

The Working Group Meeting in 2021 Session 2
Acid Deposition Monitoring Network in East Asia
18-20 August 2021, Virtual Meeting

ANNEX 2

Initial Draft Supplementary Document to Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia

(Japan's proposal, Draft version 0.1 as of 7 June 2021)

7/June/2021

Following texts are initial draft for consideration of WG2021-2 to develop a supplementary document to be recommended for IG23 for its decision, after the discussions and consideration at SAC. The texts are prepared by the EANET Secretariat based on 'the Proposed Simplified Texts for Supplementary Documents to the Instrument' circulated on 22 April as well as comments and inputs from the Participating Countries on it, with assistance given by the legal experts.

Texts in Bold font form the Initial Draft of Supplementary Document', while texts in Italic font are explanatory notes for discussion and consideration purposes only.

Supplementary Document to Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia

- 1. This Supplementary Document was adopted by all Participating Country in consensus at IG 23 to define expanded objectives and scope of the EANET based on the 2nd Clause of Item 2 of the 'Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia' (herein after 'the Instrument') in addition to the current objectives and scope specified in the Instrument.**

Note for WG discussion: The name of 'the Supplementary Document' might be Annex, ~~Protocol~~ or other forms, as appropriate.

Improved Key Points: This revised para makes clear that this document is to define ONLY EXPANDED AREA of the objectives and scope.

Proposed by Malaysia

- (a) In accordance with Item 1(a) of Item 2 of the Instrument**
- (b) To provide useful inputs for decision making at regional levels aimed at preventing or reducing adverse impacts on the environment caused by air**

pollution. Provision of these inputs is subject to prior approval requirements of the related Ministry/Department unique to each Participating Country. This provision will be referred to as the “Principal Approval Provision” in subsequent usages/applications.

- (c) to contribute to cooperate on the issues related to air pollution among the participating countries in accordance to the “Principal Approval Provision”]**

Note for WG discussion: Preamble may not be necessary, as many countries wish to have simple texts for IG decision, while some countries suggest to retain some texts as preambles for keeping consistency with the Instrument.

In the case of retaining some texts, Preamble which was shown in WG2021-1/5/3_Annex_1_Draft Text (“SUPPLEMENT TO EANET INSTRUMENT: ADDRESSING AIR POLLUTION WITHIN EANET FRAMEWORK”) prepared by Secretariat may be used.

(Definition of the expanded Scope)

(ALTERNATIVE A – Table Form Definition)

- 2. The new areas of the scope of the EANET expanded by this document are defined by Table 1 in the Attachment-1, which specify detailed scope in a matrix form consisting of sections specified with each air pollution related substance and each activity to be covered by EANET. Actual activities shall be identified by and implemented based on the IG Decision in line with the Table-1. Indicative examples of activities for each category of the Table-1 are listed in Table-2 in Attachment-2 just for the purpose of better understanding of each category[, and do not imply any additional meanings such as priority].**
- 3. The activities stated in Article 2 shall not be automatically treated as mandatory basis activities for any Participating Countries, unless the IG decides so [in consensus]. The Core Budget shall not be used for the activities marked with X in the Table-1 in Attachment-1, without explicit decisions of the IG.**

(ALTERNATIVE B– Table Form Definition)

- 2. The new areas of the expanded scope are defined by ALTERNATIVE B-Table 1, which specifies detailed scope in a matrix form consisting of sections specified with each air pollution-related substance and their corresponding Item of the Instrument to be covered by the EANET. Actual activities shall be identified by and implemented based on the IG Decision in line with the ALTERNATIVE B-**

Table 1.

