

I/96857/2022

भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन नदी विकास एवं गंगा
संरक्षण विभाग केन्द्रीय जल आयोग
प्रशिक्षण निदेशालय



Government of India
Ministry of Jal Shakti
Department of WR, RD&GR
Central Water Commission
Training Directorate

कार्यालय आदेश

In continuation of this office order even number I/94370/2022 dtd: 13.05.2022, I/94900/2022(2) dtd: 20.05.2022 and I/96071/2022 dtd: 01.06.2022, the approval of the Competent Authority is hereby conveyed in respect of the following officer(s) for his participation and their exemption respectively for Customized training programme on **"Engineering Geology – Concepts and Practices of Engineering Projects" through GSI faculty** scheduled during **16 -24 June, 2022 at National Water Academy, Pune**, and 25-29 June, 2022 at Siliguri/Gangtok in connection with visit to Teesta VI, Teesta-V, TLDP IV and Sikkim Investigation Division, CWC.

Sl. No.	Name of the officer Nominated (Mr./Ms.)
1.	Abhinav Kumar, Asst. Comm, SPR Wing, DoWR, RD & GR, New Delhi
	Name of the officers Exempted (Mr./Ms.)
1.	Awadhesh Kumar, EE, NEID-II, CWC, Aizawl
2.	Mayank Suhrid, EE, P&I Division, CWC, Faridabad
3.	Kunal Kansal, JE, RDC-II, CWC, New Delhi

The above officer will be governed by the following terms and conditions:

- He will be entitled to draw TA/DA as admissible under rules.
- He will get full pay and allowances during the programme.
- No substitute will be provided in their place.

Signed by Venkateswarlu
E.

Date: 08-06-2022 13:23:20

Reason (वेबसाइट पर)

उप-निदेशक (प्रशिक्षण)

Copy to:

- Shri S N Pande, Director, NWA w.r.t. letter dated 13th April, 2022.
- PPS to Member RM, CWC, New Delhi.
- Director, RMCD, CWC, New Delhi.
- Officers concerned through CWC Website/E-Office Notice Board. They are requested to submit a feedback report after completion of the Program.
- To upload on CWC Website and E-Office Notice board.



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In continuation of this office order even number I/94370/2022 dtd: 13.05.2022 and I/94900/2022(2) dtd: 20.05.2022, the approval of the Competent Authority is hereby conveyed in respect of the following officer for his participation and exemption respectively for Customized training programme on **"Engineering Geology – Concepts and Practices of Engineering Projects" through GSI faculty** scheduled during **16 -24 June, 2022 at National Water Academy, Pune**, and 25-29 June, 2022 at Siliguri/Gangtok in connection with visit to Teesta VI, Teesta-V, TLDP IV and Sikkim Investigation Division, CWC.

Sl. No.	Name of the officer Nominated (Mr./Ms.)
1.	Adarsh M S, Dy. Director, HCD (E&NE) Dte., CWC, New Delhi
	Name of the officer Exempted (Mr./Ms.)
1.	Sajal Mittal, AD, HCD (E&NE) Dte., CWC, New Delhi

The above officer will be governed by the following terms and conditions:

- He will be entitled to draw TA/DA as admissible under rules.
- He will get full pay and allowances during the programme.
- No substitute will be provided in their place.

Signed by Sanjay Kumar
Gangwar

Date: 01-06-2022 17:18:09

(संजय कुमार गंगवार)

निदेशक (प्रशिक्षण)

Copy to:

- Shri S N Pande, Director, NWA w.r.t. letter dated 13th April, 2022.
- PPS to Member D&R, CWC, New Delhi.
- Director, D&R Co-ordination/HCD(E&NE), CWC, New Delhi.
- Officers concerned through CWC Website/E-Office Notice Board. They are requested to submit a feedback report after completion of the Program.
- To upload on CWC Website and E-Office Notice board.



Government of India
Central Water Commission
National Water Academy

Pune – Sinhgad Road
Khadakwasla,
Pune - 411024

Sub: Customized training programme on “Engineering Geology – Concepts and Practices of Engineering Projects” – reg.

