

BUREAU OF INDIAN STANDARDS
(WATER RESOURCES DEPARTMENT)
AGENDA

Small Hydropower Plants Sectional Committee, WRD 29			Fifth Meeting
Day and Date	Time	Venue: Virtual Meeting	Contact details
Friday, 22 November 2024	03:00 PM	Meeting link: https://bismanak.webex.com/bismanak/j.php?MTID=m07477002bb01418a688bf16a47aa3f8c	wrd@bis.gov.in
CHAIRPERSON: PROF. ARUN KUMAR, HYDRO AND RENEWABLE ENERGY DEPARTMENT, IIT ROORKEE		MEMBER SECRETARY: SHRI VAIBHAV JINDAL, ASSISTANT DIRECTOR, BIS	

ITEM 0 WELCOME AND INTRODUCTORY REMARKS BY THE CHAIRPERSON

ITEM 1 CONFIRMATION OF THE MINUTES OF THE PREVIOUS MEETING

The 4th meeting of WRD 29 was held on 09 August 2024 and the minutes duly approved by the Chairperson were circulated to members vide BIS email dated 02 September 2024. No comments have been received on the circulated minutes.

The Committee may CONFIRM the minutes as circulated.

ITEM 2 COMPOSITION OF THE COMMITTEE

2.1 The present composition along with attendance details of the last three meetings of the Committee is given in **Annex A**.

The Committee may NOTE.

ITEM 3 PANELS UNDER WRD 29 SECTIONAL COMMITTEE

3.1 Small Hydropower Plants – General Panel (WRD 29: P01)

The scope and composition of the Panel P01 is given at **Annex B**.

The Committee may NOTE.

3.2 Small Hydropower Plants - Civil Works (WRD 29: P02)

The scope and composition of the Panel P02 is given at **Annex C**. The Panel in its 3rd meeting co-opted Shri C. P. Bhatnagar, Ghaziabad, In Personal Capacity to the Panel.

The Committee may NOTE.

3.3 Small Hydropower Plants – Electro-mechanical Works (WRD 29: P03)

The scope and composition of Panel P03 is given in **Annex D**.

The Committee may NOTE.

ITEM 4 CIB BALLOT OF ISO/TC 339 SMALL HYDROPOWER PLANTS

4.1 Ballot: draft Resolution 4/2024 (ISO/TC 339)

The following draft resolution has been launched for a CIB with a voting period from November 02 - November 30, 2024 (4 weeks).

“ISO/TC339 resolves to create ISO/TC 339 WG1 with the title " Vocabulary". Proposed Convenor is Dr. CUI Zhenhua (CN, zhenhuacui1225@qq.com) with a 3 -year term (December 2024- November 2027). The approved work item 25259 is allocated to this group.”

Please find the attached CV of the proposed Convenor, Dr. CUI Zhenhua given in **Annex E**.

Questions and answers		
No.	Questions	Possible Answers
1.	Do you approve the above draft Resolution 4/2024 of ISO/TC339?	Yes No * Abstain
(*) A Comment is required for this answer value.		

The Committee may NOTE and DECIDE.

ITEM 5 ISO/TC 339 CALL FOR EXPERTS FOR THE WG1 VOCABULARY

The Secretariat of ISO/TC339 has initiated the Call for Experts for WG 1 "Vocabulary" on 4 November 2024. The National Member Bodies have been requested to nominate interested experts to this group via the ISO Global Directory (ISO GD). The Committee in its 3rd meeting had nominated Prof. S. K. Singal, IIT Roorkee as an expert from BIS (India) for the aforementioned project/working group.

The Committee may NOTE and DECIDE.

ITEM 6 ANY OTHER BUSINESS

6.1 Date and venue of the next meeting.

The Committee may DECIDE.

ANNEX A(Item 2.1)**Composition of Small Hydropower Plants Sectional Committee WRD 29**

Scope: Standardization in the field of site selection, planning, design, construction and management for Small Hydropower plants.

