

## Water Governance Benchmarking Criteria

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### **A. GOVERNANCE FUNCTIONS**

- 1. Organizing and building capacity in the water sector**
  - 1.1 Creating and modifying an organizational structure
  - 1.2 Assigning roles and responsibilities [1](#), [2](#)
  - 1.3 Setting national water policy
  - 1.4 Establishing linkages among sub-sectors, levels, and national sub-regions
  - 1.5 Establishing linkages with neighboring riparian countries
  - 1.6 Building public and political awareness of water sector issues
  - 1.7 Securing and allocating funding for the sector
  - 1.8 Developing and utilizing well-trained water sector professionals
- 2. Planning strategically**
  - 2.1 Collecting, managing, storing and utilizing water-relevant data [3](#), [4](#), [5](#), [6](#)
  - 2.2 Projecting future supply and demand for water
  - 2.3 Designing strategies for matching expected long-term water supply and demand and dealing with shortfalls (including drought mitigation strategies)
  - 2.4 Developing planning and management tools to support decision making [7](#), [8](#)
- 3. Allocating water**
  - 3.1 Awarding and recording water rights and corollary responsibilities
  - 3.2 Establishing water and water rights transfer mechanisms
  - 3.3 Adjudicating disputes
  - 3.4 Assessing and managing third party impacts of water and water rights transactions
- 4. Developing and managing water resources**
  - 4.1 Constructing public infrastructure and authorizing private infrastructure development
  - 4.2 Forecasting seasonal supply and demand and matching the two
  - 4.3 Operating and maintaining public infrastructure according to established plans and strategic priorities
  - 4.4 Applying incentives and sanctions to achieve long and short term supply/demand matching (including water pricing)
  - 4.5 Forecasting and managing floods and flood impacts
- 5. Regulating water resources and services**
  - 5.1 Issuing and monitoring operating concessions to water service providers
  - 5.2 Enforcing withdrawal limits associated with water rights
  - 5.3 Regulating water quality in waterways, water bodies, and aquifers (including enforcement) [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#)
  - 5.4 Protecting aquatic ecosystems [17](#)
  - 5.5 Monitoring and enforcing water service standards

## **B. GOVERNANCE PROCESS CHARACTERISTICS**

- 1. Transparency.** 18
- 2. Participation.**
- 3. Accountability and Integrity.**
- 4. Rule of law.** 19, 20, 21, 22, 23, 24
- 5. Coherency and Integration.**
- 6. Responsiveness.**

## **C. CROSS CUTTING CATEGORIES**

- 1. Water Sources**
  - 1.1 Surface water 25
  - 1.2 Groundwater 26
  - 1.3 Derivative water (reclaimed, reused, desalinated)
- 2. Water Uses**
  - 2.1 Irrigation
  - 2.2 Municipal 27, 28, 29, 30
  - 2.3 Industrial 31
  - 2.4 Environmental
  - 2.5 Hydropower
  - 2.6 Fisheries, navigation, recreation
  - 2.7 Other uses (including social, esthetic, and religious uses)

**Joint order of the Minister of the Interior; the Minister for Land Use Planning, Water and the Environment; the Minister of Finance and Privatization; the Minister of Industry, Commerce and the Upgrading of the Economy; the Minister of Energy and Mines; and the Minister of Tourism, Crafts and the Social Economy no. 1180-06 of 15 Jumada I 1427 (12 June 2006) setting the pollution charge rates applicable to wastewater discharges and defining the pollution unit <sup>9</sup>**

**The Minister of the Interior,**

**The Minister for Land Use Planning, Water and the Environment,**

**The Minister of Finance and Privatization,**

**The Minister of Industry, Commerce and the Upgrading of the Economy,**

**The Minister of Energy and Mines,**

**The Minister of Tourism, Crafts and the Social Economy,**

In view of Decree [n°2-04-553](#) of 13 Hija 1425 (24 January 2005) regarding discharges, spills, disposals, direct or indirect releases of effluents into surface waters or groundwaters, and particularly its articles 14, 16, 17, 22 and 24. [10, 17, 19, 25, 26](#)

**Hereby order:**

**Article 1:** The number (N) of pollution units cited in article 16 of the above-mentioned Decree [n°2-04-553](#) is calculated according to the following formula: [11, 20](#)

$N = 0.6 OM + 0.15 SS + 6.5 ML$ , where

N = Number of pollution units;

SS = Quantity of suspended solids, expressed in kilograms per year;

HM = Sum of the quantities in kilograms per year of the following heavy metals: Zinc, Chromium, Nickel, Copper, Arsenic, Lead, Cadmium and Mercury;

OM = Quantity of oxidizable matter, expressed in kilograms per year, calculated as follows:

$OM = (2 BOD_5 + COD)/3$  where:

$BOD_5$  = Biological oxygen demand over five (5) days, expressed in kilograms per year;

COD = Chemical oxygen demand, expressed in kilograms per year.

