



भारत सरकार / Government of India  
केन्द्रीय जल आयोग / Central Water Commission  
प्रशिक्षण निदेशालय / Training Directorate



संख्या:- A-33022/4/2020-TRNG DTE/68-225

दिनांक: 13<sup>th</sup> January, 2020

**परिपत्र**

**विषय:- Two days training Course on " Quality Control and Diagnostic Investigations for Concrete Hydraulic Structures" at CSMRS, New Delhi during 30<sup>th</sup>-31<sup>st</sup> January, 2020- reg.**

कृपया उपरोक्त विषय से संबंधित पत्र / विवरणिका की प्रति संलग्न पायें। अनुरोध है कि यदि कोई नामांकन हो तो दिनांक 20/01/2020 तक निश्चित रूप से सदस्य / मुख्य अभियंता मा. स. प्र. (मा. सं. प्र. से सम्बंधित)/ मुख्य अभियंता रा. ज. अ. से सम्बंधित अनुमोदन के पश्चात् भेजने की कृपा करें। साथ में नामित अधिकारियों के जीवन वृत्त (uploaded and downloaded from CWC website) भी संलग्न करें, जिसमें उनके द्वारा अब तक के सेवा काल के दौरान भाग लिए गए विभिन्न कार्यक्रमों का ब्यौरा दर्शाया गया हो।

यह भी सूचित किया जाता है कि नामित अधिकारी के नामांकन पर दर्शायी गई तिथि के उपरान्त प्राप्त होने पर विचार नहीं किया जायेगा साथ ही अध्यक्ष की स्वीकृत होने के पश्चात् नाम वापस लेने की अनुमति नहीं दी जाएगी।

**संलग्नक :- यथावत**

ई. वेंकटेश्वरन्  
(ई वेंकटेश्वरन्) 13/1/2020

उप-निदेशक (प्रशिक्षण)

1. अध्यक्ष केन्द्रीय जल आयोग के निजी सचिव, नई दिल्ली।
2. सदस्य जल आयोजन एवं परियोजना / अभिकल्प एवं अनुसंधान / नदी प्रबंध के निजी सचिव, केन्द्रीय जल आयोग, नई दिल्ली।
3. सभी मुख्य अभियंता, केन्द्रीय जल आयोग।
4. निदेशक समन्वय, आयोजन एवं परियोजना / अभिकल्प एवं अनुसंधान / नदी प्रबंध, केन्द्रीय जल आयोग, नई दिल्ली।
5. सचिव/निदेशक (तकनीकी समन्वय) केन्द्रीय जल आयोग, नई दिल्ली।
6. सभी निदेशक/ अधीक्षण अभियंता, केन्द्रीय जल आयोग, नई दिल्ली।
7. कनिष्ठ अभियंता, प्रशिक्षण निदेशालय, कृपया परिपत्र को केन्द्रीय जल आयोग की वेब साइट पर अपलोड करें।

## Contact details

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Olof Palme Marg, Near IIT Hostels,  
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Fax: 91 11 2685 3108  
Web: www.csmrs.gov.in

## Course Fee

Course fee of ₹5000.00+ GST (as applicable) shall be charged per person for the training course. The participants from central govt., state govt. & union territory administration are exempted from GST whereas GST @ 18% on registration fee shall be applicable for other organizations including private firms and foreign countries. The fee shall be paid through A/c payee Bank Draft drawn in favour of "PAO, CSMRS" payable at New Delhi / through E- payment in Account PAO, CSMRS, State Bank of India, R.K Puram, New Delhi (IFSC code: SBIN0001076, Account No 10933100681, MICR code 110002106). *In case of electronic transfer, the transaction details may please be intimated to the course coordinator.*

## Accommodation

Limited accommodation facility is available in CSMRS hostel. For trainees, the special rate for room is ₹ 150/- per head per day on twin sharing basis. Meals are also available on payment basis in the hostel. Request for accommodation may be forwarded to the coordinator by **24<sup>th</sup> January, 2020**. However, the payment for staying in hostel can be made at the time of check in.

## Nominations

Nominations are invited from designers, field engineers/ researchers/ scientists/ academicians directly or indirectly involved or likely to be involved in design/ construction/ quality control/ dam safety of river valley projects. Duly filed registration form for nominations of the participants may be sent to the course coordinator before **24<sup>th</sup> January, 2020**.