In pursuance of the approval conveyed by competent authority vide Office Order No. A-33022/13/2022-TRNG DTE/I/94900/2022 (2) dated 20 May 2022, the National Water Academy, CWC, Pune in association with the Geological Survey of India is conducting a Customized training programme on “**Engineering Geology – Concepts and Practices of Engineering Projects**” during 16th -29th June 2022 including field visit for Central Water Engineering Services Group A officers. From 16th -24th June the classroom training will be conducted at NWA, Pune by GSI faculty; followed by field visit during 25th-29th June 2022 to Siliguri/ Gangtok with visits to Teesta VI under construction project, Teesta-V HE Project, TLDP IV Project, and Sikkim Investigation Division, CWC, Gangtok etc. The copy of the schedule is enclosed for ready reference.


In this regard, it is to convey that all the officers nominated for above training are requested to make arrangements of air tickets on their own for the following journey (s):

1. Reporting for Training at NWA on 16 June 2022 from their place of posting
2. Reporting back to their respective HQ after completion of training at Siliguri on 30th June 2022.

The other logistics arrangements for undertaking the field visit viz. air-tickets from Pune to Siliguri; lodging & boarding at Siliguri (25-30 June 2022 5 nights and 6 days); and transportation arrangement during the field visit will be made by National Water Academy, Pune .

Accordingly, all the nominated officers for the said programme are requested to make necessary arrangements as above.

Encl: As above



S N Pande
Director, NWA
9873163630

No.:A-33025/22/2021-22/NWA/ 501 – 506

Dated : 31 May 2022

To

1. To all the 16 nominated officers (As per the order enclosed) – for necessary action

Copy for kind information :

1. PPS to Chairman, CWC, New Delhi
2. PPS Member (D&R) / RMC, CWC, New Delhi
3. Director (D&R) Coordination / Director (RM) Coordination
4. The Director (Trg), CWC, New Delhi – with a request get it uploaded in the circular portal of CWC.
5. The Deputy Director (A&C), NWA, CWC, Pune
6. Shri Vyshask V , AD-II, NWA, CWC, Pune

CENTRE OF EXCELLENCE IN WATER SECTOR

खडकवासला, पुणे -सिंहगड रोड, पुणे -411 024
टेलीफोन: 020-23381212 / #9873163630
फैक्स: 020-24380110/24380224
EAPBX No. 24380392, 24381517 Extn: 118/112
ई-मेल: nwa.mah@nic.in, cenwa.mah@nic.in
shailendrapandenwa@gmail.com
♦ जल संरक्षण सुरक्षित भविष्य ♦



Khadakwasla, Pune –Sinhgad Road, Pune-411 024
TEL : 020-24381212/#9873163630
FAX :020-24380110/24380224
EAPBX No. 24380392, 24381517 Extn : 118/112
E-mail : nwa.mah@nic.in / cenwa.mah@nic.in
shailendrapandenwa@gmail.com
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I/94900/2022(2)

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कार्यालय आदेश

In continuation of this office order even no: I/94370/202 dtd: 13.05.2022, the Customized training programme on "**Engineering Geology – Concepts and Practices of Engineering Projects**" through GSI faculty is now rescheduled during **16th June 2022 to 24th June 2022 at NWA, Pune**, and **25th June 2022 to 29th June 2022 at Siliguri/ Gangtok** in connection with visit to Teesta VI, Teesta V, TLDP IV, and Sikkim Investigation Division, CWC.

Further, the approval of the competent authority is also hereby conveyed in respect of the following officer for his participation in the said training during 16-29, June, 2022 in addition to earlier 15 nominated officers vide above mentioned order.

Srl.No	Name of the officers (Mr./Ms.)
1	Satyam Agarwal, Deputy Director, FE&SA Dte (fesadte-cwc@nic.in)

The above officer will be governed by the following terms and conditions:

- He will be entitled to draw TA/DA as admissible under rules.
- He will get full pay and allowances during the programme.
- No substitute will be provided in his place.

Signed by Venkateswarlu
E.
Date: 20-05-2022 15:01:54
Reason: Approved

(वेंकटेश्वर्लु ई.)
उप-निदेशक (प्रशिक्षण)

Copy to:

- Shri S N Pande, Director, NWA w.r.t. letter dated 13th April, 2022.
- PPS to Member D&R/RM, CWC, New Delhi.
- Director, D&R Co-ordination/RMCD, CWC, New Delhi.
- To all the 16 Nominated Officers concerned through CWC Website/E-Office Notice Board. They are requested to submit a feedback report after completion of the Program.
- To upload on CWC Website and E-Office Notice board.