Last 3 Meetings		2 nd meeting —15 April 2024	3 rd meeting —10 May 2024	4 th meeting —09 August 2024		
SL. No.	NAME OF THE ORGANIZATION	REPRESENTED BY	MEETINGS ATTENDED			
			2 nd	3 rd	4 th	
1)	Indian Institute of Technology Roorkee, Roorkee	Prof Arun Kumar (Chairman)	Y	Y	Y	
2)	Andritz Hydro Private Limited, Faridabad	Shri Divyankur Aggarwal, General Manager Compact Hydro Compact Hydro Shri Itishree Mohanty General Manager compact Hydro Compact Hydro (Alternate) Smt. Swetharnyan G, Manager (Alternate)	Y	Y	X	
3)	Bangalore Hydro Engineers & Consultants Private Limited, Bangalore	Shri S.N. Subramaniam, Managing Director Shri Ravindra S Kashyap, CEO (Alternate)	Y	X	X	
4)	Bhilangana Hydro Power Limited, Noida	Shri Rajesh Kumar Jindal, Chief Executive Officer Shri Liladhar Pandey, Project Manager (Alternate)	-	-	Y	
5)	Central Water Commission, New Delhi	Smt K Rekha Rani, Director, HCD (E&NE) Shri Narendra Singh Shekhawat, Director, HCD (N&W), CWC (Alternate)	Y	Y	Y	

6)	Central Water and Power Research Station, Pune	Shri M. K. Verma, Scientist D Shri Kiran T More, Scientist C (Alternate)	Y	Y	Y
7)	Federation of Indian Small Hydro Power, Delhi	Shri Sumeet Mazumdar, CEO	X	X	Y
8)	Flovel Energy Private Limited, Faridabad	Shri Deepak Raj Pokharna, Senior Manager - Design and Engineering Shri Pradeep Kumar, Deputy General Manager - Design and Engineering (Alternate)	Y	Y	Y
9)	Geological Survey of India, Kolkata	Shri Ravi Negi, Superintending Geologist Shri Praveen Kumar, Superintending Geologist (Alternate)	Y	X	X
10)	GREENKO Group, Hyderabad	Shri Pradeep Gupta, Sr. GM	Y	Y	X
11)	Himachal Pradesh Power Corporation Limited	Shri Rajender Singh Jamwal, AGM (Civil)	X	Y	X
12)	IIT Roorkee, Department of Hydro and Renewable Energy, Roorkee	Shri Sunil Kumar Singal, Professor Shri C S Pant, Assistant Professor (Alternate) Shri Himanshu Jain, Assistant Professor (Alternate)	Y	Y	Y
13)	Jadhavpur University, Kolkata	Dr. Apurba Kumar Santra, Professor	-	-	Y
14)	Jammu and Kashmir State Power Development Corporation, Srinagar	Shri Mubashir Rasool, AGM (Civil) Smt Priya Gupta, AGM (Electric) (Alternate)	Y	Y	Y
15)	Maulana Azad National Institute of Technology, Bhopal	Shri Vishnu Prasad, Professor	Y	Y	Y

16)	Ministry of New and Renewable Energy, New Delhi	Shri S. K. Shahi, Scientist E, MNRE (Small Hydro Power Division) Shri Hiren Chandra Borah, Scientist E, MNRE (Standards & Quality Control Division) (Alternate) Shri Rajkumar Bhawariya, Scientist B (Standards & Quality Control and Small Hydro Power Division) (Alternate)	Y	Y	Y
17)	National Institute of Technology, Hamirpur	Shri Varun, Associate Professor Shri V S Dogra, Associate Professor (Alternate)	Y	Y	Y
18)	North Eastern Electric Power Corporation Limited, Shillong	Shri Dipjyoti Sarma, Dy. General Manager (Tech.) Shri Bibekananda Kalita, General Manager (Tech.) (Alternate)	X	X	X
19)	National Hydroelectric Power Corporation, Faridabad	Shri Sandeep Batra, Group General Manager (Civil)	Y	Y	X
20)	Odisha Hydro Power Corporation Limited, Bhubaneswar	Shri Malaya Kanta Swain, AGM (Elect.)	Y	X	Y
21)	Punjab Energy Development Agency, Chandigarh	Shri M.P. Singh, Director Shri Kulbir Singh Sandhu, Joint Director (Alternate)	Y	Y	Y
22)	Sai Eternal Foundation, Shimla	Shri Raj Kumar Verma, Founder-cum-Director	-	-	Y
23)	Uttarakhand Jal Vidyut Nigam Limited, Dehradun	Shri Ajay Patel, General Manager (SHP) Shri Manoj Kumar Kesarwani, Dy. General Manager (Civil) (Alternate)	Y	Y	Y

