

BUREAU OF INDIAN STANDARDS

MINUTES OF 27th MEETING

TITLE OF THE COMMITTEE	DAY AND DATE	TIME VENUE
Geological Investigations & Subsurface Exploration Sectional Committee	19/05/2023	11:00 AM Hybrid
Chairperson: Dr. P.C. Nawani, In Personal Capacity	Member Secretary: Ajay Meena Sc B/Assistant Director BIS	

PARTICIPANTS:

Sl. No.	Name	Attendee Email
1.	Dr. P C NAWANI, In Personal Capacity	drnawanipc@gmail.com
2.	Shri Vipin Parihar, AFCONS	vipin.parihar@afcons.com
3.	Shri Heman Manchanda, AIMIL	hemanmanchanda@gmail.com
4.	Shri Laxmidhar Mohapatra, AIMIL	ldmohapatra@aimil.com
5.	Shri Rajender Goud Vaggu, AIMIL	rajendergoud@aimil.com
6.	Dr. J. K. Mohnot, CIMFR	jkmohnot@hotmail.com
7.	Shri Hari Dev, CSMRS	haridev@nic.in
8.	Dr. N.P. Honkanadavar, CSMRS	nphonkanadavar@gmail.com
9.	Shri Rohit Singh, CWC	rohitsingh-cwc@gov.in
10.	Shri Yogesh Kumar Gupta, CWC	yogeshguptaamu@gmail.com
11.	Shri V Chandrashekhar, CWPRS	vcssai@yahoo.com
12.	Joint Director, GERI	geri.nwrws@gmail.com
13.	Joint Director Irrigation, GERI	jtdir-irri-nwrws@gujarat.gov.in
14.	GM Designs, HPPCL	gmdesigns6612@gmail.com
15.	Shri Shovan Lal Chatteraj, IIRS	shovan@iirs.gov.in
16.	Dr R K Goel, In Personal Capacity	rkgoel15@gmail.com
17.	Shri Imran Sayeed, In Personal Capacity	sayeedimran2009@gmail.com

18.	Shri Arindom Chakraborty, NHPC	achakrabortynhpc@gmail.com
19.	Shri S L Kapil, NHPC	shyamkapil@gmail.com
20.	Shri Ajay Kumar Naithani, NIRM	anaithania@gmail.com
21.	Dr. Sanjay Rana, Parsons	sanjay@parsan.biz
22.	Shri Ajay Kumar, THDC	ajay_hbag@rediffmail.com
23.	PARTH SAMANI	samaniparth31@gmail.com
24.	Shri Vaibhav Jindal, BIS	Assistant Director WRD BIS

ITEM 0 OPENING REMARKS

The Chairperson welcomed all the members to the 27th meeting of the WRD 05 Sectional Committee. The Chairperson requested all the members to actively contribute and regularly participate in the meeting, in order to finalize the pending documents in the committee.

ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The Committee noted and confirmed the minutes of the 26th meeting of the Sectional Committee of WRD 05, which was held on 22nd September 2022. The minutes of the meeting, as approved by the Chairperson, were circulated to the members via email on 30th September 2022.

ITEM 2 COMPOSITION OF THE COMMITTEE

2.1 The Committee noted the present composition of the committee as given in Annex 1 of the agenda.

2.2 As decided in the last meeting, emails were sent to the following organizations for co-option in the committee, and replies are still awaited from the organizations.

S. No.	Organization	Remarks
1.	Irrigation and CAD Department, Govt. Of Telangana (For Co-option)	Not to pursue further with the Organization.

2.	IIT(ISM) (For Co-option)	Send email to HOD
3.	IIT INDORE	Send email to HOD

After deliberation, the Chairperson suggested to the Member Secretary to follow up by writing emails and manual letters to the heads of departments of the aforementioned organizations for their co-option. The Member Secretary also informed the Committee members about the Chairs established in these IITs and already contacted them for co-option.

2.3 Co-option of the following organizations approved in WRDC Meeting.

- NEEPCO
- SJVNL
- IIRS, Dehradun
- Dr. R. K. Goel (In Personal Capacity)

After deliberation during the meeting, the Chairperson suggested that the Member Secretary write an email to the aforementioned organizations requesting their co-option.

