

कार्यालय प्रमुख अभियंता

म.प्र.लोक निर्माण विभाग, प्लॉट नं.27-28 निर्माण भवन, अरेरा हिल्स भोपाल

website : www.mp.gov.in/pwdmp email : pwdbhop@mp.nic.in

Phone - 0755 - 2551485, Fax - 2556527

क्र. 03 / प्र.अ. / जनरल / NAC-Hyd / ट्रे / 2017-18

भोपाल दि. / 02 / 2018

प्रति,

प्रमुख सचिव,
मध्यप्रदेश शासन मंत्रालय,
लोक निर्माण विभाग, भोपाल

विषय :- मध्यप्रदेश लोक निर्माण विभाग के नवनियुक्त सहायक यंत्रीगण को National Academy of Construction (NAC) हैदराबाद में दिनांक 19.03.2018 से तीन सप्ताह का इनडक्शन प्रशिक्षण दिये जाने बाबत।

- संदर्भ:- 1. शासन का पत्र क्र. 360 / 3218 / 2017 / स्था / 19 भोपाल दिनांक 30.01.2018
2. नेशनल अकादमी ऑफ कंस्ट्रक्शन NAC हैदराबाद पत्र क्र. NAC/P&PR / TRG / PWD / 2017-18 Date- 16-01-2018
3. कार्या.पत्र क्र. 03 / प्र.अ. / जनरल / NAC-Hyd / ट्रे / 2017-18 / 821 भोपाल दि. 07 / 02 / 2018

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कृपया उपरोक्त संदर्भित पत्रों का अवलोकन करने का कष्ट करें। सरल क्र.3 पर अंकित संदर्भित पत्र की निरन्तरता में विभाग के शेष 31 नवनियुक्त सहायक यंत्रीगण (सिविल) को NAC हैदराबाद में दिनांक 19.03.2018 से तीन सप्ताह लगभग (21दिन) तक प्रशिक्षण हेतु द्वितीय बैच में निम्नानुसार नामांकित किया जाना प्रस्तावित है:-

| क्र | अधिकारियों के नाम | पदनाम | पदस्थगी कार्यालय का नाम | मोबाईल नं. |
|-----|---------------------------|--------------|-------------------------------------|------------|
| 1 | श्री साहित्य तिवारी | सहायक यंत्री | लो.नि.वि.पी.आई.यू. सिंगरौली | 8989111839 |
| 2 | श्री पंकज खराडी | सहायक यंत्री | लो.नि.वि. उपसंभाग नीमच | 8602337418 |
| 3 | सुश्री प्रीती यादव | सहायक यंत्री | लो.नि.वि. उपसंभाग भोपाल | 7974409283 |
| 4 | श्री मनीष कुमार शर्मा | सहायक यंत्री | लो.नि.वि. मंडल ग्वालियर | 7354983011 |
| 5 | श्री विष्णु भगवान | सहायक यंत्री | लो.नि.वि. उपसंभाग विजयपुर | 7417819890 |
| 6 | सुश्री आरती पटेल | सहायक यंत्री | लो.नि.वि. उपसंभाग चिचौली | 7898669683 |
| 7 | श्री अन्वेष प्रताप सिंह | सहायक यंत्री | लो.नि.वि. जिला उपसंभाग क्र. 2 इंदौर | 8085210148 |
| 8 | श्री अजय उपाध्याय | सहायक यंत्री | लो.नि.वि. उपसंभाग निमाड़ | 9179317081 |
| 9 | श्री नितिन पटेल | सहायक यंत्री | लो.नि.वि. उपसंभाग बरेली | 9981380603 |
| 10 | सुश्री वर्षा मिश्रा | सहायक यंत्री | लो.नि.वि. पी.आई.यू. नरसिंहपुर | 8269182968 |
| 11 | श्री पंकज कुमार बगरी | सहायक यंत्री | लो.नि.वि. उपसंभाग राजेन्द्र ग्राम | 9977192441 |
| 12 | श्री हर्षवर्धन सिंह मुवेल | सहायक यंत्री | लो.नि.वि. उपसंभाग जतारा | 9630881031 |
| 13 | सुश्री दिव्यानी सिंह | सहायक यंत्री | लो.नि.वि. सेतु उपसंभाग सतना | 9907620618 |

