



# भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS

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## RESOLUTION

Our Ref: CED 56/A-2.25

26 September 2024

**Subject: Resolution of the Twenty-fifth Meeting of Hill Area Development Engineering Sectional Committee, CED 56**

### All Members of CED 56

Dear Sir/Madam,

Please find enclosed a copy of resolution of the 25<sup>th</sup> Meeting of Hill Area Development Engineering Sectional Committee, CED 56 held on **26<sup>th</sup> September 2024** in Roorkee. The resolution has been duly approved by the Sectional Committee, CED 56.

Thanking you,

Yours faithfully,

**(Dr Manoj Kumar Rajak)**  
Member Secretary CED 56  
E-mail: [manoj@bis.gov.in](mailto:manoj@bis.gov.in)  
Phone No. 011-23238253

Encl: As above

## **BUREAU OF INDIAN STANDARDS**

### **RESOLUTION**

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

**Thursday, 26<sup>th</sup> September 2024** : **11:00 h**

**Venue – Bureau of Indian Standard, Manak Bhavan, 9, Bahadur Shah Zafar Marg, New Delhi 110002**

**CHAIRPERSON** : **Dr R. Anbalagan**

**MEMBER SECRETARY** : **Dr Manoj Kumar Rajak**

#### **ITEM 1 CONFIRMATION OF THE MINUTES OF LAST MEETING**

The Committee confirmed the minutes of the last meeting as circulated.

#### **ITEM 2 COMPOSITIONS OF THE SECTIONAL COMMITTEES**

The Committee noted the revised composition given in Annex 1 of the agenda. The Committee decided to Co-opt Terre-Armee and withdrawn THDC India Limited, Rishikesh and Wadia Institute of Himalayan Geology, Dehradun due to lack of participation.

#### **ITEM 3 PROGRAMME OF WORK**

**3.1** The Committee noted the present programme of work as given in Annex 2 of the Agenda.

#### **3.2 Revision of IS 14458 (Part 1): 1998 ‘Retaining Wall for Hill Area – Guidelines: Part 1 Selection of Type of Wall’**

Committee decided to take revision IS 14458 (Part 1). Committee requested Chairman, CED 56 and Meccafferri to prepare a draft.

The Committee decided that after receiving the draft, it would be circulated as wide circulation draft for comments.

#### **3.3 Revision of IS 14458 (Part 2): 1997 ‘Retaining Wall for Hill Area – Guidelines: Part 2 Design of Retaining/Breast Walls’**

Committee decided to take revision IS 14458 (Part 2). Committee requested Terre-Armee to prepare a draft.

The Committee decided that after receiving the draft, it would be circulated as wide circulation draft for comments.

### **3.4 Revision of IS 14458 (Part 3): 1998 ‘Retaining Wall for Hill Area – Guidelines: Part 3 Construction of Dry Stone Walls’**

Committee decided to take revision IS 14458 (Part 3). Committee requested Terre-Armee to prepare a draft.

The Committee decided that after receiving the draft, it would be circulated as wide circulation draft for comments.

#### **ITEM 4 DRAFT STANDARDS/AMENDMENTS FOR APPROVAL FOR FINALIZATION**

### **Retaining Wall for Hill Areas Guidelines: Part 8 Design of Reinforced Cement Concrete RCC Cantilever Retaining Walls**

The Committee considered the WC draft CED56 (25715)WC circulated vide BIS Letter No. CED56/T-19 Dated 20 May 2024, along with the comments received and took decisions on the all comments.

The Committee decided to finalize the draft standard for adoption and publication. The Committee authorized the Secretariat to incorporate any editorial changes if any.

#### **ITEM 5 SUBJECTS UNDER CONSIDERATION**

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

The committee reviewed the work related to different parts of IS 14458 “Retaining Wall for hill area” and requested the working groups for expediting the work.