Dr. R. K. Goel has already been co-opted in a personal capacity.

The Committee **NOTED**.

2.3 Shri Shyam Lal Kapil, retired from NHPC, has expressed his desire to continue as a member in the sectional committee in a personal capacity.

The Committee **NOTED**.

2.4 The Chairperson suggested to the Member Secretary to follow up with the heads of departments of the following organizations, which have been consistently absent from the last three meetings.

- J&K STATE POWER DEVELOPMENT CORPORATION LIMITED

- NARMADA CONTROL AUTHORITY, INDORE
- UTTARAKHAND JAL VIDYUT NIGAM LTD., DEHRADUN

The Committee **NOTED**.

2.5 The Chairperson suggested to the Member Secretary to write an email to CVPPPL, requesting a nomination to increase the representation from Jammu & Kashmir.

The Committee **NOTED**.

2.6 Mr. Ajay Kumar (DGM, THDC India Limited) has requested to update his email address (ajaykumar@thdc.co.in) at the composition.

ITEM 3 TITLE, SCOPE & PROGRAMME OF WORK

The Committee **NOTED** the information placed at Annex II

ITEM 4 DOCUMENTS PUBLISHED

4.1 Doc. WRD 05 (15908) Amendment No. 1 to IS 13578: 2008 Subsurface Exploration for Barrages and Weirs – Code of Practice

The document has been published.

The Committee **NOTED**.

4.2 Doc WRD 05 (19981) WC Third Revision of IS 4464: 2020 Code of Practice for presentation of drilling information and core description in geotechnical investigation.

The document has been published.

The Committee **NOTED**.

5 DOCUMENTS FINALIZED

5.1 IS 7422 (Part 2) : 1974 Symbols and Abbreviations for use in Geological Maps

Selections and Subsurface Exploratory Logs Part 2 Igneous Rocks

The committee has discussed and decided to finalize the document.

The Committee **NOTED**.

5.2 IS 7422 (Part 3) : 1974 Symbols and Abbreviations for use in Geological Maps Selections and Subsurface Exploratory Logs Part 3 Sedimentary Rocks

The committee has discussed and decided to finalize the document.

The Committee **NOTED**.

5.3 IS 7422 (Part 4) : 1985 Symbols and Abbreviations for use in Geological Maps Selections and Subsurface Exploratory Logs Part 4 Metamorphic Rocks

The committee has discussed and decided to finalize the document.

The Committee **NOTED**.

5.4 IS 7422 (Part 5) : 1992 Symbols and Abbreviations for use in Geological Maps Selections and Subsurface Exploratory Logs Part 5 Lime Symbols for Formation Contacts and Structural Features

i) TABLE 8 SYMBOLS FOR SURFACE OPENING AND EXPLORATION FOR USE IN
LARGE SCALE MAPS [*CLAUSE 4.1 (a)*]

ii) TABLE 9 SYMBOLS FOR SURFACE OPENING AND EXPLORATION FOR USE IN LARGE
SCALE MAPS [*CLAUSE 4*]

The comment was discussed in the committee, and it was suggested that the Member Secretary should assess the feasibility of representing the figures in a combination of left and right, instead of top and bottom. If it is not possible, the Member Secretary should

include information about the figures represented in the top and bottom and provide a note below.

It was also pointed out by the committee that in Sl. No. 12, the Member Secretary should change the information mentioned as 50° 5 30° W to 50° S 30° W. After incorporating the aforementioned correction, the Member Secretary should finalize the document.

The Committee **NOTED**.

6 DOCUMENTS UNDER WIDE CIRCULATION

6.1 IS 7422 (Part 1) : 1974 Symbols and Abbreviations for use in Geological Maps Selections and Subsurface Exploratory Logs Part 1 Abbreviations

The modified draft received from GSI was wide circulated under document no. 21364 by waiving off P- Draft.

The comment received on wide circulation from Director, Flood Management-II Directorate, CWC is:
Clause 2.3.2.2 Table 2

Sl.No	FEATURE	ABBREVIATION
104	Wash boring	WB

Comment: In feature Wash boring; 'W' given as uppercase letter it should be as 'w' i.e lowercase letter.

