



भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG, NEW DELHI 110002

कार्यसूची

हमारा संदर्भ: सीईडी 56/ए-2.26

02 दिसंबर 2024

विषय : पहाडी क्षेत्र विकास इंजीनियरी विषय समिति, सीईडी 56 की छब्बीसवीं बैठक की कार्यसूची

सीईडी 56 के सभी सदस्य

प्रिय महोदय/महोदया,

हमारे सम संख्यक पत्र दिनांक **29 नवंबर 2024** के संदर्भ में पहाड़ी क्षेत्र विकास इंजीनियरी विषय समिति सीईडी 56 की छब्बीसवीं बैठक की कार्यसूची की एक प्रति आपको भेज रहे हैं। बैठक निम्नानुसार आयोजित होगी :

तकनीकी समिति	दिन	तिथि	समय	स्थान
पहाडी क्षेत्र विकास इंजीनियरी विषय समिति, सीईडी 56	शुक्रवार	06 दिसंबर 2024	15:00 बजे	(सिविल इंजीनियरिंग विभाग), मणिपाल प्रौद्योगिकी संस्थान, मणिपाल उच्च शिक्षा अकादमी, मणिपाल 576104, कर्नाटक

Webex लिंक का विवरण नीचे दिया गया है:

मीटिंग लिंक : <https://bismanak.webex.com/bismanak/j.php?MTID=m0cd43594a871bbcf97bb55056a2dfe8c>

बैठक संख्या: 2515 840 3509

पासवर्ड : manojced56

कृपया ध्यान दें कि बीआईएस द्वारा उठाए गए नए सुधार उपाय के अनुसार, अनुभागीय समिति की बैठक में भाग लेना सभी सदस्यों के लिए अनिवार्य है, दो बैठकों में अनुपस्थित रहने पर अनुभागीय समिति में नामांकन वापस लिया जा सकता है।

हम आशा करते हैं कि आप इस महत्वपूर्ण बैठक में भाग लेंगे। इस बैठक में भाग लेने की पुष्टि कृपया ई-मेल से भेज दें।

सधन्यवाद।

भवदीय,

(डॉ मनोज कुमार रजक)
सदस्य सचिव, सीईडी 56
ई-मेल: manoj@bis.gov.in
फोन न. 011-23238253

संगलन : उपरिलिखित



भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG, NEW DELHI 110002

AGENDA

Our Ref: CED 56/A-2.26

02 December 2024

Subject: Agenda for the Twenty-sixth Meeting of Hill Area Engineering Sectional Committee, CED 56

ALL MEMBERS OF CED 56

Dear Sir/Madam,

In continuation to our Meeting Notice of even number dated **29 November 2024**, please find enclosed herewith a copy of the Agenda of the Twenty-sixth Meeting of Hill Area Engineering Sectional Committee, CED 56. The schedule of the meeting is as given below:

Technical Committee	Day	Date	Time	Venue
Hill Area Development Engineering Sectional Committee, CED 56	Friday	06 December 2024	15:00 h	(Department of Civil Engineering), Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal 576 104, Karnataka

The detail of **Webex** link is as given below:

Meeting link: <https://bismanak.webex.com/bismanak/j.php?MTID=m0cd43594a871bbcf97bb55056a2dfe8c>

Meeting ID : 2515 840 3509

Password : manojced56

NOTE: - Please note that as per new reform measure taken by the BIS, participation in the sectional committee meeting is mandatory for all the members, absent in two meeting may liable to withdrawal the nomination of the committee in the sectional committee.

You are kindly requested to make it convenient to participate in the meeting and a line in confirmation through E-mail would be highly appreciated.

Thanking you,

Yours faithfully,

(Dr Manoj Kumar Rajak)
Member Secretary, CED 56
Email ID manoj@bis.gov.in
Ph. No. 011-23238253

Encl: As above

BUREAU OF INDIAN STANDARDS

AGENDA

Hill Area Development Engineering : Twenty-sixth Meeting
Sectional Committee, CED 56

Friday, 06 December 2024 : 15:00 h

Venue: Department of Civil Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal 576 104, Karnataka

CHAIRPERSON : Dr R. Anbalagan, (In Personal Capacity)
MEMBER SECRETARY : Dr Manoj Kumar Rajak, (BIS)

ITEM 0 WELCOME BY THE CHAIRMAN

ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The minutes of the 24th Meeting of Hill Area Development Engineering Sectional Committee, CED 56 held on 21 March 2024, will be circulated to members very shortly.

The Committee may note.

ITEM 2 COMPOSITION

2.1 The present composition of the sectional committee is given at **Annex 1**.

The Committee may consider and review the composition.

ITEM 3 PROGRAMME OF WORK

3.1 The present position of Programme of Work is given at **Annex 2**.

The Committee may consider.

