



### Part 4: Purpose of Desalination

- For Industrial/Commercial Use
  For Own Use
  Other:

### ANNEX 1. Desalination Plant Information

Installed site name:
Atoll/Island:
GPS Coordinates:
Type of Plant:
Manufactured Country:
Date of Manufacture:
Plant Serial No.:
Plant Model No.:
No. of Plants:
Total Capacity (m <sup>3</sup> /day):
Plant Installed By:
Chemicals Used for Disinfections:
Chemicals Used for Cleaning/Maintenance:
How Much Chemicals are Used:
How Often Chemicals are Used:

### ANNEX 2. Water Intake

Type of Intake:	<input type="checkbox"/> Borehole	<input type="checkbox"/> Open Sea
Type of Water:		
GPS Coordinates of Intake:		
GPS Coordinates of the Brine Discharge:		
Capacity of the Raw Water Collection Tank (m <sup>3</sup> ):		
No of Boreholes:		
Depth of Borehole:		
Diameter of Borehole:		
Type of Housing of the Borehole:		
SDI level of borehole water:		
No of Borehole pumps:		
Type of Borehole pumps:		

### ANNEX 3. Pre-Treatment

Type of Filter	Number of Filters	Micron Size
Multimedia Filter		-
Sand Filters		-
Carbon filters		-
Cartridge Filters		
Bag Filters		
Other (Click or tap here to enter text.)		
Pretreatment Chemicals		

#### ANNEX 4. Post treatment

Method of Post treatment	<input type="checkbox"/> Chlorine Dosing	<input type="checkbox"/> UV	<input type="checkbox"/> Other ( )
Post treatment chemicals			

#### ANNEX 5. Product Water Storage

Number of tanks:
Total Storage Capacity (m3):
Type of storage tank:

#### ANNEX 6. Brine Discharge

Brine Outfall location (GPS):
Length of Brine outfall:
Depth of Brine outfall:

#### ANNEX 7. Groundwater

Ground water quality (from a certified laboratory)	Within RO plant facility			
	Location - 1	Location - 2	Location - 3	Location - 4
GPS coordinates				
Electrical Conductivity ( $\mu\text{S/cm}$ )				
Salinity (%)				
pH				
Temperature ( $^{\circ}\text{C}$ )				
Oil (Total Hydro Carbon) (mg/l)				

ANNEX 8. Product Water (from a certified laboratory)	Reference	Sample 1	Sample 2	Sample 3
Physical appearance	Colourless			
pH	6.5 -8.5			
Turbidity	<1 NTU			
Electrical Conductivity	<1000 $\mu\text{s/cm}$			
Total Dissolved Solids (TDS)	<500 mg/L			
Free Chlorine	0.04 - 0.2 mg/l			
Chloride	<200 mg/l			
Boron	<2.4 mg/l			
Arsenic	<0.01 mg/l			
Fluoride	<1.5 mg/l			
Iron	<0.3 mg/l			
Total Hardness (Ca and Mg)	<75 mg/l			
Hydrogen Sulphide	<0.05 mg/l			

Nitrates	<50 mg/l			
Ammonia	<0.5 mg/l			
Suspended Solids	5-750 mg/L			
Total Coliform (CFU/100ml)	0/100ml CFU			
Faecal Coliform (CFU/100ml)	0/100ml CFU			
E.Coli	0/100ml CFU			

ANNEX 9. Intake Location (Borehole/Sea) (from a certified laboratory)	Reference	Sample 1	Sample 2	Sample 3
<b>Borehole / Open Sea</b>				
pH	7.5-8.5			
Temperature(°C)	25-30			
Electrical Conductivity (µS/cm)	35000 – 60000+			
Salinity (%)	20-40%			
Dissolved Oxygen (mg/l)	4-6 mg/l			
TDS (mg/l)	17500 – 30000			
SDI level of borehole water:	<5			
Total Coliform (CFU/100ml)	0/100ml CFU			
Faecal Coliform (CFU/100ml)	0/100ml CFU			

ANNEX 10. Brine discharge location	Reference	Sample 1	Sample 2	Sample 3
pH	7.5-8.5			
Temperature (°C)	25-30			
Electrical Conductivity (µS/cm)	45000 - 75000			
Salinity (%)	35 - 50%			
Dissolved Oxygen (mg/l)	4-6mg/l			
TDS (mg/l)	22500 - 37500			
Biological Oxygen Demand (mg/l)	<20			
Chemical Oxygen Demand (mg/l)	<20			

ANNEX 11. Noise Levels	Inside plant house	Outside (within 1m)	Outside (within 5m)
Noise (dB)			
Reference	< 95 dB A	< 70 dB A	< 60 dB A

ANNEX 12. Documentations	Inhouse	3 <sup>rd</sup> Party	Comments (if any)
Water quality test results (as per URA standards)	<input type="checkbox"/>	<input type="checkbox"/>	

Note:

- GPS coordinates of all sampling locations and original test result sheets from an ISO 17025 certified laboratory must be provided with the checklist. Absence of facility in the country will not exempt the proponent from providing the required water quality information.
- EIA decision statement is required only for NEW installations
- Permits and Temporary Licenses will be issued for 1 (one) Year

List of items to be submitted with application form

- 1 - Location map (Showing locations of the plant, brine discharge location, intake location and sewage outfall locations)
- 2 - Originals of all laboratory test reports
- 3 - Site specific scaled process flow diagram
- 4 - Copy of Company Registration (Companies)
- 5 - EIA decision statement (applicable only for new installations)
- 6 - Copy of Identity Card (Individuals)

Fees

Category	Registration	IWP License		Permit
	P1	W-B1		W-C1
	Per Year	Temporary (/Year)	Permanent (/Year)	Per Year
	MVR 1,000.00	MVR 25,000.00	MVR 20,000.00	MVR 5,000.00

Part 5: Declaration of the Owner

I hereby declare that the information provided is true and accurate. In case Utility Regulatory Authority finds the information provided is false or inaccurate, Utility Regulatory Authority has the right to reject the application. In case Utility Regulatory Authority requires to inspect the facility, I will facilitate Utility Regulatory Authority with the necessary arrangements.

Name	Signature	Stamp (if a Business)
Designation	Date	