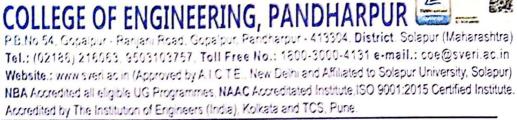


Shri Vithal Education & Research Institute's



Ref :-

Date:-

1.3.3 Number of the student studied course on experimental learning through Project Work / Internship

Programme Name: Civil Engineering								
	Programme Code: 1-1408968331							
Year of offering: 2018-19								
Sr. No.	Name of the Course that include		Number of the student studied					
	experiential learning through	Course code	course on experiential learning					
31110	project work/field		through project work/field					
	work/internship		work/internship					
1.	Engineering Geology	CV216	69					
2.	Environmental Engineering-I	CV313						
3.	Water Resources Engineering-II	CV314						
4.	Environmental Engineering-II	CV323	71					
5.	Mini Project in SM-III/GE-II/EE-	Circon	71					
	II/EMII using Application Software	CV328						
6.	Assessment of field training report	CV329						
7.	Project Work							
8.	Water Resources Engineering-II							
9.	Assessment of Report on Field		75					
	Training-II							
10.	Project Work							



College of Engineering PANDHARPUR

SVERI's College of Engineering, Pandharpur Department of Civil Engineering Field Training Record

A.Y.: 2018-19



SHRI VITHAL EDUCATION & RETEARCH INSTITUTE'S

COLLEGE OF ENGINEERING, PANDHARPUR.

Department of Civil Engineering

TE(Civil) students Internship details

Academic Year: 2018-19

	TE(CIVII) Students internship details	iemic Year: 2018-19	
Sl. No		Name of the company where internship done	Duration
11	PUJARI PRAKASH RAJKUMAR	Sadguru Construction, Pandharpur	17/12/2018 to 31/12/2018
2	THENGAL ABHIJIT DATTATRAYA	Sohel Construction, Madha	17/12/2018 to 31/12/2018
3	/KUMBHAR ANJALI GANPAT	Shree Venkatesh Enterprises, Pandharpur	17/12/2018 to 31/12/2018
4	/DONGARE SHUBHANGI KANHOBARAO	Sharda Construction and Corporation Pvt. Ltd., Nanded	17/12/2018 to 31/12/2018
5	/VIBHUTE JYOTI ASHOK	N. B. Kolekar, Contractor, Pandharpur	17/12/2018 to 31/12/2018
6	BHARTI SHRINIVAS VISHNU	Credible Developers, Maharashtra	17/12/2018 to 31/12/2018
7	SHINDE GANESH MADAN	NP Constructions, Pandharpur	17/12/2018 to 31/12/2018
8	/SARVAGOD PRACHI JITENDRA	Shree Venkatesh Enterprises, Pandharpur	17/12/2018 to 31/12/2018
9	/KAMBLE ASHWINI ARVIND	Shree Venkatesh Enterprises, Pandharpur	17/12/2018 to 31/12/2018
10	/PATIL RUTUJA NAGESH	SN Konapure Contractor, Mangalvedha	17/12/2018 to 31/12/2018
11	/DHUMAL HARSHADA PANDURANG	SN Konapure Contractor, Mangalvedha	17/12/2018 to 31/12/2018
12	/CHIKMANE ANKITA ANIL	SN Konapure Contractor, Mangalvedha	17/12/2018 to 31/12/2018
13	MALI PRATHAMESH KRISHANA	S.M. Autade Pvt. Ltd, Mangalwedha	17/12/2018 to 31/12/2018
14	/SHIKHARE SADHANA NAGNATH	Sarthak Construction, Pandharpur	17/12/2018 to 31/12/2018
15	HONMANE SAGAR SIDDHESHWAR	A.G. Shevale, Pandharpur	17/12/2018 to 31/12/2018
16	/PAREKAR MRUNALI BIRUDEV	Synergy Project Consultant Pvt. Ltd., Pandharpur	17/12/2018 to 31/12/2018
17	/MASAL AISHWARYA NILKHANT	Kokan Builders and Contractors, Ratnagiri	17/12/2018 to 31/12/2018
18	PUJARI HANAMANT SHRISHAIL	Gurukrupa Builders, Karamala	17/12/2018 to 31/12/2018
19	/DESHMUKH SNEHA SHIVAJIRAO	Kantilal Dubal Contractor, Pandharpur	17/12/2018 to 31/12/2018
20	ATKALE AKASH SHASHIKANT	A.G. Shevale, Pandharpur	17/12/2018 to 31/12/2018
21	SAWANT SHAILESH SHASHIKANT	Credible Developers, Maharashtra	17/12/2018 to 31/12/2018
22	/DESHMUKH SUSHAMA MAHADEV	Kantilal Dubal Contractor, Pandharpur	17/12/2018 to 31/12/2018
23	/TEKE MADHURI KISHOR	Kantilal Dubal Contractor, Pandharpur	17/12/2018 to 31/12/2018
24	BABAR GANESH SHANKAR	Gurukrupa Builders, Karamala	17/12/2018 to 31/12/2018
25	/WAGHMODE PRAJAKTA SOPAN	Synergy Project Consultant Pvt. Ltd., Pandharpur	17/12/2018 to 31/12/2018
26	PAWAR SAURABH BABAN	A.G. Shevale, Pandharpur	17/12/2018 to 31/12/2018
27	/PUJARI PRIYANKA TUKARAM	Kantilal Dubal Contractor, Pandharpur	17/12/2018 to 31/12/2018
		R. D., Kolekar, Contractor, Pandharpur	17/12/2018 to 31/12/2018
29	ZENDE PRIYA BRAMHADEO	Synergy Project Consultant Pvt. Ltd., Pandharpur	17/12/2018 to 31/12/2018
30	POLAS POOJA PRUSHOTTAM	Kanishka Infrastructure, Solapur	17/12/2018 to 31/12/2018



32 PAWAR SWAPNIL JITENDRA Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 33 GAIK WAD KAPIL VIJAY S.M. Autade Pvt. Ltd., Mangalwedha 17/12/2018 to 31/12/2018 34 SOUDAGAR PRASAD SHIVAJI Sonai Infra Pvt. Ltd., Sangli 17/12/2018 to 31/12/2018 35 Gore Krishna Devidas Dive, Govt. Contractor, Kurduwadi 17/12/2018 to 31/12/2018 36 GAIK WAD PRASHANT MANIK Bhosale and Sangaokar Associates, Kolhapur 17/12/2018 to 31/12/2018 37 KANGUDE YOGESH BALKRISHNA Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 38 SAWANT GAURAV VITTHAL Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 39 KADAM VIRAJ MARUTI Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 40 ////////////////////////////////				
33 GAIKWAD KAPIL VIJAY S.M. Autade Pvt. Ltd., Mangalwedha 17/12/2018 to 31/12/2018 34 SOUDAGAR PRASAD SHIVAJI Sonai Infra Pvt. Ltd., Sangli 17/12/2018 to 31/12/2018 35 Gore Krishna Devidas Dive, Govt. Contractor, Kurduwadi 17/12/2018 to 31/12/2018 36 GAIKWAD PRASHANT MANIK Bhosale and Sangaokar Associates, Kolhapur 17/12/2018 to 31/12/2018 37 KANGUDE YOGESH BALKRISHNA Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 38 SAWANT GAURAV VITTHAL Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 39 KADAM VIRAJ MARUTI Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 40 ////////////////////////////////	31	SHAIKH SHOAIB SALIM	Sonai Infra Pvt. Ltd., Sangli	17/12/2018 to 31/12/2018
34 SOUDAGAR PRASAD SHIVAJI Sonai Infra Pvt. Ltd., Sangli 17/12/2018 to 31/12/2018 35 Gore Krishna Devidas Dive, Govt. Contractor, Kurduwadi 17/12/2018 to 31/12/2018 36 GAIKWAD PRASHANT MANIK Bhosale and Sangaokar Associates, Kolhapur 17/12/2018 to 31/12/2018 37 KANGUDE YOGESHI BALKRISHNA Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 38 SAWANT GAURAV VITTHAL Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 39 KADAM VIRAJ MARUTI Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 40 /BHOSALE KAJAL BHARAT Synergy Project Consultant Pvt. Ltd., Pandharpur 17/12/2018 to 31/12/2018 41 GAWADE AJAY SANTOSH S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/2018 42 /THORAT AISHWARYA A. Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 43 /SHINDE PRIYADARSHANI RAVINDR, G.D. Sadigale Contractor, Pandharpur 17/12/2018 to 31/12/2018 45 BANDGAR SHUBHAM SHIVAJI Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 45 BANDGAR SHUBHAM SHIVAJI Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 46 KADAM SAGAR Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 47 GURAV SANKET SHRIRANG Patwardhan Consultants Pvt. Ltd., Pune 17/12/2018 to 31/12/2018 48 /KATE PRANITA ANAND Ashok S. Bannenavar, Archietect and Engineer, Jath 17/12/2018 to 31/12/2018 49 NARSALE SUHAS JAYHIND Unique Builders, Malshiras 17/12/2018 to 31/12/2018 50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd., Mangalwedha 17/12/2018 to 31/12/2018 51 JJAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/2018 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/2018 53 17/12/2018 to 31/12/2018 54 17/12/2018 to 31/12/2018 17/12/2018 to 31/12/	32	PAWAR SWAPNIL JITENDRA		17/12/2018 to 31/12/2018
35 Gore Krishna Devidas Dive, Govt. Contractor, Kurduwadi 17/12/2018 to 31/12/2018 36 GAIKWAD PRASHANT MANIK Bhosale and Sangaokar Associates, Kolhapur 17/12/2018 to 31/12/2018 37 KANGUDE YOGESH BALKRISHNA Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 38 SAWANT GAURAV VITTHAL Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 39 KADAM VIRAJ MARUTH Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 40 /BHOSALE KAJAL BHARAT Synergy Project Consultant Pvt. Ltd., Pandharpur 17/12/2018 to 31/12/2018 41 GAWADE AJAY SANTOSH S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/2018 42 /THORAT AISHWARYA A. Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 43 /SHINDE PRIYADARSHANI RAVINDR/ G.D. Sadigale Contractor, Pandharpur 17/12/2018 to 31/12/2018 44 Sarvade Akash Pandurang Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 45 BANDGAR SHUBHAM SHIVAJI Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 46 KADAM SAGAR Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 47 GURAV SANKET SHRIRANG Patwardhan Consultants Pvt. Ltd., Pune 17/12/2018 to 31/12/2018 48 /KATE PRANITA ANAND Ashok S. Bannenavar, Archietect and Engineer, Jath Unique Builders, Malshiras 17/12/2018 to 31/12/2018 50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/2018 51 JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/2018 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/2018 53 17/12/2018 to 31/12/2018 54 17/12/2018 to 31/12/2018 17/12/2	33	GAIKWAD KAPIL VIJAY	S.M. Autade Pvt. Ltd, Mangalwedha	17/12/2018 to 31/12/2018
36 GAIKWAD PRASHANT MANIK Bhosale and Sangaokar Associates, Kolhapur 17/12/2018 to 31/12/2018 31/12/2018 31/12/2018 33 KANGUDE YOGESH BALKRISHNA Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 31/12/2018 38 SAWANT GAURAV VITTHAL Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 39 KADAM VIRAJ MARUTI Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 40 /BHOSALE KAJAL BHARAT Synergy Project Consultant Pvt. Ltd., Pandharpur 17/12/2018 to 31/12/2018 41 GAWADE AJAY SANTOSH S.M. Autade Pvt. Ltd., Mangalwedha 17/12/2018 to 31/12/2018 42 /THORAT AISHWARYA A. Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 43 /SHINDE PRIYADARSHANI RAVINDR/ G.D. Sadigale Contractor, Pandharpur 17/12/2018 to 31/12/2018 44 Sarvade Akash Pandurang Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 45 BANDGAR SHUBHAM SHIVAJI Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 46 KADAM SAGAR Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 47 GURAV SANKET SHRIRANG Patwardhan Consultants Pvt. Ltd., Pune 17/12/2018 to 31/12/2018 48 /KATE PRANITA ANAND Ashok S. Bannenavar, Archietect and Engineer, Jath 17/12/2018 to 31/12/2018 49 NARSALE SUHAS JAYHIND Unique Builders, Malshiras 17/12/2018 to 31/12/2018 50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd., Mangalwedha 17/12/2018 to 31/12/2018 51 /JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/2018 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/2018 53/12/2018	34	SOUDAGAR PRASAD SHIVAJI	Sonai Infra Pvt. Ltd., Sangli	17/12/2018 to 31/12/2018
36 GAIK WAD PRASHANT MANIK Kolhapur 17/12/2018 to 31/12/2018 31/12/2018	35	Gore Krishna Devidas	Dive, Govt. Contractor, Kurduwadi	17/12/2018 to 31/12/2018
38 SAWANT GAURAV VITTIAL Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 39 KADAM VIRAJ MARUTI Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 40 /BHOSALE KAJAL BHARAT Synergy Project Consultant Pvt. Ltd., Pandharpur 17/12/2018 to 31/12/2018 41 GAWADE AJAY SANTOSH S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/2018 42 /THORAT AISHWARYA A. Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 43 /SHINDE PRIYADARSHANI RAVINDR/ G.D. Sadigale Contractor, Pandharpur 17/12/2018 to 31/12/2018 44 Sarvade Akash Pandurang Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 45 BANDGAR SHUBHAM SHIVAJI Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 46 KADAM SAGAR Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 47 GURAV SANKET SHRIRANG Patwardhan Consultants Pvt. Ltd., Pune 17/12/2018 to 31/12/2018 48 /KATE PRANITA ANAND Ashok S. Bannenavar, Archietect and Engineer, Jath 17/12/2018 to 31/12/2018 49 NARSALE SUHAS JAYHIND Unique Builders, Malshiras 17/12/2018 to 31/12/2018	36	GAIKWAD PRASHANT MANIK		17/12/2018 to 31/12/2018
39 KADAM VIRAJ MARUTI Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018	37	KANGUDE YOGESH BALKRISHNA	Gurukrupa Builders, Karamala	17/12/2018 to 31/12/2018
40	38	SAWANT GAURAV VITTHAL	Gurukrupa Builders, Karamala	17/12/2018 to 31/12/2018
40	39	KADAM VIRAJ MARUTI	Gurukrupa Builders, Karamala	17/12/2018 to 31/12/2018
42 /THORAT AISHWARYA A. Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 43 /SHINDE PRIYADARSHANI RAVINDR/ G.D. Sadigale Contractor, Pandharpur 17/12/2018 to 31/12/2018 44 Sarvade Akash Pandurang Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 45 BANDGAR SHUBHAM SHIVAJI Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 46 KADAM SAGAR Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 47 GURAV SANKET SHRIRANG Patwardhan Consultants Pvt. Ltd., Pune 17/12/2018 to 31/12/2018 48 /KATE PRANITA ANAND Ashok S. Bannenavar, Archietect and Engineer, Jath 17/12/2018 to 31/12/2018 49 NARSALE SUHAS JAYHIND Unique Builders, Malshiras 17/12/2018 to 31/12/2018 50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/2018 51 /JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/2018 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/2018	40	/BHOSALE KAJAL BHARAT	Synergy Project Consultant Pvt. Ltd.,	17/12/2018 to 31/12/2018
42/THORAT AISHWARYA A.Sadguru Construction, Pandharpur17/12/2018 to 31/12/201843/SHINDE PRIYADARSHANI RAVINDR/ G.D. Sadigale Contractor, Pandharpur17/12/2018 to 31/12/201844Sarvade Akash PandurangSadguru Construction, Pandharpur17/12/2018 to 31/12/201845BANDGAR SHUBHAM SHIVAJISadguru Construction, Pandharpur17/12/2018 to 31/12/201846KADAM SAGARGurukrupa Builders, Karamala17/12/2018 to 31/12/201847GURAV SANKET SHRIRANGPatwardhan Consultants Pvt. Ltd., Pune17/12/2018 to 31/12/201848/KATE PRANITA ANANDAshok S. Bannenavar, Archietect and Engineer, Jath17/12/2018 to 31/12/20149NARSALE SUHAS JAYHINDUnique Builders, Malshiras17/12/2018 to 31/12/20150MULE AVINASH SITARAMS.M. Autade Pvt. Ltd, Mangalwedha17/12/2018 to 31/12/20151/JAGTAP PRAGATI MITUChavan V. N. Engineer, Osmanabad17/12/2018 to 31/12/20152/PAWALE SHRADDHA RAJENDRAShree Venkatesh Enterprises, Pandharpur17/12/2018 to 31/12/201	41	GAWADE AJAY SANTOSH	S.M. Autade Pvt. Ltd, Mangalwedha	17/12/2018 to 31/12/2018
43/SHINDE PRIYADARSHANI RAVINDR/G.D. Sadigale Contractor, Pandharpur17/12/2018 to 31/12/201844Sarvade Akash PandurangSadguru Construction, Pandharpur17/12/2018 to 31/12/201845BANDGAR SHUBHAM SHIVAJISadguru Construction, Pandharpur17/12/2018 to 31/12/201846KADAM SAGARGurukrupa Builders, Karamala17/12/2018 to 31/12/201847GURAV SANKET SHRIRANGPatwardhan Consultants Pvt. Ltd., Pune17/12/2018 to 31/12/201848/KATE PRANITA ANANDAshok S. Bannenavar, Archietect and Engineer, Jath17/12/2018 to 31/12/20149NARSALE SUHAS JAYHINDUnique Builders, Malshiras17/12/2018 to 31/12/20150MULE AVINASH SITARAMS.M. Autade Pvt. Ltd, Mangalwedha17/12/2018 to 31/12/20151/JAGTAP PRAGATI MITUChavan V. N. Engineer, Osmanabad17/12/2018 to 31/12/20152/PAWALE SHRADDHA RAJENDRAShree Venkatesh Enterprises, Pandharpur17/12/2018 to 31/12/201	42	/THORAT AISHWARYA A.		17/12/2018 to 31/12/2018
44 Sarvade Akash Pandurang Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 45 BANDGAR SHUBHAM SHIVAJI Sadguru Construction, Pandharpur 17/12/2018 to 31/12/2018 46 KADAM SAGAR Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 47 GURAV SANKET SHRIRANG Patwardhan Consultants Pvt. Ltd., Pune 17/12/2018 to 31/12/2018 48 /KATE PRANITA ANAND Ashok S. Bannenavar, Archietect and Engineer, Jath 17/12/2018 to 31/12/2018 49 NARSALE SUHAS JAYHIND Unique Builders, Malshiras 17/12/2018 to 31/12/201 50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/201 51 /JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/201 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/201	43	/SHINDE PRIYADARSHANI RAVINDR		17/12/2018 to 31/12/2018
46 KADAM SAGAR Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2019 47 GURAV SANKET SHRIRANG Patwardhan Consultants Pvt. Ltd., Pune 17/12/2018 to 31/12/2019 48 /KATE PRANITA ANAND Ashok S. Bannenavar, Archietect and Engineer, Jath 17/12/2018 to 31/12/2019 49 NARSALE SUHAS JAYHIND Unique Builders, Malshiras 17/12/2018 to 31/12/2019 50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/2019 51 /JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/2019 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/2019	44			17/12/2018 to 31/12/2018
46 KADAM SAGAR Gurukrupa Builders, Karamala 17/12/2018 to 31/12/2018 47 GURAV SANKET SHRIRANG Patwardhan Consultants Pvt. Ltd., Pune 17/12/2018 to 31/12/2018 48 /KATE PRANITA ANAND Ashok S. Bannenavar, Archietect and Engineer, Jath 17/12/2018 to 31/12/2018 49 NARSALE SUHAS JAYHIND Unique Builders, Malshiras 17/12/2018 to 31/12/201 50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/201 51 /JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/201 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/201	45	BANDGAR SHUBHAM SHIVAJI	Sadguru Construction, Pandharpur	17/12/2018 to 31/12/2018
47 GURAV SANKET SHRIRANG Patwardhan Consultants Pvt. Ltd., Pune 17/12/2018 to 31/12/2018 48 /KATE PRANITA ANAND Ashok S. Bannenavar, Archietect and Engineer, Jath 17/12/2018 to 31/12/2018 49 NARSALE SUHAS JAYHIND Unique Builders, Malshiras 17/12/2018 to 31/12/2018 50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/2018 51 /JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/2018 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/2018	46	KADAM SAGAR		17/12/2018 to 31/12/2018
48 /RATE FRANTA ANAD Engineer, Jath 17/12/2018 to 31/12/201 49 NARSALE SUHAS JAYHIND Unique Builders, Malshiras 17/12/2018 to 31/12/201 50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/201 51 /JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/201 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/201	47	GURAV SANKET SHRIRANG		17/12/2018 to 31/12/2018
50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/201 51 /JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/201 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/201	48	/KATE PRANITA ANAND		17/12/2018 to 31/12/2018
50 MULE AVINASH SITARAM S.M. Autade Pvt. Ltd, Mangalwedha 17/12/2018 to 31/12/201 51 /JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/201 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/201	49	NARSALE SUHAS JAYHIND	Unique Builders, Malshiras	17/12/2018 to 31/12/2018
51 /JAGTAP PRAGATI MITU Chavan V. N. Engineer, Osmanabad 17/12/2018 to 31/12/201 52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/201	50	MULE AVINASH SITARAM		17/12/2018 to 31/12/2018
52 /PAWALE SHRADDHA RAJENDRA Shree Venkatesh Enterprises, Pandharpur 17/12/2018 to 31/12/201	51	/JAGTAP PRAGATI MITU		17/12/2018 to 31/12/2018
	52	/PAWALE SHRADDHA RAJENDRA		17/12/2018 to 31/12/2018
	53	LONDHE AVINASH RAJENDRA	Patwardhan Consultants Pvt. Ltd., Pune	17/12/2018 to 31/12/2018
	54	MULANI MOIN LATIF		17/12/2018 to 31/12/2018



SADGURU CONSTRUCTION

Deals in Plan, Estimate, Interior Designers

4643/1 old karad road, Manisha Nagar, Guru Nanak Bhavan, Pandherpur.

