

The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. The shapes are primarily triangles and polygons, creating a dynamic, layered effect. The overall composition is clean and modern, with the text centered against a white background.

# **Draft Report of the Expert Group on Strengthening the Framework of Malé Declaration**

**The Secretariat**

# Introduction

- ▶ A Feasibility Study was conducted on the Malé Declaration to assess the socio-economic as well as the air pollution situation of South Asia and recommend policy options for strengthening the framework on air pollution reduction at the regional and national levels.
- ▶ The **Feasibility Report on strengthening the regional framework on air pollution reduction in South Asia** was carefully discussed at the Second Meeting of the TFFD in November 2010, and finally endorsed and adopted during the 12th Intergovernmental Meeting (IG12) in June 2011.
- ▶ Recommendations of the study include, among others, the harmonization of air pollution policies (ambient and emission standards), which would be strengthened by the technical assistance of the experts on standards across the region and thus enable protocols to be drawn up.

# Decisions

- ▶ The 13th Session of the Intergovernmental Meeting (IG13) subsequently decided on the **establishment of the Expert Group on Strengthening the Framework of the Malé Declaration, in 2013.**
- ▶ The 14<sup>th</sup> Session of the Intergovernmental Meeting (IG14) in November 2015 endorsed and approved the **Terms of Reference of the Expert Group.**

# Task of the Expert Group, approved by IG14

- ▶ Review of the existing Ambient Air Quality Standards, Emission Standards for industrial and mobile sources for the member countries;
- ▶ Identification of the sectors for which standards need to be proposed;
- ▶ Recommend substances and pollutants to be standardized;
- ▶ Prepare a roadmap for harmonizing the standards in the region, to make it country/their phased implementation specific;
- ▶ Recommend procedures for monitoring and emission reduction;
- ▶ The expert group will identify the available technologies; and propose a roadmap for emission reduction from selective sectors in South Asia;
- ▶ Submit progress report to IG; and
- ▶ Prepare a final report for endorsement by IG.

The IG14 further adopted the composition of the Expert Group, namely, the Chairman, one representative from each member country and the Secretariat.

# Draft Outline of the Report of the Export Group on Strengthening the Framework of Malé Declaration

- ▶ I Introduction
- ▶ II. Review of the existing Standards
  - ▶ 2.1. Ambient Air Quality Standards
  - ▶ 2.2. Emission Standards for industrial sources
  - ▶ 2.3. Mobile sources for the member countries
- ▶ III. Identification of the sectors for which standards need to be proposed
- ▶ IV. Available technologies in each country
- ▶ V. Issues of implementation in the member countries
- ▶ VI. Recommendations
  - ▶ 6.1 Substances and pollutants to be standardized
  - ▶ 6.2 Procedures for monitoring and emission reduction
  - ▶ 6.3 Roadmap for emission reduction from selective sectors in South Asia

# First Meeting of the Expert Group (EG1)

**EG1 on 18 August 2016 in New Delhi, India. The major discussion during EG1 included:**

- ▶ The Secretariat will collect all the air quality standards of each country.
- ▶ Countries are requested to update the air quality status and policies and add the available technology in the information.
- ▶ Have another meeting of the Expert Group before the IG15, depending on time and resources availability.
- ▶ Suggestion was raised to hire an expert/consultant to develop the report and for countries to verify the same. The consultant will assess the needs and prepare a roadmap for development and harmonization of standards.

# Suggestions during EG1

- ▶ - Regarding the outline of the status paper on air quality standards to be prepared by all countries:
- ▶ - 1st week after the meeting: format to be finalized and be distributed by the Secretariat.
- ▶ - 2nd week after the meeting: Data status be received from countries and compiled by the Secretariat
- ▶ - Consolidated data to be prepared and presented at the next meeting before IG15 in October 2016 (if meeting of the Expert Group be convened).
- ▶ - Consult all stakeholders after preparing the report for submission at the IG17 in the year 2017.
- ▶ - There should be more frequent interaction with countries.

# Review of the Existing Standards in Malé Declaration Member States

- ▶ In order to review the country standards and to complete the Report of the Expert Group, it was **discussed at the IG1 that the Secretariat shall draft the outline or format of the air quality status on air pollution and standards** and be sent to the Expert Group members after the meeting.
- ▶ The country status will form part of the report of Expert Group.
- ▶ It is requested that the member countries be able to provide data and information, following the below outline.