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|----|-------------------------|--------------|--------------------------------------------------|------------|
| 14 | श्री नितेश कुमार सुल्या | सहायक यंत्री | लो.नि.वि.पी.आई.यू धार | 94060734 |
| 15 | श्री कुलदीप चंद्रवंशी | सहायक यंत्री | लो.नि.वि. उपसंभाग सैलाना | 8085880420 |
| 16 | सुश्री हर्षिता वाष्णेय | सहायक यंत्री | कार्या. म.प्र.रोड डेवलपमेंट कार्पीरेशन, भोपाल | 9453041121 |
| 17 | श्री सौरभ गेहलोद | सहायक यंत्री | कार्यालय मुख्य अभियंता लो.नि.वि. जबलपुर | 9971496306 |
| 18 | श्री सोमेश श्रीवास्तव | सहायक यंत्री | कार्या. मुख्य अभि.लो.नि.वि.सेतु परिक्षेत्र भोपाल | 9584410161 |
| 19 | श्री अभिनव सिंह परिहार | सहायक यंत्री | कार्या. परियोजना संचालक पी.आई.यू. भोपाल | 8989530460 |
| 20 | सुश्री रिकू चौहान | सहायक यंत्री | कार्या. अधीक्षण यंत्री लो.नि.वि. मंडल भोपाल | 9098279209 |
| 21 | सुश्री नेहा राठौर | सहायक यंत्री | कार्यालय मुख्य अभियंता लो.नि.वि. उज्जैन | 9479853163 |
| 22 | सुश्री तेजस्वनी शुक्ला | सहायक यंत्री | कार्यालय अधीक्षण यंत्री लो.नि.वि. मंडल रीवा | 9651325505 |
| 23 | श्री विजय चौहान | सहायक यंत्री | कार्यालय मुख्य अभियंता लो.नि.वि. जबलपुर | 8871489140 |
| 24 | सुश्री नीतू पटेल | सहायक यंत्री | कार्या. अधीक्षण यंत्री लो.नि.वि. मंडल सागर | 8959860200 |
| 25 | श्री राहुल चौहान | सहायक यंत्री | कार्या. परियोजना संचालक पी.आई.यू. भोपाल | 9479589926 |
| 26 | श्री विनोद बरकने | सहायक यंत्री | कार्या.अधी.यंत्रीलो.नि.वि.मंडल क्र. 2 भोपाल | 7697009876 |
| 27 | श्री पुष्कल प्रताप | सहायक यंत्री | कार्या.अधी.यंत्री लो.नि.वि.सेतू मंडल ग्वालियर | 9981044395 |
| 28 | श्री शुभम मौर्य | सहायक यंत्री | कार्यालय मुख्य अभियंता लो.नि.वि.जबलपुर | 8471879757 |
| 29 | श्री आलोक मण्डलोई | सहायक यंत्री | कार्या परियोजना संचालक पी.आई.यू. भोपाल | 9993283889 |
| 30 | सुश्री दिव्यासिंह डोडवे | सहायक यंत्री | कार्या. अधीक्षण यंत्री लो.नि.वि. मंडल खंडवा | 8818848495 |
| 31 | सुश्री रेशम गामड़ | सहायक यंत्री | कार्यालय मुख्य अभियंता लो.नि.वि. इंदौर | 9893629442 |

NAC द्वारा उक्त प्रशिक्षण हेतु कोर्स फीस रु. 2600/- (रु.दो हजार छः सौ मात्र) प्रति प्रतिभागी प्रतिदिन+रु.468 (जी.एस.टी.) अर्थात रु.3068/- (रु.तीन हजार अड़सठ मात्र) के मान से शुल्क निर्धारित है। तदनुसार विभाग के कुल 31 अधिकारियों हेतु 3 सप्ताह (21 दिन) का लगभग (31 प्रतिभागी x 21 दिन x 3068/-) = रु. 19,97,268/- (रु. उन्नीस लाख सतानवे हजार दो सौ अड़सठ मात्र) का प्रशिक्षण शुल्क का भुगतान NAC हैदराबाद को किया जाना होगा।