Contact: 9975427622.9028710290

Email Id: litu.batra@gmail.com

This is certified that Mr. Prakash Rajkumar Pujari has completed ONE MONTH training in our Swarup constructions & Developers pvt.Ltd. on site construction of residential building at Pandharpur. In year of 2018-2019.

TRAINING WORK: Detailed construction about residential building.

He has good nature and so co-opertive honourable too. He has supportive nature in his work and helpful also.

SADGURU CONSTRUCTION LIC No. - CBSPM/R/APL/00057 ER. J. L. BATRA Mob. No. - 9975427622

Project Manager



SOHEL CONSTRUCTION

GOVERNMENT REGISTER CONTRACTOR

Abdel Kadar Manjil Patet Chowk, BDD Office Near, A/p. Kurduwadi, Tq. Madha, Dist. Solapur - 413208 Esmail : Scholcons22cogmail.com, Yasinsha kh9D@gmill.com | 1 Cell : 9604107860, 9403291786

Ref. No.

Date: / /201

FIELD TRAINING CERTIFICATE

This is certify that Mr.Abhijit Dattatray Thengal student of B.E.Civil (Third Year) of Sveris college of Engineering Pandharpur attended the field training from 17.12.2018 to 31.12.2018 in Sohel Construction Government Register Contractor during training period his work conduct was very good.



A SUN

For Sohel Construction



Shree Vyenkatesh Enterprises

Prop.: Eknath J. Nanaware

Shop - Gat No. 85/B, Shivpriya Residency, Gata No. 3, Wangikar Nagar, Pandhaprur. Resi. - 28/42, 'Nirmal', Bataji Hos. Soc. Batajinagar, B/H Pole Factory, Pandharpur 413304. Email - shreevenkatesh@yahoo.co.in, eknath6019@gmail.com

Ref. No.:

Date:

CERTIFICATE

This Is To Certify That Miss. Anjali Ganpat Kumbhar Is Studing In Third Year Of Civil Engineering From SVERI College Of Engineering, Gopalpur.

She Has Successfully Completed Her Field Training Work At Our Ongoing Construction Sites In Pandharpur From 16/12/2018 To 30/12/2018.

She Is Sincere, Hardworking And Bears Good Moral Character During Training Period.

We Wish Her Bright Future.
This Certificate Has Been Issued On Her Request.

Engineer Lakson kshinsogan Conor



Corporate Office Flox No. 72, Sharba Tower
Ashot Nigor NANDEO 3
(02452) 254810, 265302; 262660
Fax 02452, 752631
Email: sharba_configuration co.io.
sharbacon52 853mbit com.

Branch Office IShorts Bruwen Ausa Road,
tallor PWD Rest House UATUR

(023K2) 200400, Fax: 023K2-225800
Email: she dacoptopmet com
CIN: U45200MH2009PTC206811

SCCPL/Field Training/18-19/54

CERTIFICATE

This is to certify that, Ms. Shubhangi Kanhobarao Dongare, studying in B.E. (3rd year Civil), for the year 2018-19, in Shri Vithal Education & Research Institute's Pandharupur has successfully completed the Field Training for the period of 16/12/2018 to 30/12/2018

In our scheme Nanded-Kinwat-Mahur-Arni Road Section from Bhokar to

Sarsam Budruk (Design Km. 0+00 to Km 33+00) to two lanes with paved

shoulder section of NH-548C on EPC Mode Ms. Shubhangi Kanhobarao

Dongare has undergone field training in various disciplines on of goin

construction project.

During Training period she has Good Conduct & Moral Character.

Date - 20/12/2018
Place - Nanded



For Sharda Construction Corp. Put. Ltd. Nan # Con Sal &

N. B. KOLEKAR

Civil Enga. & Regd Gout Contractor

AL P. Gursale, Tal. Pendharpur Dist. Solaput Montile - 99,2864 500

Ref No

Date :

CERTIFICATE

This is certify that miss vibhute jyoti ashok is studying in third year of civil engineering from sveri's coe gopalpur.

she has successfully completed her field tranning work at our ongoing construction sites in pandharpur from 16/12/2018 to 30/12/2018

she is sincere hardworking and bears good moral character furing training period

we wish her bright future.
this certificate has been issued on her request.

N. B. K.Z.L.C.KAR Gov. Reg. Contractor Gursale, Tal. Pandharpur.

Scanned copy of Field Training Certificate:



In Association with



Ref. No: Bloom CMC/Chiplun/Pac. B/2018/295

Date-28-12-2018

Subject: Independent Engineer Services for rehabilitation and up-gradation of NH-66 (Old NH 17) from Km 205/400 to 241/300 (Parthuram Glot - Arawall Section) to four lanes in the State of Maharashtra under NHDP-IV on Hybrid Annuity Mode (Package-II)-Experience Certificate. -Reg.

Ref. - Collage Letter No-COEPR/Training/2018-19/TE-35.

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Shrinivas Shart: 5/o Sh. Vishnu Sharti from Collage of Engineering. Gopalpur, Pandharpur completed his Vocational Training on project site from 17th Dec 2018 to 30th Dec 2018.

During his training in BLOOM COMPANIES LLC, USA IN ASSOCIATION WITH CREDIBLE MANEGMENT & CONSULTANT Pvt. Ltd. Mr. Shrinivas Bharti has got an experience on various aspects of Highway Engineering in Lab Division at site for the project of (Parshuram Ghat-Arawali Section) to four lanes in the State of Maharashtra under NHDP-EV on Hybrid Annuity Mode (Package-II).

He had undergone the aforesald training with all since ity, discipline and dedication.

We wish him the very best in all in his future Endeauour.

For, Bloout Dhipunies, LLC

Sudhif



NP CONSTRUCTIONS

MR. PRITAM R. THORAT (Civil Engineer & Contractor) Email: thoratpritam.r@gmail.com Mob. 9766323402

A/P- Pandharpur, Tal- Pandharpur, Dist-Solapur,

Date: 02-01-2-19

TRAINING CERTIFICATE

This is certify that Mr. Ganesh Madan Shinde, student of SVERIES COEP studing BE Civil-3rd year has attended the training from 17-12-2018 to 01-01-2019.

During his training period his work & conduct he was very good and punctual.

Mr.Pritam R. Thorat
(Civil Engineer)
NR Constructions

|| SHREE ||



Shree Vyenkatesh Enterprises

Prop.: Eknath J. Nanaware

Shop - Gat No. 85/B, Shivpriya Residency, Gala No. 3, Wangikar Nagar, Pandhaprur. Resi. - 28/42, 'Nirmal', Balaji Hos. Soc. Balajinegar, B/H Pole Factory, Pandharpur 413304. Email - shreevenkatesh@yahoo.co.in, eknath6019@gmail.com

Ref. No.:

Date:

CERTIFICATE

This Is To Certify That Miss. Prachi Jitendra Sarvagod Is Studing In Third Year Of Civil Engineering From SVERI College Of Engineering, Gopalpur.

She Has Successfully Completed Her Field Training Work At Our Ongoing Construction Sites In Pandharpur From 16/12/2018 To 30/12/2018.

She Is Sincere, Hardworking And Bears Good Moral Character During Training Period.

We Wish Her Bright Future.
This Certificate Has Been Issued On Her Request.

Engincers. Lakhan kihinsagar Shri Vyankatesh Enterprises

28/42. Hintari Pulati Hsg. Soc.

28/42. Hintari Pulati Hsg. Soc.

Batajinana Burdins Pole Factory.

Batajinana Burdins Pole Factory.

Pandnarput Dist. Solaput Pin-413304

Prop. E. J. Nanavore. Mob. 8275720944





Shree Vyenkatesh Enterprises

Prop.: Eknath J. Nanaware

Shop - Gat No. 86/B, Shivpriya Residency, Gala No. 3, Wangikar Nagar, Pandhaprur. Rest. - 28/42, Nirmař, Balaji Hos. Soc. Belajinagar, Břil Polc Factory, Pandharpur 413304. Email - shreevenkatesh@yenoo.co.in, ekneth6019@gmail.com

Ref. No. 5

Date:

CERTIFICATE

This Is To Certify That Miss. Ashwini Arvind Kamble Is Studing In Third Year Of Civil Engineering From SVERI College Of Engineering, Gopalpur.

She Has Successfully Completed Her Field Training Work At Our Ongoing Construction Sites In Pandharpur From 16/12/2018 To 30/12/2018.

She Is Sincere, Hardworking And Bears Good Moral Character During Training Period.

We Wish Her Bright Future. This Certificate Has Been Issued On Her Request.

Shu Wyan and ash Enterprises

Bath of the Part of the East of the Part o Prop E. J. Normano, Nets 0275/720044

S.N. KONAPURE

(B.E.Civil)

Govt. Regd. Contractor At. Po. Tal.Mangalwedfia Dist. Solapur Cell : 9422648392

Ref. No.

Date: 1 /1 /2019

FIELD TRAINING CERTIFICATE

This is certify that, rutuja nagesh patil student of be (civil third year) of sveris college of engineering pandharpur attended the field training from 17/12/2018 to 31/12/2018 in s.n.konapure during training period his work conduct was very

S N. Konapien: 8 E. (Civili Govt. Regd. Contractor Mangalwedha

S.N. KONAPURE

(B.E.Civil)

Govt. Regd. Contractor At. Po. Tal.Mangalwedha Dist. Solapur Cell: 9422648392

Ref. No.

Date : 1 / 1 /2019

FIELD TRAINING CERTIFICATE

This is certify that, Harshda Pandurang Dhumal student of be (civil third year) of sveris college of engineering pandharpur attended the field training from 17/12/2018 to 31/12/2018 in s.n.konapure during training period his work conduct was very good

S. N. Konapuite

R E. (Civil)

Govt. Regd. Contractor

Mangalwedine

S.N. KONAPURE

(B.E.Civil)

Govt. Regd. Contractor At. Po. Tal.Mangalwedha Dist. Solapur Cell: 9422648392

Ref. No.

Date: 1 / 1 /2019

FIELD TRAINING CERTIFICATE

This is certify that, Ankita Anil Chikamane student of be (civil third year) of sveris college of engineering pandharpur attended the field training from 17/12/2018 to 31/12/2018 in s.n.konapure during training period his work conduct was very good

S. N. Konzeruse

B.E. (Civil)

Govt. Regd. Contractor

Mangalwadha



Ret

SHRIS. M. AUTADE PVT. LTD.

HEAD OFFICE:

17, "AKANKSHA" Bung cw. Giriraj Sodety, Baner Road, Near Saks, Nagar, Pune-07, Tel. No. 020-25640391 E mail- pune@autadegroup.com Website, autadegroup.com CIN No. U45200PN2014PTC151170

Date: 03-1-2019

TO WHOM IT MAY CONCERN

This is Certify that, Mr. PRATHAMESH KRISHANA MAU, a Student of SVERI College of Engineering Pandharpur, Solapur University Solapur.

Has Completed the 15 days Field Traning of (Rehabilitation and Upgradation to two lanes with paved shoulder from NH-561 A Pandharpur Mangalwedha Marwade Umadi from ch. 40/800 to ch.95/136 (Package no .II Length 54.336) in the state of Maharashtra on EPC Mode, Project) form 17/12/2018 to 31/12/2018 Mr. PRATHAMESH KRISHANA MAIL remained involved in his work with determination and sincerity. We found her and competent in executing assigned tasks. During the mentioned period he was found punctual, Hard Working.

We wish him for Success in life.

Thanking you,

Yours faithfully.

SHRI S. M. AUTADE PVT. LTD. KHANDOBALANE, MANGALWEDHA

BRANCH OFFICE:



Ref. No. 05 72013

SARTHAK

Sajjanrao S. More

ther Courseon

Cell: 9921338004, 8793904064

Dato 05 | 01 2019

Training Completion Certificate

This is to certify that Miss. Sadhana Nagnath Skikhare is working with our organization as Trainee civil Engineer from 16th Dec 2018 to 31th Dec 2018 during this period we found Miss. Sadhana Nagnath Skikhare attitude towards assigned work is positive and she has organization expectation

We wish her Rest of Luck for future.

For Sarthak Constuction

Sarthak Construction Regd Govt Contractor AP Mundhewadi Tat Pandharper Dist Solapur.

A.G. SHEVALE

Civil Engg. & Regd. Govt. Contractor A/p. Palashi, Tal. Pandharpur, Dist. Solapur, 413 310

Mobile: 7776800070

7744040070

E-mail: amolshevale1@gmail.oum GST No.27GVGPS7064R1ZD

Date:

Ref. No.

Certificate

This is to certify that Mr.Sagar Siddheshwar Honmane is studying in Third Year Of Civil Engineering from Sveri's College of Engineering, Pandharpur.

He has successfully completed his field Training work at our on going construction sites in Pandharpur from 15/12/2018 to 30/12/2018

He is sincere, hardworking and bears good moral character during training period.

We wish him bright future.

This certificate has been issued on his request.

Engineers & Govt. Reg Contractor Alp. Palashi, Tal Pandhumus



This is to certify that Mr. / Miss. MRUNALI BIRUDEO PAREKAR has successfully completed the workshop in Valuation for from 16/12/2018 to 31/12/2018 on organized at Synergy Valuers & Project Consultants PVT.LTD. His/ Her performance has been satisfactory during whole field training.

Pode

Alok Zanwar General Manager



KOKAN BUILDER'S & CONTRACTOR'S

ON TAU MUJAWAR, H. No. 199 At Po Seteral, Tal Large, Diet Fellower.

30.00

Training Certificate

of B.E.(Civil - 3rd Year) of Shri Vithal Education & Research
Institute's College of Engineering Pandharpur Attended the field
training from 16-12-2018 To 30-12-2018 in Konkan Builder's &
Contractor's Construction of 3 floor shopping centre's. During
Training Period her work & conduct was very Sincere & Good.

Authorized Representative,

For Konkan Builder's & Contractor's

KOVAN SULDERS I CONTRACT.

PARTMER



William with the state of the s

This is to certify that Mr. Hanumant Shrishail Pujari is studying in Third Year Of civil Engineering from Sveri College of Engineering Gopalpur.

He has Successfully completed his field Training work at our on going construction sites in Karmala from 15/12/2018 To 30/12/2018.

He is sincere, hardworking and bears good moral character during Training period.

We wish him bright future.

This Certificate has been issued on his request.



में गुरुक्ता विलाने और देवरण है



Kantilal R. Dubal

(B.F.Civil

Engineers & Gove Contractors Meb.No. 9968544848 Fmuil Id. 6kagalati See quinters

At Post, Ajansond Tal. Pundburper Dist Solaper-413334.

Ref. No.

Dute: 31/12/2018

This certificate is to certify that

Miss.Sneha Shivajirao Deshmukh student of B.E. (Gvil 3rd year) of Shri Vithal Education & Research Institute's College Of Engineering Pandharpur attended the field training from 16-12-2018 to 30-12-2018 in Dubal Constructions Limited Pandharpur (Construction of shopping center) during Training Period her work & conduct was very good & sincere.

O MAIK F

A.G. SHEVALE

Civil Engg. & Regd. Govt. Contractor A/p. Palashi, Tal. Pandharpur, Dist. Solapur, 413 310

Ref. No.

Mobile: 7776B00070

7744040070 E-mail: amolshevale1@gmail.com GST No.27GVGPS7084R1ZD

Date:

Certificate

This is to certify that Mr. Akash Shashikant Atkale is studying in Third Year Of Civil Engineering from Sveri's College of Engineering, Pandharpur.

He has successfully completed his field Training work at our on going construction sites in Pandharpur from 15/12/2018 to 30/12/2018

He is sincere, hardworking and bears good moral character during training period.

We wish him bright future.

This certificate has been issued on his request.

Engineers & Govt. Reg. Contrasto A/p. Palashi, Tal Pandkarnile



Ref. No: Bloom CMC/Chiplun/Pac. II/2018 /294

Date-28-12-2018

Subject: Independent Engineer Services for rehabilitation and up-gradation of NH-66 (Old NH 17) Irom Km 205/400 to 241/300 (Parshuram Chat - Arawali Section) to four lanes in the State of Maharashtra under NHDP-IV on Hybrid Annuity Mode (Package-II)-Experience Certificate. -Reg-

Ref. - Collage Letter No-COEPR/Training/2018-19/TE-59.

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Shailesh Sawant S/o Sh. Shashikant Sawant from Shri Vital Eduction and Research Institute Collage of Engineering, Gopelpur, Pandharpur, Completed his Vocational Training on project site from 17th Dec 2018 to 30th Dec 2018.

During his training in BLOOM COMPANIES LLC, USA IN ASSOCIATION WITH CREDIBLE MANEGMENT & CONSULTANT Pvt. Ltd. Mr. Shallesh Sawant has got an experience on various aspects of Highway Engineering in Lab Division at site for the project of (Parshurarn Ghat - Arawall Section) to four lanes in the State of Maharashtra under NHDP-IV on Hybrid Annuity Mode (Package-II).

He had undergone the aforesaid training with all sincerity, discipline and dedication.

We wish him the very best in all in his future Endeavour.

E CONTRACTOR IIC



Kantilal R. Dubal

IR.E.Civil)

Mah. No. 9960544045 Email Id. grandutto a sugment com

LPost Ayan and Tall Papillerpur Dist. Sologyr-2133304;

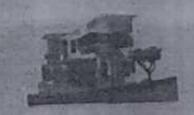
Rel No

1940: 31/12/2018

This certificate is to certify that

Miss.Sushama Mahadev Deshmukh student of B.E. (Civil 3" year) of Shri Vithal Education & Research Institute's College Of Engineering Pandharpur attended the field training from 16-12-2018 to 30-12-2018 in Dubal Constructions Limited Pandharpur (Construction of shopping center) during Training Period her work & conduct was very good & sincere.

Samuel .



Kantilal R. Dubal

BELL

Rapineres & Covt. Contractors Mob.No. 9960544045 I mail.lif. describing and com-

At Post Alansond tal range acpur sess Sciapur-4133304.

Dete: 21 12 12 6

Ref. No.

This certificate is to certify that

Miss.Madhuri Kishor Teke student of B.E. (Civil 3rd year) of Shir Vithal Education & Research Institute's College Of Engineering Pandharpur attended the field training from 16 12-2018 to 30-12-2018 in Dubal Constructions Limited Pandharpur (Construction of shopping center) during Training Period her work & conduct was very good & sincere.

Salahul Debate R.



