

46th
WEBINAR

YOU'RE CORDIALLY INVITED
TO ATTEND

Webinar on
EXCAVATOR BASED TECHNOLOGIES
IN GROUND ENGINEERING

by



Mr. Mohan Ramanathan

Managing Director

Advanced Construction Technologies

Chennai

TIME: JULY 14, 2020

@ 11:00 AM

Organized by IGS Student chapter, GEC
Department of Civil Engineering

GUDLAVALLERU ENGINEERING COLLEGE

An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada,
NAAC Accredited with A Grade & Accredited by NBA

Seshadri Rao Knowledge Village, Gudlavalleru, Krishna Dt, AP-521356

MEET US @



Meeting ID: 844 9455 1124

Password : 363045

ACT **Excavator Based Technologies in Ground Engineering**

Webinar Organised by IGS, Guntur Chapter & IGS student chapter, Gudavalluru Engineering College, Gudavalluru, Krishna Dist. AP

Presentation By:
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Advanced Construction Technologies (P) LTD,
 Chennai, India
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 Email: mohanact@gmail.com
 14th July, 2020

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Acknowledgements

.....many more

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GROUP COMPANIES

BUSINESS PARTNERS

SERVED SEGMENTS

- Mineral Aggregate Mining
- Industrial & Warehouse Flooring
- Dimension Stone Quarry
- Earth Work & Road Construction
- Decorative Concrete
- Civil infrastructure
- General Construction
- Demolition & Recycling
- Cross Country Pipe Laying
- River Training & Canal Irrigation
- Port Operations
- Industrial Material Handling
- 3PL (3 Party Logistics)

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PRESENTATION OUTLINE

- Statistics on Earth Moving Machines in India
- Why Ground Engineering is important to India?
- Possible areas of engagement of manufacturers?
- Methods and Machines
- How to engage contractors/entrepreneurs?
- How experts and academia can help?
- Action Points
- Conclusion

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Ground Engineering Methods were Invented by Greeks and Romans around AD 60

UHHH, MARCOS WHERE DID YOU GET THAT HELMET?

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Earthmoving Machinery Players in India

Mini(SSL & Mini Excavators)			Excavators(7T-120T)		
JCB	TATA HITACHI	GAMZEN	VOLVO	CATERPILLAR	
BOBCAT	KUBOTO	TEREX	KOMATSU	KOBELCO	
SANY	HYUNDAI	ACE	JCB	SANY	
TAKEUCHI	WACKR NEUSON	VECTRA	LIUGONG	DOSAN	
YANMAR	DOOSAN	L&T	XCMG	HYUNDAI	
Back Hoe Loaders			TATA-HITACHI		
JCB	ACE	BEML	BEML		
TEREX	ESCORTS	LEEBOY	LEEBOY		
JOHN DEERE	BULL				
BOBCAT	CATERPILLAR				
MAHINDRA	CASE				
TATA HITACHI	KOMATSU				

Annual market size in India: 70,000 units(2019)
 Active working units, pan India=380,000units(2019)

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Piling Machinery Players in India(All imported)

MAIT,ITALY
SOILMEC,ITALY
CASAGRANDE,ITALY
IMT,ITALY
BAUER,GERMANY
ZOOMLION,CHINA
XCMG,CHINA
SANY,CHINA
JUNTTAN,FINLAND
SUNWARD,CHINA

Why no Indian Manufacturers in Ground Engineering?

Total piling rig Population(2020)=2000units

PRD is the only Indian manufacturer who is making small drilling rigs

33 Manufacturers in India



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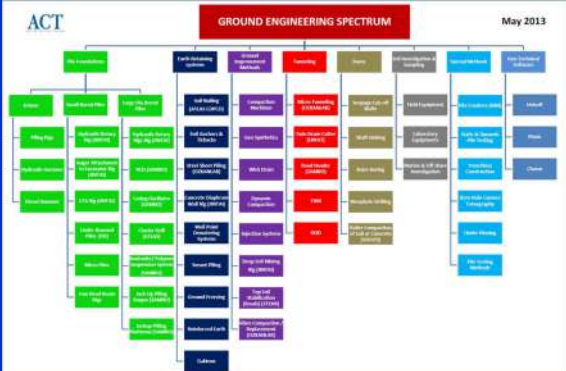
Ground Engineering engagement in our life



