

Appx 'A'

(Refers to SEMT Wg, CME, Pune
letter No 5254/QC & TBM-14/02 /
SEMT dt 04 Jun 2018)

**JOINING INSTRNS FOR QUALITY CONTROL AND TESTING OF BLDG MTRLS
(QC & TBM) COURSE-15 WEF - 02 JUL 2018 TO 21 JUL 2018
AT CME, PUNE-31**

TRG INSTRS

Gen

1 On behalf of the Comdt and all rks of CME we extend a warm welcome to you for attending course at the College. CME is loc in the city of Pune (State of Maharashtra)

2 CME is a premier Cat. 'A' Est responsible for imparting trg To Offis and JCOs / TOR of Corps of Engrs, selected pers from CPO, PMF, Civ agencies and Friendly Foreign Countries. The course will be conducted at the SEMT Wg CME Pune. A brief on CME is at **Annexure-I**

Conduct of Course

3 **Aim.** To orient JEs/Supervisory Staff with QC tech and testing of Bldg Mtrls at Wk Site and in Fd Labs.

4 **Scope.** The Supervisory Staff, post Course should be able to supervise and conduct Quality Control & Assurance tests on all types of Bldg Mtrls as per the IS codes in fd as well as Site Labs.

5 **QR incl Medical Cat.** MES JEs/Supervisory Staff (Mil / Civ) should be med fit. Details of docus to be carried are at **Annexure-I to V**

6 **Duration / Block Syllabus.** Block Syllabus incl duration of the Course is at **Annexure-VI**

7 **Method of Instrns.**

- (a) Lec and Presentations
- (b) Tutorials and Discussions
- (c) Lab Wk

8 **Study Material** The Students are reqd to carryout preparation for the course as per details given below -

- (a) Recommended Books to be carried. Details are at **Annexure-VII**
- (b) Recommended Readings. Details are at **Annexure-VIII**

9 **Working Hrs** On working days, classes will be conducted from 0815 hr to 1340hr. The timings may extend to evening hrs as per reqmt. Students will maintain punctuality and will be seated in the class five min prior to the commencement of the Class

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ADM INSTRNS

Reception

10. It is requested to intimate the dt and time of your arr by AWAN / telegram to Dy Dir (Adm), SLM Wing, CME Pune 31, so that arrng can be made for accn and tpt. Tele and Fax No of SLM Wg is **020-27144753**. Considering the ltd tpt resources in CME, it is not practically feasible to provide veh for each Offr / JCO / JF on arr. Hence, common transport may be provided to a group of Students.

11. CME Bus regularly leaves for Pune Rly Str at 15:30 hr and returns from Pune Rly Str at 17:00 hr for CME. This facility may be availed by the students reaching Pune Rly Str. ETA may be fwd as per format at **Annexure-IX**. In case you arrive without intimating your ETA, you may reach CME under own arrng. On arr in CME, all are reqd to rep to the RXN Centre, which is loc in the East Wg Mess, from where you would be taken to the allotted accn. Tele No of CME Exchange is 020-27146560 (for extn 5055 RXN Centre).

Accn

12. Accn will be provided to students as per their rk / Designation. Students are not permitted to make arrng within CME Campus or Pune with friends and relatives for their stay. Under no circumstances Lady/Gent Guests will be entertained inside CME Pune Campus. However Students of local Units or having residents located in Pune may apply for out lying duly recommended by OC/Head of units as per format at **Annexure-X**.

Tpt

13. Tpt other than for official vis and tours, is NOT provided to students attending Courses in CME. For the first two days of the Course, Bus/Mini Bus will be provided for mov from Mess to Class room and back. For bal pd, bus can be arranged on payment or two wheelers may be hired from the Mkt. However, Students can bring their own vehs at their own expense. In the event of hiring / possessing a two wheeler, it is mandatory to wear Crash Helmets while riding the same. The pillion rider, if any, will also be reqd to wear a crash helmet. It may be noted that two wheelers and four wheelers are not allowed in the College on Wed & Sat when only cycles are to be used. Cycles can be hired locally.

Messing

14. Students are reqd to dine in respective Messes. Please note that the Mess Bill is reqd to be paid by Net Banking / Credit / Debit cards only.

Claims

15. Any Claims in connection with the Course will be initiated by respective Clubs of Students after termination of Course.

Dress Code

16. Dress for Class in CME, Pune is as under. Students should be in possession of these Dresses:

- | | | | |
|-----|---------|---|--------------|
| (a) | Service | - | OG/Combat |
| (b) | Civ | - | Shirt & Pant |