कृपया उपरोक्तानुसार द्वितीय बेंच में नामांकित कुल 31 अधिकारियों को प्रशिक्षण में भाग लेने की अनुमति एवं राशि रु. 19,97,268/- की स्वीकृति प्रदान करने का कष्ट करें। अनुमति की प्रत्याशा में अधिकारियों को आवश्यक रूप से प्रशिक्षण में भाग लेने हेतु निर्देशित किया जा रहा है।

सहपत्र :- उपरोक्तानुसार

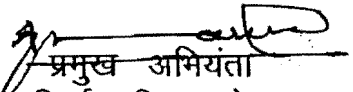
—हस्ता—
(इंजी. अखिलेश अग्रवाल)
प्रमुख अभियंता
लोक निर्माण विभाग, भोपाल

प्रतिलिपि:-

1. Director General NAC, National Academy of Construction An ISO 9001 :2008 Certified Academy, NAC Campus Cyberabad kothaguda (post) Hyderabad की ओर सूचनार्थ ।
2. प्रोजेक्ट डायरेक्टर, परियोजना क्रियान्वयन ईकाई (पी.आई.यू) लोक निर्माण विभाग भोपाल की ओर सूचनार्थ
3. प्रमुख अभियंता म.प्र. रोड डवलपमेंट कार्पोरेशन भोपाल की ओर सूचनार्थ
4. समस्त मुख्य अभियंतापरिक्षेत्र.....की ओर ।
कृपया अधिनस्थों द्वारा प्रशिक्षण में भाग लिया जाना सुनिश्चित करें। अपरिहार्य कारण से संबंधित अधिकारी द्वारा प्रशिक्षण में भाग लेने में असमर्थ रहने की स्थिति में दूरभाष पर अधोहस्ताक्षरकर्ता से अनुमति होने के उपरान्त अपने स्तर से अन्य अधिकारी को यथासमय नामांकित करते हुए इस कार्यालय को सूचित करें।
5. समस्त अधीक्षण यंत्री लोक निर्माण विभाग की ओर सूचनार्थ ।
6. संबंधित अधिकारी श्री.....की ओर । इस संबंध में सूचित किया जाता है कि NAC द्वारा प्राप्त प्रशिक्षण कार्यक्रम एवं लाजिंग बोर्डिंग संबंधित संदर्भित पत्र दिनांक 16.01.2018 उक्त पत्र के साथ विभाग की वेबसाइट पर अपलोड किया जावेगा। सभी नामांकित विस्तृत जानकारी हेतु वेबसाइट से पत्र डाउनलोड कर सकते हैं।

कृपया National Academy of Construction NAC An ISO 9001:2008 Certified Academy, NAC Campus Cyberabad kothaguda (post) Hyderabad (आंध्रप्रदेश) में आयोजित विषयांकित प्रशिक्षण में निर्धारित तिथि में प्रातः 8.00 बजे अपनी फोटो आईडी के साथ उपस्थित होना सुनिश्चित करें। पद स्थापना में परिवर्तन होने की स्थिति में भी आपके द्वारा भाग लिया जाना अनिवार्य है, अन्यथा आपके विरुद्ध अनुशासनात्मक कार्यवाही की जावेगी। प्रशिक्षण उपरान्त प्राप्त सर्टिफिकेट की छायाप्रति इस कार्यालय को आवश्यक रूप से भेजें।

7. आई.टी.सेल कार्यालय प्रमुख अभियंता लोक निर्माण विभाग भोपाल की ओर अपलोड करने हेतु ।


प्रमुख अभियंता
लोक निर्माण विभाग, भोपाल

8/2/18

10/11/18 83-



NATIONAL ACADEMY OF CONSTRUCTION

An ISO 9001: 2008 Certified Academy

NAC Campus, Cyberabad, Kothaguda (post), Hyderabad - 500 084
Phone: 048-23111914 & 23119107, Fax: 048-23111997, e-mail: info@nac.edu.in

Ref: NAC/P&PR/TRG/PWD/2017-18

Date: 16.01.2018

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From, Sri K Bikshapathi, Director General, National Academy of Construction, NAC Campus, Kothaguda, Hyderabad - 500 084 TS | To, Sri Vijay Singh Varma, Project Director, PW, Project Implementation Unit, Bhopal, Madhya Pradesh 0755-2551341/ 2411047 pwdbhop@mp.nic.in |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Respected Sir,

Sub: NAC-MPPWD - 2 to 4 weeks Induction Training Program for Engineers of PWD, Bhopal, MP - Reg.