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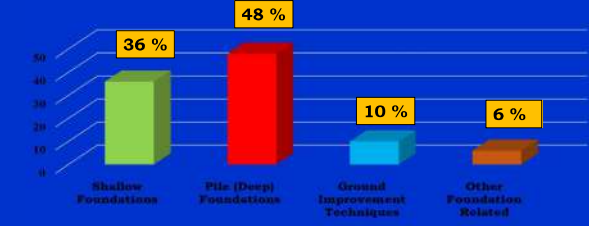
GROUND ENGINEERING SPECTRUM May 2013



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Deep Foundations Market Worldwide (World Market in %)



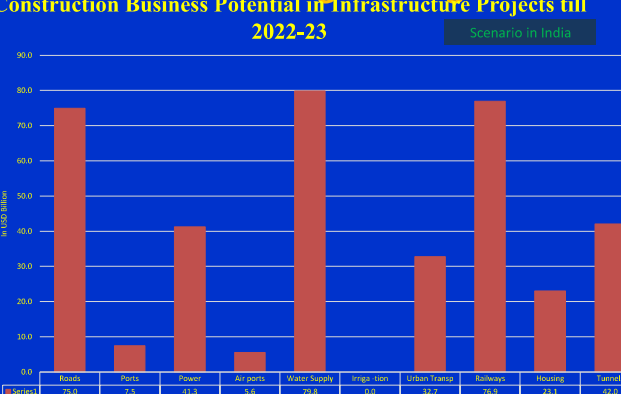
Source:
Recent evolutions in deep foundation technologies
Maurice Bottiau, Franki Geotechnics B

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Construction Business Potential in Infrastructure Projects till 2022-23

Scenario in India



Sectors	75.0	7.5	41.3	9.6	79.8	0.0	32.7	76.9	23.1	42.0
Roads	75.0									
Ports		7.5								
Rivers			41.3							
Air ports				9.6						
Water Supply					79.8					
Waste						0.0				
Urban Transport							32.7			
Railways								76.9		
Housing									23.1	
Manufact										42.0

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EXTREME PROFILES OF INDIA
Knowledge of Ground is important for all stake holders



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GUDLAVALLERU ENGINEERING COLLEGE

