	38	39
Dissolved oxygen (mg/L)	max	3.2	7.7	8.6
	min	1.0	2.0	7.0
Total Suspended Solids (TSS) (mg/L)	max	538	669	1104
	min	130	189	210
Total Dissolved solids (TDS) (mg/L)	max	44,060	39,774	56,400
	min	26,954	34,911	44,032
Turbidity (NTU)	max	67	183	489
	min	20	16	34
Nitrate (NO ₃) (mg/L)	max	0.01	0.04	0.01
	min	0.02	0.05	0.04
Nitrite (NO ₂) (mg/L)	max	0.048	0.005	0.005
	min	0.005	0.001	0.001
Total Phosphorus (mg/L)	max	9.76	2.88	0.42
	min	1.10	1.50	0.04
Total silicate	max	0.76	0.05	4.19
	min	0.18	0.02	0.54
PHs (µg/L)	max	9.1	85.8	9.1
	min	0.3	2.5	0.4
Chlorophyll a (mg/L)	max	0.67	0.38	2.98
	min	0.03	0.11	0.11



- The buoyage is changed accordingly to mark alterations.



☒ Bn. Ag

Dharamsala

Bn. Af.

VTMS (Ht. 60.0m)