Lve

18. As a matter of policy, no lve is gtd during the Course.

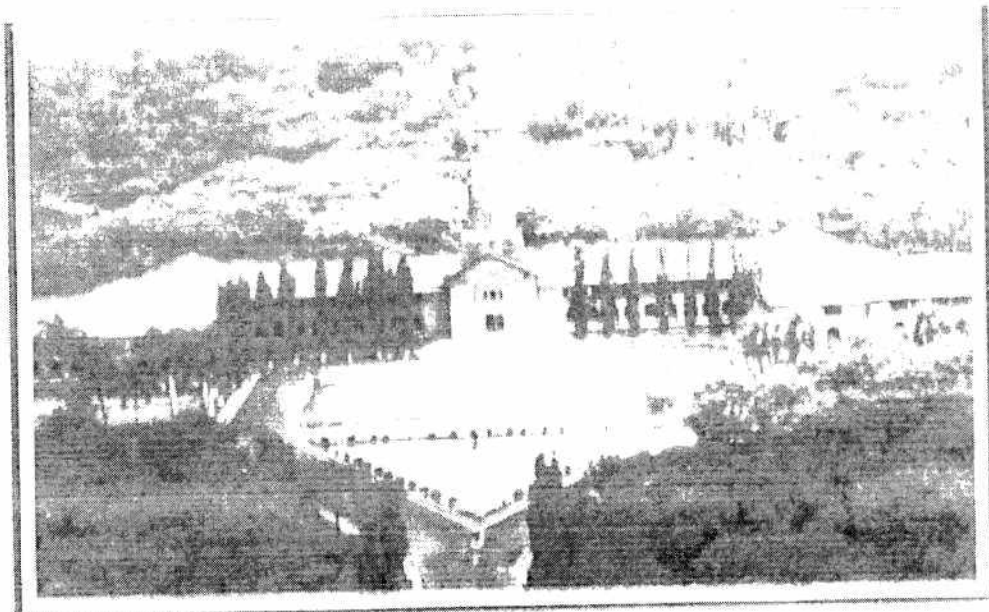
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BRIEF OF CME

History

1. In 1934 the First batch of Indian Engineer Officers (after training at the Royal Military Academy, Woolwich) were given instruction in Military Engineering at the School of Military Engineering, Chatham. As the requirement of Engineer Officers increased during World War - II Officer Cadet Training units were established at the three Engineer Centres at Bangalore, Roorkee and Kirkee, where Cadets were given military as well as field engineering training.
2. After World War-II, it became evident that centralised training of Officers and other ranks of the Corps was essential. Therefore, it became necessary to find a home for the School of Military Engineering. The School started functioning in Thomson College, Roorkee, during November 1943. After careful consideration, to cater for its expansion, the present site at Pune was selected. By end 1947, the School of Military Engineering started moving to its new location at Pune and completed the move by mid 1948.
3. In November 1951, in view of the increased responsibilities and training facilities provided at the School, it was decided to change its name to **College of Military Engineering** in keeping with the higher status of the Degree Engineering Courses and recognition by the Institution of Engineers (India). Work on permanent construction commenced in 1948 and most of the accommodation was completed by 1958. Rapid expansion of the College took place after 1963 to cater for the increased intake necessitated by the expansion of the Army.
4. **Alma Mater** of all Engineer Officers. CME is one of the Category 'A' establishments of the Army, under the Army Training Command (ARTRAC). CME has a role encompassing training, advisory, projects, research and experimentation for the Combat Engineers, Military Engineering Service, Border Roads Organisation and Survey. The training is conducted for Personnel of the Corps of Engineers, other Arms and Services, Navy, Air Force, Para Military Forces, the Police and Civilians.



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PERSONAL DETAILS OF OFFR / JCO / JE

- 1 (a) Personal No
- (b) Rank
- (c) Name
- (d) Honours and Awards (if any)
- (e) Married / Single
- 2 Unit
- 3 Fmn
- 4 Comd
- 5 Postal Address

- 6 Date of Commission / Seniority
- 7 Ser Details Yr Appt /Unit Loc
 - (a) Regt
 - (b) Staff
 - (c) ERF /Inst

- 8 Courses Attended Grading Yr
 - (a)
 - (b)
 - (c)
 - (d)
 - (e)

- 9 ETA Details
 - (a) Date (b) Air Fit Details
 - (c) Train Name
 - (d) Rly Stn - Pune / Khadki / Pune Air Port

- 10 Pers Veh

CERTIFICATE OF UNDERTAKING BY THE OFFR / JCO / JE

1. No. Rk. Name
Unit am willing to attend (Name of Course)
Serial No. Commencing from to at
..... (Name of Institution) despite being a permanent LMC
(SHAPE Factor) for (disability)

2. I undertake that I will neither claim liability nor any compensation either against the
admin or the med auth if any aggravation in my med condition occurs due to sch course

Place:

DI:

(Sign of the individual)

COUNTERSIGNED BY OC / CO UNIT



MED CERTIFICATE OR PRESENT STATUS OF DISABILITY

1 It is certified that No. _____ Rk. _____ Name _____
Unit _____ is in Med Cat _____ for the disability
and the disability at present is stabilised.