Seshadri Rao Knowledge Village:: Gudlavalleru

DEPARTMENT OF CIVIL ENGINEERING

List of Participants attended for the programme organised on 14 July 2020

S No	Full name	Designation	Organisation	Place of work	Phone number
1	Bommasani vijay kumar	Student	Gudlavalleru engineering college	Gudlavalleru	7675844625
2	Ch Ajay V	Student	Gudlavalleru Engineering College	Gudlavalleru	7981586079
3	E HARSHA VARDHAN	Student	Gudlavalleru Engineering college	Gudlavalleru	9666433796
4	Boyina Manohar	Student	Gudlavalleru Engineering college	Gudlavalleru	7702768918
5	Aslamur Rahaman	Student	Gudlavalleru Engineering College,Gudlavalleru	Gudlavalleru	8885248556
6	Naganaboina sivaji	Student	Gudlavalleru Engineering college	Gudlavalleru	9963893171
7	Naveen Palanki	Nsns	Gec	Gec	9705542454
8	G.kumar	Student	Gudlavalleru engineering college	Gudlavalleru	9392696284
9	Chidvilas Pallem	Student	Gudlavalleru engineering college	Gudlavalleru	7207702262
10	Sivanagaraju Badinedi	Student	Gudlavalleru engineering college	Guntur	7997020211
11	ALLAPARTHI PHANI CHARAN	B.Tech	GUDLAVALLERU ENGINEERING COLLEGE	GUDLAVALLERU	8309389975
12	Shaik Subhani	Student	Gudlavalleru Engineering College	Gudlavalleru	9182344894
13	SUBBA RAO YARLAGADDA	ASSISTANT PROFESSOR	Gudlavalleru Engineering College.	Gudlavalleru	9291660001
14	Gayathri SS	Associate Professor	BMSIT	BMS Architecture	9781953439
15	ARATHY MENON	Assistant Professor	VIVA INSTITUTE OF TECHNOLOGY	Virar East	9673084835
16	Arindam Sarkar	Assistant Professor	Institute of Technology Gopeshwar	Uttarakhand	8794293654
17	Yagyesh Narayan Shrivastava	Contractual Teacher	Jawahar Lal Nehru Krishi Vishwa Vidyalaya	Jabalpur	9131873719
18	v hanumantha rao chittam	lecturer in civil engineering	Government Polytechnic	Daman	9703454799
19	P V S N Pavan Kumar	Professor	Guru Nanak Institutions Technical campus	Hyderabad	7013051317
20	FIZA ZAHOOR MALIK	STUDENT	NIT SRINAGAR	Srinagar	9149486685
21	Changalpattu Naga Bharath	Assistant Professor	Gudlavalleru Engineering College	Gudlavalleru	8106111138
22	Sanjay Kumar Verma	Honorary Secretary	IGS Jabalpur Chapter	Jabalpur M.P.	9425803337
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25	Bolla .pushya sree Goud	student	pscmr	vijayawada	8179280292
26	LOGESH KUMAR P	Post Graduate Student	Thiagarajar College of Engineering	Madurai	8760232458
27	MUTHULAKSHMI K	Research Scholar	Anna University	Chennai	9840976074
28	Yanduri krishna chaitanya	Mtech	Gudlavalleru engineering college	Vijayawada	8125628879
29	Tanimki Chandra Sekhar Rao	Professor	Bapatla Engineering College	Bapatla	9848276672
30	Aaqib Ali	Student	National Institute of Technology Srinagar	Srinagar	7006755459
31	SEERAT RASHID	Student	NIT Srinagar	Srinagar	7006148237
32	Yasir Ali Qurashi	Mtech.Student	Nit srinagar	Srinagar	8493925574
33	Anayat Bashir	Student	NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR	SRINAGAR	7006348095
34	ADIL RASOOL KUMHAR	Student	National Institute of Technology Srinagar	Srinagar	9906484070
35	IRFAN AHMAD KUMAR	Mtech	NIT SRINAGAR	Srinagar	9906527079
36	PHANI KUMAR VADDI	Sr.Gr.Assistant Professor	Gudlavalleru Engineering College	Gudlavalleru	09885606107
37	Aaqib Ali	Student	National Institute of Technology Srinagar	Srinagar	7006755459
38	Sameer Ahmad Bhat	Student	National Institute of Technology Srinagar	Srinagar	7006793271
39	K S V DHANUSH	Student	IIT Madras	IIT Madras	8919099919
40	Dr Kadali Srinivas	Associate Professor	VNR VJIET	Hyderabad	8552934111
41	Sreeja Pekkatt	Associate Professor	IIT Guwahati	IIT Guwahati	09435707140

