

Agenda for the Third Meeting of the  
**WORKING GROUP ON WATER MANAGEMENT IN WATER STRESSED REGIONS**  
**(Erstwhile WG-IADWS) WG-DROUGHT**  
**Yogyakarta, Indonesia**  
**11 October 2010 – 13:30:17:00 hours**  
*Strategy Theme : Basin*

**Date of Establishment : 2008**

**Completion of the Mandate : 2014**

**Mandate:**

- (i) Drought Management Strategies: To capture field experiences of the implementation of drought risk management strategies.
- (ii) Coping with water scarcity
  - Critical evaluation of the validity of the crop water requirement computations based on climate data as a tool to be used in coping with water scarcity;
  - Approaches and strategies for incorporating economical justification when deciding on the amount of water to be allocated for agricultural production;
  - Re-defining, as necessary, the conventional irrigation efficiency concept;
  - Design, operation and maintenance of sand dams – Under-ground water reservoirs.
- (iii) Rainfall management for sustainable agriculture: Innovation and implementation of smart rainfall management technologies.

**Members:** (1) Vice President Hon. Franklin E. Dimick (USA, 2009), Chairman; (2) Mr. Mohammad Sadegh Jafari (Iran, 2009), Vice-Chairman; (3) Dr. Abraham Mehari Haile (The Netherlands, 2009), Secretary; (4) Vice President Hon. Dr. S. Nairizi (Iran, 2008); (5) Dr. Ragab Ragab (UK, 2008); (6) Mrs. Jianxin Mu (China, 2008); (7) Vice President Hon. Dr. Hussein El-Atfy (Egypt, 2008); (8) Mr. Anthony John Horton (Australia, 2008); (9) Mr. Graziano Ghinassi (Italy, 2008); (10) Dr. T. Watanabe (Japan, 2008); (11) Prof. Chang-Chi Cheng (Chinese Taipei, 2008); (12) Dr. T.B. S. Rajput (India, 2009); and (13) Secretary General, ICID.

**Item 1 : Confirmation of the minutes of the 2<sup>nd</sup> meeting of the WG-DROUGHT**

The minutes of the 2<sup>nd</sup> meeting held at New Delhi (2009), India will be confirmed during the meeting.

**Item 2 : Review of membership**

The nominations of Dr. Kiwood Park (Korea); Dr. Polevoy Anatoliy (Ukraine); Dr. Teodoro Estrela Monreal (Spain); Engr. Qazi Tallat Mahmood Siddiqui (Pakistan); and Dr. Benjamin de León Mojarro (Mexico) were deferred during New Delhi (2009) meeting, since they were neither present nor represented during the WG meeting. The Central Office invited (30 April 2010) the concerned National Committee to confirm above nomination or send a fresh nomination.

In response, Pakistan National Committee of ICID (PANCID) has nominated (11 June 2010) Dr. Abdul Razzaq Ghumman (Pakistan) in place of Engr. Qazi Tallat Mahmood Siddiqui. Dr. Abdul Razzaq's CV will be made available during the WG meeting.

Responses from other National Committees are awaited.

**Item 3 : WG-IADWS (erstwhile) publication – “Irrigation under Drought and Water Scarcity”**

The publication of the WG-IADWS document is long pending. The issue was discussed during the New Delhi (2009) meeting. It was decided that the document would be reviewed by the members of the erstwhile WG-IADWS to make sure that the separate contributions are linked together in the document properly and for their approval to the document. All comments must be submitted to former Chairman Dr S. Nairizi (Iran) in early 2010. Contributors were expected to update their references as well.

The Central Office once again circulated (30 April 2010) the final document (draft) to authors of the concerned chapters to improve/reshape as appropriate and provide their comments and/or suggestions.

In response, Dr. D.K. Paul (erstwhile member from India) submitted revised version of Chapter on *‘Drought Indices and Impacts on Agricultural, Ecological, Social, and Economical Issues’* by D. K. Paul, S. Nairizi, and H. Siadat to Central Office which has been forwarded to VPH Dr. Nairizi for compiling it together with other Chapters. Responses from other members are awaited.