गुरूकृपा बिल्डर्स ॲण्ड डेव्हलपर्स

करमाळा ता.करमाळा जि.सोलापूर प्रो.प्रा.भारत बाळनाथ जाधव मो.८६९८१६३३६८

Certificate

This is to certify that Mr. Ganesh Shankar Babar is studying in Third Year Of civil Engineering from Sveri College of Engineering Gopalpur.

He has Successfully completed his field Training work at our on going construction sites in Karmala from 15/12/2018 To 30/12/2018.

He is sincere, hardworking and bears good moral character during Training period.

We wish him bright future.

This Certificate has been issued on his request.



में. गुरुकृण बिल्डर्स औंड हेव्डलपर्स

B 3.3.



Values & Project Consultants Pvt. Ltd.

CERTIFICATE

This is to certify that Mr. / Miss. PRAJAKTA SOPAN WAGHMODE has successfully completed the field training in Valuation for from 16/12/2018 to 31/12/2018 on organized at Synergy Valuers & Project Consultants PVT_LTD. His/ Her performance has been satisfactory during whole field training.

Box -

Alok Zanwar General Manager



A.G. SHEVALE

Civil Engg. 8 Regd. Govt. Contractor Alp. Palashi, Tal. Pandharpur. Dist. Solepur. 413 318 Mobile 7776800070 7744040070 E-mail: aimoishavaie*@gmail.com GST No.27GVGPS7064R1ZD

Re! No.

Care:

Certificate

This is to certify that Mr. Saurabh Baban Pawar is studying in Third Year Of Civil Engineering from Sveri's College of Engineering, Pandharpur.

He has successfully completed his field Training work at our on going construction sites in Pandharpur from 15/12/2018 to 30/12/2018

He is sincere, hardworking and bears good moral character during training period.

We wish him bright future.

This certificate has been issued on his request.

Amol G. Shevale BE (Chil) Express & Gest, Red Contractor Alo Paresto, Tol. 19

Kantilal R. Dubal

Engineers & Cleve, I contraction Material Independent Council III disconstructs a malarest

M. Statement Sal, Panakarpin Dist, Salapar At 3a Pat

Date (BISINESCI)

This certificate is to cestify that

year) of Shri Vithal Education & Research Institute's College
Of Engineering Pandharpur attended the field training from
15-12-2018 to 30-12-2018 in Dubal Constructions Limited
Pandharpur (Construction of shopping center) during Training
Period her work & conduct was very good & sincere.

SHOULD TO

II SANT BALUMAMA II

R.D. KOLEKAR

Regd. Govt. Contractor (B.E. Civil) Regd. No. Kolekar Vasti, A/p-Gursale, Tal. Pandharpur, Dist. Solapur Pin - 413 304.

Cell: 9158258382 / 9067389797 / 9067709797

Ref. No.

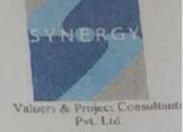
Date:

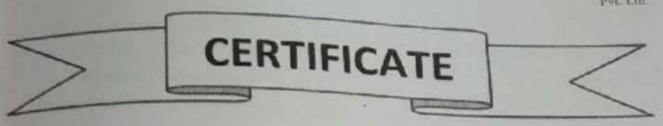
This is certified that Mr. VAIBHAV VASANT KALE has completed fifteen days Training in our R.D. Kolokar Regd. Gov. Contractor on site construction on residential building at pandharpur. In year of 2018-2019.

Training work: Detailed construction about residential building He has good nature and so co-oprative honourable too. He has supportive nature in his work and helpful also.

Project Manager

R.D. KOLEKAR REGD. GOVT. CONTRACTOR





This is to certify that Mr. / Miss. PRIYA BRAMHADEO ZENDE has successfully completed the field training in Valuation for from 16/12/2018 to 31/12/2018 on organized at Synergy Valuers & Project Consultants PVT.LTD. His/ Her performance has been satisfactory during whole field training.





Kanishka Infrastructure

504/1, Salgarvasti, Solapur - 413001

Office No - 8668843689

Date : = /1 /2015

Experience certificate

To.

This is to Certify that Mr./Mrs. Teeja f. Telas
has been working in our firm during 12/12/2018 to 2/1/2017
his /her performance was good & satisfactory.

We wish him. Good luck for his/her future assignments.

signature

Akshay A. Wakse

Lic. No. 549 Scia/1, Salpawasti, Dourgeon P. Sciapur Moo. No. 7020865



Dato - 30/12/2018

Training Certificate

This is Certify that Mr. Shoolib Salim Shalkh Student of B.E. | Civil -3rd Year | of Shri Vithal Education & Research Institute's Callage of Engineering Pandharpur Attended the field training from 16-12-2018 To 30-12-2018 In Sonal Intrastructure Pvt. Ltd. Sangli (Earthwork In Embardment & Cutting Incid. Extension of Minor Bridges & RUB' in connection with Pune -Miral Doubling Project from KM.23 s.Do(Shanak) to Km. 280.00 [Mira] | during Training Period his work & Canduct was very sincere and good.

Authorized Representative,

For Sonal Infra. Pvf. Ltd. Sangil.



Sonai Infrastructure Private Limited

SADGURU CONSTRUCTION

Deals in Plan, Estimate, Interior Designers

4543/1 old karadroad, ManishaNagar, Guru Nanak Bhayan, Pandharpur

Contact 9975427622,9028710290 Email Id: Jitu batra9@gmail.com

Training Certificate

This is certified that Mr. Swapnil Jitendra Pawar student of TE(Civil) of SVERPs Collage Of Engineering, Pandharpur has completed 15 Day's training from 15/12/2018 to 30/12/2018 in our Sadguru constructions & Developers pvt. Ltd. on site construction of residential building at Pandharpur. In year of 2018-2019.

TRAINING WORK :-Detailed construction about residential building. He has good nature and so co-opertivehonourable too. He has supportive nature in his work

This is certified that Collage Of Engine 15/12/2018 to 30/12 construction of resistant He has good nature a and helpful also.

SADGURU CONSTRUCTION LIC No. - CBSPM/R/APL/00057 ER. J. L. BATRA Mob. No. 9975427622

Project Management

Project Manager





SHRIS. M. AUTADE PVT. LTD.

HEAD OFFICE

17 "AKANKSHA" Bunglow, Girlia, Suciety, Baner Roos, Near Spiral Nagar, Pune-07, Tel. No. 020-25640391 E mail- pune@autadegroup.com Websito: autadegroup.com CIN No. U45200PN2014PTC151170

Ret.

Deno: 03.0/-20/9

TO WHOM IT MAY CONCERN

This is Certify that, Mr. KAPIL VIJAY GAIKWAD a Student of SVERI College of Engineering Pandharpur, Solapur University Solapur.

Has Completed the 15 days Field Traning of (Rehabilitation and Upgradation to two lanes with paved shoulder from NH-561 A Pandharpur Mangalwedha Marwade Umadi from ch. 40/800 to ch.95/136 (Package no .II Length 54.336) in the state of Maharashtra on EPC Mode, Project) form 17/12/2018 to 31/12/2018 Mr. KAPIL VIJAY GAIKWAD remained involved in his work with determination and sincerity. We found her and competent in executing assigned tasks. During the mentioned period he was found punctual, Hard Working.

We wish him for Success in life.

Thanking you,

Yours faithfully.

SHRIS. M. AUTADE PVT. LTD. KHANDOBA LANE.

MANGALWEDHA.

BRANCH OFFICE:

- KHANDOBA LANE, MANGALWEDHA, DIST. SOLAPUR-41.095 Tet. No. (02168) 221650 Fex No. (02488) 221700

8/2, MURARU PETH, BHAGWAT UMA MANDIR HLDG., SOLAPUR 413003, Ph.No. (0217) 272-1480

- M. A. PATIL NIWAS, NEAR JAIL, DANGAH ROAD, BEHIND SHREYA HOSPITAL BIJAPUR-588101, Ph. No. (08362)2 (2958)



Pote - 10/12/2018

Training Certificate

This is Certify that Mr. Prasad Shivaji Soudagar Student of 8.E. (Civi-3th feat.) of Shir Vithal Education & Research Institute's College of Engineering Pandharpur Attended the feld training from 16-12-2018 To 30-12-2018 in Sonal infrastructure Pvt. Ltd. Sangli. (Earthwork in Proparkment & Cutting incla. Extension of Minor Endges & RUB' in connection with Hune –Ming. Doubling Project from KM.216.00(Shenof) to Km. 280.00[Miraj]) during Training Period his work & Candict was very sincere and good.

Authorized Representative,

For Sonal Infra. 2.d. Ltd. Sangli.

A SEA

Date: / /201

FIELD TRAINING CERTIFICATE

This is the Certify that Mr. Gore Krishna Devidas student of T.E. Civil III Year of SVERIS College of Engineering Pandharpur Attended the Field Training from 17-12-2018 to 31-12-2018 in Dattatrya Kondiba Dive, Government Contractor, Kurduwadi during training period his work conduct was very good.

For Dattatrya Kondiba Dive

BHOSALE & SANGAOKAR ASSOCIATES

ENGINEERS & CONTRACTORS

Plot no.28 , Chavrekar Vasahut Radhanagari Road , Kothapur

Date: 02.01.2019

To,
Dr.P. M. Pawar
Head of Civil Engineering,
Shri Vithal Education & Research Institute's
COLLEGE OF ENGINEERING, PANDHARPUR
Ranjani Road Gopalpur, Tal-Pandharpur, Dist-Solapur

Sub: Vocational field training of your student at our site

Sir.

In regards to the above reference and subject, following student have successfully completed vocational field training during 15.12.2018 to 01.01.2019 at our site proposed Residence for Shri Prakash Yashwant Mali , at Uchgaon located at Kolhapur to Mudshingl road ,S.No.269/2 , B1, Plot no.20 , Dist. Kolhapur

Gallovad Prashant Manik 7028635996

we wish him every success in life

A.D. Bhosale

partner

BHDSALE & SANGAOKAR ASSOCIATES
ENGINEERS & CONTRACTORS
Places 20 Charrier Vessing
Reliasaged Reed , Edinger
Cell (RE2211679)



गुरूकपा बिल्डर्स ॲण्ड डेव्हलपर्स करमाळा सा.करमाळा जि.सांलापुर

प्रो.प्रा.भारत बाळनाथ जाथव मो.८६९८१६३३६८

Certificate

This is to certify that Mr. Yogesh Balkrushna Kangude is studying in Third Year Of civil Engineering from Sveri College of Engineering Gopalpur.

He has Successfully completed his field Training work at our on going construction sites in Karmala from 15/12/2018 To 30/12/2018.

He is sincere, hardworking and bears good moral character during Training period.

We wish him bright future.

This Certificate has been issued on his request.



में गुरुकृषा बिल्डसं और डेम्हसपसे



गुरूकृपा बिल्डर्स ॲण्ड डेव्हलपर्स

करमाळा ता.करमाळा जि.सोलापूर प्रो.प्रा.भारत बाळनाथ जाधव मो.८६९८१६३३६८

Certificate

This is to certify that Mr. Gaurav Vitthalravo Sawant is studying in Third Year Of civil Engineering from Sveri College of Engineering Gopalpur.

He has Successfully completed his field Training work at our on going construction sites in Karmala from 15/12/2018 To 30/12/2018.

He is sincere, hardworking and bears good moral character during Training period.

We wish him bright future.

This Certificate has been issued on his request.



में लुककृपा विलासे और हेव्हरापर्स हि. हि. हि. हि.



गुरूकृपा बिल्डर्स ॲण्ड डेव्हलपर्स

करमाळा ता.करमाळा जि.सालापुर प्रो.प्रा.भारत बाळनाथ जाधव मो.८६९८१६३३६८

Certificate

This is to certify that Mr. Viraj maruti Kadam is studying in Third Year Of civil Engineering from Sveri College of Engineering Gopalpur.

He has Successfully completed his field Training work at our on going construction sites in Karmala from 15/12/2018 To 30/12/2018.

He is sincere, hardworking and bears good moral character during Training period.

We wish him bright future.

This Certificate has been issued on his request.



मै मुख्या विलामं के देखतानं वि. वि. दि.

भागीतार मार्गातार



Valuers & Project Consultants Pet 1 al.

CERTIFICATE

This is to certify that Mr. / Miss. KAJAL BHARAT BHOSALE has successfully completed the field training in Valuation for from 16/12/2018 to 31/12/2018 on organized at Synergy Valuers & Project Consultants PVT.LTD. His/ Her performance has been satisfactory during whole field training.

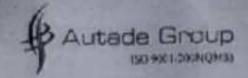
Seal

Alok Zanwar General Manager









SHAIS, M. AUTADE PVT. LTD.

HEAD OFFICE:

17, "AKANKSHA" Bunglew, Girlraj Society, Baner Road, Near Sakal Nagar, Pune-07, Tel. No. 020-23640391 E-mail-pune@a.fladegroup.com Website: autodegroup.com CIN No. U45200PN2014PTC151170

Date: 06-01-20/5

Ref.,

TO WHOM IT MAY CONCERN

This is Certify that, Mr.A.JAY SANTOSH GAWADE a Student of SVERI College of Engineering Pandharpur, Solapur University Solapur.

Has Completed the 15 days Field Traning of (Rehabilitation and Upgradation to two lanes with paved shoulder from NH-561 A PandharpurMangalwedhaMarwadeUmadi from ch. 40/800 to ch.95/136 (Package no .II Length 54.336) in the state of Maharashtra on EPC Mode, Project) form 17/12/2018 to 31/12/2018 Mr.AJAY SANTOSH GAWADE remained involved in his work with determination and sincerity. We found her and competent in executing assigned tasks. During the mentioned period he was found punctual, Hard Working.

We wish him for Success in life.

Thanking you,

Yours faithfully.

SHRIS MAUTABE PVT. LTD.

MANGALWEDHA.

BRANCH OFFICE

^{* *}HANDGOALANE MANGALWILLINA DIST. SCLAFUR 4: 3305. Tel. No. (02460) 221600 Fix No. (03462) 221700

^{. 8/2,} MURAPLII PETIA, BHAGWAT UMA MANDIR BLDG. SCHAPUR 415000, PHNG (0217) 2775450

[.] M. A. PATIL NOWAS, NEAR JAIL, CARGAN ROAD, REHIND SHREYA NDERDIAL BLADUR-546101 Ph. No. (DE352W7255)

SADGURU CONSTRUCTION

Deals in Plan, Estimate, Interior Designers

4643/1 old karad road, Manisha Nagar, Guru Nanak Bhavan, Pandharpur.

Contact: 9975427622,9028710290 Email Id: Jitu.batra9@gmail.com

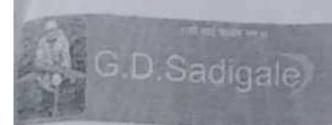
This is certified that M/s. Thorat Aishwarya Anand has completed fifteen days training in our Sadguru constructions & Developers pvt.Ltd. on site construction of residential building at Pandharpur. In year of 2018-19.

TRAINING WORK: - Detailed construction about residential building. She has good nature and so co-operative honorable too. She has supportive nature in his work and helpful also.

& Bear Sadguru Construction, Pandharpur Prop. My Laxman Sutra

Lic.No LA / 00037 Moo No 9975427622 / 9028710290

Project Manager



Govt.Contractor Pandharpur 9422463314, 9028592324

TRAINING COMPLETION CERTIFICATE

This is to certify that Miss Priyadarshani Ravindra Shinde is working with our organization as Trainee civil engineer from 15 Dec 2018 to 30 Dec 2018 during this period we found her attitude towards work is positive

We wish best of luck for her future

G. D. Sadigale

Govt. Contractor 373,Navi Peth,Pandharpur

G. D. Sadigale

SADGURU CONSTRUCTION

Deals in Plan, Extinute, Interior Designers

4343/1 old karad road, Manisha Nagar, Guru Nanak Bhakan, Pandhorper,

65 Contact 9975427622 9028716290

Email ld: litu.hajra@ontal cup

This is certified that Mr. SARAWADE AKASH PANDURANG has completed ONE MONTH training in our Swarup constructions & Developers pvt.Ltd. on site construction of residential building at Pandharpur. In year of 2018-2019.

TRAINING WORK: Detailed construction about residential building. He has good nature and so co-opertive honourable too. He has supportive nature in his work and helpful also.

SADGURU CONSTRUCTION LIC No.- CBSPM/R/APL/00057 ER. J. L. BATRA Mob. No.- 9975427622

しょうしょうしょうしゅうしゅうしゅう

Project Manager

SADGURU CONSTRUCTION

Deals in Plan, Estimate, Interior Designers

4643/1 old karadroad ManishaNapar Guru Nanak Bhavan, Pandharpur

Contact: 9975427622,9028710290 Email ld: jitu.batra@gmail.com

Training Certificate

This is certified that Mr. Shubham Shivagi Bandgar student of TE(Civil) of SVERI's Collage Of Engineering, Pandharpur, has completed 15 Day's training from 15/12/2018 to 30/12/2018 in our Sadguru constructions & Developers pvt.Ltd. on site construction of residential building at Pandharpur. In year of 2018-2019.

TRAINING WORK:-Detailed construction about residential building. He has good nature and so co-opertivehonourable too. He has supportive nature in his work and helpful also.

SADGURU CONSTRUCTION LIC No.- CBSPM/R/APL/00057 ER. J. L. BATRA Mob. No.- 9975427622

Project Manager



भू व्याप्त कार्यक्षण अंग्रह के आवश्य में अस्त्र कार्यक्षण कार्यक्षण के अस्त्र के अस्त्र प्राच्या के अस्त्र के अस्त्

Certificate

This is to certify that Mr. Sagar Tatyasaheb Kadam is studying in Third Year Of civil Engineering from Sveri College of Engineering Gopalpur.

He has Successfully completed his field Training work at our on going construction sites in Karmala from 15/12/2018 To 30/12/2018.

He is sincere, hardworking and bears good moral character during Training period.

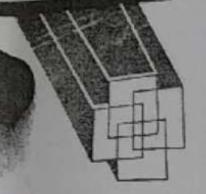
We wish him bright future.

This Certificate has been issued on his request.



थे. गुक्तकृत्म धिल्डमं औड देवासपसं

है. छि. उ भागीहार



PATWARDHAN CONSULTANTS PVT. LTD.

180 9001: 2015

ARCHITECTS, ENGINEERS, GOVI. REGD. VALUERS, PROJECT MANAGEMENT CONSULTANTS

Pune: Sharrii Kunj 3rd Floor, 945, Shukrawak Peth, Shiraji Road, Warrej Chowk, Pune - 411 002.

Office No. : (+ 91- 020) 65005731 / 24473274 / 7620305731

E-mail : patwardhenesseepune@yahoo.com / www.pcpl biz

FIELD TRAINING CERTIFICATE

This is certify that Mr. Sanket shrirang gurav student of DE (CIVIL THIRD YEAR)

Of Sveris college of engineering pandharpur attended the field

Training from 17-12-2018 to 31-12-2018 in PATWARDHAN CONSULTATS PVT. LTD during training period his work conduct was very good.

For Patwardhan Consultant Pvt. Ltd.

GRUDE CATE

This is to cirties that ;

Pranita Anand Kate get training during the period from 16/12/2018 to 31/12/2018 under my supervision.

The visited the sites and tried to understand the civil works which are under progress and daily submitted the reports to my

She have good knowledge about field work and good moral



Er. Ashok S. Bannenavar

B.E. Civil

Archietects & Engineers



M/s. UNIQUE BUILDERS

Civil Engineer & Contractor

Date:

This is Certify that the Mr. Suhas Jayhind Narsale, student of BE (Civil Engg. 3rd Year of Shree Vitthal Education and Research Institutes College of Engg. Pandharpur. Attended The Field Training From 16/12/2018 to 30/12/2018 in M/s Unique Builders Malewadi (Akluj) (Bridge Work) Name of work: Construction of Major Bridge Across Bhima River Near Village Umbare on Velapur Neware Umbare Karkamb Road MDR92 at Km.24.00 Taluka Pandharpur. Dist Solapur During training period his wor & Conduct was very Sincere and Good.



