

Draft Programme for the International Workshop Environmental Flows Assessment and Implementation for India Exchanging Indian, European and International Experiences

21-22 October 2019, New Delhi, India / Venue: Hotel Claridges (Dr APJ Abdul Kalam Rd,
Aurangzeb Road, New Delhi 110011)

Day 1, 21 October 2019

Time	Programme Item	Speaker
09:00–10:00	Registration	
Session 1: Inaugural Session		
10:00-10:20	Welcome notes	Mr. Rajiv Ranjan Mishra NMCG Mr. U. P. Singh Secretary, Dept of WR, RD and GR; Ministry of Jal Shakti Mr. Dirk Steffes-enn Deputy Head of Economic Cooperation and Development, German Embassy India Ms Martina Burkard Head of Programme, GIZ Mr Edwin Koekkoek Counsellor Energy & Climate Action, EU Delegation to India
10:20-10:25	Aims and purpose of the workshop	Ms. Birgit Vogel / IEWP/GIZ
Session 2: Setting the Scene: Legal and Institutional Context of E-Flows		
10:25-10:50	<i>Keynote presentation:</i> The global context of E-Flows, assessment tools, its importance in water resources planning and an outlook on the issue of transferability	Mr. Stefan Schmutz University of Natural Resources and Life Sciences
10:50-11:00	Q & A	Facilitator
11:00-11:15	Water resources management and challenges in India in the context of E-Flows: status quo and the way towards future implementation	Mr. A. K. Gosain IIT Delhi
11:15-11:30	Governmental settings and the context of implementation in India	Mr. Bhopal Singh Central Water Commission
11:30-11:45	Q & A	Facilitator
11:45-12:00	E-flows in the Ganga River Basin: Legal framework, challenges and implementation	Mr. D. P. Mathuria NMCG

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12:00-12:15	Implementation of environmental legislation: E-Flows under the EU Water Framework Directive	Ms. Rafaela Schinegger <i>University of Natural Resources and Life Sciences</i>
12:15-12:30	The role of multi-stakeholder partnerships in developing and testing E-flows approaches in India	Mr. Suresh Babu <i>WWF India</i>
12:30-12:45	Q & A	Facilitator
12:45-13:45	Lunch	
Session 3: Linking Hydrology with Ecology and Socio-economics for Integrated E-Flows Assessment		
13:45-14:00	Understanding natural flow patterns and hydrological alteration as an essential basis for E-Flows assessment	Mr. Daniel S. Hayes <i>University of Natural Resources and Life Sciences</i>
14:00-14:15	The effects of flow alteration on ecology, geomorphology and water quality	Mr. Michael McClain <i>IHE Delft Institute for Water Education</i>
14:15-14:30	Flow alteration and specific environmental impacts in India with focus on the Ganga river basin	Mr. Himanshu Thakkar <i>SANDRP</i>
14:30-14:45	Q & A	Facilitator
14:45-15:00	River Ecology with special focus on flow - species ecology relationships for Himalayan and Central Indian rivers	Mr. Jeyaraj Antony Johnson <i>Wildlife Institute India</i>
15:00-15:15	Species ecology of Indian river deltas and their role in establishing E-Flows	Mr. Amiya Sahoo <i>Central Inland Fisheries Research Institute</i>
15:15-15:30	The role of socioeconomics and cultural ecosystem services for E-Flows assessment (visions and objectives for the river system)	Mr. Vinod Tare <i>IIT Kanpur</i>
15:30-15:45	Environmental flows in the context of food security and irrigated agriculture	Ms. Rebecca E. Tharme <i>Riverfutures</i>
15:45-16:00	Q & A	Facilitator
16:00-16:30	Coffee break	

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Session 4: Moderated Panel Discussion

16:30-16:40	Impulse presentation	Ms. Cate Brown <i>University of the Western Cape</i>
16:40-17:40	E-flows in water resources management – status quo, benefits and challenges globally and in India	Moderation: IEWP/GIZ PMU / BOKU Panel members: 1. D. P. Mathuria 2. Bhopal Singh 3. Suresh Babu 4. A. K. Gosain 5. Cate Brown 6. Rebecca E. Tharme 7. Stefan Schmutz
17:40-17:50	Wrap up of Day 1 and quick overview of day 2	Ms. Birgit Vogel, <i>IEWP/GIZ</i>
Evening: Networking dinner		