The Chairman may apprise the members.

**Item 4 : Drought Management Strategies**

The issue was discussed during the New Delhi (2009) meeting and the following issues were brought to fore:

- Identifying drought management strategies
- Short term strategies and long term strategies need to be developed.
- Effects on society need to be considered in addition to the engineering aspects of drought management strategies.
- Water marketing must also be included in developing drought management strategies.
- Fish and wildlife and environmental concerns must also be included in developing drought management Strategies.
- Compilation of case studies would benefit the development of drought management strategies.
- Any long term strategy must include predictions of climate change effects.
- Environmental consequences of droughts must be considered when developing drought management strategies.
- Field experiences of the implementation of drought risk management strategies
- Legislative and policy making experiences may be considered

A team leader needs to be identified to lead and organize activities under this Item.

**Item 5 : Coping with Water Scarcity**

Some ideas on how to pursue some activities under this item came up during New Delhi (2009) meeting as below:

- Re-allocation of water during droughts will have legal ramifications due to water rights, etc.
- There is a need to clarify how irrigation efficiency is determined and its validity.
- Case studies would be helpful in compiling ideas on how to conserve water. The compilation and studying of these case studies may result in developing new concepts on irrigation practices.

Some new ideas (VPH Franklin E. Dimick) could be:

- Validation and credibility of the appropriate computational methods of crop water requirement most adaptable to water stressed regions.
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- Design criteria and practices of irrigation and drainage systems in water stressed regions.
- Existing international practices and experiences in modification and improvement of irrigation methods in water stressed regions.
- Existing international practices and experiences in collection and making use of non-conventional waters in irrigation in water stressed regions.

A team leader needs to be identified to lead and organize activities under this Item.

**Item 6 : Rainfall Management for Sustainable Agriculture**

The following issues were highlighted by Mr. Jafari (Iran) during the New Delhi (2009) meeting – (i) how to approach the Rainfall Management for Sustainable Agriculture, (ii) collecting data on how much rainfall is used in irrigated and non-irrigated crops, (iii) quantifying effective rainfall in crop production together with how to improve its effectiveness through technology, (iv) the need to change the cropping practices to effectively utilize the rainfall and, (v) the need to document the successful studies in rainfall management.

The Central Office requested (06 July 2010) members of the WG to send their comments / suggestions on the above issues for fruitful discussions during the Yogyakarta (2010) meeting. Their contributions (papers / reports etc.) on the above issues were welcomed. Responses are awaited.

Some new ideas (VPH Franklin E. Dimick) could be: (i) introducing new practices and experiences in rainfall management, including; cloud seeding, cloud harvesting, fog trapping, and fog harvesting, and (ii) Introducing experiences and practices in increasing rainfall effectiveness in supplying crop water requirement (i.e. rainfall forecasting and adapting irrigation system operation practices and its structural and managerial requirements).

A team leader needs to be identified to lead and organize activities under this Item.

**Item 7 : Product or output of the Working Group**

The WG may consider producing: (a) One final report or individual final reports on each of the items above and/or (b) Intermediate reports on each of the items above.

Chairman may apprise members.

**Item 8 : Development of a timeline for completion of mandate**

The WG may consider developing a three year rolling work plan to focus on proposed WG activities.

**Item 9 : Any other business**

**UNCCD Seminar in Stockholm**

The Secretariat of the United Nations Convention to Combat Desertification (UNCCD) in collaboration with Stockholm Environment Institute (SEI) will be organizing a seminar on 05 September 2010 (14:00-17:30 hours) during Stockholm Water Week. The specific title of the seminar will be “*Sustainable Land Management Secures Drylands Water Quality*”.

A brief description of the seminar is available at:

[http://www.worldwaterweek.org/sa/node.asp?node=750&sa\\_content\\_url=%2Fplugins%2FEventFinder%2Fevent%2Easp&id=3&event=244](http://www.worldwaterweek.org/sa/node.asp?node=750&sa_content_url=%2Fplugins%2FEventFinder%2Fevent%2Easp&id=3&event=244).

The members are encouraged to browse through the material available at above link and possibly contribute to the seminar.

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