MIS. UNIQUE BUILDERS

PARTHERS



HEAD OFFICE:

17, "AKANKSHA" Bunglow, Ginraj Society, Baner Road, Near Sakal Nagar, Pune-07, Tel. No. 020-25640391 E-mail- pune-grautadegroup.com Websita: autadegroup.com CIN No. U45200PN2014PTC151170

Date: 66-01-2019

TO WHOM IT MAY CONCERN

This is Certify that, Mr. AVINASH SITARAM MULE a Student of SVERI College of Engineering Pandharpur, Solapur University Solapur.

Has Completed the 15 days Field Traning of (Rehabilitation and Upgradation to two lanes with paved shoulder from NH-561 A PandharpurMangalwedhaMarwadeUmadi from ch. 40/800 to ch.95/136 (Package no .II Length 54.336) in the state of Maharashtra on EPC Mode, Project) form 17/12/2018 to 31/12/2018 Mr. AVINASH SITARAM MULE remained involved in his work with determination and sincerity. We found her and competent in executing assigned tasks. During the mentioned period he was found punctual, Hard Working.

We wish him for Success in life.

Thanking you,

Yours faithfully.

SHRI S M AUTADE PVT. LTD. KHANDOBA LANE, MANGALWEDHA

BRANCH OFFICE

KHANDOBA LANE, MANGALWEDHA, DIST. SOLAPUR 413305. Tel. No. (02186) 221550 Fax No. (02488) 221700

5/2, MURARJI PETH, BHAGWAT UMA MANDIR BLDG., SOLAPUR 413003, Ph.No.(0217) 2728485

M. A. PATIL NIWAS, NEAR JAIL, DARGAH ROAD, BEHIND SHREYA HOSPITAL, BLIAPUR-586101 Ph. No. (08362)272968



CHAVANV.N.

ENGINEERING SERVIBES, OPP. P.W.D. DFFIDE, SAMTA COLONY, DSMANABAD.

: 7038664678.

Er. VISHNU N. CHAVAN

THE ARCHITECTS

19 ENGINEERS.

@ ESTIMATORS,

E BLEVEYDAR.

ER DESIGNERS.

Duce: 30112/18.

Ref. No.: 0 48 | DEC 2018 -

प्रमाणपत्र

प्रमाणित करण्यात येते की, कुमारी प्रगती मिटू जगताप हीने दिनांक 16/10/2018 ते दिनांक 30/12/2018 या कालावधीत फील्ड ट्रेनिंग काम यशस्वीरित्या पूर्ण केले आहे. सबब प्रमाणपत्र देण्यात येते.

March.

N. SHIRES IS



Shree Vyenkatesh Enterprises

Prop. : Eknath J. Nanaware

Shop - Get No. 85/3, Steepings Residency, Gets No. 3, Wangson Nagar, Pandharpur At 9804.

Resi. - 28/42, Nortial Bariej Hos. Soc. Bareprager, Birt Pole Factory, Pandharpur At 9804.

Emilio - Steepings Attach (System on in panel) 60 (19/5) grows com

Ref No

Date

CERTIFICATE

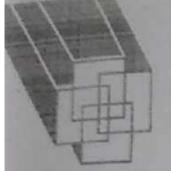
This Is To Certify That Miss. Shradha Rajendra Pawale Is Studing In Third Year Of Civil Engineering From SVERI College Of Engineering, Gopalpur.

She Has Successfully Completed Her Field Training Work At Our Ongoing Construction Sites In Pandharpur From 16/12/2018 To 30/12/2018.

She Is Sincere, Hardworking And Bears Good Moral Character During Training Period.

We Wish Her Bright Future. This Certificate Has Been Issued On Her Request.

Englacer Lakhon Kshirongar Comment of the second



PATWARDHAN CONSULTANTS PVT. LTD.

ISO 9001:2015

ARCHITECTS, ENGINEERS, GOVT. REGD. VALUERS, PROJECT MANAGEMENT CONSULTANTS

Pune ; Shanti Kunj 3rd Floor, 946, Shukrawar Peth, Shivaji Road, Vanraj Chowk, Pune - 411 002.

Office No.: (+ 91- 020) 65005731 / 24473274 / 7620335731
E-mail : patwardhanassocpune@yahoo.com / www.pcpl.biz

FIELD TRAINING CERTIFICATE

This is certify that Mr. AVINASH RAJENDRA LONDHE student of BE (CIVIL THIRD YEAR)

Of Sveris college of engineering pandharpur attended the field

Training from 17-12-2018 to 31-12-2018 in PATWARDHAN CONSULTATS PVT. LTD

during training period his work conduct was very good.

For Patwardhan Consultant Pvt. Ltd.

For Patwardhan Consultants Pvt. Ltd.



SOHEL CONSTRUCTION

GOVERNMENT REGISTER CONTRACTOR

Abdul Kadar Manjil Patet Chowk, BDD Office Near, A/p. Kurduwadi, Tq. Madha, Dist. Solapur - 413208 I E-mail : Soholcona?269gmail.com, Yealnshalkh9049gmail.com | 1 Cqll : 9604.107860, 9403291768

Ref. No.

Date: / /201

FIELD TRAINING CERTIFICATE

This is certify that Mr. Moin Latif Mulani student of B.E. Civil (Third Year) of Sveris college of Engineering Pandharpur attended the field training from 17.12.2018 to 31.12.2018 in Sohel Construction Government Register Contractor during training period his work conduct was very good.



For Sohel Construction

FIELD TRAINING REPORT

ON

RAILWAY DOUBLING PROJECT



COLLEGE OF ENGINEERING, PANDHARPUR.

DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2018-2019

Submitted By :- Mr . Shoaib Salim Shaikh

(T.E Civil Roll no:57)



Dale : 30/12/2018

Training Certificate

This is Certify that Mr. Shoalb Sallm Shalkh Student of B.E. (Civil -3rd Year) of Shri Vithal Education & Research Institute's College of Engineering Pandharpur Attended the field training from 16-12-2018 To 30-12-2018 in Sonal Infrastructure Pvt. Ltd. Sangli (Earthwork in Embankment & Cutting Incld. Extension of Minor Bridges & RUB' in connection with Pune –Miraj Doubling Project from KM.216.00(Shenoli) to Km. 280.00(Miraj)) during Training Period his work & Conduct was very sincere and good

Authorized Representative.

For Sonai Infra, Pvt. Ltd., Sangli.



A STANLAR CHURCH

Sonal Infrastructure Private Limited

Ist Floor, Stylrom Plaza, Ram Mandir Corner, Sangil 416 416, Mahareshira India), Teletax: (0233) 2323697, e-mail: aximin@songintra.com

www.sonaiinira.com

INDEX

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2	Site Information	7
3	Project Information	8
4	General Information	2
5	Precautions against Accidents	<u>20</u>
6	Conclusion	<u>21</u>

INTRODUCTION

The purpose of this training is to enrich the students with updated field knowledge. This helps in understanding various field activities, construction techniques, materials and equipment's, Management Techniques, etc.

Objectives of field Training:

- To apply theoretical knowledge on field
- To understand practical approach on field
- To understand actual processes on site
- To understand procedure
- To get site work experience
- To aware of problems on site

SITE INFORMATION

Project Name: Railway Doubling Project

Type of Structure : Infrastructure

Location: Pune-Miraj Road, Takari, (Sangli)

Project Engineer: Mr. Yuvraj Salunkhe

Site Supervisor: Mr. Mubin Shaikh

A project by : Sonai Infrastructure Pvt.Ltd.

1st Floor, shriram plaza, ram mandir corner, Sangli

Site Location: @Takari

PROJECT INFORMATION

Project Name: Earthwork in embankment and cutting include

extension of minor bridges and RUB's in

connection with Pune -Miraj doubling project

Type of Structure:

Railway Doubling Project

Project Cost:

370 crore

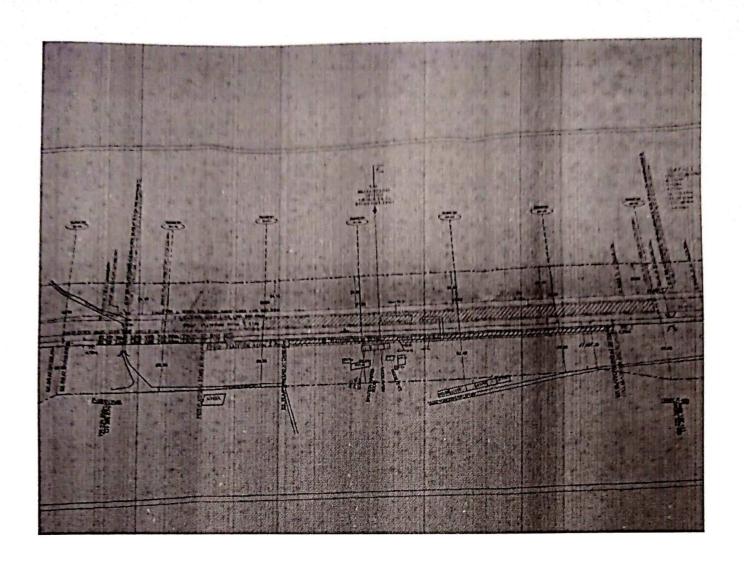
Working Area:

Km.216.00(Shenoli) to Km.280.00(Miraj)

GENERAL INFORMATION

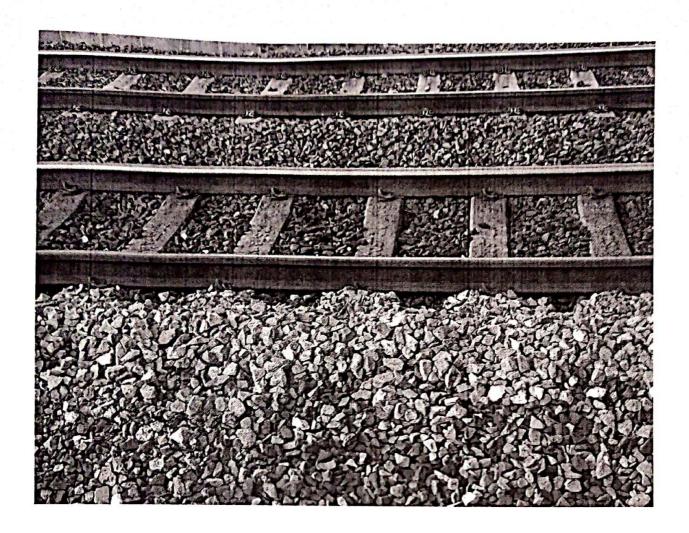


The project is all about constructing the second railway line(i.e doubling of railway line) with respect to existing railway line. The project working area is from miraj(Km.216) to pune(Km.280) for about 64kms. In which we studied at Takari and Bhavani Nagar for about 15 days. This project is divided into several parts such as Earthwork(excavation, cutting and filling in embankment), extension of minor bridges, RMC plant, WMM plant etc.



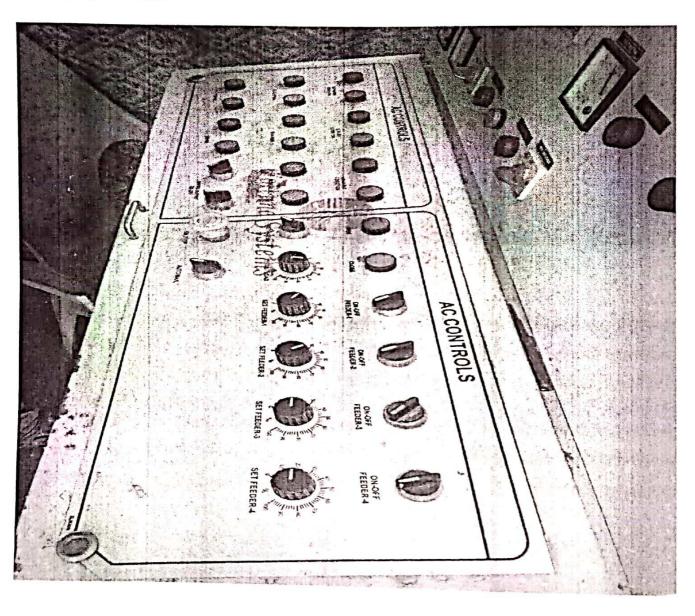


The project initiates with survey of the yard area at 25m chainage with respect to existing railway line by offset survey. The maximum width of yard is 32m and minimum width is 28m. The railway line are of two types main line and loop line. The loop line is only for stopping of rail at station and main line is for running of railway which has more slipper density as compare to loop line.



After completion of survey we studied the plan of Bhavani Nagar station for carrying lineout on the field. After that we made markings on the field by using white powder. Here after the next step is the Blanketing of ground with respect to existing fixed RL's for levelling of ground.

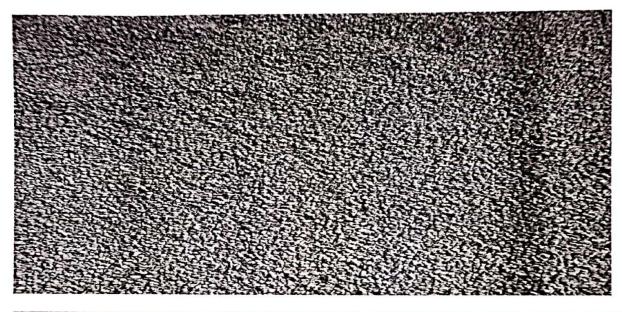
To know the Blanketing in brief we visited the WMM (Wet Mix Macadum) plant and guided under the supervision of Hitesh Payghan sir. WMM is mixture of 60% murum and 40% fine aggregate and water control as per design requirement. These WMM plant consist of following parts Gathering Conveyor, Slinger Conveyor, load out conveyor, GOB hopper, VIB screen, MONO block, PUG mill, BIN-VIB.

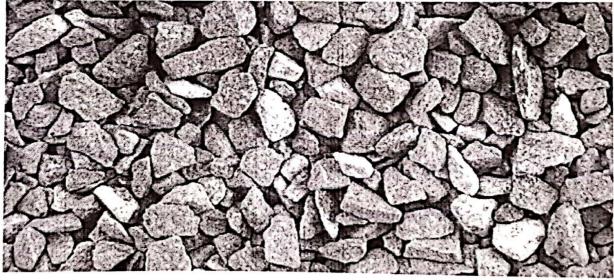


On next day we had visited RMC plant which is used for proportional mixing of concrete as per the design for Minor bridges. In RMC we are using cement sand aggregates water and some other chemicals if required for getting required strength in proper proportions.



Aggrigates used are of two types sharp edged aggrigates and VSI aggrigates (are in rounded shape) for two sizes 10 and 20mm.we are using VSI aggrigates for RMC plant for getting more strength. Now a days ,crushed sand is used instead of sand due to its scarcity. Crushed sand have black colour having VSI type gives more strength as it has more holding capacity together to all materials.





Precast concrete are the prestressed concretes to give the negative tensile strength to it, so that when compressive load will act on it. It will becomes negative or max to max zero to neutralize compressive load. Here we are using sleeper cells in railways in prestressed form to neutralize compressive load coming from rail. Sleeper cells are trapezoidal in shape. Sleepers provided for one rail length is known as sleeper density. Sleeper density for unit rail is given by,

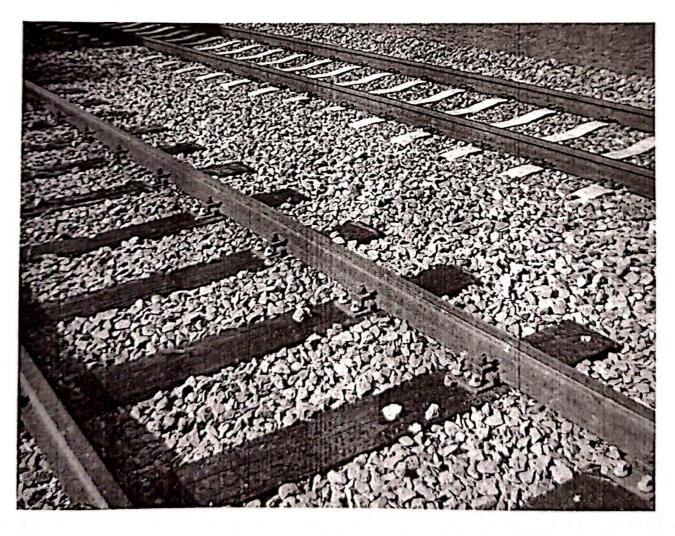
Slipper density = N + X, (X - > 3 to 6)

Where, N = length of one rail = 12.8m

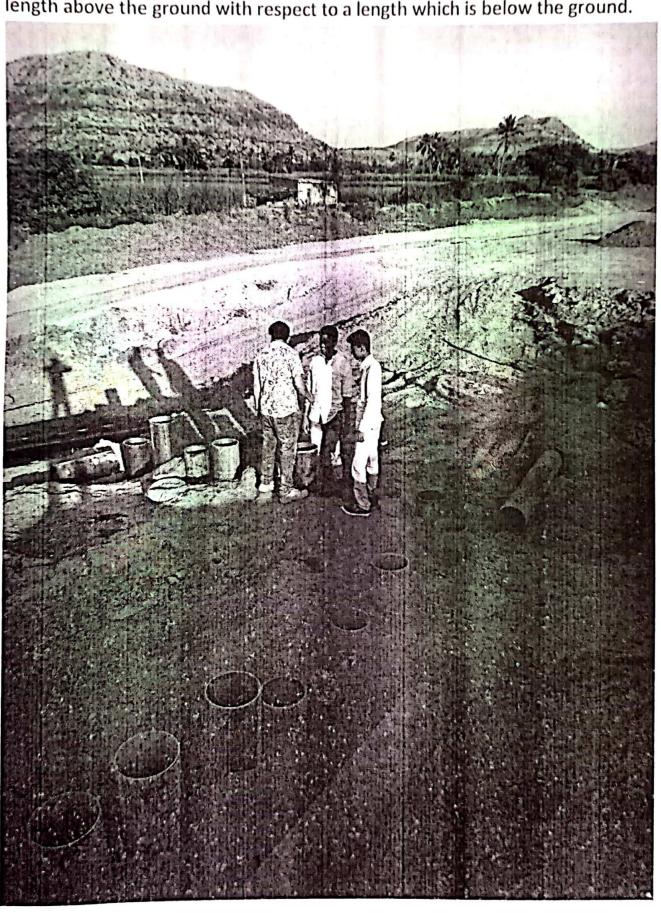
X = depends on type of gauge

Total number of sleepers required for 1Km length= (18/12.8)*1000

=1406 Sleepers



To prevent the embankment from falling down while travelling of rail over the bridges, pile foundations are provided. Pile is inserted into the ground till hard strata is not reached. If hard strata is not get upto necessary depth then we have to use Friction pile foundation. In friction pile foundation we keep half of length above the ground with respect to a length which is below the ground.

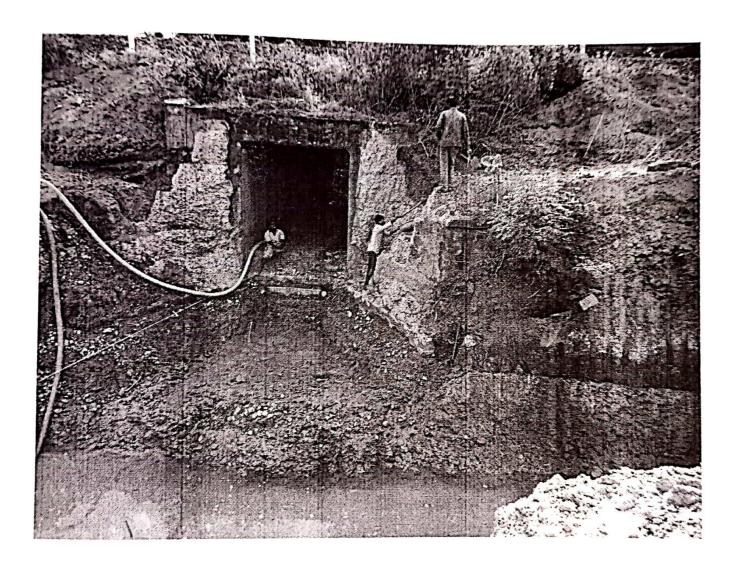


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PRECAUTIONS AGAINST ACCIDENTS:

Security of Labour s and engineer working on site is necessary in construction phase.so to prevent accidents on site the measures taken are as follow:

- Provide safety training
- hold safety meetings
- use protective equipments
- maintain the tools and equipments
- · prevent falls
- keep the workplace clean
- Chemical splash googles
- Protective gloves

Guide line from contractor

- 1. Make list of various useful IS codes
- 2. Update softwere knowledge
- 3. Field knowledge
- 4. Application of theory part on field
- 5. Make theory part very clear

CONCLUSION:-

Field training is very good opportunity for trainee engineers. From training they get practical knowledge about the field, field problems, and remedial measures for such problems. For me this was very learning section in which I got knowledge about construction of elevated service reservoir. I have also learned management of resources.