Day 2, 22 Oct. 2019

Time	Agenda Item	Speaker
10:00-10:05	Opening remarks for day 2	Facilitator
10:05-10:15	Reflections on day 1	Mr. Michael McClain & Ms Jyoti Nale
Session 5: E-Flow Assessment: Tools to Determine How Much Water a River Needs		
10:15-10:30	Evolution and overview of E-Flows assessment principles and methodologies	Ms. Cate Brown <i>University of the Western Cape</i>
10:30-10:50	Physical habitat modelling and ecohydrological tools	Mr. Piotr Parasiewicz <i>S. Sakowicz Inland Fisheries Institute</i>
10:50-11:05	Joint development of a methodology to assess E-Flows in India under the India-EU Water Partnership: Pilot testing results in Ramganga Sub-Basin	Ms. Jyoti Nale <i>IEWP/GIZ PMU</i>
11:05-11:20	Q & A	Facilitator
11:20-11:35	Short coffee break	
11:35-11:50	Experiences of assessments in Indian River Basins – Himalayan and Sub-Himalayan case studies	Mr. N. N. Rai <i>Central Water Commission India</i>
11:50-12:05	Assessment of E-Flows in Bhutan: E-Flows Guideline and its implementation	Ms. Karma Yangzom Dorji <i>ChhimiD Consulting</i>
12:05-12:20	Socio-cultural parameters in the Indian E-Flows context	Mr. Manu Bhatnagar <i>INTACH</i>
12:20-12:35	Q & A	Facilitator
12:35-12:45	Outline of the interactive afternoon session	Facilitator
12:45-13:45	Lunch	

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Wildlife Institute of India

Time	Agenda Item	Speaker
Session 6: Breakout sessions: Blending European, International and Indian Expertise for E-Flows Assessment in India		
13:45-15:05	Group sessions and coffee break Topics/questions:	Moderated by international & national experts
	1. What are key targets for E-Flows assessment in India?	International expert: Stefan Schmutz National experts: Bhopal Singh/N. N. Rai Rapporteur: CWC AD/DD
	2. Challenges regarding E-Flows assessment data for hydrological, ecological & socio-economic aspects? What are priorities for short & long-term implementation?	International experts: Michael McClain, Karma Yangzom Dorji National experts: Vinod Tare Rapporteur: Jyoti Nale
	3. How can E-Flows practically be incorporated into integrated water management in India? How can existing institutional setups serve to advance E-Flows implementation?	International experts: Daniel S. Hayes, Birgit Vogel National experts: D. P. Mathuria, Jyoti Nale Rapporteur: NMCG
	4. How can success be defined? What approaches are necessary to guide evaluation and investment?	International experts: Piotr Parasiewicz, Rebecca Tharme National expert: Rishi Srivastava, A.K. Gosain Rapporteur: Mr. Vikrant Tyagi
15:05-15:45	Reporting back from the tables	Facilitator
15:45-16:15	Coffee break	
Session 7: Remaining Challenges and Way Forward		
16:15-16:25	Summary of lessons learned and key messages	Stefan Schmutz (supported by IEWP/GIZ PMU)
16:25-17:25	Moderated Panel Discussion: Advancing E-Flows science and implementation in India	Moderation: IEWP/GIZ PMU/ BOKU. Panel members: 1. Ministry Jal Shakti/CWC 2. Mr. Rajiv Ranjan Mishra 3. D. P. Mathuria 4. Michael E. McClain 5. Piotr Parasiewicz; 6. tbd
17:25-17:35	Closing remarks	Mr. Rajiv Ranjan Mishra <i>National Mission for Clean Ganga</i> Ms Henriette Faergemann, <i>First Counsellor, EU Delegation</i>
17:35-17:40	Closure of the workshop	Ms. Martina Burkard, GIZ Ms. Birgit Vogel, IEWP/GIZ PMU

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