42	Yadugani Srinivas	Research Scholar, MD, R&D	Anantha Rushi Constructions Pvt Ltd	India	9849641543
43	Midhat Sajad	Student	IIT(ISM)	Dhanbad	7006399366
44	WASEEL AHMAD DAR	student	Civil engineering	Nit Srinagar	7006149371
45	SALMAN SADAT	Student	NIT Srinagar	Srinagar	9596920424
46	Patibandla Tulasi Tarakeswari	Student	KHIT	Student	6305389852
47	Sandhya Makineni	Assistant professor	Gudlalleru Engineering College	Gudlalleru	+919949449648
48	Akula Priyank	Assistant Professor	QIS College of Engineering nd Technology	Ongole	9494171623
49	sachin d	am	ict	delhi	8762696586
50	Mohd idrees	Student	NIT SRINAGAR	Srinagar	9682674405
51	Yemineni hemanth kumar	Student member	Gudlalleru engineering college	Gudlalleru	7095657605
52	K N Durga Vara Prasad	Student	Gudlalleru Engineering College	Gudlalleru	8688382788
53	Angadala Ramu	Student	Gudlalleru Engineering College	Gudlalleru	9014717822
54	Kalapala keerthi	Student	Gudlalleru Engineering College	Gudlalleru	9603713089
55	S D VENKATA SYAM	Civil engineering	GUDLAVALLERU ENGINEERING COLLEGE	STUDENT	7670831244
56	nukathoti sravani	student	Gudlalleru engineering college,Gudlalleru	chirala	7995757051
57	Sagar Shrivastava	Student	Gyan Ganga Institute of Technology and Science	NA	9424604202
58	Jarugu Ramanjaneyulu	B.tech	Gudlalleru engineering college	Gudlalleru	9542326001
59	Vadlani Naga Venkata Sai Radhika	B.tech(pursuing)	Gudlalleru Engineering College	Gudlalleru	6281236411
60	Botta Sushma	Student (btech)	Gudlalleru Engineering college	Not working	9640454129
61	Yemineni hemanth kumar	Student	Gudlalleru Engineering College	Gudlalleru	7095657605
62	Rangaiah Savva	Civil engineering	Gudlalleru engineering college	Gudlalleru	9505724896
63	B N V RAGHAVIAH	Student	GUDLAVALLERU ENGINEERING COLLEGE	GUDLAVALLERU	9848609667
64	Koppara Ravi	Student	Gudlalleru Engineering College	Gudlalleru	9398657004
65	POTU LAKSHMAN NARAYANA	Student	Gudlalleru engineering college	Gudlalleru	8499096391
66	KASIBHATLA SAI KARTHIKEYA	Student	Gudlalleru Engineering college	Gudlalleru	9553681778
67	Kamma Supreem	BTech	gudlalleru engineering college	gudlalleru	8464036205
68	Nandyala Jogendra Sai Babu	Student	Gudlalleru engineering college	Gudlalleru	9866527427
69	M.pushpadanth	Student	Gudlalleru engineering college	Gudlalleru	8919396177
70	MAJJI CHANTI BABU	Student	Gudlalleru	Gudlalleru	8555904103
71	Angadala Ramu	Student	Gudlalleru Engineering College	Gudlalleru	9014717822
72	Gudavalli laalu sekhar	Student	Gec	Home	8688704595
73	KOLLURI SHARMILA	Student	Gudlalleru Engineering College	Gudlalleru	9542377926
74	Nukathoti sravani	Student	GUDLAVALLERU ENGINEERING COLLEGE	GUDLAVALLERU	7995757051
75	K.Gopi kumar	Student	Gudlalleru engineering college	Gudlalleru	7093339568
76	Jannu Girish	student	Gudlalleru Engineering College	Gudlalleru	9347980561
77	Katta Naga Durga Vara Prasad	Student	Gudlalleru Engineering College	Gudlalleru	8688382788
78	R.Hemanth kumar	B-tech	Gudlalleru engineering college	Gudlalleru	6305350568
79	Ch.Naga Venkata Durga Prasad	Student	Gudlalleru Engineering College	Mutcherla	9182411690
80	Kalapala keerthi	Student	Gudlalleru engineering college	Gudlalleru	9603713089
81	Mureboina Murali Krishna	Student	Gudlalleru Engineering College	Gudlalleru	9705247637
82	ADURI. NAVEEN SAI KUMAR	STUDENT	GUDLAVALLERU ENGINEERING COLLEGE	GUDLAVALLERU	7989581719
83	Gundiga.Vijaya	B.Tech	Gudlalleru Engineering College	Gudlalleru	9347063919
84	Inteti. Sai Suresh	Good	Gudlalleru engineering college	Gudlalleru	9182989391
85	P yeshwanth dinakar	B tech	Gudlalleru engineering college	Student	9618758527
86	Peddeneni yaswanth	Student	Gudlalleru engineering college	Gudlalleru	7981684524
87	Kammili Divya sri	B-Tech	Gudlalleru Engineering College	Gudlalleru	6303566865
88	Yemineni hemanth kumar	Student	Gudlalleru Engineering College	Gudlalleru	7095657605