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Approval of the Chairman, CWC is hereby conveyed in respect of the following officers for their participation in Customized training programme on **"Engineering Geology – Concepts and Practices of Engineering Projects"** through GSI faculty scheduled during **23rd May, 2022 to 5th June, 2022 at National Water Academy, Pune.**

Sl. No.	Name of the officers (Mr./Ms.)
1.	Sarbjit Kumar Singh, Dy. Director, BCD (E&NE) Dte., CWC, New Delhi
2.	Manu Dubey, Dy. Director, HCD (NW&S) Dte., CWC, New Delhi
3.	Gaurav Singhai, Dy. Director, Hyd(NE) Dte., CWC, New Delhi
4.	Mayank Suhrird, Ex.Engg, P&I Division, CWC, Faridabad
5.	Awadhesh Kumar, Ex.Engg, NEID-II, CWC, Aizawl
6.	Shashwat Rai, Ex.Engg, MGD-III, CWC, Varanasi
7.	Sajal Mittal, AD, HCD (E&NE) Dte., CWC, New Delhi
8.	Devendra Patel, AD, RDC-II Dte., CWC, New Delhi
9.	Arun Kumar, AD, SID, CWC, Gangtok
10.	Shivam Tripathi, AEE, O/o CE, UGBO, Lucknow
11.	Brij Bhushan Kardam, SDE, Planning Circle, Faridabad
12.	Kunal Kansal, JE, RDC-II Dte., CWC, New Delhi
13.	Harkesh Meena, JE, NEID-III, Itanagar
14.	Vishvendra Singh Jareda, JE, NEID-III, Itanagar
15.	Vijay Gupta, JE, NEID-III, Itanagar

The above officers will be governed by the following terms and conditions:
a. They will be entitled to draw TA/DA as admissible under rules.
b. They will get full pay and allowances during the programme.
c. No substitute will be provided in their place.

Signed by Venkateswarlu
E.

Date: 13-05-2022 (वेकटेश्वरु ई.)
Reason: Approved

(उप- निदेशक)

Copy to:

1. Shri.S N Pande, Director, NWA w.r.t. letter dated 13th April, 2022
2. PPS to Member D&R/RM, CWC, New Delhi.
3. Director, D&R Co-ordination/RMCD, CWC, New Delhi.
4. Officers concerned through CWC Website/E-Office Notice Board. They are requested to submit a feedback report after completion of the Program.
5. To upload on CWC Website and E-Office Notice board.



Government of India
Ministry of Jal Shakti
Department of Water Resources, RD & GR
Central Water Commission
National Water Academy, Pune



Schedule for Training Program on CWES Group A Officers
Engineering Geology – Concepts and Practices of Engineering Projects
in association with Geological Survey of India,
(16-29 June 2022)

<i>Session I : 1000-1115 Hrs</i>	<i>Session II- 1145 – 1300 Hrs</i>	<i>Session II: 1415 – 1530 hrs</i>	<i>Session IV : 1600-1730 Hrs</i>
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Day & Date.	Session	Topics	Faculty
Day-1 Thursday 16 June 2022	I	Introduction to Geology: Different types rocks, minerals, overburden and its classification	Shri P. K. Gajbhiye, Director, GSI, Pune
	II	Types of discontinuities: Foliation, bedding, joint, fault, fold, shear zone, thrust and its characterestics	
	III	Dip and strike: Apparent dip, Apparent dip chart, calculation of apparent dip	
	IV	Weathering processes and erosion	
Day-2 Friday 17 June 2022	I	Rock and rockmass classification system: RMR and Q	Shri P. K. Gajbhiye, Director, GSI, Pune
	II		
	III	Various types of engineering projects	Dr. T. B. Ghoshal, Director, GSI, Kolkata
	IV	Various stages of investigation in water resources development projects	
Day-3 Saturday 18 June 2022	I	DPR Satge geotechnical investigation	Dr. T. B. Ghoshal, Director, GSI, Kolkata
	II	Geological mapping on different scale : 50K, detailed geological mapping, 3 D geological mapping, traverse geological mapping and foundation grade geological mapping	
	III	Storage structures: Dam, weir, barrage, types of dam, selection of dam site, foundation grade mapping of dam, dam support, abutment study, reservoir mapping, spillway, intake, diversion structure, water conductor system, grouting	
	IV		
Day-4; Sunday , 19 June 2022 : Closed Holiday			
Day-5 Monday 20 June 2022	I	Drilling: Auger drilling, core drilling, SPT, single tube, double tube, tripple tube, core bit, drilling recovery, RQD, water percolation test, groutability, drill core logging, WPT data etc.	Shri P. K. Gajbhiye, Director, GSI, Pune
	II		
	III	Drifting; 3 D geological mapping, stripping limit <i>Reservoir mapping</i>	
	IV	Geotechnical properties of rock and soil Selection of quarry site and construction material study	Shri B A Kumar, Director, GSI, Hyderabad

