

कार्यालय प्रमुख अभियंता

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

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Phone - 0755 - 2551485, Fax - 2556527

क्र. 03/प्र.अ./जनरल/NAC-Hyd/ट्रे/2017-18/821 भोपाल दि.07/02/2018
प्रति,

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

विषय :- मध्यप्रदेश लोक निर्माण विभाग के नव नियुक्त सहायक यंत्रीगण को National Academy of Construction (NAC) हैदराबाद में दिनांक 26.02.2018 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

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कृपया उपरोक्त संदर्भित पत्रों का अवलोकन करने का कष्ट करें। पत्रों की छायाप्रति मय सहपत्रों के सुलभ संदर्भ हेतु संलग्न है। NAC हैदराबाद द्वारा NAC कैम्पस में दिनांक 26.02.2018 से तीन सप्ताह तक प्रशिक्षण में विभाग के निम्नानुसार 35 अधिकारियों को नामांकित किया जाना प्रस्तावित है:-

(प्रथम खंभ)

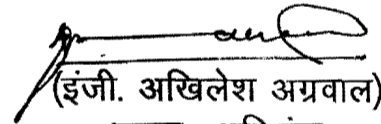
क्र	अधिकारियों के नाम	पदनाम	पदस्थगी कार्यालय का नाम	मोबाईल नं.
1	सुश्री अर्चना ठाकुर	सहायक यंत्री	लो.नि.वि.पी.आई.यू. होशंगाबाद	9165608529
2	श्री मनदीप डाबर	सहायक यंत्री	लो.नि.वि.पी.आई.यू. बडवानी	8959543087
3	श्री ज्ञानदीप भूमरकर	सहायक यंत्री	लो.नि.वि.पी.आई.यू. बैतूल	9074571826
4	सुश्री प्रीती दिनकर	सहायक यंत्री	लो.नि.वि. सेतु उपसंभाग शाजापुर	8349275898
5	सुश्री वर्षा अवस्थी	सहायक यंत्री	एम.पी.आर.डी.सी. मुख्यमन्त्र भोपाल	7067701664
6	श्री अमित नर्गेश	सहायक यंत्री	एम.पी.आर. डी.सी. संभागीय कार्या. शहडोल	9407148464
7	श्री प्रतीक शर्मा	सहायक यंत्री	एम.पी.आर.डी.सी. संभाग कार्या. चम्बल मुख्या. ग्वालियर	9806568001
8	श्री सूरज ज्ञानिया	सहायक यंत्री	लो.नि.वि. उपसंभाग गरोठ	9755905221
9	श्री आकाश खरे	सहायक यंत्री	लो.नि.वि. उपसंभाग रा.रा. परि.सागर	9806712120
10	श्री सजल उपाध्याय	सहायक यंत्री	कार्यालय प्रमुख अभियंता लो.नि.वि. भोपाल	7987207716
11	सुश्री गुरनीतकौर भाटिया	सहायक यंत्री	कार्यालय प्रमुख अभियंता लो.नि.वि. भोपाल	9653787148
12	सुश्री शानुल सक्सेना	सहायक यंत्री	लो.नि.वि. उपसंभाग खण्डवा	8989733177
13	सुश्री श्रद्धा पाठक	सहायक यंत्री	लो.नि.वि. उपसंभाग जावरा	9039823406
14	श्री नितेश कुमार सूर्यवंशी	सहायक यंत्री	लो.नि.वि. उपसंभाग क्र.1 सिवनी	9098033586
15	श्री शशांक नामदेव	सहायक यंत्री	कार्यालय अधीक्षण यंत्री, लो.नि.वि. मंडल गुना	8269637134
16	श्री राहुल गुप्ता	सहायक यंत्री	कार्यालय परियोजना संचालक पी.आई.यू.भोपाल	9650409372
17	श्री सुमित पाटीदार	सहायक यंत्री	कार्यालय अधीक्षण यंत्री लो.नि.वि. मंडल जबलपुर	9039059979
18	श्री ईशान निगम	सहायक यंत्री	कार्यालय मुख्य अभियंता लो.नि.वि.जबलपुर	8871314535