(ALTERNATIVE C – proposed by ROK)

2. **The term “Acid Deposition” used in the Instrument shall be revised to “Air Pollution,” with the following definition: “Air pollution” means the introduction by man, directly or indirectly, of substances into the air resulting in deleterious effects of such a nature as to endanger human health, harm living resources and ecosystems and material property and impair or interfere with amenities and other legitimate uses of the environment.**

3. **The specific activities under the expanded scope will be included periodically in the mid-term plan and annually in the Work & Budget Plan considering financial status of EANET, and technical and environmental conditions of Participating Countries. Such activities shall be participated by all the 13 countries and, for this purpose, it shall be sought to construct the monitoring system and strengthen the operation and capacity.**

(ALTERNATIVE D – modified original Article 6 (Optional))

2. **The term ‘acid deposition’ referred in the Instrument shall be revised to ‘the air pollution issues which are caused by the target substances defined by the Table - 1 of the Supplementary Document’.**

Note for WG discussion:

Alternative A and B are to define additional scope in addition to the current scope without revision or amendment of the Instrument.

Alternative C and D are to revise the term ‘acid deposition’ used in the Instrument using the mechanism defined in Item 15 of the Instrument. Alternative C or D shall be effective subject to official written consent from all Participating Countries. (It is not necessary to sign the Instrument again, since IG decision together with official written consent are sufficient, as per the Instrument Itm15)

The form of ‘the official written consent’ is not specified by the Instrument itself, so that it can be interpreted discretionally by each Participating Country. Some countries may send official letters from the focal points as their official written consent, while some countries may need to involve other agencies to send their official written consent.

(cited from the Instrument)

The Instrument: Item 15
Revisions or Modifications

1. *Any revisions or modifications to any part of this Instrument may be proposed in writing by any Participating Country to be considered and adopted by the IG in consensus.*
2. *Subject to the official written consent by all Participating Countries, the revision or modification adopted by the IG will form part of this Instrument.*

(If either ALTERNATIVE B, C or D is agreeable by all Participating Countries, paragraph below is not necessary)

4. **The activities of the EANET as well as tasks, roles and responsibility of the Secretariat, Network Center, Subsidiary Bodies, Intergovernmental Meeting, and Participating Countries stated in the Instrument shall be applied to the expanded scope defined in this Supplementary Document, except the statements of Item 4.2, 4.3 and 4.4. The statements for Item 4.2, 4.3 and 4.4 could be applied in voluntarily basis.**

The Instrument: Item 4
Monitoring and Reporting

1. *The Participating Countries will implement and strengthen their monitoring activities in line with this Instrument.*
2. *Each Participating Country will designate a national center, which is responsible for implementing the monitoring activities provided for in this Instrument.*
3. *Each Participating Country will develop and implement its national monitoring plan. Monitoring of acid deposition will be implemented in accordance with the monitoring guidelines, technical manuals and other technical documents adopted by the IG.*
4. *Each Participating Country will report the monitoring data and other relevant information to the Network Center (NC), in accordance with the guidelines adopted by the IG.*
5. *In order to obtain high quality monitoring data, the quality assurance/quality control (QA/QC) programs adopted by the Scientific Advisory Committee (SAC), will be implemented by the NC in full collaboration among the Participating Countries for monitoring activities under this Instrument.*
6. *The monitoring data and other information submitted by the Participating Countries*

will be compiled, stored and analyzed by the NC.

7. The data and other information compiled through the EANET activities will be provided to individuals, organizations and non-member countries, in accordance with the procedures adopted by the IG.

(If either ALTERNATIVE C or D is agreeable by all Participating Countries, paragraph below is not necessary)

5. The ‘acid deposition’ referred in the following Items of the Instrument shall be [read]/[treated] to cover not only the ‘acid deposition’ defined by the Item 1 of the Instrument but also the specific air pollution issues which are caused by the target substances defined by Paragraph 2.