## सूचना पत्रिका Information Bulletin

2 days Training Course  
On

कंक्रीट जलीय संरचनाओं का गुणवत्ता नियंत्रण और  
नैदानिक परीक्षण

QUALITY CONTROL AND DIAGNOSTIC  
INVESTIGATIONS FOR CONCRETE  
HYDRAULIC STRUCTURES  
30<sup>th</sup> & 31<sup>st</sup> January, 2020

Venue  
CSMRS, New Delhi

Organized by



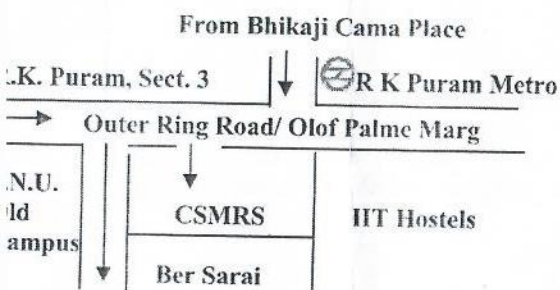
AN ISO 9001:2015 Certified Organisation

केन्द्रीय मृदा एवं सामग्री अनुसंधानशाला  
हौज खास, नई दिल्ली - 110016  
Central Soil and Materials Research Station  
Hauz Khas, New Delhi - 110016

## For further details, contact

Director,  
Central Soil & Materials Research Station,  
Olof Palme Marg, Near IIT Hostels,  
Hauz Khas, New Delhi - 110 016  
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E-mail: director-csmrs@nic.in

## Location Map of CSMRS





## Introduction

Quality control and diagnostic investigations for concrete hydraulic structures or appurtenant structures play an important role in the successful functioning of any Hydro-electric/ Irrigation project. Quality control encompasses all activities such as site inspection, random sampling of materials, insitu/laboratory tests, verification of concrete mixes & their placement to ensure that the product will meet technical specifications. Accurate QC data and adequately trained and certified QC personnel can help take well-informed decisions. It is essential for any construction engineer to understand the different factors involved in affecting the integrity and durability of the structure. If QC factors are taken care of during the design, pre-construction and construction stages itself, the safety of the structure can be ensured to a great extent and result in successful functioning of the structure over its designed life.

Keeping this in view and to provide a forum for exchange of views, this training course has been planned to impart training to engineers, professionals, researchers and academicians involved directly or indirectly in the design, quality control and maintenance of concrete structures.

## Course Content

The contents of the training course include:

- Quality Control aspects of concrete structures
- Distress in concrete structures and its rehabilitation measures
- Instrumentation of dams and monitoring
- Safety evaluation of dams
- Repair Materials and Techniques
- Laboratory Demonstrations

## Course Faculty

Eminent practising experts involved in design/ execution/ rehabilitation/ quality control of the Hydro Power projects will be sharing their knowledge and experiences with the participants. The field engineers can share their site specific problems with the faculty. The faculty will be drawn from:

- Central Soil and Materials Research Station,
- Indian Institute of Technology, Delhi (IITD),
- Central Water Commission, Delhi,
- Experienced consultants from PSUs.

## Venue and Dates

Venue of the training course will be Central Soil and Materials Research Station, New Delhi. The training course will be inaugurated at **10:00 AM on 30<sup>th</sup> January 2020** and will conclude on 31<sup>st</sup> January, 2020 at 17:30 hrs.

## Sharing of Experiences

The participants will be introduced to the vision of the faculty members of CSMRS and other experts from outside as well as different laboratories of the Research Station. Participants shall be encouraged to share their experience/ problems, thereby making the course more interactive rather than descriptive in nature.

## Who Should Attend

The course is primarily meant for officers of the rank of Deputy Director/ Executive Engineer/ Assistant Engineer/ Junior Engineer etc. from Central/State Government Departments, Research Institutions, Public and Private Sector Undertakings engaged in design, construction, quality control and rehabilitation of River Valley Projects.

## Registration Form

### Training Course on

### **QUALITY CONTROL AND DIAGNOSTIC INVESTIGATIONS FOR CONCRETE HYDRAULIC STRUCTURES"**

**30<sup>th</sup> & 31<sup>st</sup> January, 2020**

One form to be filled per delegate; photocopy of this form may be used for additional requirement

Name:-----

Designation:-----

Organization:-----

Address for Communication .....

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Phone:-----

E-mail:-----

Fax:-----

Educational Background:-----

Age: .....

Accommodation required: Yes/No

The required boarding/ lodging charges shall be deposited at reception of CSMRS Hostel at the time of check out.

Date:

Signature