श्री गौरव त्रिपाठी	सहायक यंत्री	कार्यालय परियोजना संचालक पी.आई.यू. भोपाल	9795746095
श्री वाशु मित्तल	सहायक यंत्री	कार्यालय म.प्र.रोड डेवलपमेंट कार्पोरेशन, भोपाल	7409176303
श्री दीपक कुमार	सहायक यंत्री	कार्या. अधीक्षण यंत्री लो.नि.वि. मंडल क्र 1 भोपाल	9691231441
श्री अर्णव कुमार गुहा	सहायक यंत्री	कार्यालय परियोजना संचालक पी.आई.यू. भोपाल	9009545747
श्री सुश्री स्तुति गौतम	सहायक यंत्री	कार्यालय मुख्य अभियंता लो.नि.वि. रीवा	9911620782
श्री संदीप बेनीवाल	सहायक यंत्री	कार्यालय मुख्य अभियंता लो.नि.वि.उज्जैन	7879583352
श्री जोगिन्दर सिंह यादव	सहायक यंत्री	कार्यालय अधीक्षण यंत्री लो.नि.वि. मंडल गुना	8494993473
श्री इंद्रदेव पटेल	सहायक यंत्री	कार्यालय अधीक्षण यंत्री लो.नि.वि. मंडल नौगांव	9109032675
सुश्री तनुश्री नेमा	सहायक यंत्री	कार्यालय अधीक्षण यंत्री सेतु मंडल भोपाल	8989428191
सुश्री पूनम तुरकर	सहायक यंत्री	कार्यालय प्रमुख अभियंता लो.नि.वि. भोपाल	7694849439
सुश्री अपर्णा त्रिपाठी	सहायक यंत्री	कार्यालय प्रमुख अभियंता लो.नि.वि. भोपाल	7898896028
श्री अमित भूरिया	सहायक यंत्री	कार्यालय म.प्र.रोड डेवलपमेंट कार्पोरेशन, भोपाल	8982820047
सुश्री मेघा शिवहरे	सहायक यंत्री	कार्यालय मुख्य अभियंता लो.नि.वि.ग्वालियर	9826219993
सुश्री अल्पना अहिवार	सहायक यंत्री	कार्यालय मुख्य अभियंता लो.नि.वि.सागर	9340379238
सुश्री साधना सिंह	सहायक यंत्री	कार्यालय अधीक्षण यंत्री लो.नि.वि. मंडल सागर	8109747715
श्री भूपेन्द्र सिंह लोधी	सहायक यंत्री	कार्यालय अधीक्षण यंत्री लो.नि.वि. मंडल शहडोल	9685765306
सुश्री आशा कनौजे	सहायक यंत्री	कार्यालय मुख्य अभियंता लो.नि.वि. इन्दौर	9425415744

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 अडसठ मात्र) के मान से शुल्क निर्धारित है। तदनुसार विभाग के कुल 35 अधिकारियों हेतु 3 सप्ताह (21 दिन) का लगभग (35 प्रतिभागी x 21 दिन x 3068) रु. 22,54,980/- (रु. बाईस लाख चौवन हजार नौ सौ अस्सी मात्र) का प्रशिक्षण शुल्क का भुगतान NAC हैदराबाद को किया जाना होगा।

कृपया उपरोक्तानुसार कुल 35 अधिकारियों को प्रशिक्षण में भाग लेने की अनुमति एवं राशि रु. 22,54,980/- 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।

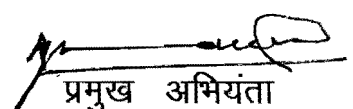
सहपत्र :-उपरोक्तानुसार


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

क्र. 03/प्र.अ./जनरल/NAC-Hyd/ट्रे/2017-18/822 भोपाल दि.07/02/2018
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.....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 प्रातः8.00 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

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
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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.

Training
JVM
6/2/18

R-1515
6/2/18

(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

		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 Anjaiah, 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

	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	

	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

	09:00-17:00	<p>Elect. Installation in Buildings The installation shall comply to the following standards:</p> <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	<p>Construction of Pavements</p> <ul style="list-style-type: none"> ➤ Classification of Pavements ➤ Flexible Pavements ➤ Rigid Pavements ➤ Semi-rigid pavements ➤ Composite pavements <p>Pavement Structure Consists of</p> <ul style="list-style-type: none"> ➤ Sub Grade ➤ Sub Base ➤ Base ➤ Surface Course <p>For estimating the DESIGN TRAFFIC information required</p> <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	<p>An Overview on High Rise Buildings</p> <ul style="list-style-type: none"> ➤ Introduction ➤ Load Bearing ➤ RCC Framed ➤ Composite Structure ➤ Detailed Design 	Sri Y Chandra Sekhar, Chief Consultant, Sandlia Engineering Consultants

		<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