At the outset NAC would like to thank you for giving an opportunity to impart Induction Training Program to newly recruited PWD Engineers. In continuation to our telecon, we are herewith submitting a proposal for 2 to 4 weeks Induction Training Program on above subject for your kind perusal.

2. National Academy of Construction is an ISO 9001:2008 certified Institute and affiliated to CSDCI of NSDC. NAC is recipient of prestigious awards Golden Peacock National Training Award 2017, CIDC Vishwa Karma Award 2012 & 2016.

3. The main objective of NAC is to upgrade knowledge and skills of construction engineers, contractors, managers, supervisors and workers and inculcate professionalism in them.

4. NAC is a unique institution which is running a whole range of training programmes from the grass root level for the construction workers in skill formation/ skill up-gradation to senior level engineers and architects in all respects of the construction technology, materials etc. NAC can design the programs as per the requirement of the sponsor.

5. NAC has conducted Executive Development Programs for working Engineers of R&B, CWEAF, TSMIDC, MPHIDB, PWD, HMWSSB etc. We are herewith attaching the schedule of topics required for training. NAC designs programmes as per the requirement of the client.

6. The detailed schedule is enclosed for kind perusal.

| | | |
|-----|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Title of the programme | : 2 to 4 weeks Induction Training Program |
| (b) | Level of participants | : Engineers |
| (c) | Venue | : NAC Campus, Hyderabad |
| (d) | Batch strength | : 30 - 40 Nos. |
| (e) | Duration | : 2 to 4 weeks |
| (f) | Type of the programme | : Residential |
| (g) | Course fee per head | : Rs.2,600/- per head per day plus GST as applicable for residential programme which includes the cost of boarding and lodging (non-AC Executive Accommodation with |

Training
JVM
6/2/18

R-1515
6/2/18

| | | |
|-----|-------------------|----------------------|
| | | non-vegetarian food) |
| (h) | Training schedule | As per Annexure - I |

7. All the lectures will be dealt by the reputed professors having good expertise on the subject programme and site visits. Practical sessions are also included wherever necessary. The details of the courses are as under:

8. In order to have clear understanding and for smooth running of the training programme with regard to academic, administration and financial matters, the roles of National Academy of Construction and the sponsor are indicated below:

(i) **Role of National Academy of Construction (NAC):**

- (a) NAC will conduct the training programme at its premises, Hyderabad.
- (b) NAC will provide the faculty.
- (c) NAC will provide the course material.
- (d) On successful completion of training, NAC will issue the participation certificates.
- (e) NAC will provide executive accommodation and boarding facilities at its campus.
- (f) NAC will arrange site visits.

(ii) **Role of the Sponsor:**

- (a) Sponsor will nominate the officers for training at NAC Campus.
- (b) Sponsor will have to look after medical requirements for the participants.
- (c) Will appoint a coordinator to liaison with NAC as and when necessary.
- (d) Sponsor will bear the training cost mentioned above.

9. **General Conditions:**

- (a) The medium of instruction shall be in English and Hindi.
- (b) NAC needs 15 days advance notice to commence training programs.
- (c) Participants should maintain strict discipline at NAC Campus.
- (d) Alcohol / Beverages are strictly prohibited.

10. The course fee is to be paid in advance by way of crossed Demand Draft drawn in favour of the Director General, National Academy of Construction on any nationalized bank, payable at Hyderabad.

11. Your representative may please discuss the modalities with Smt. I Shantisree, Director P & PR (Trg). The contact Nos are Office: 040-23111916-917, Extn 205, cell 9948444334 or Sri E Anjiah, Assistant Director (PC), Cell: 9676287287 email: shantisree@nac.edu.in.