- (1). Item 2 Objectives and Scope**
- (2). Item 3 Principles**
- (3). Item 4 Monitoring and Reporting**
- (4). Item 5 Assessment**
- (5). Item 6 Research Activities,**
- (6). Item 8 Public Awareness**
- (7). Item 9 Exchange of Information**
- (8). Item 10 Intergovernmental Meeting**
- (9). Item 12 Scientific Advisory Committee**
- (10). Item 13 Network Center**

Note for WG consideration:

- *Items 7, 11, 14, 15, 16 and 17 do not refer the words ‘Acid deposition’, so that these Items also cover expanded scope specified in the Supplementary Document.*
- *WG-2 may wish to visit each paragraph of the Instrument which contains term ‘acid deposition’, one by one, and consider whether it shall be covered by this paragraph or not.*

Article 7 <Optional>

~~[Even before all written consent submitted,] some activities expanded by this document could be selected and implemented as non-core activities by the decision of IG on the Annual Program and Budget or through individual approval process of proposed project activities, once two thirds of Participating Countries have submit their written consent.~~

Note for WG considerations: Article 7, to which controversial comments submitted, is not necessary since the Supplementary Documents will be effective or enter into force with the decision of IG23 solely.

6. This Supplementary Document can be revised ~~time to time~~ by the IG decision as appropriate, based on written proposals from any Participating County.

7. This Supplementary Document will be effective once IG has adopted.

Note for WG considerations: Article 7, to which controversial comments submitted, is not necessary since the Supplementary Documents will be effective or enter into force with the decision of IG23 solely.

(Following two Tables are not necessary if ALTERNATIVE B is agreeable)

**Attachment -1: Table-1 : The expanded scope of the EANET
(ALTERNATIVE A-Table 1)**

Target Substances	Group of Activities																
	Monitoring			Emission Inventory (EI)			Modeling			Impact Assessment (on ecosystem)			Technology		Provision of Inputs to Policies/Regulations	Public Awareness	
	Monitoring	Capacity building	Research	Development of EI	Capacity building	Research	Development/application of Model	Capacity Building	Research	Assessment	Capacity Building	Research	Technology transfer	Provision of Information			
SO2	*	*	*	-	*	X	-	X	X	*	*	*	X	X	*	*	
NOx	*	*	*	-	*	X	-	X	X	*	*	*	X	X	*	*	
NH3	*	*	*	-	*	X	-	X	X	*	*	*	X	X	*	*	
PM (mass)	PM2.5	*	*	*	-	*	X	-	X	X	*	*	*	X	X	*	*
	PM10	*	*	*	-	*	X	-	X	X	*	*	*	X	X	*	*
	TSP	*	*	*	-	*	X	-	X	X	*	*	*	X	X	*	*
Tropospheric Ozone	*	*	*	-	-	-	-	X	X	*	*	*	X	X	*	*	
PM (Inorganic ions, metallic element, organic Aerosols)	*	*	*	-	-	-	-	X	X	*	*	*	-	-	*	*	
Precipitation Chemistry (ions, pH, EC)	*	*	*	-	-	-	-	X	X	*	*	*	-	-	*	*	
CO	-	-	-	-	*	X	-	X	X	-	-	-	X	X	-	-	
NM VOC	-	-	-	-	*	X	-	X	X	-	-	-	X	X	-	-	
CH4	-	-	-	-	-	X	-	X	X	-	-	-	-	-	-	-	
Black Carbon	-	-	-	-	*	X	-	X	X	-	-	-	-	-	-	-	

LEGENDS

*: Scope already covered by the Instrument

X: Additional scope defined by this Supplementary Documents

-: Not applicable

Notice: Either ‘*’ or ‘X’ does not necessarily mean that it requires all Participating Countries’ engagement.

Note for WG considerations: The table was revised by eliminating rows for Mercury, POPs and HFCs, which are covered by multilateral environmental agreements/conventions.

LEGENDS are improved based on the comments.

Attachment-2: Table-2 : Indicative list of examples of the activity under each category of the Table-1

(ALTERNATIVE A-Table 2)

Category	Sub-category	Example of activity
1. Monitoring	Regular monitoring	Implementing monitoring
	Capacity building	Organizing workshops/seminars
		Training of QA/QC
Research activity	Promotion of studies	
2. Emission Inventory	Development	Development of emission inventory
	Capacity building	Organizing workshops/seminars
		Training for development of emission inventories in each country
Research activity	Promotion of studies on trend and status	
	Development of country specific emission factors for Emission Inventory	
3. Modelling	Development/application	Development/ application of modeling
	Capacity building	Organizing workshops/seminars
	Research activity	Promotion of atmospheric simulation studies such as estimation of the source of air pollution, assessment of trend, ecological impacts
4. Impact Assessment	Assessment	Implementing impact assessment
	Capacity building	Organizing workshops/seminars
		Training for implementation of assessment
	Research activity	Promotion of studies
5. Technology	Technology Transfer	Technical demonstration project
	Provision of information	Organizing workshop/seminar to exchange information

Note for WG considerations: The table-2 may not be a part of the Supplementary Document, since it represents indicative activities for better understandings.

