Amrutvahini Sheti & Shikshan Vikas Sanstha's
**Amrutvahini College of Engineering, Sangamner**

- Approved by AICTE, New Delhi
- Accredited three times by NBA, New Delhi
- "A" Grade by NAAC
- Affiliated to Savitribai Phule Pune University
- "A" Grade by DTE, Govt. of Maharashtra
- An ISO 9001 : 2008 Certified

Estd. 1983

**Best Engineering College (Professional-Rural) Award by Savitribai Phule Pune University**

Ref./AE/Civil/2017-18/

Date: 15 March 2018

To,
**Mr. Hemant Patil**
**ApaH**
**Trainers and Consultants**
**Kothrud, Pune- 411038.**

**Subject:** Invitation as a resource person for one day Workshop on "Bar Bending Schedule"

**Reference:** Verbal communication and telephonic discussion with HOD Civil Department.

Sir,

I am very happy to communicate to you that Expert Lecture Series "**Amrut-Manthan**" is being organized by Civil Engineering Department during **March 2018** at our institute.

The Objective of the Expert Lecture Series is to enhance the knowledge of Students and Teachers, which will lead them in the form **Quantity Surveying Contracts and Tender Subject and working.**

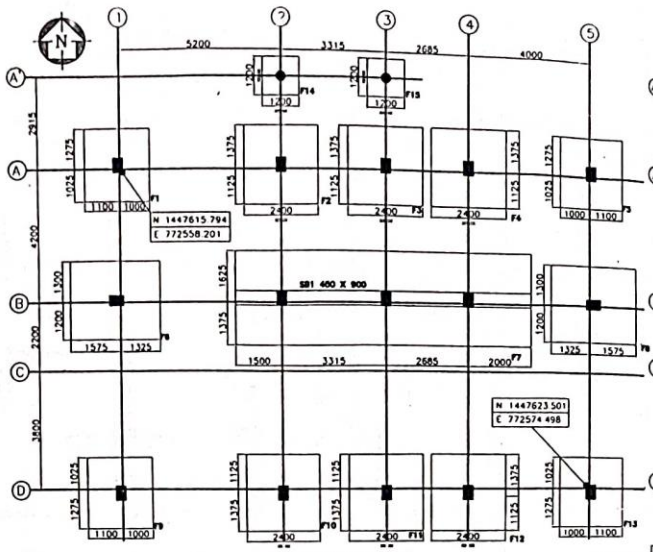
Your contribution in the field of **Bar Bending Schedule** is well recognized, We are very much thankful to you for showing interest and giving consensus for delivering expert session on the topic **"Bar Bending Schedule"** on dated **17 March2018 (Saturday)**

Looking forward your visit in our institute and valuable guidance and inputs to our students to be a well practitioner in future.

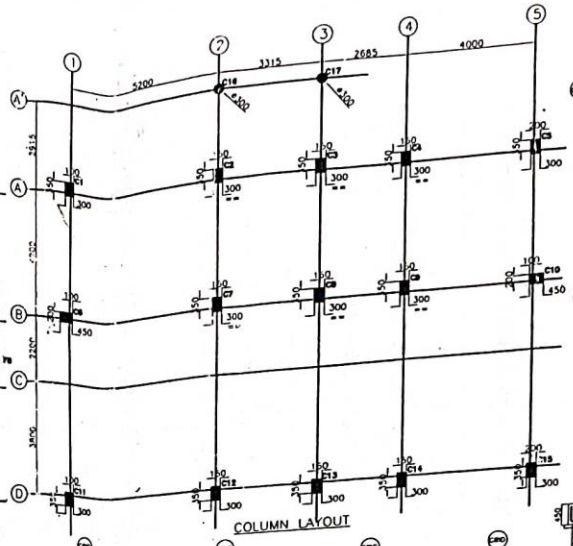
Waiting for your resourceful interaction.
With warm regards.
Thanking you,

**Principal**
**AVCOE, Sangamner**

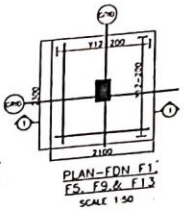
At - Amrutnagar, P.O. - Sangamner S.K., Sangamner - 422 608, Dist. Ahmednagar (MS), India
02425 - 259 - 018, 017, 096, 293 principal@avcoe.org 02425-259016 www.avcoe.org