SVERI's College of Engineering, Pandharpur Department of Civil Engineering Sponsored Project Record

A.Y.: 2018-19



SHRI VITHAL EDUCATION & RESEARCH INSTITUBE'S

COLLEGE OF ENGINEERING, PANDHARPUR.

Department of Civil Engineering

Acad	d. `	Y	ea	r-2	0	18	-1	9

Class-BE

Sr. No.	Name of Student	Name of Guide	Sponsoring Company	Title of Project
1	HIPPARKAR HARIDAS RAMCHANDRA			
2	JAGTAP SURAJ KAKASAHEB	D CC 1 1 (1)	Sadguru Construction,	Replacement of cement by
3	MHETRE SHIVAJI SHASHIKANT	Prof. S.J. Mohite	Pandharpur	sili ı sand.
4	NAVAGIRE OMKAR PRAKASH			
5	KAKADE VISHAWAJEET VIKAS			
6	JAGTAP SURAJ SANTOSH		Grampanchayat Gardi,	Partial replacement cement
7	TONDASE MILIND VISHNU	Prof. R S Sathe	Tal: Pandharpur	of plasting in Bluminash
8	GURAV SHYAM SUBHASH			par ment.

(S.A. GOSAVI)

Project Co-ordinator

(Dr. P.M. Pawar)

Dept. of Civil. Engg. C.O.E. Pandharpur

SADGURU CONSTRUCTION

Deals in Plan, Estimate, Interior Designers

4643/1 old karad road, Manisha Nagar, Guru Nanak Bhavan, Pandharpur.

W

Contact: 9975427622,8999257747



Email ld, jstu.batra@ggmail.com

Date: - 21/3/2019

To, HOD, Civil Engineering Department. College of Engineering, Pandharpur.

Subject: -Letter of Appreciation for your final students.

Dear Sir,

We are happy to inform you that your following students have interacted our team and visited our sites at Residential Banglow at Ambe, Tal. Pandahrpur Dist. Solapur for doing their final year project titled "Replacement of cement by silica sand" during academic year 2018-19. The notable points of the projects are

- 1. Compressive strength increases with replacement level up to 12%.
- 2. Maximum Compressive strength is obtained 6% replacement level.
- 3. Increasing silica sand percentage decreasing the strength.

Name of students:

- 1. Mr. Shiyaji Shashikant Mhetre
- 2. Mr. Haridas R. Hipparkar
- 3. Mr. Suraj Kakasaheb Jagtap

Sadguru Construction, Pandharpur Prop. Jitu Laxman Batra Lic No. LA / 00037 Mob No. 9975427522 / 9028710790 स्वच्छतेकब्न सम्ध्यीकडे... स्थापना : ३/११/१९५१





ता. पंदरपूर जि. सोलापूर



दिनांक: 28/03/२०१९



and my confrant

बी.विजय जयवंत कारें

भी. पहिली संभाजी कांबळ

उपसरपंच

सरपंच

धामसंवक

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College of Engineering, Pandharpur.

Subject: -Letter of Appreciation for your final students.

Dear Sir.

We are happy to inform you that your following students have interacted our team and visited our sites at Construction of BT Road, at Grampanchayat Gardi, Tal. Pandharpur, Dist.Solapur for doing their final year project titled "An Experimental Investigation on The partial Replacement of Plastic in Bitumen for Flexible Pavement" during academic year 2018-19. The notable points of the projects are,

- The use of bitumen with addition of processed waste plastic of about 5 % by weight of bitumen.
- Using the wet process with varying percentage of 7.5, 10, 12.5 and 15 of aggregate can be replaced by e-waste.
 - 3. Process is environment friendly.

Name of students:

- 1. Mr. Milind V. Tondase
- 2. Mr. Vishwajit V. Kakade
- 3. Mr. Sham S. Guray
- 4. Mr. Suraj S. Jagtap

ग्रामसेवक, ग्रामसेवक, ग्रामपंचायत गार्डी ता. पंडरपूर,जि. सोलापूर.

SVERI's College of Engineering, Pandharpur Department of Civil Engineering B.E. Project Record

A.Y.: 2018-19



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S

COLLEGE OF ENGINEERING, PANDHARPUR. Department of Civil Engineering

Students List for Project work-I, Assessment of report on field training-II, Project work-II

Class: BE (Civil) Academic Year 2018-19 Sr. No. Name of Student Roll No. Group No. Project Title Project Guide WAGHMODE TEJASVI DHONDIBA 14 THITE TRUPTI SOMNATH 13 3 /THITE ANKITA ARJUN /KORAKE SWAPNALI KAILAS 12 Prediction of Basin yeild BE-1 4 Prof. S.D. Jagdale 5 using ANN Tool. /KATKAR NAMRATA RAMKRISHNA 6 /ITKAPALLE POOJA RAMESH 15 7 /BARBOLE SAPANA RAMDAS 1 8 /BHOSALE MONIKA MADHUKAR 2 Exp. Study of replacement 9 /JADHAVAR NIKITA RAMESH 3 BE-2 of cement by Baggasse ash Prof. S.A. Gosavi 10 /NAIKNAWARE DIPALI BHARAT 18 & steel fibre. 11 /MOHITE ARTI AUDUMBAR 7 12 MANGIRE ADESH SUNIL 37 13 PURI ANIL ARJUN 43 Best Input variable 14 GADE DIPAK SHIVAJI 30 BE-3 combination for the Prof. S.D. Jagdale 15 AJURE SHUBHAM DILIP 27 reservour capacity analisis 16 PAWAR BALU SIDRAM 41 17 /JADHAV SARITA NARAYAN 21 18 /SARATAPE RUNALI GAJANAN 24 19 Exp. Study of replacement /CHANDANSHIVE KOMAL SHAHAJI BE-4 Prof. S.A. Gosavi 20 HENDRE GEETA MAHADEV of cement by plastic waste. 26 21 /WAGHAMARE RANI TRIMUKH 20 NAIKWADI ASHWINI BALIRAM 22 8 Experimental study for 23 PADAVALE PRIYANKA VITTHAL 9 compressive strength of 24 /PATIL SWATI DATTATRAY 10 BE-5 ordinary concrete using Prof. A.B. Kokare 25 SURYAWANSHI SMITA RAMDAS 11 destructive & non 26 /JAWANJAL YADNYASENI JAYANT 4 distructive testing. 27 KADAM YOGESHWAR PRABHAKAR 33 GAVHANE AKSHAY BALKRUSHNA 28 49 29 HONMUTE KUNDAN GANPAT 32 Study of perriount concrete BE-6 30 KASHID SAMADHAN HARISHCHANDRA Prof. V.S. Kshirsagar 34 pavement. 31 BANGOSAVI VINAL RAJENDRA 28 NIRMAL SANDIP BHAUSAHEB 32 40 /SAPKAL ANJALI DATTATRAY 33 19 Development of smart 34 LENGARE AMRUTA LAXMAN 16 /GODASE YASHASHRI SADHAU /KAMBLE AKSHADA AVINASH traffic system for 35 17 BE-7 Prof. C.R. Limkar 36 22 23 pandharpur city by using /MADAKE BHAKTI SAMBHAJI 37 ITS system. 38 HIPPARKAR HARIDAS RAMCHANDRA 56 39 JAGTAP SURAJ KAKASAHEB 58 Replacement of cement by BE-8 40 MHETRE SHIVAJI SHASHIKANT Prof. S.J. Mohite 38 lilica sand. NAVAGIRE OMKAR PRAKASH 41 50 PAWAR SURAJ RAJENDRA 42 42 Experimental behaviour of GHADAGE GANESH SAHEBRAO 43 47 Neutralized red mud by 44 RAUT DHANAJI ANKUSH 48 BE-9 Prof. M.S. Survase CHAVAN ABHIJEET SHANKAR 45 replacing cement 54 46 KUMBHAR VISHWANATH MAHADEV 35 percentage.



Sr. No.	Name of Student	Roll No.	Group No.	Project Title	Duinet Coria	
47	SAKHARE ABHISHEK UTTAM	44		21 Oject Title	Prject Guide	
48	JADHAV RAVIKIRAN PANDURANG	57	22.10	Improving water disribution	,	
49	SALGUDE PRATIK NANDKUMAR	65	BE-10	tech in rural area. (Ankoli)	Prof. V.S. Kshirsagar	
50	KANADE RUTWIK AMAR	59		teen in rular area. (Alikoli)		
51	KHUNE VAIBHAV BALASAHEB	60				
52	GAIKWAD DATTATRAYA MARUTI	31				
53	YEDAGE DINESH MADHUKAR	69	BE-11	For law finality will t	D 600	
54	CHOUDHARI SHUBHAM BHAGWAT	29	DE-11	Eco-low flushing toilet.	Prof. C.R. Limkar	
55	CHAURE KHELA RAJENDRA	53				
56	MULGIR VIKAS PANDITRAO	63				
57	PAKHARE VINOD NANDKUMAR	64		Interpretation of shear		
58	SHINDE RUSHIKESH MAHENDRA	45	BE-12		Prof. M.G.	
59	SARGAR SURAJ HANUMANT	66	DD-12	strength of fibre rinforced	Deshmukh	
60	UMBARE ABHAY UMAKANT	67		pond ash.		
61	WARAGADE SWAPNIL DATTATRAY	68		Y		
62	KUMBHAR KRISHNA DINKAR	61	*************	Introduction to sisalfiber as		
63	BONDAR SUSHANT MADHUKAR	52	BE-13 a alternative material t		Prof. S.J. Mohite	
64	EKATPURE PANKAJ ANIL	55		plywood.		
65	MANE VIKAS POPAT	62		, ,		
66	KAKADE VISHAWAJEET VIKAS	73		Partial replacement cement		
67	JAGTAP SURAJ SANTOSH	74	BE-14		Prof. R S Sathe	
68	TONDASE MILIND VISHNU	71	DD-14		1 tot. It o battle	
69	GURAV SHYAM SUBHASH	75		pavement.		
70	LOKHANDE ANIL LAXMAN	36				
71	PORE NILESH RAGHUNATH	51				
72	MORE KIRAN NANA	39	BE-15	Optimization technique for	Prof. S.A. Gosavi	
73	VELAPURKAR PRAVIN SHYAM	70	DD-13	contilever beam.	1101. D.A. 003avi	
74	SHINDE NITIN BHARAT	72]		P .	
75	SHINDE DEVIDAS TANAJI	46				





(Dr. P.M. Pawar) H.O.D. Civil Dept.

HEAD,
Dept. of Civil. Engg.
C.O.E. Pandharpur

SVERI's College of Engineering, Pandharpur Department of Civil Engineering Mini-Project Record

A.Y.: 2018-19

SVERI's College of Engineering, Pandharpur Civil Engineering Department
Mini Project
Class: TE-(Civil) A.Y.: 2018-2019



COLLEGE OF ENGINEERING, PANDHARPUR



P.B.No.54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413304, **District**: Solapur (Maharashtra) Tel.: (02186) 215063, 9503103757, **Toll Free No.**: 1800-3000-4131 e-mail.: coe@sveri.ac.in Website.: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur) NBA Accredited all eligible UG Programmes, NAAC Accreditated Institute, ISO 9001:2015 Certified Institute. Accredited by The Institution of Engineers (India), Kolkala and TCS, Pune.

Ref - COEPR/civi1/2018-19/1826

Date: 18103/2019

प्रति, मा. सरपंच साहेब, ग्रामपंचायत, अनवली ता. पंढरपूर जि. सोलापूर.

> विषय:- भूमिगत गटार डीजाईन व पाणी पुरवठा योजनेचे डीजाईन या शालेय प्रकल्पाकरीता सर्वेक्षण करणे बाबत.

महोदय,

उपरोक्त विषयांकित संदर्भास अनुसरुन आपणास कळविण्यास आनंद होतो की, आमच्या महाविद्यालयातील स्थापत्य अभियांत्रिकी विभागातील विध्यार्थी त्यांच्या अभ्यासक्रमाचा भाग म्हणून आपल्या गावासाठी भूमिगत गटार डीजाईन व पाणी पुरवठा योजनेचे डीजाईन करू इच्छित आहेत. त्याकरिता आपल्या गावाचे सर्वेक्षण करण्यासाठी दिनांक १९ मार्च २०१९ रोजी येत आहेत तरी आपण त्या साठी परवानगी देवून सहकार्य करावे ही विनंती.

कळावे,

आपला विश्वासु,

(डॉ.पी.एम.पवार)

स्थापत्य विभाग प्रमुख

Pept of Civil Engo



COLLEGE OF ENGINEERING, PANDHARPUR



P.B.No.54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413304, District: Solapur (Maharashtra)
Tel.: (02186) 216063, 9503103757, Toll Free No.: 1800-3000-4131 e-mail.: coe@sveri.ac.in
Website.: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)
NBA Accredited all eligible UG Programmes, NAAC Accreditated Institute, ISO 9001:2015 Certified Institute,
Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune.

Ref .- COEPR/civil/2018-19/ 1825

Date:- 18|03|2019

प्रति, मा. सरपंच साहेब, ग्रामपंचायत, आंबे ता. पंढरपूर जि. सोलापूर.

> विषय:- भूमिगत गटार डीजाईन व पाणी पुरवठा योजनेचे डीजाईन या शालेय प्रकल्पाकरीता सर्वेक्षण करणे बाबत.

महोदय,

उपरोक्त विषयांकित संदर्भास अनुसरुन आपणास कळविण्यास आनंद होतो की, आमच्या महाविद्यालयातील स्थापत्य अभियांत्रिकी विभागातील विध्यार्थी त्यांच्या अभ्यासक्रमाचा भाग म्हणून आपल्या गावासाठी भूमिगत गटार डीजाईन व पाणी पुरवठा योजनेचे डीजाईन करू इच्छित आहेत. त्याकरिता आपल्या गावाचे सर्वेक्षण करण्यासाठी दिनांक १९ मार्च २०१९ रोजी येत आहेत तरी आपण त्या साठी परवानगी देवून सहकार्य करावे ही विनंती.

कळावे,

आपला विश्वासु,

(डॉ.पी.एम.पवार) स्थापत्य विभाग प्रमुख HEAD, Dept. of Civil. Enge C.O.E. Pandharpur स्तरपंच, ग्रावपंचायत आंबे. ता. पंढापूर.



COLLEGE OF ENGINEERING, PANDHARPUR



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Ref .- COEPR/Civil/2018-19/1824

Date: 1810312019

प्रति, मा. सरपंच साहेब, ग्रामपंचायत, मुंढेवाडी ता. पंढरपूर जि. सोलापूर.

> विषय:- भूमिगत गटार डीजाईन व पाणी पुरवठा योजनेचे डीजाईन या शालेय प्रकल्पाकरीता सर्वेक्षण करणे बाबत.

महोदय,

उपरोक्त विषयांकित संदर्भास अनुसरुन आपणास कळविण्यास आनंद होतो की, आमच्या महाविद्यालयातील स्थापत्य अभियांत्रिकी विभागातील विध्यार्थी त्यांच्या अभ्यासक्रमाचा भाग म्हणून आपल्या गावासाठी भूमिगत गटार डीजाईन व पाणी पुरवठा योजनेचे डीजाईन करू इच्छित आहेत. त्याकरिता आपल्या गावाचे सर्वेक्षण करण्यासाठी दिनांक १९ मार्च २०१९ रोजी येत आहेत तरी आपण त्या साठी परवानगी देवून सहकार्य करावे ही विनंती.

कळावे,

आपला विश्वास्,

(डॉ.पी.एम.पवार) स्थापत्य विभाग प्रमुख HEAD, Dept. of Civil. Engg. C.O.E. Pandharpur

3,3/6 धार्डरी सरपंच, ग्रामपंचायत मुंदेवाडी ता. पंदरपूर, जि. सोलापूर



COLLEGE OF ENGINEERING, PANDHARPUR

P.B.No.54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413304, **District**: Solapur (Maharashtra) **Tel.**: 7755990201 **Toll Free No.**: 1800-3000-4131 **e-mail**.: coe@sveri.ac.in **Website**.: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur) Accreditated by The Indian Institution of Engineers (India), Kolkata and TCS, Pune. **NAAC** Accreditated Institute, **NBA** Accredited All UG Programmes, ISO 9001:2008 Certified Institute.

Department of Civil Engineering

Date: 18/03/2019

Notice

As per Punyashlok Ahilyadevi Holkar Solapur University's curriculum of TE (Civil), a Mini Project task is assigned to all the TE (Civil) students. In the view of this engg surveys are to be conducted on 19/03/2019. The details of the tasks are as follow:

Sr.	Name of	Title of Mini Project	Batch No.	Name of Guides and
No.	Village			Coordinator
		Survey for Design of Water		Prof. Taralgatti P D,
1	Anawali	supply and Sewerage system for	T1	Prof. Patil S P
		Anawali Village		Prof. Limkar C R
		Survey for Design of Water		Prof. Kokare A B,
2	Ambe	supply and Sewerage system for	T2	Prof. Sathe R S,
		Ambe Village		Prof. Bhaganagare P B
		Survey for Design Water supply		Prof. Surwase M S,
3	Mundhewadi	and Sewerage system for	T3	Prof. Jagdale S D
		Mundhewadi Village		Prof. Sule R H

All the concerned students and faculty members are hereby informed to take the note of the same and act accordingly.

Dr. P M Pawar HOD

UNDERTAKING Department of Civil Engineering T.E.Civil Academic Year-2018-2019

We the students of T.E. Civil going for site survey visit for sewerage system and water distribution system design, on 19/03/2019, we hereby are undertaking that, During this whole survey to and from journey, we commit that we all will follow the rules which are expected to be followed by student. Also, we will definitely follow and obey the instructions given by each teacher who are accompanying with us during whole journey. If any discrepancy or any odd event will be happened from our side then we are ready to accept the any type of punishment given by any teacher.

1	NAME OF STUDENT	Sign	Roll No.	NAME OF STUDENT	Sign
1	THE STATE OF THE STATE OF	K.K.Bhise	36	GAIKWAD PRASHANT MANIK	a 1
	/BHISE KIRAN KISAN	Brosal.	37	GAWADE AJAY SANTOSH	Rose
2	/BHOSALE KAJAL BHARA?	AAC	38	Gore Krushna Devidas	1000
3	/CHIKMANE ANKITA ANIL	TAPTE	39	GORE SUDHIR PARMESHWAR	20hz
4	/DAHIHANDE JYOTI GAURISHANKAR	1500.	40	GURAV SANKET SHRIRANG	from
5	/DESHMUKH SNEHA SHIVAJIRAO	offeren	41	HONMANE SAGAR S!DDHESHWAR	The state of the s
6	/DESHMUKH SUSHAMA MAHADEV	H.P. Dhumal	42	JADHAV VAIBHAV DEVIDAS	(VD) outher
7	/DHUMAL HARSHADA PANDURANG	(b) de	43	KADAM SHUBHAM SUNIL	Buil
8	/KAMBLE ASHWINI ARVIND	Pockate.	44	KADAM VIRAJ MARUTI	Kadar
9	/KATE PRANITA ANAND	Ayalik	45	KALE VAIBHAV VASANT	Madel
10	/KUMBHAR ANJALI GANPAT	toman	46	KANGUDE YOGESH BALKRISHNA	BIC
11	/MASAL AISHWARYA NILKHANT	Farels	47	LONDHE AVINASH RAJENDRA	JAP/
12	/PAREKAR MRUNALI BIRUDEV	- Hil	-	MALI PRATHAMESH KRISHANA	gordi
	/PATIL RUTUJA NAGESH	Gratil.	48	MULANI MOIN LATIF	
14	/PAWALE SHRADDHA RAJENDRA	I M D	49	MULE AVINASH SITARAM	Asoni
15	/PAWAR MRUNAL MADHUKAR	Manuel	50	NARSALE SUHAS JAYHIND	
16	/POLAS POOJA PRUSHOTTAM	polosef	51	PAWAR SAURABH BABAN	Pawers
17	/PUJARI PRIYANKA TUKARAM	Jugan f. T.	- 52		muces
18	/RONGE POOJA BABRUVAHAN	0 3	53	PAWAR SWAPNIL JITENDRA	Hmi
19	/SARVAGOD PRACHI JITENDRA	Is agragad	54	PUJARI HANAMANT SHRISHAIL	tawan
20	/SUIKHARE SADHANA NAGNATH	Shirth	55	SAWANT GAURAV VITTHAL	Levels
21	/SHINDE PRIYADARSHANI RAVINDRA	Shinders	56	SAWANT SHAILESH SHASHIKANT	Elle.
22	/TEKE MADHURI KISHOR	Oseke.	57	SHAIKH SHOAIB SALIM	Due
23	/WAGHMODE PRAJAKTA SOPAN	Showale	58	SHINDE GANESH MADAN	The same of the sa
24	/ZENDE PRIYA BRAMHADEO	zendepp.	59	SOUDAGAR PRASAD SHIVAJI	Thera
25	/JAGTAP PRAGATI MITU	Proget	60	THENGAL ABHIJIT DATTATRAYA WAGHAMODE ANANDA	100
200	/DONGARE SHUBHANGI	Mulhanai	61	BALASAHEB	Sale
26	/THORAT AISHWARYA A.	Change on off	62	Sarvade Akash Pandurang	21.