<b>SI No.</b>	<b>Title</b>	<b>Working group</b>	<b>Committee Decision</b>
1	Construction of RCC crib walls	Dr. Anbalagan, (Convenor) Smt Minimol Korulla, Maccaferri Col Soumendra BanerjeeTerre-Armee Dr Ajanta Goswami, IIT, Roorkee	Committee reconstituted the Working Group and requested to prepare draft.  The committee decided to circulate this draft as wide circulation draft for comments.
2	Design and construction of reinforced earth retaining walls and slopes	Dr Mahendra Singh, IITR, (Convenor) Smt Minimol Korulla, Maccaferri Dr H. S. Mandal, NCS Dr J. K. Mahnot, CSIR-CIMFR	The committee advised the working group to improve the draft in line with the others parts of this IS 14458 and submit the improved draft with suitably referereng other Indian Standard already published. Committee also reconstituted the Working Group.  The Committee decided that after receiving the draft from the Working Group it would be circulated as wide circulation draft for comments.

## **ITEM 6 NEW SUBJECT PROPOSAL**

### **6.1 Formulation of Indian Standards through R&D Schemes of NDMA**

#### **6.1.1 Safety and mitigation measures for the buildings and infrastructures in landslide-affected area**

The committee advised the CSIR-CBRI to improve the draft with clearly mention the mitigation major required for safety, committee also suggest to suitably referring other Indian Standard already published.

The Committee decided that after receiving the draft from the Working Group it would be circulated as wide circulation draft for comments.

### **6.2 New Indian Standard on Bio-Technical Measures for Improving the Stability of Slope**

The committee constituted the working group for formulation of New Indian Standard on Bio-Technical measures for improving the stability of slope.

The composition of the working group is as given below:

Dr R Anbalagan, (Convener)  
Smt Shalini Dhyani, National Environmental Engineering Research Institute  
Dr Mahendra Singh, IITR  
Smt Minimol Korulla, Maccaferri  
Shri Vaibhav Eknath Gosavi, GBPIHED

The Committee also decided that after receiving the draft from the Working Group it would be circulated as Preliminary draft for comments.

### **6.3 New Indian Standard on 'Monitoring of Landslides'**

The committee constituted the working group for formulation of New Indian Standard on 'Monitoring of Landslides'.

The composition of the working group is as given below:

Dr Neelima Satym, IIT Indore  
Dr D. P. Kanungo, CSIR-CBRI  
Dr Maneesha V. Ramesh, Amrita Vishwa Vidyapeetham  
Dr Venkat Uday Kala, IIT Mandi  
Dr Rajat S. Chatterjee, IIRS, Dehradun

The Committee also decided that after receiving the draft from the Working Group it would be circulated as Preliminary draft for comments.

### **6.4 New Indian Standard on 'Open Excavation and Hill Slope Stability'**

The committee constituted the working group for formulation of New Indian Standard on 'Open excavation and hill slope stability'.

The composition of the working group is as given below:

Shri Dhruvajyoti Chakraborty, GSI (Convener)  
Dr J. K. Mahnot, CSIR- CIMFR  
Prof Neelima Satyam, IIT Indore  
Smt Minimol Korulla, Maccaferri  
Dr Shalini Dhyani, CSIR-NEERI  
Col Soumendra Banerjee, Terre-Armee

The Committee also decided that after receiving the draft from the Working Group it would be circulated as Preliminary draft for comments.

### **6.5 New Indian Standard on 'Guidelines for Disposal of Blasted Muck in Hilly Areas'**

The committee constituted the working group for formulation of New Indian Standard on 'Guidelines for disposal of blasted muck in hilly areas'.

The composition of the working group is as given below:

Shri Akshaya Kumar Mishra, GSI (Convener)  
Dr J. K. Mahnot, CSIR- CIMFR  
Prof Neelima Satyam, IIT Indore  
Smt Minimol Korulla, Maccaferri  
Dr Shalini Dhyani, CSIR-NEERI  
Col Soumendra Banerjee, Terre-Armee

The Committee also decided that after receiving the draft from the Working Group it would be circulated as Preliminary draft for comments.

### **ITEM 7 ANY OTHER BUSINESS**

There being no other business, the meeting ended with a hearty vote of thanks to the chair.

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