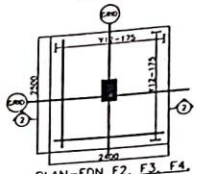

FOUNDATION LAYOUT




COLUMN LAYOUT



PLAN-FDN F1, F5, F9 & F13
SCALE 1:50



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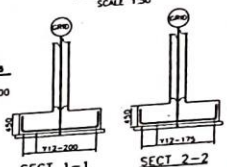
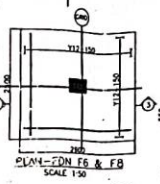


SECT 1-1
SCALE 1:50

SECT 2-2
SCALE 1:50



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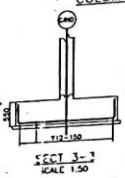

SECT 3-3
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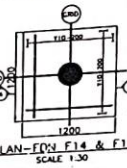
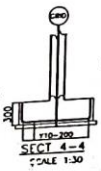
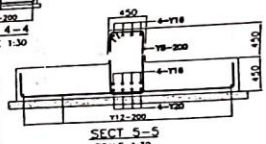


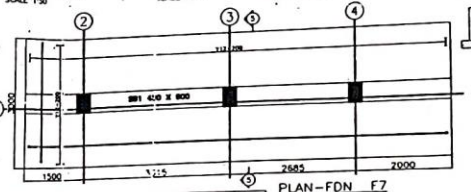
PLAN-FDN F14 & F15
SCALE 1:30



SECT 4-4
SCALE 1:30



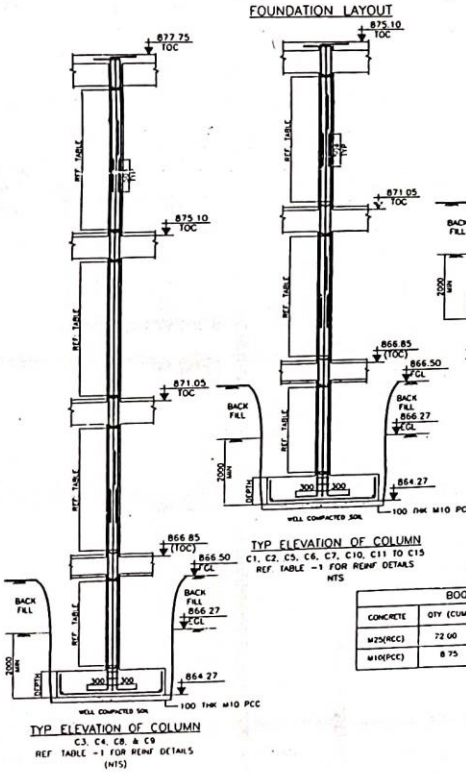
SECT 5-5
SCALE 1:30




PLAN-FDN F7
SCALE 1:50

THF HOOK IN OPEN TIES
NTS

THF HOOK IN CLOSED TIES
NTS




TYP ELEVATION OF COLUMN
C3, C4, C8, & C9
REF TABLE -1 FOR REINF DETAILS
(NTS)

TYP ELEVATION OF COLUMN
C1, C2, C5, C6, C7, C10, C11 TO C15
REF. TABLE -1 FOR REINF DETAILS
NTS

TYP ELEVATION OF COLUMN
C-16 & C17
REF. TABLE -1 FOR REINF DETAILS
(NTS)

BOQ (APPRX)

| CONCRETE | QTY (CUM) | STEEL | QTY (T) |
|---|---|---|---|
| M25(RCC) | 72.00 | Y8 | 0.900 |
| M10(PCC) | 8.75 | Y10 | 0.050 |
| | | Y12 | 1.400 |
| | | Y16 | 1.050 |
| | | Y20 | 3.000 |
| | | TOTAL | 6.400 |

SCHEDULE OF COLUMN (TABLE-1)

| COLUMN | SIZE | REINFORCEMENT |
|---|---|---|
| C1 & C5 | 450 x 300 | 6-Y16, Y8-175, 4-Y12 |
| C2 & C3 | 450 x 300 | 8-Y16, Y8-200 |
| C3, C11 & C15 | 450 x 300 | 4-Y20, Y8-200, 4-Y16 |
| C6, C7, C8, C9 & C10 | 450 x 300 | 10-Y20, Y8-200 |
| C12, C13 & C14 | 450 x 300 | 8-Y20, Y8-200 |
| C16, C17 | ø300 | 8-Y16, Y8-200 |