ADE ABASAHEB DADASO ASE SANDIP SUKHADEO DRE RAMDAS SANJIV KARNI SHUBHAM RAJENDRA IL PRASAD MANIKRAO
DRE RAMDAS SANJIV KARNI SHUBHAM RAJENDRA
KARNI SHUBHAM RAJENDRA
1. /
H PRASAD MANIKRAO
AM SAGAR
KWAD PAWAN ANAND
ekar Sagar
- 30 to 50 T3- 50 to 71
d

(Prof.C R Limkar) Class Coordinator (Dr. P. M. Pawar) HOD Civil Engg

COLLEGE OF ENGINEERING, PANDHARPUR. Department of Civil Engineering Academic Year 2018-19 TE-II

Date: - 19-3-2019

Attendance for Site visit of survey to design sewerage system and water distribution system at Ambe.

oll No.	NAME OF STUDENT	Sign
1	/BHISE KIRAN KISAN	BhiseKK
2	/BHOSALE KAJAL BHARAT	Rhosel
3	/CHIKMANE ANKITA ANIL	AAC
4	/DAHIHANDE JYOTI GAURISHANKAR	Typti
5	/DESHMUKH SNEHA SHIVAJIRAO	MEQ
6	/DESHMUKH SUSHAMA MAHADEV	8m
7	/DHUMAL HARSHADA PANDURANG	Dhymal H
8	/KAMBLE ASHWINI ARVIND	Alpha
9	/KATE PRANITA ANAND	Pakat
10	/KUMBHAR ANJALI GANPAT	Marile.
11	/MASAL AISHWARYA NILKHANT	tomorey
12	/PAREKAR MRUNALI BIRUDEV	(Sase)
13	/PATIL RUTUJA NAGESH	R-N. Pati
14	/PAWALE SHRADDHA RAJENDRA	S.R. Pawol
15	/PAWAR MRUNAL MADHUKAR	Met
16	/POLAS POOJA PRUSHOTTAM	PolarPP
17	/PUJARI PRIYANKA TUKARAM	P.P.T
18	/RONGE POOJA BABRUVAHAN	marye
19	/SARVAGOD PRACHI JITENDRA	Barvagad
20	/SHIKHARE SADHANA NAGNATH	Suche
21	/SHINDE PRIYADARSHANI RAVINDRA	Shinder
22	/TEKE MADHURI KISHOR	WELLE
23	/WAGHMODE PRAJAKTA SOPAN	wes
24	/ZENDE PRIYA BRAMHADEO	zend
25	/JAGTAP PRAGATI MITU	pragati
26	/DONGARE SHUBHANGI KANHOBARAO	Shulehour
27	/ THORAT AISHWARYA A.	(0) johulas
28	/SARTAPE PRANALI RAJENDRA	Pranall
29	/VIBHUTE JYOTI ASHOK	THE



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S

COLLEGE OF ENGINEERING, PANDHARPUR. Department of Civil Engineering Academic Year 2018-19 TE-II

Date:- 19-3-2019

Attendance for Site visit of survey to design sewerage system and water distribution system at Anawali.

Roll No.	NAME OF STUDENT	Sign
51	NARSALE SUHAS JAYHIND	Nahar
52	PAWAR SAURABH BABAN	Sayan
53	PAWAR SWAPNIL JITENDRA	Quua
54	PUJARI HANAMANT SHRISHAIL	Journ 1
55	SAWANT GAURAV VITTHAL	GW Javan
56	SAWANT SHAILESH SHASHIKANT	Eug to
57	SHAIKH SHOAIB SALIM	SCHALL
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ग्रामपंचायत अनवली

ता. पंढरपूर जि. सोलापूर



संत गाडगेबाबा

संत तुकडोजी महाराज

सी. सुनिता महादेव सुर्यवंशी

उपसरपंच, मोबा. ९९२१६३६४८१

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R. 19/ 3 /2099



मा. प्राचार्य,

अभियांत्रिकी महाविद्यालय,

मु. पो. गोपाळपुर ता. पंढरपूर

जि. सोलापूर - ४१३३०४

महोदय,

आपल्या महाविद्यालयातील स्थापत्य अभियांत्रिकी विभागातील विद्यार्थी व शिक्षकांनी आमच्या गावातील लोकांना भेटून खालील विषयावर समाज प्रबोधन व जन जागृती कार्यक्रम केला.

१)स्वच्छतेचे महत्व

२)पिण्याच्या शुद्ध पाण्याचे महत्व

३)सांडपाण्याचे सुनियोजन

४)भाभा अनुसंधान केंद्र मुबाई, येथील विविध शेती उपयोगी उपकरणांची माहिती.

५)मुलींच्या शिक्षणाचे महत्व

त्याबद्दल आम्ही आमच्या गावा तर्फे आपले मनपूर्वक आभार मानतो. आपले असेच सहकार्य भविष्यात मिळावे हि विनती.

कळावे.

आपला विश्वास



म्बच्छतेकड्न समृद्धीकडे...





देनांक १८/03/२०१९ जीएके 12098/03/हर्

प्रति, मा. प्राचार्य, अभियांत्रिकी महाविद्यालय, मु. पौ. गोपाळपूर ता. पंढरपूर जि. सोलापूर - ४१३३०४.

महोदय,

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- 1. स्वच्छतेचे महत्व
- 2. पिण्याच्या शुद्ध पाण्याचे महत्व
- 3. सांडपाण्याचे सुनियोजन
- 4. भाभा अनुसंधान केंद्र मुंबई, येथील विविध शेती उपयोगी उपकरणांची माहिती.
- 5. मुलींच्या शिक्षणांचे महत्व

त्याबद्दल आम्ही आमच्या गावातर्फे आपले मनपूर्वक आभार मानतो. आपले असेच सहकार्य भविष्यात मिळावे ही विनंती.

कळावे.

आपला विश्वासु,

की कर्

पायपंचायत आहे. ता. पंढरपर.



मपचायत मढेंवाडी

ता. पंढरपूर, जि. सोलापूर

आर. जे. सय्यद ग्रामसेवक

धौडीराम श्रीमंत मोरे सौ. उज्वला अशोक घाडगे

जावक क्र. :-

दिनांक:- 95/03 / २०१९

प्रति, मा. प्राचार्य, अभियांत्रिकी महाविद्यालय, म्. पो. गोपाळपूर ता. पंढरपूर जि. सोलापुर - ४१३३०४.

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आपला विश्वास्,

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सरपंच. ग्रामपंचायत मंहेवाडी ता. पंढरपूर, जि. बालापूर.

SVERI's College of Engineering, Pandharpur Department of Civil Engineering Sample Project Report

A.Y.: 2018-19

PROJECT REPORT ON "OPTIMIZATION TECHNIQUES FOR CANTILEVER BEAM"

Submitted in partial fulfilment of the requirement

For the award of the degree of

Bachelor of Engineering

In

Civil Engineering

from

Punyashlok Ahilyadevi Holkar Solapur University, Solapur



By

Pravin Shyam Velapurkar	Roll No 70
Nilesh Raghunath Pore	Roll No 51
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Devidas Tanaji Shinde	Roll No 46
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Under the Guidance of Prof. Gosavi S.A.



DEPARTMENT OF CIVIL ENGINEERING
SVERI'S COLLEGE OF ENGINEERINGPANDHARPUR
2018-19

A

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DEPARTMENT OF CIVIL ENGINEERING SVERI'S COLLEGE OF ENGINEERINGPANDHARPUR 2018-19



SVERI'S COLLEGE OF ENGINEERING, PANDHARPUR.

CERTIFICATE

This is to certify that the project entitled

"OPTIMIZATION TECHNIQUES FOR CANTILEVER BEAM"

Has been submitted by...

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during the academic year 2018-2019

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EXTERNAL EXAMINER

DECLARATION

We the undersigned have submitted the report for the proposed work entitled "OPTIMIZATION TECHNIQUES FOR CANTILEVER BEAM"

and declare that we have submitted the report after thorough study and is not copied from some source.

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AKNOWLEDGEMENT

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Abstract

Optimization is the process of selecting the best possible results among many possible results under given circumstances. The governing idea is to reduce the mass of the beam for a given strength. The cross section under consideration is a rectangular one. This involves creation of the geometry through a parametric study of all design variables. For this purpose, the optimization of the cantilever beam was elaborated in order to find the optimum geometry which minimizes its volume eventually for minimum weight. So for optimum safe design, besides minimum volume it should have minimum vibration as well.

This paper demonstrates an application of the genetic algorithms to the design of reinforced concrete cantilever beam. Cost optimization of reinforced concrete cantilever beam is carried out to get the most economical concrete section and the reinforcements at user specified intervals. Genetic algorithm is used to find out the depth, the number and diameter of bars and the diameter and spacing of stirrups. A program is created based on genetic algorithm to carry out the design. The loading conditions considered are uniformly distributed load in the full span of the beam. Design constraints for the optimization are considered according to the Indian Standard specifications. The program requires the user to input design parameters like the grade of concrete and steel, the design live loads, both uniformly distributed load, the cover required and the number of sections at which the beam has to be analyzed. The width of the beam also need to be given as input to the program.

This thesis aims to contribute to the reduction of the significant gap between the stateof-the-art of structural design optimization in research and its practical application in the building industry. The research has focused on structural topology optimization, investigating three distinct methods through the common example of bracing design for lateral stability of steel building frameworks. The research objective has been aided by collaboration with structural designers at Arup. It is shown how Evolutionary Structural Optimization can be adapted to improve applicability to practical bracing design problems by considering symmetry constraints, rules for element removal and addition, as well as the definition of element groups to enable inclusion of aesthetic requirements. Size optimization is added in the optimization method to improve global optimality of solutions.

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1. INTRODUCTION

The objective of shape optimization is to find the shape which is optimal in the sense that of the it minimizes a certain cost functional while satisfying given constraints. Analytical methods for developing a mathematical formulation for shape optimization dates back to Galileo in 1638, shape optimization became main interest of scientists in this field after the invention of computers, In last 40 years a lot of progresses have been made in this field. In the previous commonly used uncertainty analysis techniques for quantifying the impact of the uncertainty of model input on the model output (performance). Our ultimate goal is to use the knowledge we design level.

Therefore, we can ensure that a design be robust and safe against various uncertainties. The commonly used probabilistic design methodologies include reliability-based design, robust design, and Design for Six Sigma. Since all of these methods need to use optimization during the design process, a brief introduction to optimization design will be given in this chapter. We will then discuss reliability-based design and robust design in Chapters and respectively. Instead of providing a comprehensive presentation of optimization design techniques, this chapter is intended to present introductory materials about optimization design. It willensure a reader acquire basic working knowledge that is necessary for optimization modeling, the use of optimization software, and the analysis of optimization results. To help one easily understand the optimization techniques, a graphical means is employed in some cases instead of providing mathematical details. After finishing this chapter and associated homework, one is expected to be able to formulate an engineering optimization problem and solve it with optimization software.

1.1 HISTORY OF OPTIMIZATION TECHIQUE

Optimization is a design tool that assists designers automatically to identify the optimal design from a number of possible options, or even from an infinite set of options. Optimization design is increasingly applied in industry since it provides engineers a cheap and flexible means to identify optimal designs before physical deployment. Optimization capabilities have also been increasingly integrated with CAD/CAM/CAE software such as Adams, Nastran, and Opti Struct. Even in our daily life, we are constantly optimizing our goals (objectives) within the limit of our resources. For example, we may minimize our expenditure or maximize our saving while maintaining a certain living level. When shopping for a car, we may try to meet our preference (performance of the car, safety, fuel economy, etc.) maximally on the condition that the price does not exceed what we can afford. It is the same case in engineering design where we optimize performances of the product while meet all the design requirements. Great strides have been made during the past decade in computer-aided design (CAD) and computer aided engineering

(CAE) tools for mechanical system development. Discipline-oriented simulation capabilities in (CAE) to control system dynamics, aerodynamics, control systems, and numerous related structures, being used to support a broad room. structures, structures, control systems, and numerous related fields are now being used to support a broad range of mechanical system design applications. fields are fields of these tools to create a robust simulation-based design capability, however, remains Integration Dascu design capability, however, remains a challenge. Based on their extensive survey of the automotive industry in the mid-1980s, Clark a chancing in the mid-1980s, Clark and Fujimoto2 concluded that simulation tools in support of vehicle development were on the and rujument were on the horizon but not yet ready for pervasive application. The explosion in computer, software, and modeling and simulation technology that has occurred since the mid-1980s suggests that highfidelity tools for simulation-based design are now at hand.

2. CONCEPT OF OPTIMIZATION TECHNIQUES

2.1 DEFINITION

Optimization is a design tool that assists to identify the optimal design. Choosing the best element from some set of alternatives available. It is a processing of making optimum design. It provides engineers a cheap and flexible means to identify optimal designs before physical deployment.

2.2DESCRIPTION

The objective of shape optimization is to find the shape which is optimal in the sense that it minimizes a certain cost functional while satisfying given constraints. Analytical methods for solving shape optimization problems have been used for a long time. The first known attempt at developing a mathematical formulation for shape optimization dates back to Galileo in 1638, who found that minimum weight cantilever is a parabolic beam. Use of numerical methods for shape optimization became main interest of scientists in this field after the invention of computers, In last 40 years a lot of progresses accurate structural and design sensitivity analysis, and an efficient mathematical programming algorithm.

A design engineer simplifies the physical engineering problem into a mathematical model that canre present the physical problem up to the desired level of accuracy. A mathematical model has parameters that are related to the system parameters of the physical problem. A design engineer identifies those design variables to be used during the design process. Design parameterization, which allows the design engineer to define the geometric properties for each design component of the structural system being designed, is one of the most important steps in the structural design process. The principal role of design parameterization is to define the geometric parameters that characterize the structural model and to collect a subset of the geometric parameters as design variables. Design parameterization forces engineering eams in design, analysis, and manufacturing to interact at an early design stage, and support sa unified design variable set to be used as the common ground to carry out all analysis, design, and manufacturing processes. Only proper design parameterization will yield a good optimum

design, since the optimization algorithm will search within a design space that is defined for the design problem.

The design space is defined by the type, number, and range of design variables. Depending on whether it is a concept or detailed design, selected design variables could be non-CAD based parameters. An example of such a design variable is a tire's stiffness characteristic in vehicle dynamics during an early vehicle design stage.

2.30PTIMIZATIN SYSTEM

Optimization is a process of selecting the best possible results among many possible results under given circumstances. Mathematically it is finding the global maxima or minima of a function. Structural Optimization is applying optimization to conventional design process to get best possible value for design variables based on certain criteria. In the simplest case it is the process of selection of materials and geometry which satisfy specified and implied functional requirements while remaining within the confines of inherently unavoidable limitations.

In this time of advancement and development, everything comes at a cost. Today, all organizations look at reducing liabilities and improving their profit margin. The concept of A penny saved is a penny earned' is the guideline that serves validly today. Time is also weighed in gold today. Thereby it requires a miser's attitude to achieve results by keeping a tab on both of the above parameters which remain vital pillars

behind any engineering work. Hence arrives the need for optimization. This paper explores various tools used for optimization. All methods are carried out on a cantilever beam of rectangular cross-section.

many traditional optimization algorithms have been widely used in model parameter identification. These methods usually have their own limitations such as local convergence, inefficiency and easy to get into the local best. So, more attention should be taken to modern optimization methods for better solving capability. In the simulation section of this paper, an optimization algorithm with better convergence and global optimization functionality, which is named Modified Genetic Algorithm (MGA), is proposed by using self-adaptive strategy.







OPTIMIZATION

Not mean MEDOC

Fig. Optimization Meaning

2.4 FEATURES

Engineering structures/plants with flexible parts are usually associated with inherent vibration properties. The nature and extent of this vibration depend on the type of the structure and its mountings. These vibration problems become more prominent when the structure is placed on a relatively flexible base or then there is a considerable amount of movement within the plant. Vibration control of these engineering structures is essential for their proper operation and long life cycle. A considerable amount of research work has been done in this area This paper presents an investigation into simulation and vibration control of a cantilever beam system; and it presents an effective vibration cancellation of the structure using single or multiple control actuators and observation sensors. A cantilever beam system is considered because it is used in a number of flexible structures such as aircraft wings and space structures. Due to the distributed nature of the governing equation describing structural dynamics, control of flexible structures involves a very complex process. It is important initially to recognize the flexible nature of the beam, construct a mathematical model for the system and account for interactions with disturbances. The commonly used method, for numerically solving the systems governing equation, is based on finite elements (FE) and finite difference (FD). The computational complexity and consequent software coding is a major disadvantage of this technique, especially in real time system applications As FD method is generally found to be more appropriate, it is used in this paper. A reduced order model with the first few dominant modes is developed to implement the modal controller. For the implementation of the modal controller, a Kalman-Bucy filter state observer is used to estimate the state vector, which is not measured through, Several interesting control application areas, which adopt PSO algorithm, have recently been proposed by researchers in automatic generation control tunin, design of controllers, adaptive inverse control predictive control, , PI and PID controllers and ultrasonic motor control.

In this paper, PSO is adopted for the vibration cancellation problem because of its proved simplicity and performance in different applications. Neither expensive computations nor specialized methods are needed. However, this research paper found that PSO outperforms random search throughout and at the end of the search process as it shows a better convergence behavior and over-fitting avoidance. This result indicates that PSO can work as any-time method for the vibration suppression problem of flexile structures.

In addition, PSO based-state feedback controller, as compared to the general state feedback controller, performs extremely well in high dimensional optimization problems. Consequently, it is used to find the proper and effective state feedback parameters and remove the tedious and repetitive trial and error process of using traditional techniques. Evolutionary optimization algorithms are used to design the controller for vibration cancellation. The proposed method operates better in the aspect of designing the controller since it provides ample opportunities for designers to choose the most appropriate point based upon design criteria. The simulation results of the beam system behavior and the effectiveness of the controller on vibration reduction using single or multiple control actuators and sensors are important features of this paper.