The Committee deliberated in the meeting to send the document to GSI along with the comments received from CWC. It was also requested that GSI should verify other abbreviations that are made using uppercase letters.

The Committee **NOTED**.

5.6 IS 13216: 1991 Code of Practice for Geological Exploration for Reservoir Sites (Doc. No. 19982)

Comment received on 16-01-2023 from Director, Flood Management-II Directorate, CWC.
FOREWORD in Paragraph 3, second line; Subsequent upon revision of IS 10711, the standard has been...

Comment: The title for IS 10711 may be provided for reference

The Committee agreed to insert the title of IS 10711 in IS 13216 : 1991 in the foreword section in paragraph 3 for reference.

The comment received from Mr. Sanjay Rana, Managing Director, PARSAN overseas pvt. Ltd. :

“Geophysical investigations play a major role for exploration of reservoir sites. In the present document it has been passingly mentioned at couple of places, without giving references. I am enclosing the commented document herewith and would love to discuss it further in the next meeting, the issues identified by Mr. Sanjay Rana are highlighted in ANNEX III

It was also discussed in the Committee that Member Secretary should circulate the comment received from Mr. Sanjay Rana among the Committee members. The Committee will deliberate on the document in the next meeting.

The Committee **NOTED**.

7 DOCUMENTS UNDER P-DRAFT CIRCULATION

7.1 IS 15681 : 2006 Geological Exploration by Geophysical Method Seismic Refraction Code of Practice (First Revision)

The Committee discussed that the comment received from Mr. Sanjay Rana on the document should be circulated among the Committee members.

The Committee **NOTED**.

7.2 IS 15736 : 2007 Geological exploration by Geophysical Method (Electrical Resistivity) – Code of Practice

The Committee discussed that the comment received on the document from Mr. Sanjay Rana should be circulated among the Committee members.

The Committee **NOTED**.

8 COMMENTS ON PRINTED STANDARDS

8.1 IS 6955: 2008 Subsurface exploration for earth and rockfill dams - Code of practice (First Revision)

The Committee **NOTED** item 8.1 of the agenda. The committee observed the consolidated comments of CWPRS and NHPC on the document as placed before the committee. The committee deliberated on the comments and reviewed the existing standard. The draft document along with the partially resolved comments (blue color) and comments still under discussion (red color) was circulated along with the 25th meeting minutes. However, while having discussions on the pending comments, it was felt that more time is required to the members for review of comments.

The Committee therefore constituted an Ad Hoc Panel of the following members and requested them to review the document within next 2 months. BIS Secretariat informed the panel members for all assistance and further requested panel for a virtual meeting if required to finalize the document. The Member Secretary requested members to give their comments on the circulated document so that collated comments can be placed before the panel for deliberation.

1. Dr. Gopal Dhawan IN PERSONAL CAPACITY , (Convenor)
2. Shri. Sanjay Rana M/S PARSAN OVERSEAS LTD
3. Shri P K Gajbhiye GSI
4. Shri Shyam Lal Kapil NHPC FARIDABAD
5. Shri Imran Sayeed IN PERSONAL CAPACITY

After deliberation in the Committee, the members requested some more time to prepare the draft document. They also suggested including CFRD for this draft preparation and also co-opting a NHPC member. The Committee agreed to these suggestions.

The Committee **NOTED**.

9 Standards due for review

After deliberation in the Committee, it was decided that the Member Secretary should circulate the standards that are due for review in the financial year 2023-24. so that members can provide their comments and it can be discussed in the next meeting.

Regarding IS 5529 Part 2, Shri Arindom Chakraborty, NHPC and Mr. Parth Samani have shown interest in revising the Indian standards. It was decided that the Member Secretary should assign the review task to Mr. Parth Samani.

The Committee **NOTED**.

10 Pre – 2000 Standards

The Chairperson suggested to the Member Secretary to circulate the list of those standards that need to be revised.

The Committee **NOTED**.

The Committee meeting ended with a hearty vote of thanks to the Chairperson.