For industrial units in the papermaking pulp, paper and paperboard industries, the quantities of suspended solids (SS), heavy metals (HM) and oxidizable matter (OM) to be considered in the calculation of the number of pollution units are the differences between the quantities contained in the wastewaters discharged and the waters abstracted by the said units.

**Article 2:** The pollution charge rate applicable to the discharges of domestic wastewater indicated in chapter III of the above-cited Decree [n°2-04-553](#) of 13 Hija 1425 (24 January 2005) is given in the table below in dirhams per cubic meter of potable water consumed and invoiced by the drinking water network manager, and possibly abstracted directly from the natural environment or from a public work. [12, 21, 27](#)

Year	2006	2007	2008	2009	2010	2011	2012 and beyond
Pollution charge rate applicable to domestic wastewater discharges in dirhams per cubic meter	0.07	0.07	0.15	0.15	0.24	0.24	0.30

3, 7, 13

**Article 3:** The pollution charge rate applicable to industrial wastewater discharges cited in Chapter III of the above-cited Decree [n° 2-04-553](#) is stated in the table below in dirhams per pollution unit as defined in article 1 above. 4, 14, 22, 31

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016 and beyond
Pollution charge rate applicable to industrial wastewater discharges in dirhams per pollution unit	0.01	0.01	0.05	0.10	0.15	0.15	0.30	0.30	0.50	0.50	0.70

5, 8, 15

**Article 4:** The flat rate pollution charge for domestic discharges made by rural settlements stipulated in article 17 of the above-cited Decree [n° 2-04-553](#) is set at five hundred (500) dirhams per year. It is collected from the communes concerned. 16, 23, 28

For the intents and purposes of this Decree, a rural settlement is understood to be a group of rural residences of more than 1,000 inhabitants which does not have an adequate, functional independent sewage disposal system as defined by the regulations in effect.

**Article 5:** Pursuant to article 22 of the above-cited Decree [n° 2-04-553](#), and to enable the basin agency to issue collection orders, the sanitation service manager is required to provide the following information: 1, 6, 24, 29

- the volume of potable water invoiced by the drinking water network manager after deducting the volumes delivered to organizations that are not subject to the application of article 15 of the above-cited decree;
- the number of pollution units invoiced to the organizations that are connected to the public sewerage system, for which the pollution charge is determined as defined in article 16 of the decree cited above;
- information enabling the assessment of the performance of any purification devices that may be in use.

In those communes that directly manage the sanitation service and have chosen a delegated management of the drinking water distribution service, the drinking water distribution service manager shall pay the pollution charge to the basin agency, on behalf of the commune. 2, 30

**Article 6:** Outside the action areas of the hydrological basin agencies, the discharge pollution charges are paid to the General Treasury by means of collection orders drawn up by the Minister for Land Use Planning, Water and the Environment, pursuant to the dispositions of article 24 of the previously cited Decree [n° 2-04-553](#).

Pollution charges are paid on a half-yearly basis before the end of the month of September of year N for the half extending from 1 January of year N to 30 June of year N, and before the end of March of year N+1 for the half extending from 1 July of year N to 31 December of year N.

**Article 7:** This Joint Order is published in the *Bulletin Officiel* (Official state gazette). 18

*In Rabat, 15 Joumada I 1427 (25 June 2006)*

The Minister of the Interior, **Chakib Benmoussa**

*The Minister of Industry, Commerce and Upgrading of the Economy,*  
**Salaheddine Mezouar**

*The Minister for Land Use Planning,  
Water and the Environment,*  
**Mohamed El Yazghi**

*The Minister of Energy and Mines,*  
**Mohamed Boutaleb**

*The Minister of Finance  
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**Fathallah Oualalou**

*The Minister of Tourism, Crafts and the Social Economy,*  
**Adil Douiri**