Yours faithfully,

[Handwritten Signature]
 Director General, NAC
 16/1/18



ISO 9001:2008

NATIONAL ACADEMY OF CONSTRUCTION HYDERABAD

2 to 4 weeks Induction Training Programme (Including Holidays)
for Engineers of PWD Engineers, MP

TRAINING PROGRAM SCHEDULE

| Date | Time | Subject | Faculty |
|------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| | 10:30-17:00 | Registration & Inauguration, Introduction about NAC and Orientation | |
| | 10:00-13:00 | Building construction, Good Construction Practices, Advanced Construction Techniques | Sri.N. Krishnam Raju, Advisor, APHB & MORD |
| | 14:00-17:00 | Basic Mistakes in Construction- Reinforcement Detailing <ul style="list-style-type: none">➤ Choice of Mandrel for Bar Bending➤ Staggering Bars For Continuity In Columns➤ Bar Lapping at Column – Beam Junction➤ Abrupt Kinking Of Bars In / Outside Columns➤ Defective Provision Of Ties In Column➤ Discontinuity Of Bars In Columns➤ Leaving The Bars For Future Expansion➤ Curtailment Of Bars In Beams➤ Unequal Covers In Beams➤ Reinforcement Detailing In Gables➤ Detailing Aspects In Slabs Spanning In Different Directions➤ Bends, Hooks And Links➤ Beam Stirrups➤ Different Types Of Ties➤ Detailing At Junction➤ Pile Cap, Circular Floors,➤ Do's and Don'ts in Reinforcement Etc. | Sri BVK Eshwar, Technical Director, Civil Aid |
| | | Quality Control / Quality Assurance <ul style="list-style-type: none">➤ Timely progress of construction along with desired level of quality.➤ How to achieve➤ Methodology, workmanship, testing, controls.➤ Who to achieve➤ Responsibilities of individual / organizations / parties to the contract. | Sri BVK Eshwar, Technical Director, Civil Aid |

| | | | |
|--|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| | 10:00-13:00 | Foundations <ul style="list-style-type: none"> ➤ Classification of Foundations ➤ Shallow foundations ➤ Deep Foundations ➤ Foundation Loads ➤ Dead Load, Live Load ➤ Wind Load ➤ Structural Member Forces ➤ Uplift, Earthquake ➤ Primary Factors Affecting Foundation Requirements of geotechnical design of foundations | Prof. VRK Murthy, NICMAR |
| | 14:00-17:00 | Site Investigation for Buildings <ul style="list-style-type: none"> ➤ To obtain soil profile ➤ To collect disturbed / un-disturbed samples for laboratory tests. ➤ To conduct field tests ➤ Standard Penetration Test ➤ Dynamic Cone Penetration Test (DCPT) ➤ Plate Load Test ➤ Static Cone Penetration Test (SCPT) ➤ Vane Shear Test, etc | Prof. VRK Murthy, NICMAR |
| | 09:30 -11:00 | Concrete and mix designs | Sri Santhosh, Civil Aid |
| | 11:00 - 17:00 | Visit to Civil Aid | Sri Santhosh, Civil Aid |
| | 10:00 -13:00 | Construction Safety Health & Environment, All Construction Equipments Management, Working at Heights, Accidents and Preventive Measures | Sri. G.P.Sai Sanathan, Scientific Officer (Safety), Govt. of India |
| | 14:00 - 17:00 | Interpersonal Relations & Team Work | Sri. Mahesh Soma, Corporate Trainer , ICFAI, Buisiness School |
| | 9:30-10:30 | Ethics & Values of Life | Brahma Kumaris |
| | 10:30-13:00 | Introduction to construction trades / Masonry | Smt. P Haritha, Faculty, NAC |
| | 14:00-17:00 | Bar bending Basics - Study of Drawings – Hooks and stirrups, chairs & covers – Mechanization in Barbending - Barbending Schedule for different structural members – Maintenance of stockyard. | Sri M Bhaskar, Faculty, NAC & Sri E.Shankar, Faculty, NAC |
| | 09:30-13:00 | Form Work Carpentry <ul style="list-style-type: none"> ➤ Types of formwork - DOKA form work system fixing for different elements - Removing, Sorting and Reuse -Scaffolding - Foundation & Column Form Work | Sri Satyanarayana Chary & Sri Veerabrahamam, Faculty, NAC |
| | 14:00-17:00 | Land Survey <ul style="list-style-type: none"> ➤ Survey Equipment - Documentation - Chain Survey -Prismatic Compass Survey – Dumpy level, Auto level – Theodolite, Total Station. | Sri M Bhaskar, Faculty, NAC |