24)	Uttarakhand Pollution Control Board, Dehradun	Shri Parag Madhukar Dhakate, Member Secretary Shri Ankur Kansal, Environment Engineer (Alternate)	-	-	Y
25)	Voith Hydro Private Limited, Noida	Shri Adit Kumar Shah, Assistant General Manager Shri Ravi Kumar Taunk, Deputy General Manager (Alternate)	Y	Y	Y

ANNEX B

(Item 3.1)

Scope of Small Hydropower Plants – General (WRD 29: P01):

Standardization of vocabulary, site selection, layout, site investigation, report preparation, economic & financial Planning, environmental impact and model contract documents for small hydropower projects.

Composition of Small Hydropower Plants – General (WRD 29: P01)

1. Shri Raj Kumar Verma, Sai Eternal Foundation, Shimla, **Convenor**
2. Shri Ravi Negi, GSI, Dehradun
3. Shri Praveen Kumar, GSI, Jammu& Kashmir
4. Dr. Vishnu Prasad, MANIT Bhopal
5. Ms. K Rekha Rani, Central Water Commission, New Delhi
6. Dr. Sunil Kumar Singhal, IIT Roorkee
7. Shri Ajay Patel, UJVN Limited
8. Shri Sumeet Mazumdar, Federation of Indian Small Hydro Power, Delhi
9. Shri Rajesh Kumar Jindal, Bhilangana Hydro Power Limited, Noida

ANNEX C

(Item 3.2)

Scope of Small Hydropower Plants- Civil Works (WRD 29: P02):

Standardization of hydraulic & structural design, technical specifications, construction, maintenance for civil & hydro-mechanical works of small hydropower projects.

Composition of Small Hydropower Plants- Civil Works (WRD 29: P02)

1. Dr. Sunil Kumar Singal IIT Roorkee, **Convener**
2. Ms. K Rekha Rani, Central Water Commission, New Delhi
3. Shri M. K. Verma, Central Water and Power Research Station, Pune
4. Shri S. N. Subramaniam, Bangalore Hydro Engineers & Consultants Private Limited, Bangalore
5. Shri Sumeet Mazumdar, Federation of Indian Small Hydro Power
6. Shri Ajay Patel, UJVN Limited
7. Shri Sandeep Batra, NHPC Faridabad
8. Shri Mubashir Rasool, J& K State Power Development Corporation, Srinagar
9. Shri Raj Kumar Verma, Sai Eternal Foundation, Shimla
10. Shri C. P. Bhatnagar, Ghaziabad, In Personal Capacity

ANNEX D

(Item 3.3)

Scope of Small Hydropower plants – Electro-mechanical Works (WRD 29: P03):

Standardization of electro-mechanical works including generating units, auxiliaries, automation, power evacuation, operation & maintenance and renovation of small hydropower projects.

Composition of Small Hydropower plants – Electro-mechanical Works (WRD 29: P03)

1. Shri Adit Kumar Shah, Voith Hydro Private Limited, Noida, **Convener**
2. Dr. C S Pant, IIT Roorkee.
3. Shri Deepak Raj Pokharna, Flovel Energy Private Limited, Faridabad
4. Shri M.P. Singh, Punjab Energy Development Agency, Chandigarh
5. Shri Divyankur Aggarwal, Andritz Hydro Private Limited, Faridabad
6. Shri Malaya Kanta Swain, Odisha Hydro Power Corporation Limited
7. Shri Pradeep Gupta, Greenko Group
8. Prof. Varun, NIT Hamirpur
9. Shri Ravi Kumar Taunk, Voith Hydro Private Limited