NOTES:

1. ALL DIMENSIONS ARE IN MM & EL ARE IN METERS
2. GRADE OF CONCRETE SHALL BE M25 WITH 20MM DOWN GRADED AGGREGATES.
3. ALL REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE Fe500(CRS) CONFIRMING TO IS 1786
4. FOUNDATION HAS BEEN DESIGNED FOR NET SAFE BEARING CAPACITY OF 12T/SQM AT FOUNDING LEVEL RL 864.270 AND THE SAME SHALL BE ENSURED AT SITE.
5. CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS.
   a. FOOTING -------- 50MM
   b. COLUMN -------- 50MM
6. LOOSE SOIL IF ENCOUNTERED AT THE FOUNDING LEVEL, SHALL BE EXCAVATED TILL HARD STRATA IS OBTAINED AND SHALL BE REPLACED WITH WELL COMPACTED SAND TO 95% PROCTER DENSITY
7. REINF IF RECD SHALL BE HARIZONALLY SHIFTED OR BENT BUT IN NO CASE SHALL BE CUT WITHOUT PRIOR APPROVAL OF ENGINEER
8. LAPS SHALL BE PREFERABLY STAGGERED SO THAT NOT MORE THAN 50% BARS ARE LAPPED AT SAME LOCATION
9. DEVELOPMENT LENGTH/LAP LENGTH SHALL BE 50 TIMES DIA OF SMALLER BAR LAPPED
10. AT CONSTRUCTION JOINT LOCATION, PROPER CARE SHALL BE GIVEN TO ENSURE BONDING OF CONCRETE.

LEGENDS:

1. FGL - FINISH GROUND LEVEL
2. FFL - FINISH FLOOR LEVEL
3. EGL - EXISTING GROUND LEVEL
4. TOC - TOP OF CONCRETE
5. NTS - NOT TO SCALE
6. TYP - TYPICAL
7. THK - THICK
8. DET - DETAIL
9. BW - BOTH WAYS
10. T&B - TOP AND BOTTOM

10/3/2018

# Workshop on Bar Bending schedule

| SR.NO | Name of students | Year & Class | sign. |
|---|---|---|---|
| 1 | Gunjal Manoj B. | BE-C | |
| 2 | Sabale Bhushan S. | BE-C | |
| 3 | Ghule Sairaj P. | BE-C | |
| 4 | Balode Vikram G. | BE-C | |
| 5 | Gujarathi Sagar R. | BE-C | |
| 6 | Kawade pratik S. | BE-C | |
| 7 | Dighe Akshay B. | BE-C | |
| 8 | Gunjal Rahul W. | BE A | |
| 9 | Gunjal Nikhil S. | BE A | |
| 10 | Jagdale Atmey S. | BE A | |
| 11 | Gaundgave Anant. D. | BE-A | |
| 12 | Shirsath Rahul Malhari | BE-B | |
| 13 | Bhandari Kiran Kashinath | BE-A | |
| 14 | Saptal Rajesh Bhagwan | BE-B | |
| 15 | Narale Mahesh Madhukar | BE-A | |
| 16 | Bhadalkar Shubham Rajendra | BE-A | |
| 17. | Donkalwar Mahesh Vishwanath | (BE-C)21 | |
| 18 | Barke Darshan Subhash | (BE-C)07 | |
| 19. | Bachkar Shubham Bhausaheb | (BE-A)04 | |
| 20 | Chattar Amol M. | (BE-C)14 | |
| 21 | Navale Kuldip R | (BE-C)-35 | |
| 22 | Memane Dipraj | (BE-C) | |
| 23 | Mutkule Vikas B. | (BE-C) | |
| 24 | Auti Yogesh M. | BE-C | |
| 25 | Raut Rohan Balusaheb | BE-C | |
| 26 | Sonawane Swapnil Vilas | BE-C | |
| 27 | Tanwar Anand Pandit | BE-C | |
| 28) | Sawant Mitush Balu | BE-C | |
| 29) | Khairnar Kishori Dattatray | BE-C | |
| 30) | Shirsath Kavishma S. | BE-C | |