ITEM 4 SUBJECTS UNDER CONSIDERATION

4.1 Draft of Guidelines for Retaining Wall for Hill Area [IS 14458 (Parts 9 to 10)]

In the last meetings, the committee requested Working Group to improve the draft in line with the others parts of IS 14458 and submitted the improved draft.

The composition of the working group is as below:

Sl No.	Title	Working group	Status
1	Construction of RCC crib walls	Dr Anbalagan, (Convenor), Dr S. Sarkar, CSIR-CBRI Dr D.P. Kanungo, CSIR-CBRI Smt. Minimol Korulla, Maccaferri	Draft awaited
2	Design and construction of reinforced earth retaining walls and slopes	Dr Mahendra Singh, IITR, (Convenor) Smt Minimol Korulla, Maccaferri Dr Priti Maheshwari, IITR Dr Vasant G. Havanagi, CSIR-CRRI	Modified Draft awaited

The Committee may consider.

ITEM 5 NEW SUBJECT PROPOSAL

5.1 Formulation of Indian Standards through R&D Schemes of NDMA

5.1.1 Safety and mitigation measures for the buildings and infrastructures in landslide-affected area

Representative of CSIR-CBRI informed the committee that final draft is under preparation.

The Committee may note and consider.

5.2 New Indian Standard on Bio-Technical Measures for Improving the Stability of Slope

In the last meeting, the Committee decided to formulate new Indian Standard on Bio-Technical measures for improving the stability of slope. Committee requested NEERI for preparation of draft.

The draft is awaited.

The Committee may note and advise.

5.3 New Indian Standard on ‘Monitoring of Landslides’

In the last meeting, the Committee decided to formulate new Indian Standard on Monitoring of Landslides. Committee requested IIT, Indore for preparation of draft.

The draft is awaited.

The Committee may note and advise.

5.4 New Indian Standard on ‘Open Excavation and Hill Slope Stability Related to Hill Roads and Guidelines for Disposal of Blasted Muck in Hilly Areas’

In the last meeting, the Committee decided to formulate new Indian Standard on Open excavation and hill slope stability. Committee requested GSI for preparation of draft.

The draft is awaited.

The Committee may note and advise.

5.5 New Indian Standard on ‘Guidelines for Disposal of Blasted Muck in Hilly Areas’

In the last meeting, the Committee decided to formulate new Indian Standard on Guidelines for disposal of blasted muck in hilly areas. Committee requested GSI for preparation of draft.

The draft is awaited.

The Committee may note and advise.

ITEM 6 ANY OTHER BUSINESS

Annex 1**COMPOSITION OF HILL AREA DEVELOPMENT ENGINEERING
SECTIONAL COMMITTEE, CED 56**

SCOPE: Standardization In The Field of Developmental Activities of Hilly Areas Such as Landslide Analysis, Site Evaluation For Human Settlement, Safe Design, Selection of Building Materials and Modes of Construction Suitable For Hilly Areas.

Nos. of Meetings	Date	Place
Twenty-third	14 Jun 2023	New Delhi
Twenty-fourth	21 Mar 2024	Roorkee
Twenty-fifth	26 Sep 2024	New Delhi

Sl No.	NAME OF THE ORGANISATION	REPRESENTED BY	MEETINGS			ATTEN-DANCE
			23rd	24th	25th	
1	In Personal Capacity, Mumbai	Dr R. Anbalagan (<i>Chairperson</i>)	P	P	P	3/3
2	Border Roads Organization, New Delhi	Shri S C Looniya	–	–	C	0/0
3	CSIR–Central Building Research Institute, Roorkee	Shri S. K. Negi Dr Ajay Chourasia (<i>Alternate I</i>) Shri Naveen Nishant (<i>Alternate II</i>)	P	P	P	3/3
4	CSIR–Central Institute of Mining & Fuel Research, Roorkee	Dr J. K. Mahnot Dr Ashok Kumar Singh (<i>Alternate</i>)	P	P	P	3/3
5	CSIR–Central Road Research Institute, New Delhi	Dr Pankaj Gupta Dr P. S. Prasad (<i>Alternate</i>)	P	A	P	2/3
6	CSIR–National Environmental Engineering Research Institute, Nagpur	Dr Shalini Dhyani	P	P	P	3/3
7	Central Soil & Materials Research Station, New Delhi	Dr Manish Gupta Shri Hari Dev (<i>Alternate</i>)	P	P	P	3/3
8	Central Water Commission, New Delhi	Shri Darpan Talwar Shri Narendra Singh Shekhawat (<i>Alternate</i>)	A	P	P	2/3
9	G. B. Pant Institute of Himalayan Environment Development, Almora	Shri Kireet Kumar Shri Vaibhav Eknath Gosavi (<i>Alternate</i>)	P	P	P	3/3