89	Sivaji. kodali	Student	Gudlavalleru engineering college	Student	6300301340
90	Mohammed.Nishat Rahamatullah	B.tech	Gudlavalleru Engineering College	None	9398642554
91	Tarun Manikanta	Student	Gudlavalleru Engineering College	Gudlavalleru	8985895997
92	Subrahmanyam Ugb	Student	Gudlavaluru engineering college	Not working	7731081995
93	Jaddu Siva Rama Koteswara Rao	Civil Engineering	Gudlavalleru Engineering College	Gudlavalleru	9652417024
94	RAMAVATH BALARAM NAIK	Student	Gudlavalleru Engineering College	Gudlavalleru	7680901629
95	REBALLI NEERAJA	Student	Gudlavalleru Engineering College	Gudlavalleru	7995482674
96	RIMMANAPUDI YASWANTH KUMAR	Student	Gudlavalleru Engineering College	Gudlavalleru	9553245715
97	SAYILA SUNIL KUMAR	Student	Gudlavalleru Engineering College	Gudlavalleru	9515856158
98	SHAIK KHAJA MOINUDDIN	Student	Gudlavalleru Engineering College	Gudlavalleru	8555800209
99	Kirankumar Gadi	Manager	NA	Hyderabad	8332802479
100	RAMGOPAL. L	ASSISTANT PROFESSOR	CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY	GUNTUR	8148638402
101	Suresh Seopal Maurya	Scientist D	Central Soil and Materials Research Station, New Delhi	Delhi	9716139694
102	NAGIDI SIVAPOORNACHANDRA RAO	Asst. Professor	Sir C R Reddy College of Engineering	Eluru	9912868585
103	Debjani Dhar	Student	Calcutta institute of engineering and management	Tollygunge, kolkata	9073331236
104	Prakash V Surya	Senior Geotechnical Expert	AICA GC Mumbai Metro	Mumbai	7827145566
105	Vijaya Ramanathan	Research scholar	IIT Madras	Chennai	7502677940
106	amal bhattacharya	SR DGM	L&T	kolkata	9748325363
107	SUmithra P	Assistant manager	L&T	Coimbatore	8903250985
108	Salini Adhikari	Student	Calcutta Institute of Engineering and Management	None	9123947232
109	BADRINATH MISHRA	STUDENT	CALCUTTA INSTITUTE OF ENGINEERING AND MANAGEMENT	STUDYING	9163299854
110	SOUVIK DAS	Student	Calcutta institute of engineering and management	None	8777020234
111	SUMON SAHA	DEPUTY PROJECT MANAGER	SIMPLEX INFRASTRUCTURES LIMITED	SAUDI ARABIA	6540746768
112	KIRUBAKARAN	Manager - Marketing	IEMS	Chennai	9962274821
113	G. V. Rama Subba Rao	Associate Professor	VRSEC	Vijayawada	9849448040
114	RAMAKANT UPADHYAYA	Executive Engineer	SLBS NATIONAL SANSKRIT UNIVERSITY	New Delhi	09911104423
115	Zeeshan Shaikh	Chief Manager	Simplex Infrastructures Limited	KSA	9167378781
116	Aniket Das	Student	Calcutta Institute of Engineering and Management	None	9007980624
117	PVSN Pavan Kumar	Professor	Guru Nanak Institutions Technical Campus	Hyderabad	7013051317
118	Yagyesh Narayan Shrivastava	Contractual Teacher	College of Agricultural Engineering,Jnkvv	Jabalpur	9131873719
119	Manoranjan Samal	Deputy Director (CDC&FD)	DTE&T, Odisha	Cuttack	+919040612975
120	Vishwas Khatri	Assistant Professor	IIT (ISM) Dhanbad	Dhanbad	9882279265
121	G VISHNUSHANKAR	SR. ENGINEER - CIVIL	THE RAMCO CEMENTS LIMITED	CHENNAI	9843880596
122	AVNLMS SASTRY	SR. BE	LASA	VAODARA	9441175171
123	MPSK LAKSHMI	Geotechnical Expert	Nippon Koei	Delhi	9810699932
124	Anilkumar P S	Associate Professor	Govt. Engineering College	Thrissur , Kerala	9847302217
125	J V Gurumurthy	Professor	G Pulla Reddy Engineering College (Autonomous)	Kurnool	9440588766
126	Subhashree Samantasinghar	PhD scholar	National Institute of Technology Rourkela	Rourkela	7978263120
127	BABJI MALINENI	Civil Engineer	Amaravati Internaatinal	Andhra Pradesh	09440053709
128	MOHAMMAD FARID BASHA	Student	GUDLAVALLERU ENGINEERING COLLEGE	GUDLAVALLERU	9642076500
129	Fazrulla Basha	Director	Abcon Concrete Surgeons pvt ltd	Bengaluru	9845941499
130	Mohit K. Mistry	PhD Research Scholar	Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat	Surat	07405892539
131	Debanjan Guha	B.Tech Student (3rd)	Calcutta Institute Of Engg. & Management	Calcutta	8240101347
132	Niranjan Singh	Chairman	Arun Soil Lab Pvt Ltd	Lucknow	9415105144
133	THOTA SUNIL KUMAR	Student	Gudlavalleru engineering college	Gudlavalleru	8074305130
134	Babji Malineni	Civil Engineer	Amaravati International	Telangana	9440053709
135	Ratna Prasad Rekapalli	Professor	VVIT, Nambur, Guntur	VVIT	9490114986