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| | 9:30 -10:30 | Disc. nes & Environmental Awareness | Brahma Kumaris |
| | 10:30-13:00 | Plumbing and Sanitation > Introduction, Glossary Terms > Types of Tools > Types of Sanitary Equipments > Plumbing Installation Methods | Smt. M Indira, Faculty, NAC & Sri S.Yadagiri, Faculty, NAC |
| | 14:00-17:00 | Painting > Introduction > Tools & Equipments > Types of Paints > Ancillaries > Types of Materials > Surface Preparation | Technical Head, Asian Paints Smt. V Baby Jyothi, Faculty, NAC & Sri N Ramulu, NAC |
| | 10:30-17:00 | Site Visit to Double Bed Room Projects (Keesargutta, Ahmednagar) | Sri Murlidhar, Sr. Consultant, NAC |
| | 9:30-10:30 | Stress Management – Health & Happiness through meditation | Brahma Kumaris |
| | 10:30-17:00 | Total Station - Introduction and demonstration | Sri R. Rajkumar, Faculty, NAC |
| | 10:30-13:00 | Quantity Survey –IS 1200 Indian standard methods of measurement of building. and civil engineering works and estimation of buildings > Contracts > Measurements and costs on construction projects > Cost Planning > Value Engineering, Value Management > Feasibility Studies > Cost benefit analysis > Risk analysis | Sri Shashidhar, EE, R&B |
| | 14:00-17:00 | Total Station - Introduction and demonstration | Sri R. Rajkumar, Faculty, NAC |
| | 10:00-13:00 | Construction Project Management > Good Construction Practices > Project life cycle > Planning > Scheduling > Monitoring > Networks – CPM, PERT | Sri.N. Krishnam Raju, Advisor, APHB & MORD |
| | 14:00-17:00 | Orientation on 2 bed room houses in Government of Telangana | |

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| | 10:00-13:00 | Concrete Technology <ul style="list-style-type: none"> ➤ Durability, Workmanship and Materials ➤ Cement Concrete - Varieties & Application, Permeability & Durability of Concrete, Polymer Concrete - Fly Ash, Strength of Concrete, etc ➤ Mywan Shuttering – Formwork, Scaffolding & Shuttering, Reinforcement ➤ Brick Work ➤ Cement Concrete Work ➤ Concrete mix design ➤ Recommendations ➤ Batching Plant, Curing ➤ References, Remarks | Sri Pavan, Technical Head IJM |
| | 14:00-17:00 | Q.C LAB | Smt. P Haritha, Faculty, NAC |
| | 10:00-13:00 | M Books preparation – Measurements' of Buildings | Ms. Madhavi, DEE, R&B Dept |
| | 14:00-17:00 | ➤ | |
| | 10:00-13:00 | <ul style="list-style-type: none"> ➤ Essential ingredients in contract. ➤ Document Essentiality of Time. ➤ Termination of Contract. ➤ Damages, Dispute resolution. ➤ Arbitration and conciliation. ➤ Adjudication and effective preparation for litigation. | Sri CLN Murthy, Senior Advocate High Court |
| | 14:00-17:00 | Green Building Technology and site visit to green building (CII) | Sri Anand, Associate Professor, CII |
| | 10:30-17:00 | Total Station – Introduction and demonstration | Sri R. Rajkumar, Faculty, NAC |
| | 10:30-17:00 | <ul style="list-style-type: none"> ➤ Tendering, Valuation, ➤ Dispute resolution, Claims Management, ➤ Cost estimation and value for money | Sri Shashidhar, EE, R&B |
| | 10:30-13:00 | Construction Equipment <ul style="list-style-type: none"> ➤ Types of Equipment ➤ Batching & concrete Mixer ➤ Ready Mixed Concrete Mixer ➤ Non agitating Truck, Agitator Trucks ➤ Vibrators, Hydraulic excavator ➤ Bulldozer, Scraper, Types of Cranes ➤ Dozer, Trencher ➤ Drilling and the equipment for Rock excavation ➤ Exploratory drilling equipment ➤ Piling equipment, Compactor ➤ Dewatering equipment, Grouting equipment etc | NACIEL |
| | 14:00-17:00 | Building Services, Water Supply and Sanitation for buildings & NBC (National Building Code) | Sri P Shashidhar, EE, R&B |

