

WTR04 Ver2.0



# **Application for Standalone Desalination Plant Registration / Operating Permit**

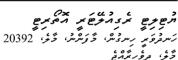
### General Information

- If the form is submitted by another party, a power of attorney document must be submitted along with the form.
- The form is divided into 05 parts. Complete the necessary parts.
- If hand filled, this form is to be filled with blue or black ballpoint ink
- If this form is incomplete or failure to submit any document that is required, the application will be rejected.
- This form is not intended for desalination plants connected to a distribution network
- If submitting online, the filled form along with the attachments shall be submitted to <a href="mailto:secretariat@ura.gov.mv">secretariat@ura.gov.mv</a> email address

Part 1: Application Type					
Registration	P1 – Standalone Desalination Plant Registration				
New		Transfer	Amendm	ent	Cancellation
License / Permit					
New		Amendment/R	enewal		Cancellation
License/Permit Category Applying For:		W-B1 − Special License − Independent Water Producer  Temporary  Permanent Required Period:  W-C1 − Operating Permit (For Non-Utility Service)			
Reference No. (if an amo Detail Design Reference Registration No. (if regis	No.:				
Part 2: Owner Details Name: Address: ID Card/Business Regist Contact No.: Email Address:	ry No.	:			
Part 3: Operator Details Name: Address: ID Card/Business Regist Contact No.: Email Address: Name of Focal Point: Contact No. of Focal Point	ry No.				
Email Address of Focal					Page <b>1</b> of <b>5</b>

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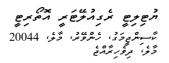


Part 4: Purpose of Desalination				
☐ For Industrial/Commercial Use	☐ For Own Use			
Other:				
ANNEX 1. Desalination Plant Informa	ation			
Installed site name:				
Atoll/Island:				
GPS Coordinates:				
Type of Plant:				
Manufactured Country:				
Date of Manufacture:				
Plant Serial No.: Plant Model No.:				
No. of Plants:				
Total Capacity (m³/day): Plant Installed By:				
Chemicals Used for Disinfections:				
Chemicals Used for Cleaning/Mainten	iance.			
How Much Chemicals are Used:	ance.			
How Often Chemicals are Used:				
110 W Otten Chemicals are esec.				
ANNEX 2. Water Intake				
Type of Intake:	☐ Borehole	Open Sea		
Type of Water:				
GPS Coordinates of Intake:				
GPS Coordinates of the Brine Dischar				
Capacity of the Raw Water Collection				
Capacity of the Raw Water Collection No of Boreholes:				
Capacity of the Raw Water Collection No of Boreholes: Depth of Borehole:				
Capacity of the Raw Water Collection No of Boreholes: Depth of Borehole: Diameter of Borehole:				
Capacity of the Raw Water Collection No of Boreholes: Depth of Borehole: Diameter of Borehole: Type of Housing of the Borehole:				
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Capacity of the Raw Water Collection 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:	Tank (m³):	Micron Size		
Capacity of the Raw Water Collection 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	Tank (m³):	Micron Size -		
Capacity of the Raw Water Collection 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 Multimedia Filter	Tank (m³):	<u>-</u>		
Capacity of the Raw Water Collection 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 Multimedia Filter Sand Filters	Tank (m³):	-		
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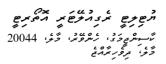
ANNEX 4. Post treatment				
Method of Post treatment	☐ Chlorine Dosing	□UV	☐ Other (	)
Post treatment chemicals				
ANNEX 5. Product Water Storage				
Number of tanks:				
Total Storage Capacity (m3):				
Type of storage tank:				
ANNEX 6. Brine Discharge				
Brine Outfall location (GPS):				
Length of Brine outfall:				
Depth of Brine outfall:				

ANNEX 7. Groundwater						
Ground water quality (from a certified laboratory)	Within RO plant facility					
Ground water quanty (from a certified faboratory)	Location - 1	Location - 2	Location - 3	Location - 4		
GPS coordinates						
Electrical Conductivity (µS/cm)						
Salinity (%)						
рН						
Temperature (°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 µs/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		_	ge 3 of 5

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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
Borehole / Open Sea				
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

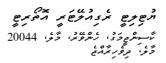
ANNEX 12. Documentations	Inhouse	3 <sup>rd</sup> Party	Comments (if any)
Water quality test results (as per URA standards)			

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#### 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				
	Registration	IWP I	License	Permit
Category	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

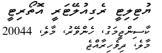
### Part 5: Declaration of the Owner

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)
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Designation	Date	
S		

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