2.5 DESIGN AND INSTALLATION CONSIDERATION

Design sensitivity analysis is used to compute the sensitivity of performance measures with respect to design variables. This is one of the most expensive and complicated procedures in the structural optimization process. Structural design sensitivity analysis is concerned with the relationship between design variables available to the engineer and the structural response determined by the laws of mechanics. Design sensitivity information provides a quantitative estimate of desirable design change, even if a systematic design optimization method is not used. Based on the design sensitivity results, a design engineer can decide on the direction and amount of design change needed to improve the performance.

measures. In addition, design sensitivity information can provide answers to "what if" questions by predicting performance measure perturbations when the perturbations of design variables are provided. Substantial literature has emerged in the field of structural design sensitivity analysis.4 Design sensitivity analysis of structural systems and machine components has emerged as a much-needed design tool, not only because of its role in optimization algorithms but also because design sensitivity information can be used in a computer-aided engineering environment for early product trade-off in a concurrent design For the purposes of design optimization, a mathematical programming technique is often used to find an optimum design that can best improve the cost function within a feasible region. Mathematical programming generates a set of design variables that require performance values from structural analysis and sensitivity information from design sensitivity analysis to find an optimum design. Thus, the structural model has to be updated for a different set of design variables supplied by mathematical programming. If the cost function reaches a minimum with all constraint requirements satisfied, then an optimum design is obtained.

2.6 TECHNICAL DESIGN

In case of cantilever beam for optimal design we consider, one ratio called as "Aspect Ratio". For calculating this aspect ratio required width and depth of respective beam section. For decide area of cantilever beam section and aspect ratio relation, following table must be consider.

TABLE ON DESIGN VARIABLES

SR.	DESIGN	ASPE
NO	VARIABLES	CT
	y (1)	RATIO
1.	B=0.23,d=0	0.40
	.57	
2.	B=0.23,d=0	0.50
1	.46	0 mg/m
3.	B=0.23,d=0	0.60
	.38	e et de l'en President
4.	B=0.23,d=0	0.70
	.33	

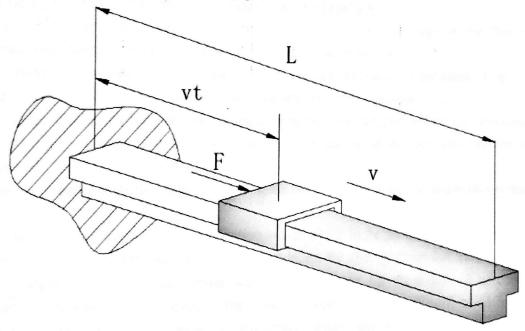
2.7 PROBLEM CONSIDERATION

It is obvious that a smaller deflection is obtained by a larger amount of material. Hence, due to the importance of the weight of the structural material from an economical point of view, it would be more advantageous if one defines an optimization problem which aims minimizing the weight of the structure simultaneously with minimizing the deflection. This will obviously be a multi-objective optimization problem, where the deflection and weight are kind of conflicting global functions. Amongst the several optimization methods there are a few which are more suitable for solving a multi-objective optimization problem with a large number of design variables and a relatively few number of constraints, which is the case in the structural topology optimization problem. Walker and Kumar have tackled complex multi-objective optimization problems by scalar sing the multiple objective functions into a single objective using a weight vector. A disadvantage of this approach is that the resulting optimal lamination scheme depends on the chosen weight vector. In general, a multi-objective optimization algorithm yields a set of optimal solutions, instead of a single optimal solution.

The reason for the optimality of many solutions is that no one solution can be considered better than any other with respect to the objective functions. These optimal solutions are known as Pareto-optimal solutions. Deb [has tried to solve the multi-objective optimization problems by using a fast and elitist multi-objective genetic algorithm (NSGA-II). The primary goals of a multi-criteria optimization algorithm are to guide the search towards the global Pareto-optimal front and to maintain population diversity in the Pareto-optimal solutions. In the present paper,

an improved methodology for the multi-objective optimization of cantilever beam structure. A modified form of multi-objective genetic algorithm, based on the elitist non-dominated sorting conflicting objectives. It explores the optimal design of a cantilever beam for minimization of weight and deflection, with the constraint that the developed maximum stress

random search throughout and at the end of the search process as it shows a better convergence behavior and over-fitting avoidance. This result indicates that PSO can work as any-time method controller, as compared to the general state feedback controller, performs extremely well in high dimensional optimization problems. Consequently, it is used to find the proper and effective state feedback parameters and remove the tedious and repetitive trial and error process of using traditional techniques. Evolutionary optimization algorithms are used to design the controller for vibration cancellation. The proposed method operates better in the aspect of designing the controller since it provides ample opportunities for designers to choose the most appropriate point based upon design criteria. The simulation results of the beam system behavior and the effectiveness of the controller on vibration reduction using single or multiple control actuators and sensors are important features of this paper.



3. MATERIALS

The objective of this paper is to obtain an optimal cross section parameters of a cantilever I beam subjected to static load considering weight minimization. Finite element method in conjunction with optimization algorithm is used to analyses the effect cross sectional geometrical parameters such as (top and bottom flange width, height of the beam) and state variables such as (total equivalent stress) on the beam weight. Commercial finite element software (ANSYS) is used to simulate the cantilever I beam subjected to a static load at its end, then perform a series of optimization iteration in order to obtain the optimal design parameters for a selected objective function (beam mass). In this study, the objective function is the minimum beam weight. The

the cross section parameters to withstand the exerted load yet with minimum material keeping parameters of the cross sectional I beam made of A36 steel are obtained after several complicated geometry and material.

3.1 CONCRETE MATERIALS

- 1. Cement=300kg/cu. m
- 2. Water content=140 lit/cu. m.
- 3. Water cement ratio=0.45
- 4. Fine aggregate=927kg/cu. m.
- 5. Coarse aggregate=1134kg/cu. m.(10mm&20mmsize)

4.WORKING OF OPTIMIZATION TECHNIQUES

- 1.A cantilever beam with uniform cross section subjected to point load at the free end has maximum and minimum bending stresses at fixed and free respectively.
- 2. The weight of the beam can be reduced by tailoring the thickness of the beam. It is necessary to find the cross-sectional dimensions of the state and objective variables.
- 3. To design variables which are independent variables and directly affect the solution of the problem. State variable is the first dependent variable, and so in this analysis maximum stress was defined.
- 4. Since the primary objective is to reduce volume without exceeding the allowable stress in the beam.
- 5. This is the one variable in the optimization which needs to be minimized, beam in order to minimize the weight. In the multi-objective formulation for the optimization of beam problem, Let us consider a cantilever bean whose one end is fixed and the cross-section of the beam is circular of diameter "d" and length. The beam is optimized for minimum deflection and minimum weight under constraints on maximum stress and maximum deflection Figure schematic diagram of cantilever beam.

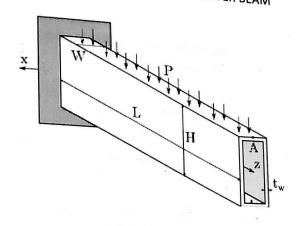


Fig. Conventional types of cantilever beam

4.1 COMPARISION BETWEEN CONVENTIONAL AND OPTIMIZED BEAM

The results of this standard engineering multi-objective optimization problem were compared with those obtained by the proposed algorithm. Fig. The cost optimization of the beam with respect to its length and width using differential algorithm was carried out in STADD Pro software. The results are found out and are tabulated in the table and further represented in the graph. The optimized value is modelled and simulated on ANSYS tool. This simulation is represented by a graph where beam optimization is done. Optimized value for SF &BM is arrived in between aspect ratio of 0.5-0.6 .because; the less variation in this both respective values is observed during the analysis.

Table No 1

A.R.	BM	SF
0.3	106.696	43.25
0.4	101.12	40.445
0.5	93.66	37.844
0.6	88.242	35.296
0.7	84.854	33.942

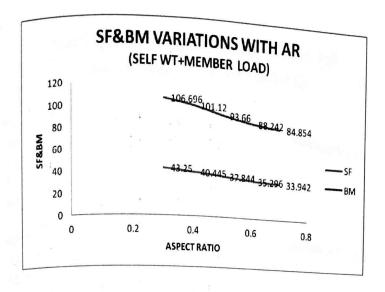


Fig.1

Observation

- In above graph, relation in between shear force and bending moment with aspect ratio is observed.
- Maximum bending moment and maximum shear force is 43.25KN.m &106.96KN respectively.
- Relation in obtained in shear force and bending moment is ,Shear force =bending moments*2.5

To find out optimum shear force and bending moments, following Fig. 1.1 should be consider,

Table 1.1

88.24	35.29 6
20.04	20.47
90.94	36.47
93.66	37.84 4

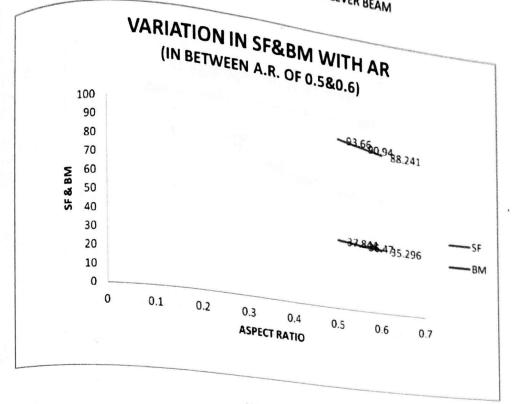


Fig.1.1

Observation

- In above graph, relation in between shear force and bending moment with aspect ratio In between 0.5&0.6 is observed.
- Optimum bending moment and maximum shear force is 36.47KN.m & 90.94 KN respectively.

Table 2

A.R.	SF	BM
0.3	18.369	18.396
0.4	16.178	16.178
0.5	14.986	14.986
0.6	14.119	14.119
0.7	13.577	13.577

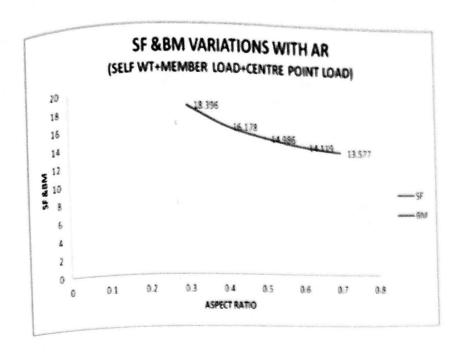


Fig.2

Observation

- In above graph, relation in between shear force and bending moment with aspect ratio is observed.
- Maximum bending moment and maximum shear force is 18.396KN.m & 18.396KN respectively.
- Relation in obtained in shear force and bending moment is ,Shear force =bending moment*1

To find out optimum shear force and bending moments, following Fig. 2.1 should be consider,

Table 2.1

AR	SF	BM
0.6	14.119	14.119
0.55	14.53	14.53

0.5	14.986		
0.5	14.986	14.986	

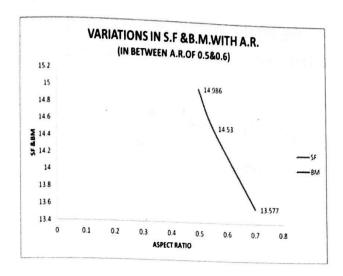


Fig.2.1

observation

- In above graph, relation in between shear force and bending moment with aspect ratio In between 0.5&0.6 is observed.
- Optimum bending moment and maximum shear force is14.53 KN.m & 14.53 KN respectively

Table 3

A.R.	SF	BM
0.3	24.557	30.121
0.4	22.178	28.178
0.5	20.986	26.98
0.6	20.119	26.119
	4 m	

0.7	19.577	25.517
	1	

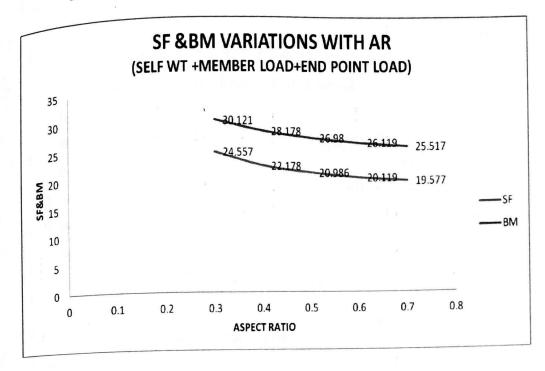


Fig.3

Observations

- In above graph, relation in between shear force and bending moment with aspect ratio is observed. Maximum bending moment and maximum shear force is 30.121 KN .m &24.577 KN respectively.
- Relation in obtained in shear force and bending moment is ,1.3*Shear force =bending moment

To find out optimum shear force and bending moments, following Fig.3.1 should be consider,

Table no 3.1

A.R.	S.F.	B.M.
0.5	20.986	26.98
0.55	20.55	30.424

0.6	20.119		
	-5.225	26.119	
		÷	

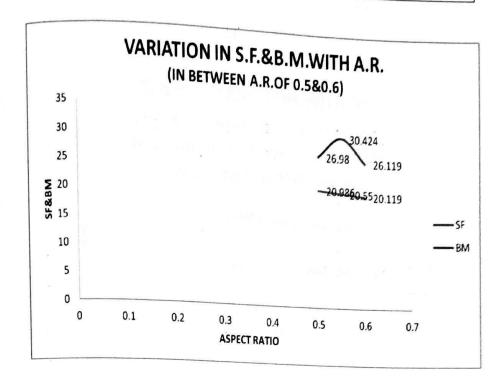


Fig.No 3.1

Observations

- In above graph, relation in between shear force and bending moment with aspect ratio In between 0.5&0.6 is observed.
- Optimum bending moment and maximum shear force is30.424 KN.m & 20.55KN respectively

Table no 4

A.R.	SF	BM
0.3	60.256	178.963
0.4	58.445	173.12
0.5	55.193	164.983

0.6	53.296	160.241
0.7	51.942	156.954

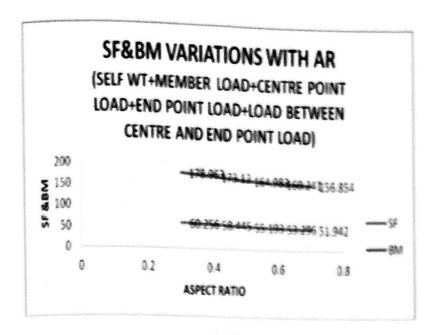


Fig.4

Observations

- In above graph, relation in between shear force and bending moment with aspect ratio is observed.
- Maximum bending moment and maximum shear force is 178.963 KN .m &60.256 KN respectively.
- Relation in obtained in shear force and bending moment is ,3*Shear force =bending moment

To find out optimum shear force and bending moments, following Fig.4.1 should be consider,

Table NO 4.1

A.R	S.F.	B.M

0.5	55.193	164.983
0.55	54.14	162.571
0.6	53.296	160.241

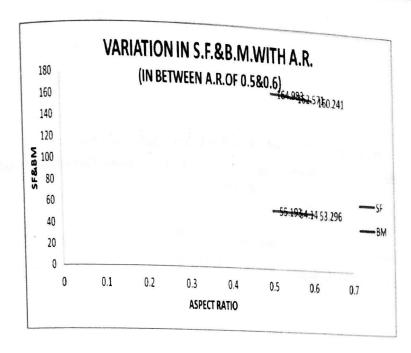


Fig. NO 4.1

Observations

- In above graph, relation in between shear force and bending moment with aspect ratio In between 0.5&0.6 is observed.
- Optimum bending moment and maximum shear force is162.571KN.m & 54.14KN respectively

Table NO. 5

A.R.	S.F	B.M.

0.3	24.236	30.196
0.4	22.178	28.178
0.5	20.986	26.986
0.6	20.119	26.119
0.7	19.577	25.577

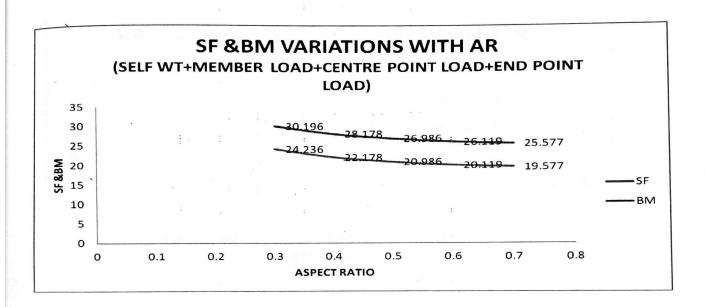


Fig.5

Observations

- In above graph, relation in between shear force and bending moment with aspect ratio is observed.
- Maximum bending moment and maximum shear force is 30.196 KN .m &24.236 KN respectively.
- Relation in obtained in shear force and bending moment is ,1.3*Shear force =bending moment

To find out optimum shear force and bending moments, following Fig.5.1 should be consider,

Table No 5.1

A.R.	S.F.	B.M.
0.5	20.986	26.986
0.55	20.55	26.55
0.6	20.119	26.119

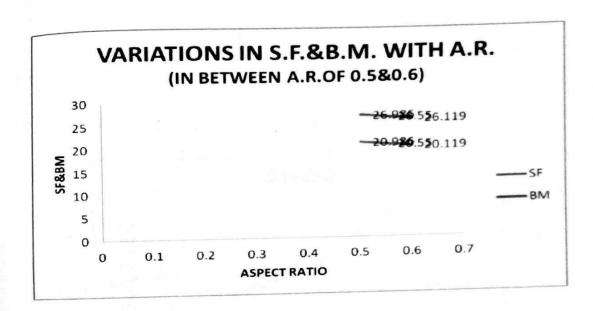


Table no 5.1

Observations

- In above graph, relation in between shear force and bending moment with aspect ratio In between 0.5&0.6 is observed.
- Optimum bending moment and maximum shear force is 26.55KN.m & 20.55KN respectively

Table.6

CU.M.	COST(Rs.)

0.83	3984	
0.65	3120	politica (C
0.52	2502	
0.43	2064	
0.37	1776	

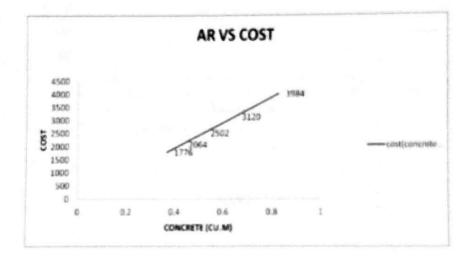


Fig.6

Observatios

- In above graph, relation in between concrete making in cu.m. and cost per cu.m. is defined.
- Maximum cost and minimum cost is as , 3984/-&1776/-respectively for 0.4 &0.83 cu. m. concrete.

To find out optimum cost of cantilever beam is shown in following Fig. 6.1

Table No 6.1

Quantity(cu .m)	Cost(Rs)	A.R.
0.52	2502	0.5
0.46	2210	0.55
0.43	2064	0.6

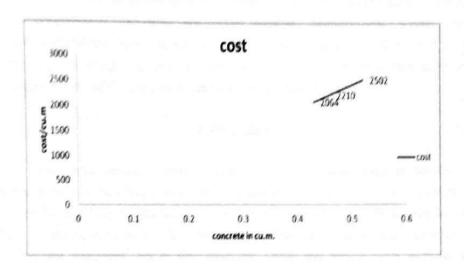


Fig.6.1

Observations

- In above graph, relation in between cu.m concrete and cost per cu.m of concrete.
- Optimum cost for our optimized beam is Rs.2210/-

4.2Beam laying system

Selection of a design space and an analysis method must be carefully determined since the analysis, both in terms of accuracy and efficiency, must be able to handle all possible designs in the chosen design space. That is, the larger the design space, the more sophisticated the analysis capability must be. For example, if larger shape design changes are expected during design optimization, mesh distortion in FEA could be a serious problem and a finite element model that can handle large shape design changes must be used.

A performance measure in a simulation-based design is the result of structural analysis. Based on the evaluation of analysis results, such engineering concerns as high stress, clearance, natural frequency, or mass can be identified as performance measures for design improvement. Typical examples of performance measures are mass, volume, displacement, stress, compliance, buckling, natural frequency, noise, fatigue life, and crashworthiness. A definition of performance measures permits the design engineer to specify the structural performance from which the sensitivity information can be computed. (Same as conventional beams.)

4.3Working

A cantilever beam with uniform cross section subjected to point load at the free end has maximum and minimum bending stresses at fixed and free respectively. The weight of the beam can be reduced by tailoring the thickness of the beam, where H, L and W are the height, length and width of the beam, respectively. It is necessary to find the cross-sectional dimensions of the state and objective variables. So in this analysis, width and height were defined as design variables which are independent variables and directly affect the solution of the problem. State variable is the first dependent variable, and so in this analysis maximum stress was defined as a state variable which acts as a constraint for the problem. Since the primary objective is to reduce volume without exceeding the allowable stress in the beam, volume was defined as an objective variable. This is the one variable in the optimization which needs to be minimized.