136	Sanjay Kumar Verma	Honorary Secretary	IGS Jabalpur Chapter	Jabalpur M.P.	9425803337
137	Changalpattu Naga Bharath	Assistant Professor	Gudlavalleru Engineering College	Gudlavalleru	8106111138
138	Sagar Shrivastava	P G Student	Gyan Ganga Institute of Technology and Science	Jabalpur	9424604202
139	Ankem Veera anil babu	Student	Gudlavalleru engineering college	Gudlavalleru	6302923593
140	PHANI KUMAR VADDI	Sr.Gr.Assistant Professor	Gudlavalleru Engineering College	Gudlavalleru	09885606107
141	MIRIYAM MANISHA	Student	B. Tech	Ongole	9392655512
142	Prakash V Surya	Senior Geotechnical Expert	AICA GC Mumbai Metro	Mumbai	7827145566
143	Dr. G. V. Rama Subba Rao	Associate Professor	Velagapudi Ramakrishna Siddhartha Engineering College	Vijayawada	9849448040
144	Jeykumar R K C	Assistant Professor	Thiagarajar College of Engineering	Madurai	9150077046
145	NAGIDI S P CHANDRA RAO	Asst.Professor	Sir C R Reddy College of Engineering	Eluru	9912868585
146	Chetlapally Harika	Student	Kakatiya institute of technology and science for women	Nizamabad	7901059875
147	Ajay Mishra	General Manager	Parsan	New Delhi	9868185200
148	Dr.Ch.Nageshwar Rao	Professor,	VNR Vignana Jyothi Institute of Engineering and Technology	Hyderabad	8713520251

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village, Gudlavalleru
Department of Civil Engineering

STUDENT DEVELOPMENT PROGRAMME

Academic Year:- 2020-21

Programme No:- 2

Title of Programme:- Excavator Based Technologies In Ground Engineering

Resource Person Details:-

Sl.No	Resource Persons	Designation	Organization
1	Mr.Mohan Ramanathan	Managing Director Advanced Construction Technologies	Chennai

Object(S) of the programme:- The objective of this programme is to provide an opportunity for the students to gain knowledge on Excavator Based Technologies In Ground Engineering

Expected Outcome:- The students are expected to gain exposure on Excavator Based Technologies In Ground Engineering

Target Audience:- II,III& IV B.Tech CE Students

No. of Audience:- 70




Mr. Mohan Ramanathan

Managing Director

Advanced Construction Technologies

Chennai


Coordinator


H.C.E

Head of Civil Engineering
Gudlavalleru Engineering College
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