This table may be included in discussion materials for WG, SAC and IG, and not for negotiation.

(ALTERNATIVE B-Table 1 : The expanded scope of the EANET)

Target Substances		Item 4 Monitoring and Reporting	Item 5 Assessment	Item 6 Research Activities	Item 7 Education and Training	Item 8 Public Awareness	Item 9 Exchange of Information
SO ₂		*	*	*	*	*	*
NO _x		*	*	*	*	*	*
NH ₃		*	*	*	*	*	*
PM (mass)	PM _{2.5}	*	*	*	*	*	*
	PM ₁₀	*	*	*	*	*	*
	TSP	*	*	*	*	*	*
Tropospheric Ozone		*	*	*	*	*	*
PM (inorganic ions, metallic elements, and organic aerosols)		*	*	*	*	*	*
Precipitation Chemistry (ions, pH, EC)		*	*	*	*	*	*
CO		—	—	X	X	X	X
NMVOC		—	—	X	X	X	X
CH ₄		—	—	X	X	X	X
Black carbon		—	—	X	X	X	X

Exception: The statements of Item 4.2, 4.3 and 4.4

LEGENDS

*: Scope already covered by the Instrument

X: Additional scope defined by this Supplementary Documents

-: Not applicable

Note for WG considerations: The table was revised by eliminating rows for Mercury, POPs and HFCs, which are covered by multilateral environmental agreements/conventions.

LEGENDS are improved based on the comments.

(ALTERNATIVE B-Table 2)

Item of the Instrument	Sub-item	Example of Activity
Item4) Monitoring and Reporting	Monitoring	PCs will implement and strengthen monitoring.
	QA/QC program	Implementing QA/QC programs by NC & PCs
	Data submission and its analyzing	Monitoring data and other information submitted by PCs will be compiled, stored and analyzed by the NC.
	Data providing	Compiled data and other information will be provided to individuals, organizations and non-member countries, in accordance with the procedures adopted by the IG.
Item 5) Assessment	Assessment	Submitted monitoring data and other information will be analyzed, evaluated and assessed.
	Development of reports	Periodic assessment reports will be prepared based on the data reports, disseminated and made available to the public.
Item 6) Research Activity	-	Promote studies on scientific issues related to monitoring, emission inventory, modeling and impact assessment.
	-	Collaboration should be promoted with other international monitoring networks and programs.
Item 7) Education and	-	PCs, in collaborating with the NC and SEC, will promote and cooperation in developing and implementing education/training programs related to monitoring, emission

Training		inventory, modeling and impact assessment.
Item 8) Public Awareness	-	PCs will promote and cooperate in development and implementation of public awareness programs
	Accessibility	PCs will promote and cooperate in improvement of public access to information.
Item 9) Exchange of Information	-	PCs will promote and cooperate in the exchange of information including scientific, technological, technical measures such as monitoring, emission inventory, modeling, impact assessment, technology, policies and regulations.
	-	PCs will also promote and cooperate in the exchange of information including socio-economic and legal information as well as information on administrative measures.

Reference for WG consideration:

Except for the items included in ALTERNATIVE B-Table 1, the original Instrument of the EANET contains the following items as well.

Item 1 Definition

Item 2 Objectives and Scope

Item 3 Principles

Item 10 Intergovernmental Meeting

Item 11 Secretariat

Item 12 Scientific Adversary Committee

Item 13 Network Center

Item 14 Financial Arrangement

Item 15 Revisions or Modifications

Item 16 End of Participation

Item 17 Participation of Other Countries