# Draft Outline/format of Country Status on Air Pollution and Standards

- ▶ I. Introduction
  - ▶ 1.1 National Ambient Air Quality Standards and Guidelines
  - ▶ 1.2 Existing Emission Standards
  - ▶ 1.3 Emission Regulations
- ▶ II. Air Pollution Problems and Major Sources of Air Pollution
  - ▶ 2.1 Reasons for High Air Pollution
  - ▶ 2.2 Vehicular Pollution Problems
  - ▶ 2.3 Industrial Air Pollution Problems
- ▶ III. Air Quality Monitoring System
  - ▶ 3.1 National Air Quality Monitoring Programme
  - ▶ 3.2. Monitoring Locations and Parameters
- ▶ IV. Enforcement Mechanism
- ▶ V. Problems and Challenges on Implementation of Emission Standards
  - ▶ V1. Overall situation with respect to air quality in the country including, air quality challenges
- ▶ VII. Future programmes

# General Description on country status

- ▶ During EG1, **the air quality policies, issues and challenges** and future plans on air quality were discussed.
- ▶ Some references were made available, specifically the draft document based on research that UNEP conducted in 2015, in response to Resolution 7 of the UNEA.
- ▶ After the meeting some countries made validation, i.e **Maldives and Sri Lanka, herewith attached as Annex 2.**
- ▶ This will be helpful as a source of data information for the Report of the Export Group. Some countries have not yet validated the data information from UNEP UNEA, attached as Annex 3.

# National Ambient Air Quality Standards and Guidelines

Ambient Air Quality Standards of Male' Declaration Member Countries ( $\mu\text{g}/\text{m}^3$ )

Country	PM <sub>2.5</sub>		PM <sub>10</sub>		TSP		SO			NO			O <sub>3</sub>		CO ('000)	
	24 hr	Annual	24 hr	Annual	24 hr	Annual	1 hr	24 hr	Annual	1 hr	24 hr	Annual	1 hr	8 hr	1 hr	8 hr
Bangladesh	65	15	150	50	-	-	-	365	80	-	-	100	235	157	40	10
Bhutan	-	-	100	60	200	140	-	80	60	-	80	60	-	-	4	2
India	60	40	100	60	-	-	-	80	50	-	80	40	180	100	4	2
Iran	25	10	50	20	-	-	-	96.94	18.34	-	-	39.48	-	100	40.08	10.58
Maldives	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nepal	40	-	120	-	230	-	-	70	50	-	80	40	-	157	-	10
Pakistan	35	15	150	120	500	360	-	120	80	-	80	40	130	-	10	5
Sri Lanka	50	25	100	50	-	-	200	80	-	250	100	-	200	-	30	10
WHO guideline	25	10	50	20	-	-	-	20	-	200	-	40	-	100	-	-

## Vehicle Emission Standards of Male' Declaration Member Countries

Country	Emission Standards (current)	Remarks
Bangladesh	Euro 1 for diesel driven vehicle and Euro 2 for petrol driven vehicle.	Euro 2 - July 2014 (Nationwide) Euro 3 - July 2014 (Dhaka & Chittagong) Euro 3 - July 2019 (Nationwide) Euro 4 - July 2019 (Dhaka & Chittagong)
Bhutan	Euro 1; In-use vehicle emission standards, although not enough resources to implement testing	
India	Euro 3	Euro 4 in eleven major cities
Iran	Euro 4 for light-duty vehicles was planned for some time in mid-2013; plans for Euro 3 standard for heavy duty vehicles	
Maldives	None	
Nepal	Euro 3,	although pre-Euro vehicles are still being used
Pakistan	None	
Sri Lanka	Euro 1	

# Emission Standards

- ▶ The Secretariat has requested the member countries emission standards, e.g. industrial emission standards, vehicular emission standards, among others and they have been attached in this document as Annex 4.

## Actions needed

- ▶ The IG15 is requested to provide comments and guidance on the Draft Report of the Expert Group on Strengthening the Framework of Male' Declaration, including the draft outline of the report.

▶ Thank you for your attention!