SI No.	NAME OF THE ORGANISATION	REPRESENTED BY	MEETINGS			ATTENDANCE
			23 rd	24 th	25 th	
10	Geological Survey of India, New Delhi	Shri Akshaya Kumar Mishra Shri Dhruvajyoti Chakraborty (Alternate)	P	P	P	3/3
11	In Personal Capacity	Dr R. K. Goel	P	P	P	3/3
12	Indian Institute of Remote Sensing, Dehradun	Dr Rajat S. Chatterjee Dr Shovan L. Chatteraj (Alternate)	A	P	P	2/3
13	Indian Institute of Technology, Indore	Prof Neelima Satyam	C	P	P	2/2
14	Indian Institute of Technology Roorkee, Roorkee	Dr Mahendra Singh Dr N. K. Samadhiya (Alternate I) Prof Ajanta Goswami (Alternate II)	P	P	P	3/3
15	Maccaferri Environmental Solutions Private Limited, Gurugram	Smt Minimol Korulla Shri Rudra Budhbhatti (Alternate)	P	P	P	3/3
16	National Centre for Seismology, New Delhi	Dr O. P. Mishra Dr H. S. Mandal (Alternate)	P	P	P	3/3
17	National Disaster Management Authority, New Delhi	JS (Mitigation) Shri Safi Ahsan Rizvi (Alternate)	A	P	P	2/3
18	National Institute of Hydrology, Roorkee	Dr Suhas Khobragade Dr Surjeet Singh (Alternate)	A	P	A	1/3
19	National Institute of Rock Mechanics, Bengaluru	Dr Devendra Singh Rawat	–	C	P	1/1
20	Rail Vikas Nigam Limited, New Delhi	Shri Sumit Jain	P	P	A	2/3
21	Terre Armee, New Delhi	Col Soumendra Banerjee Dr. Anand Hulagabali (Alternate)	–	–	C	0/0

Annex 2**PROGRAM OF WORK**

CED 56 Hill Area Development Engineering
SCOPE Standardization in the Field of Developmental Activities of Hilly Areas Such as Landslide Analysis, Site Evaluation For Human Settlement, Safe Design, Selection of Building Materials and Modes of Construction Suitable For Hilly Areas.

SI No.	IS No.	Title	Reaffirm M-Y	No. of Amds
1	IS 14458 (Part 1) : 1998	Retaining wall for hill area – Guidelines: Part 1 Selection of type of wall	Sep, 2022	-
2	IS 14458 (Part 2) : 1997	Retaining wall for hill area – Guidelines: Part 2 Design of retaining/breast walls	Sep, 2022	-
3	IS 14458 (Part 3) : 1998	Retaining wall for hill area – Guidelines: Part 3 Construction of dry stone walls	Sep, 2022	-
4	IS 14458 (Part 4) : 2018	Retaining wall for hill area – Guidelines: Part 4 Construction of banded dry stone masonry walls	Nov, 2023	-
5	IS 14458 (Part 5) : 2018	Retaining wall for hill areas – Guidelines: Part 5 Construction of cement stone masonry walls	Nov, 2023	-
6	IS 14458 (Part 6) : 2020	Retaining wall for hill area – Guidelines: Part 6 Construction of gabion walls		-
7	IS 14458 (Part 7) : 2022	Retaining wall for hill area – Guidelines: Part 7 Construction of peripheral reinforced gabion walls		-
8	IS 14496 (Part 1) : 2020	Preparation of landslide hazard zonation maps in mountainous terrains – Guidelines: Part 1 Meso-zonation		-
9	IS 14496 (Part 2) : 1998	Preparation of land slide hazard zonation maps in mountainous terrains – Guidelines: Part 2 Macro-zonation	Sep, 2022	1
10	IS 14680 : 2024	Landslide control measures – Guidelines (<i>first revision</i>)		-
11	IS 14804 : 2000	Siting, design and selection of materials for residential buildings in hilly areas – Guidelines	Sep, 2022	-
12	IS 14961 : 2024	Surface water management in hilly Areas (including rainwater harvesting) – Guidelines (<i>first revision</i>)		-

SI No.	IS No.	Title	Reaffirm M-Y	No. of Amds
13	IS 17162 : 2020	Preparation of landslide risk assessment maps in mountainous terrains – Guidelines		-
14	IS 17163 : 2020	Site specific investigation and stability analysis of landslides – Guidelines		-
15	IS 18736 : 2024	Micropiles for slope stabilization for mitigation of landslides – Guidelines		-

DRAFTS STANDARDS COMPLETED WC STAGE

1	DOC: CED 56 (25715)	Retaining wall for hill areas – Guidelines: Part 8 Design of reinforced cement concrete RCC cantilever retaining walls
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