Day & Date.	Session	Topics	Faculty
Day-6 Tuesday 21 June 2022	I	Geophysical inputs in geotechnical studies with special reference to hydroprojects	Shr S N Chowdhuri Director, GSI, Nagpur
	II	Earthquake engineering: Role of of Earthquake with special reference to civil structure	
	III	Construction stage geotechnical Investigation of dam complex	Shri N R Bhattacharjee, Director, GSI, Kolkata
	IV		
Day- 7 Wednesday 22 June 2022	I	Stereoanalysis, preparation of geological sections, slope stability softwares for rock and soil, SMR etc.	Shri N R Bhattacharjee, Director, GSI, Kolkata
	II		
	III	Tunnel: Types of tunnel, selection of tunnel alignmnet, selection of adit location, tunneling media, blasting methodology, excavation methodology, 3 D geological mapping, tunnel support, stabilization of tunnel portal.	Shri Indranil Chakraborty, Director, GIS, Kolkata
	IV	Construction stagegeologiacl investigation of Powerhouse complex and other sub-surface structure	
Day-8 Thursday 23 June 2022	I	Post-construction stage Geotechnical studies	Shri Dhrubajyoti Chakraborty Director, GSI, Nagpur
		Slope stability analysis of cut slopes and its stabilization with reference to road and railways	
	II		
	III		
Day-9 Friday 24 June 2022	I	Geological investigation of earth dam/Dam safety senario in India	Shri K Aravind Director, GSI,Chennai
	II		
	AN	Briefing about the Field Visit	Shri S N Pande Director (Designs), NWA, CWC, Pune
Day 10-14 ; Saturday - Wednesday : 25-29 June 2022			Shri S N Pande Director (Designs), NWA, CWC, Pune
Field Visit : officers would be apprised about classification of different types of lithology; measurement of dip & strike; rockmass classification:RMR andQ; field determination of UCS; drill core logging; 3-D geological logging; visit to hydropower site, tunnel, PH excavation; slope stability study etc.			Shri Harish Bahuguna Director, GSI, Jammu
• Dep : 25 June 2022 - Pune to Siliguri 26-28 June 2022 :Visit to Teesta IV, Teesta V, Teesta Low Dam and CWC Office at Gangtok etc			Shri Manoj Kaistha Director, GSI, Dehradun
• Dep : 29 June 2022 : Siliguri to Place of Posting			

Course Director : Shri S N Pande, Director (Designs), NWA, CWC, Pune : #9873163630

Shri Vyshak V, Assistant Director – II : #8921041410

Guest Faculty :

Shri P. K. Gajbhiye	Director, GSI, Pune	9284232049	pk.gajbhiye@gsi.gov.in
Dr. T. B. Ghoshal	Director, GSI, Kolkata	9432331235	t.ghoshal@gsi.gov.in
Shri B A Kumar	Director, GSI, Hyderabad	7382294017	b.kumar@gsi.gov.in
		9701526942	
Shr S N Chowdhuri	Director, GSI, Nagpur	9432014169	s.chowdhury@gsi.gov.in
		8777273546	
Shri Nihar Ranjan Bhattacharjee	Director, GSI, Kolkata	8420332678	n.bhattacharjee@gsi.gov.in
		9453294740	
Shri Indranil Chakraborty	Director, GSI, Kolkata	8240132456	indranil.chakraborty@gsi.gov.in
Shri Dhrubajyoti Chakraborty	Director, GSI, Nagpur	9763094360	dhrubajyoti.chakraborty@gsi.gov.in
Shri K. Aravind	Director, GSI, Chennai	9962399287	k.aravind@gsi.gov.in
Shri Harish Bahuguna	Director, GSI, Jammu	9411521814	h.bahuguna@gsi.gov.in
		9456595387	
Shri Manoj Kaistha	Director, GSI, Dehradun	8764280150	manoj.kayashtha@gsi.gov.in
		9785059730	