| | | | |
|---|---|---|---|
| 31) | Benure Radhika S. | BE 'C' | Benure |
| 32) | Argade Pooja V. | BE 'C' | Argade |
| 33) | Pawar Ashwini N | BE 'C' | Pawar |
| 34) | Salvi Eesha. S. | BE 'C' | Salvi |
| 35) | Bhore Vishakha H | BE 'C' | Bhore |
| 36) | Katke Chaitali S. | BE 'A' | Chaitali |
| 37) | Kedar swati T. | BE 'A' | Kedar |
| 38) | Jadhav Smita N | BE 'A' | Jadhav |
| 39) | Daye Shwetal P | BE 'A' | Daye |
| 40) | Borhade Trupti K. | BE 'A' | Borhade |
| 41) | Dasgupta Arundhuti | BE 'A' | Dasgupta |
| 42) | Chakor Sarla B. | BE-A' | Chakor |
| 43) | Gosavi Rovina B. | BE-A' | Gosavi |
| 44) | Sinare Nutan R | BE-B | Sinare |
| 45) | Birari Megha D | BE-A | Birari |
| 46) | Sanap Jyoti | BE-B | Sanap |
| 47) | Gharate Madhuri Y. | BE-A | Gharate |
| 48) | Phumal Kiran B. | BE-A | Phumal |
| 49 | Ahirao Shraddha S. | BE-A | Ahirao |
| 50 | Charan Supriya S. | BE-A | Charan |
| 51 | Benke Gitanjali S. | BE-A | Benke |
| 52 | Janbandhu Kinjal | BE-A | Janbandhu |
| 53 | Garje Tushar Baban | BE-A | Garje |
| 54 | Kattire Omprakash Sanjay | BE-C | Kattire |
| 55 | Shinde Sushil Bhaskar | BE-A | Shinde |
| 56 | Chobhe Akshay Dhondiram | BEA | Chobhe |
| 57 | Bagal Utkarsh Sharad | BEA | Bagal |
| 58) | Shivarkar Rahul. | BEB | Shivarkar |
| 59) | Tware Shreyash. | BEA | Tware |
| 60) | Chintamani Akshay | BEC | Chintamani |
| 61) | ~~Dighe Akshay~~ | BEC | Dighe |
| 62) | Kale Vijay. B | BEB | Kale |

| | | | |
|---|---|---|---|
| 63) | Sonawane Chandrakant P. | BE-B | |
| 64) | Maindad Mayur S. | BE-B | |
| 65) | Shivshankar N. Awale | BE-B | |
| ~~66)~~ | ~~Chintamani Akshay V.~~ | BE-C | |
| 66) | Biradar Amol | B.E A | |

12/3/18

Bar bending schedule - workshop. (BE-A)

| | name | Roll no. | sign |
|---|---|---|---|
| 1] | Kadlag Akshay. S. | 51 | |
| 2] | Khose Santosh B. | 60 | |
| 3] | Katkade Pramod S. | 55 | Katkade |
| 4] | Karale Akshay Balbhim. | 54. | Karale. |
| 5] | Goundgave Anant Dnyanoba | 30 | |
| 6]. | Juare Shreyash ghansham | 50 | |
| 7] | Khairnar Pranav | 58 | |
| 8] | Bhedalkar Shubham | 07 | Bhedalkar |
| 9] | Bagul Utkarsh Sharad | 05 | |
| 10) | Chobhe Akshay Dhondiram | 17 | |
| 11) | Garje Tushar Baban | 29 | |
| 12) | Gunjal Rahul waliba | 42 | |
| 13) | Pushing Akshay Arjun | 25 | |
| 14) | Gunjal Nikhil Shivaji | 40 | |
| 15 | Navale Mahesh Madhukar | 66 | |
| 16) | Jagdale Amey shriram | 47 | |
| 17) | Dale Vaibhav Gorakh | 19 | |
| 18] | Jagtap Sudhir Anandrao | 48 | |
| 19] | Kurhe Ajay Yadav. | 64 | |
| 20] | Kote Priyanka Vinayak | 61 | |
| 21] | Gunjal Akshada Ashok | 39 | |
| 22) | Kshatriya Aishwarya Arvind. | 62 | |
| 23) | Khemnar sonali Bhavaka | 59 | |
| 24) | Gosavi Ravina Balakrishna | 38 | |
| 25) | Gule Pukya Kailas | 34 | |
| 26) | Jadhav smita Hamdev | 46 | |
| 27) | Kanawade Bhagyashri Somnath | 53 | |
| 28) | Chakor Sonu Bhanudas. | 15 | |
| 29) | Gharate madhuri Jashwant | 33 | |
| 30) | Dhumal kiran Bhikaji | 22 | |
| 31) | Birari Megha Devidas | 13 | |