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| | 09:00-17:00 | Elect. Installation in Buildings The installation shall comply to the following standards: <ul style="list-style-type: none"> ➤ Indian Electricity Act, Indian Electricity Rules, ➤ Indian Standard Specifications, ➤ Regulation prescribed by C.E.I of concerned state and as well as Electricity department / Undertakings, ➤ Standards prescribed by the Factory Inspectors, ➤ Relevant Standards and safety regulation prescribed by the State and Central Government authorities. ➤ Load Calculation, Joints and Looping ➤ Control at Point of Entry of Supply, Switch Boards ➤ Capacity of Circuits, Circuit Breakers ➤ Distribution Systems | Sri Y Ganapathi Rao, Retd. Technical Engineer (Elec), IAF |
| | 10:30-17:00 | Construction of Pavements <ul style="list-style-type: none"> ➤ Classification of Pavements ➤ Flexible Pavements ➤ Rigid Pavements ➤ Semi-rigid pavements ➤ Composite pavements Pavement Structure Consists of <ul style="list-style-type: none"> ➤ Sub Grade ➤ Sub Base ➤ Base ➤ Surface Course For estimating the DESIGN TRAFFIC information required <ul style="list-style-type: none"> ➤ Initial traffic, Traffic growth rate ➤ Design life ➤ Vehicle damage vector ➤ Distribution, Design and Construction | Sri V Venkata Naryana, Executive Engineer, R&B |
| | 10:00-17:00 | Precast concrete construction: Introduction, varieties, practices in India., Visit to Precast Unit | Sri. C.N.Sridhar, Technical Head, Preca Limited, |
| | 10:00-13:00 | Introduction to Construction Chemicals & Waterproofing, Types, Concept and tools used in Water proofing of Basement, Horizontal Vertical/ Retaining walls, wet areas – toilets, bathrooms, sunken areas & balconies, new construction, Terraces & Roofs; Estimation of Materials, Application areas of waterproofing - Water Proofing, Use of Chemicals & Repairs. Case Study of Rehabilitation of Buildings | Sri. Rajeev, Senior Consultant, FOSROC Chemical |
| | 14:00-17:00 | An Overview on High Rise Buildings <ul style="list-style-type: none"> ➤ Introduction ➤ Load Bearing ➤ RCC Framed ➤ Composite Structure ➤ Detailed Design | Sri Y Chandra Sekhar, Chief Consultant, Sandlia Engineering Consultants |

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| | | <ul style="list-style-type: none"> ➤ Specifications ➤ Exposure Condition ➤ Water Supply in Multy Storage Building ➤ Air Conditioning of High Rise Buildings ➤ Fire Safety in Multi Stored Office Buildings ➤ Visit to High Rise Buildings | |
| | 10:00-13:00 | Modern Building Materials & Technology - Dry Wall & False Ceiling Techniques, Use of Gyproc Plastering etc. | Sri Chandra Sekhar, Faculty, NAC |
| | 10:00-13:00 | Introduction to MEP Module (Mechanical, Electrical, Plumbing) <ul style="list-style-type: none"> ➤ Structural Designing ➤ Plumbing Designing ➤ Electrical Designing ➤ HVAC Designing | Sri M Chakradhar Founder & CEO, MEP Center Dhanush Engineering Services Pvt. Ltd. |
| | 14:00-17:00 | Post Tension Slabs <ul style="list-style-type: none"> ➤ Post Tensioning in Building Construction ➤ Unbounded, Grouted / Bonded Post Tensioning ➤ Post Tensioning Mat Foundation ➤ Advantages of Post Tensioning | |
| | 10:00-13:00 | Standard Operating Procedures in Building Construction | |
| | 14:00-17:00 | Site Visit | |
| | 10:00-17:00 | Leadership Qualities, Decision Making and Conflict Resolutions | Sri VT Rajan, Technical Chief Manager (Retd.), Syndicate Bank |
| | 10:00-17:00 | Interactive Session and Valedictory | Sri K Bikshapathi, DG, NAC |