2 The last Med Bd in respect was held on _____ and the next Med Bd is due
on _____.

Place _____

(Sign of the RMO/AMC Specialist)

DI
(Office Seal)

MED FITNESS CERTIFICATE

1. Certified that No _____ Rk _____ Name _____
Unit _____ has been detailed to attend Course Ser No _____ commencing
at CME, Pune wef _____ to _____

2. His present Med Cat is SHAPE-1. (NOTE : OBESITY factor may please be pecifically checked)

3. He is free from infectious and contagious disease

4. The individual has been examined by me and found FIT / UNFIT to proceed on above mentioned course.

5. It is confirmed that NO (NO) Med Bd Proceeding concerning the individual is awaited from higher HQ after approval / confirmation

Stn _____

(Signature of Med Offr)

Date _____



Annexure VI

(Refers to Para 6 of Syllabus)

**BLOCK SYLLABUS, QUALITY CONTROL AND TESTING OF BLDG MTRLS COURSE
(QC & TBM)**

Topic	Theory	Practical
Completion of adm formalities	1	0
Opening address by Director	1	0
Consistency and Setting Time of Cement	0	2
Practicals on Initial & Final Setting Time of Cement	0	3
Theory on Determination of Fineness, Soundness and Compressive Strength of Cement	2	0
Casting of Cement Cubes to check Compressive Strength of Cement	0	5
Practicals on Fineness and Soundness Test	0	2
Theory on Sieve Analysis and Impact Value of Agg	1	0
Practicals on Sieve Analysis and Impact Value of Agg	0	4
Theory on Abrasion, Crushing Value, Flakiness Index and Elongation of Agg	2	0
Practicals on Abrasion, Crushing Value, Flakiness Index and Elongation of Agg	0	5
Theory on Specific Gravity, Water Absorption and Free Moisture Test of Course & Fine Agg	2	0
Practicals on Specific Gravity, Water Absorption and Free Moisture Test of Course & Fine Agg	0	5
Introduction of Mix Design & Mix Calculation, Slump Test and Compaction Factor Test	2	0
Practical on Mix Calculation, Slump Test and Compaction Factor Test	0	5
Theory on Compressive and Flexural Strength of Concrete	1	0
Practicals on Compressive and Flexural Strength of Concrete	0	6
Theory on Compressive Strength, Water Absorption on PCC Solid Block	1	0
Testing of Compressive Strength of Cement Cubes	0	3
Compressive Strength Test, Water Absorption Test on PCC Solid Block	0	3
Theory on Tensile Strength of Steel and Bend/Rebend Test of Steel	1	0
Practicals on Tensile Strength of Steel	0	4
Practicals on Bend/Rebend Test of Steel	0	4
Theory and Practical of Compressive Strength, Water Absorption and Efflorescence Test on Bricks	1	2
Introduction & Physical properties of soil, Sieve Analysis (Dry/Wet), Atterbergs Limit, Specific Gravity, Moisture Content	1	6
Theory and Practical on Free Swell, Optimum Moisture Content & Maximum Dry Density Compaction using Modified Proctor Method and CBR Test	1	4
Theory and Practical of Chemical Analysis of Cement, Soundness Test, Alkali Agg Reactivity Test and Organic Impurity & Deleterious Material Test on Agg	2	0
Determination of CO ₂ from Lime, Chemical Analysis of Water	0	3
Practical on Penetration, Softening Point, Flash Point Test on Bitumen and Separation Test	0	3
Theory and Practical of Ductility Test on bitumen, Viscosity of bitumen	1	0
Stripping Test on aggregates, Density of bitumen Core and Binder Extraction Test	1	0
Bitumen Mix Design to include Marshall Stability	2	0
Thin Film Oven Test, Elastic Recovery of bitumen and conduct of Separation Test	0	4
Case study & Panel discussion	3	0
Test / Exam on Course	3	0
Introduction of H/D and PCD Eval Equipments	1	3
Feedback and closing address	3	0
Adm formalities	4	0
TOTAL	36	90

The duration of course is 33 Weeks

(Handwritten signatures)

Annexure-VII

(Refers to Para 8 (a) of
Joining Instrns)

RECOMMENDED BOOKS

1. Elements of Civil Engineering by PK Khanna
2. Soil Mechanics Laboratory Manual.
3. Concrete Technology.
4. Any Std Book on Testing of Building Materials
5. HP Bitumen Handbook.



Annexure VIII

(Refers to Para 8. (b) of
Joining Instrns)

RECOMMENDED READINGS

1. Concerned IS / IRC Codes / ASTM / E-in-C's Branch Technical Instructions
2. Defence work Procedure
3. R-MES

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DETAILS OF ETA

1. Personal Details

- (a) No. _____
- (b) Rk & Name _____
- (c) Unit _____
- (d) Whether accompanied by family or single _____
- (e) Mode of travel _____

2. Date time and loc of arr. _____

3. Details of Train/Air Flt if applicable _____

4. Meals required on _____

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Annexure X

(Refers to Para of 12
of Adm Instrns)

No

Date

The Commandant
CME, Pune-31

REQUEST FOR STAY UNDER OWN ARMS
(APPLICABLE ONLY FOR THOSE WHO ARE POSTED
WITH LOCAL UNITS IN PUNE / THOSE WHO HAVE A HOUSE
IN PUNE, WHERE THEIR FAMILIES ARE RESIDING)

Sir,

I, No Rk Name.....
Unit detailed on.....
Course, request your permission to stay under my own arms at under mentioned address:-

Sign of Individual

Recommendation of OC/CO/Head of Est

[Handwritten mark]

[Handwritten mark]