| | | | |
|---|---|---|---|
| 32] | Jaubandhu Kujal Prakash | 49 | Jaubandhu |
| 33] | Chavan Supriya Subhash | 16 | Chavan |
| 34] | Akhirao Shradha Satish | 1 | Akhirao |
| 35) | Benke Gitanjali Subhash | 6 | Benke |
| 36) | Gaikwad Pooja Raosaheb | 27 | Gaikwad. |
| 37) | Katke Chaitali | | Katke |
| ×38] | Kadtag Swati Babasaheb | 52 | |
| ×39] | Gore Yojana Rajesh. | 37 | |
| ×40) | Gunjal Snehal Uttam | 43 | Gunjal. |
| 41) | Daye Shwetal Popat | 21 | Daye |
| 42) | Borhade Trupti Kailas | 14 | Borhade |
| 43) | Dasgupta Arundhuti | 20 | Dasgupta |
| 44) | Kedare Swati T. | 57 | |

BE-B

# Bar Bending Schedule (Workshop)

| No. | Name |
|---|---|
| 59) | Rahul shivarkar — |
| 55) | Shewale Bhavesh G. — |
| 61) | Solanke Vaibhav. — |
| 14) | Maiudad Mayur S. — |
| 19) | Misal Rushikesh R — |
| 62) | Sonawane Chandrakant P. — |
| 06) | Kale vijay. B — |
| 65) | Vitnor Sachin J. — |
| 34) | Pawar shubham. S — |
| 52) | Shaikh Shahebaj. J — |
| 25) | Aditya Navandar — |
| 23) | Navale Vishal — |
| 37) | Kiran Phatangare — |
| 17) | Mehetre Atul P. — |
| 64) | Todmal shubham D. — |
| 42) | Raktate kisan D. — |
| 56) | Shinde Aniket B. — |
| 09) | Dhotre Rahul Laxman. — |
| 40) | Phophale Pratik R. — |
| 04) | Jadhav saurabh H. — |
| 11) | Kuradhe suraj S. — |
| 7) | Kashid Krushna A. — |
| 15) | Mane sanket Nanu — |
| 36) | Pawar Ghanshyam Daga (Bhai) — |
| 01 | Awale Shivshankar N. — |
| 48 | Rajesh Sapkal B. — |
| 21] | Mukane Mandar H. — |
| 38) | Prathamesh P. Phatangare — |
| 41] | Pravin Rohidas Rahane — |
| 08] | Khandagale Sayash sanjay — |

Bar Bending Schedule
CIVIL

Department of Civil Engineering
Bar Bending Schedule

BE - C Sai

Date: / /

Page

# Workshop Program on Bar Bending schedule

01. Balode Vikram G.
02 Chatlae Amol M.
03. Ghule Sairaj P.
04 Sawant Mitush B.
05 Tanwar Anand P.
06. Chintamani Akshay.V.
07. Barke Darshan.S.
08. Dontolwar Mahesh.
09 Taral Dattatya shankar
10 waizade yogesh Namdev
11 Bhorle madhusudan M.
12 Gunjal Avinash H
13 Pansaee Yogesh A
14 mutkule Vikas B
15 Havale kuldip R.
16 Kawade Pratik.S
17 Gujarathi Jayar.R
18 Sabale Bhushan.S.
19 Dighe Akshay B.
20 Bande Mahesh S.
21 Bamne Dnyaneshwar S.
22 Auti yogesh M.
23) Memane Dipraj V.
24) Bachhav Pankaj P.
25) Sonvane Swapnil.V.
26) Argade pooja V.
27) Benure Radhika
28) Khairnar Kishori
29) pawar Ashwini
30) Bhore vishakha.
31) salvi Eesha.