5.Merits and demerits

5.1.Merits

Best solution within domain of study.-

Here we design the optimum sized beam which differ from conventional beam but while design it is easy to understand because it link of method of construction similar to this beam.

To required less experiments to achieve optimum formulations.-

It is based on analytical method which based on STADD-Pro analysis method hence simple to understand.

Rectify problems remarkably easier manner-

It quite similar to conventional type beam ,hence problem obtained which easy to analysis.

Optimum safe design-

It carries maximum SF and BM under optimized size .hence it is very safe to design.

5.2.Demerits

More time consuming.-

It is analytical based hence it requires more time to understand the value of optimized size of beam.

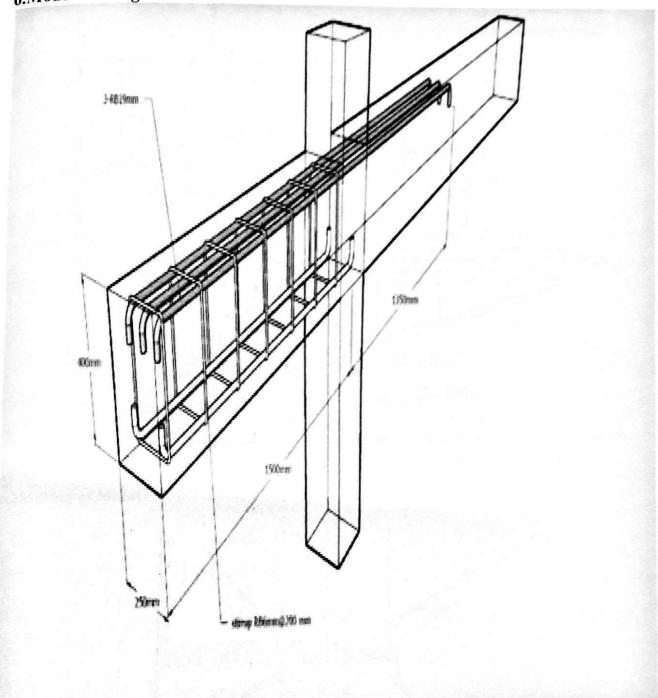
More repetitions is required.-

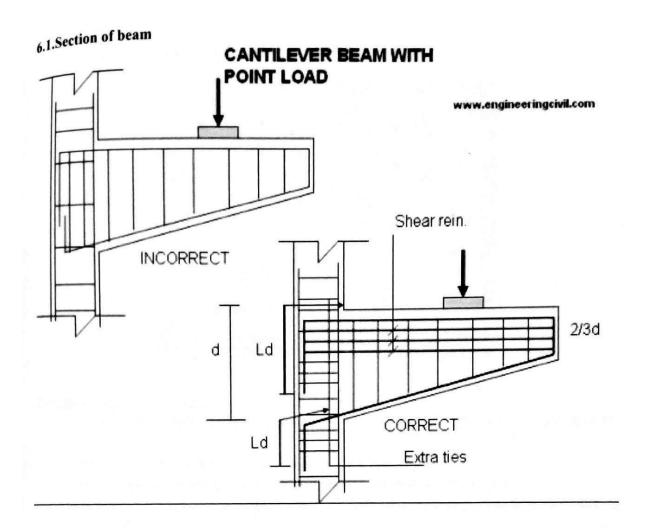
To find out maximum SF &BM more calculation is carried out and hence ore no. of readings are required to decide.

Expensive to use.-

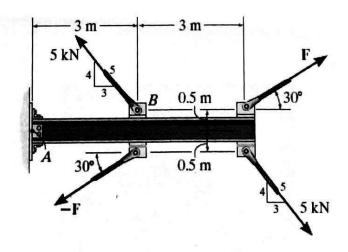
it is new techniques in India hence new to apply

6.Model making





6.2Making of Model



6.2.1 Joining of plywood planks



6.2.2Installation of systems

- 1. Simply supported a beam supported on the ends which are free to rotate and have no moment resistance.
- 2. Fixed a beam supported on both ends and restrained from rotation.
- 3. Over hanging a simple beam extending beyond its support on one end.
- 4. Double overhanging a simple beam with both ends extending beyond its supports on both ends.
- 5. Continuous a beam extending over more than two supports.
- 6. Cantilever a projecting beam fixed only at one end.
- 7. Trussed a beam strengthened by adding a cable or rod to form a truss.

6.3 finishing



conclusion

These methods were applied to a general problem, pertinent to a cantilever beam of rectangular cross-section and the results were analyzed Following table consider ,as a conclusions,

Št. No.	case	Load	Relation in SF & BM	M.F.for SF	M.F. for BM
1.	Self weight+ Member load	6	B.M.=2.5 *S.F	17.72	7.1
2.	Self weight+ Member load+ point load(mid)	6	B.M.=1.0*S.F.	2.79	2.59
3.	Self weight+ Member load+ point load(end)	6	B.M.=1.3 *S.F.	3.8	4.83
4.	Self weight+ Member load+ point load(mid)+point	18	B.M.=1.3 *S.F	1.25	1.59
5.	load(end) Self weight+ Member load+ pointload(mid)+ point load(end)+point load(between	24	B.M.=3.0*S.F.	2.45	7.25

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Appendices

SVERI's College of Engineering, Pandharpur Department of Civil Engineering Industrial Visit Record

A.Y.: 2018-19

SVERI's College of Engineering, Pandharpur Civil Engineering Department
Industrial Visit
Class: SE-(Civil) A.Y.: 2018-2019

To,

The Principal/Dean Students,

COE, Pandharpur

Subject: Permission for Industrial visit of SE CIVIL

Respected Sir,

As per curriculum laid down by Solapur University, Solapur for SE (CIVII part.I) , the subject of Building planning & costruction , Geology , Structural mechanics , fluid mechanics & concrete Tech. includes Industrial visits . In the Processing of same we have sent letter related to industrial spots. In view of this , we requested you to grant us the permission to arrange visit of SE CIVIL on 28/08/2018 To 30/08/2018.

Thanking you .

Yours sincerely,

(Dr. P.M. Pawar)

H.O.D(civil Dept.)

Subject Teacher H.O.D.C.

Subject Teacher H.O.D.C.C.

Subject Teacher H.O.C.C.

Subject Teacher H.

DATE		DETAIL	S OF JOUR	RNEY		SPOT OF VISIT	OBJECTIVE
	FROM	TIME	TO	TIME	Dist.		
28/08/ 2018	PANDHARPUR	12.00am	Aihole	6.00am	241 km	Ancient architectrual school	Architectural concept in building planning and construction.
•	Aihole	1.00pm	Hosapete	4.00pm	126km	Tungabhadra dam & Haft Hawl	Concept of structural mechanics & fluid mechanics. (Strength of material & Fluid mechanics)
29/08/ 2018	Hosapete	7.00am	Hampi	7.30am	13km	Hampi ancient village	Architectural concept in building planning and construction, Engineering geology & town planning.
	Hampi	6.00pm	Badami	9.00pm	140km	Kudalsangam & Halt	Architectural concept in building planning & design (Building conscruction & Drawing)
©08/ 2018	Badami	12.00p m	Pattakadal	12.30p m	22km	UNESCO'S World Heritage site. 10 major temples	Harmonius blend of architectural forms from northern & southern India. Culturl of 7 th century. (Building conscruction & Drawing)
		4.00pm	Pandharpur (vijapur)	10.00p m	250km		



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S

COLLEGE OF ENGINEERING, PANDHARPUR. Department of Civil Engineering

Academic Year 2018-19 SE-1

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/BODAKE SANJIVANI SAMBHAJI	9921422700	HOSTEL	200	38	KALE PRAMOD BIRUDEV	9503116388	HOSTEL	1
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(Prof. M. S. Survase) Class Coordinator

(Dr. P. M. Pavar) HOD Civil Engg

SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S



COLLEGE OF ENGINEERING, PANDHARPUR.

ISO 9001-2000 Certified Institute & Accredited by Institutes of Engineers, India, Gopalpur -Ranjani Road, Gopalpur, P.B. No. 54, Tal - Pandharpur- 413 304, Dist. Solapur (Maharashtra) Ph.: (02186) 225083, Fax: (02186) 225082. (NBA Accredited and NACC Accredited)

Approved by AICTE, New Delhi and affiliated to Solapur University, Solapur)
E-mail: coe@sveri.ac.in Website: www.sveri.ac.in

Date: 17/09/2018

To,
The Head Civil Engg.Dept
SVERI's COE Pandharpur.

HORAL

Subject: S.E. Civil Industrial visit report of academic year 2018-19 SEM-I.

Respected sir,

We have organized an industrial visit for the class S.E.Class From date. 28/8/2017 to 30/8/2017. Under this industrial visit we have made arrangement to give the practical expose to the students for the following points and ANNEXURE-I is attached with important photographs during visit,

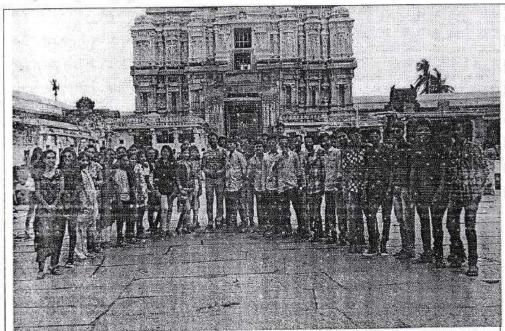
- 1) Humpy: We have visited old buildings and Temples constructed in stone masonry at Humpy in 15th century..
- 2) Tungabhadra Dam: We have visited Tungabhadra dam and students got practical approach of components of dam and Hydropower generation.
 - 3) Aihole: We have Aihole village where architecture school was there in 15th century and many temples and buildings were constructed in stone masonry.

Yours Sincerely

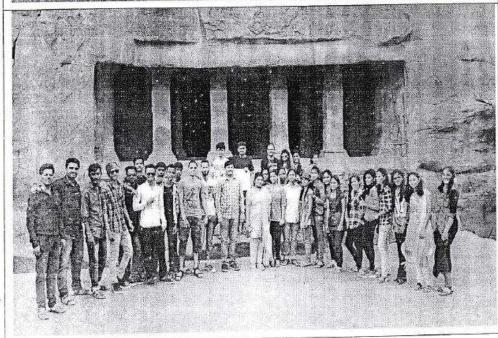
Mr. M. S. Survase Class Coordinator

ANNEXURE-I

Important photographs during industrial visit and description.



The photograph shows old buildings and Temples constructed in stone masonry at Humpy.



The photograph shows Badami caves constructed in big rock.

SVERI's College of Engineering, Pandharpur Civil Engineering Department	
Industrial Visit	
Class: TE-(Civil) A.Y.: 2018-2019	



Shri Vithal Education & Research Institute's

COLLEGE OF ENGINEERING, PANDHARPUR



P.B.No.54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413304, District: Solapur (Maharashtra)
Tel.: (02186) 216063, 9503103757, Toll Free No.: 1800-3000-4131 e-mail.: coe@sveri.ac.in
Website.: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)
NBA Accredited all eligible UG Programmes, NAAC Accreditated Institute, ISO 9001:2015 Certified Institute.
Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune.

Ref.-COEPR/CIVIL)2018-19) 1804

Date: 02/03/2019

To

Executive Engineer,

Bhatghar Hydro Power Station,

A/P Nare Colony, Tal:-Bhor

Dist:-Pune, 412206

Subject:-Permission to Visit Bhatghar Hydro Power Station.

Respected Sir,

As per curriculum of Solapur University, students of SE and TE civil class are interested to visit Bhatghar Hydro Power Station to study working system of Hydro Power Station.

So I kindly request you to permit us for this technical visit and spare one technical person to give information. List of students is attached herewith.

Your help in this regard is highly appreciated.

Thanking you in anticipation.

Date of visit:-14/03/2019

SE student:-69

TE student:-71

Total students:-140

No of faculty members:-08

Bhatthan MPS

Bhatthan MPS

And 14.03.2019

Augustund

(Dr. P M. Pawar)

HOD-Civil Engg.

MAHARASHTRA STATE POWER GENERATION CO. LTD.

Tele, no.: 020 - 25637610 020-25632717

Fax no.: 020 ~ 25630359 Email: segenpune@mahagenco.in Office of the Supdtg. Engineer Renewable Energy Circle, "Prakash Bhavan" Plot No.106, 5th floor , Senapati Bapat Road, Pune - 411 016.

Ref No.: SE / REC / MON/Pune/

Date: 7 MAR 2019

To:

The Head of the Department, Shri Vithal Education & Research Institute's, College of Engineering, Pandharpur - 413304

E-mail: crlimbkar@coe.sveri.ac.in

Sub: Grant of permission for industrial visit at Bhatghar Hydro Power Station.

Ref: Your office letter no.COEPR/Civil/2018-19/1804 dtd 02/03/2019.

Dear Sir/Madam. .

With reference to above, this is to inform that the permission is here by granted for Industrial visit of Mechanical Engineering students of your college on 14th Mar 2019.

Sr. No	No. of students + Staff members	Name of HPS	Date	Time 7.38
1	50 Students + 4 Staff'	Bhatghar	14 th Mar 2019	10:00 hrs to 12:00 hrs
7	50 Students + 4 Staff	Bhatghar	14 th Mar 2019	14:00 hrs to 16:00 hrs

Terms & conditions:

- 1. You can report to Shri.S.P.Inamdar. Additional Executive Engineer, contact no. 9420692015 during the period of visit.
- 2. Students shall abide by the rules & regulations of the company & observe discipline during visit.
- 3. They shall make their own arrangement for residential accommodation, transportation, lodging, boarding
- 4. They should contact our Security Officer prior to commencement of visit and obtain suitable gate pass for entry at 10:00 am.
- 5. At least one staff member must be present along with the students to take care of their safety & security within & outside the premises during visit,
- 6. The visit is allowed as per your request only & it will not create any right or obligation on the company.
- 7. Students should possess Identity Card during the visit. No loose clothes allowed.
- 3. They shall follow all safety rules and use own protective equipments like apron and safety shows as per factory rules. (Shoes are compulsory).
- 9. The visit should be in two groups, precaution shall be taken so that normal working in the plant is not hampered.
- 10. Mobile will not be allowed strictly. (To be kept on silent mode)

11. One day industrial visit fee is ₹ 100/- per student and shall be payable in the form of Demand Draft in favor of "Maharashtra State Power Generation Company Ltd., Payable at Pune", (18% GST extra) or through RTGS. The DD/ RTGS payment shall be remitted to this office before visits otherwise said permission stands cancelled.

Following are the Company's bank details for RTGS payment mode.

- Account Name: MSPGCL, PUNE
- 2. Account No.:- 04510200000320
- 3. IFSC code:-BARBOPOOSEN
- 4. Account type:-Current account
- 5. Branch Name: Bank of Baroda, SB Road Pune-411016

RTGS payment screenshot invariably malled on mail id:

"segenpune@mahagenco.in" and "ee monitoringpune@mahagenco.in"

Thanking you,

Yours faithfully.

Superintending Engineer, REC, Pune

Copy to:

LExecutive Engineer Bhatghar HPS, Dn. Mob. No. 8411968687 - For information.

2. The Addl. Executive Engineer, Bhatghar H.P.S. (Mob 9420773093):- Please confirm the payment is received or not, if not received visit should be cancelled.

3. F&A_REC.Pune



RE: Subject:-Permission to Visit Construction site at (Rohiniyard) Dive agar.

1 message

Nishant Khade <nishant.khade@dasoffshore.com>

Thu, Mar 7, 2019 at 4:39 PM

To: crlimkar@coe.sveri.ac.in

Cc: Datta Khade <dattakhade81@gmail.com>, "rajkumar.jagtap" <rajkumar.jagtap@dasoffshore.com>, Rohini DAS <rohiniyard.das@gmail.com>

Dear Mr. Limkar,

We appreciate your interest in visiting our Rohini yard,

We will be happy to have you at our yard on said dates.

As Rohini yard is in development stage, we won't be able to host you for any kind of refreshments.

Regards,

Nishant Khade

Director



DAS OFFSHORE ENGG. PVT. LTD.

ISO 9001:2015,BS-OHSAS-18001:2007, EMS 14001:2015,U&R Stamp Certified Company

'Sagar Uday 'Plot No F-3, Agroli Village

CBD Belapur, Navi Mumbai-400614

Tel: - 91-22-67606760

Fax:- 91-22-27570795

Email: info@dasoffshore.com

www.dasoffshore.com

Date: 06/03/2019

To.

The Principal/Dean Students,

SVERI's COE Pandharpur.

Subject: Permission for industrial visit of TE Civil.

Respected Sir,

As per curriculum laid down by Solapur university, solapur for TE Civil (Part II), the subject of Geotechnical Engg II, Advanced Concrete Technology, Structural Steel Design and Drawing includes visits. In the Processing of same we have sent letter related to Industrial spot. In view of this, We requested you to grant us the permission to arrange visit of TE Civil on 12/03/2019 to 14/03/2019.

Thanking You,

Yours Sincerely,

(Prof.C.R.Limkar) Class Cordinator (Prof./S.C.Bagal) Subject Teacher (Prof.M.G.Deshmukh) Subject Teacher

(Dr. P. M .Pawar) HOD Civil Engg.

(Prof. A.A. Sangave)

perital or poly



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S

COLLEGE OF ENGINEERING, PANDHARPUR. Department of Civil Engineering

Payment Towards Industrial Visit of TE-II (CIVIL) Students For The Academic Year 2018-2019. Visit date from 12-03-2019 to 14-03-2019. Students 55 X 566 = 31130.

II No.	NAME OF STUDENT	Amount	Sign.
1	/BHISE KIRAN KISAN	566	K.K.Bhise
2	/BHOSALE KAJAL BHARAT	566	Prosale.
3	/CHIKMANE ANKITA ANIL	566	ANO
4	/DAHIHANDE JYOTI GAURISHANKAR	566	ग्रें भं
5	/DESHMUKH SNEHA SHIVAJIRAO	566	MELESHIN
6	/DESHMUKH SUSHAMA MAHADEV	566	Destroy of
7	/DHUMAL HARSHADA PANDURANG	566	H POhumal
8	/KAMBLE ASHWINI ARVIND	566	Apolle
9	/KATE PRANITA ANAND	566	Parate.
10	/KUMBHAR ANJALI GANPAT	566	A-G. kumbha
11	/MASAL AISHWARYA NILKHANT	566	Noney.
12	/PAREKAR MRUNALI BIRUDEV	566	Mearols.
13	/PATIL RUTUJA NAGESH	566	Gratil.
14	/PAWALE SHRADDHA RAJENDRA	566	Shladberd
15	/PAWAR MRUNAL MADHUKAR	566	munal-
16	/POLAS POOJA PRUSHOTTAM	566	POLOSPF
17	/PUJARI PRIYANKA TUKARAM	566	Pagen PT
18	/RONGE POOJA BABRUVAHAN	566	mightine
19	/SHIKHARE SADHANA NAGNATH	566	Bulling
20	/WAGHMODE PRAJAKTA SOPAN	566	Frances
21	/ZENDE PRIYA BRAMHADEO	566	ZerdePD.
22	/JAGTAP PRAGATI MITU	566	Proges
23	/DONGARE SHUBHANGI KANHOBARAO	566	SKO
24	/ THORAT AISHWARYA A.	566	(M) humay
25	/SARTAPE PRANALI RAJENDRA	566	Janues
26	ATKALE AKASH SHASHIKANT	566	Althare
27	BABAR GANESH SHANKAR	566	topmeda
28	BANDGAR SHUBHAM SHIVAJI	566	32
29	BHARTI SHRINIVAS VISHNU	566	Bhash
30	Gadase Akash Sureshrao	566	x as
	Balance c/d	16980	

	Balance b/d	16980	700
31	GAIKWAD KAPIL VIJAY	566	Arikya
32	GAWADE AJAY SANTOSH	566	Marsh
33	Gore Krishna Devidas	566	Core
34	GURAV SANKET SHRIRANG	566	Saver
35	HONMANE SAGAR SIDDHESHWAR	566	SARS
36	JADHAV VAIBHAV DEVIDAS	566	(D) odhav
37	KADAM SHUBHAM SUNIL	566	Built
38	KADAM VIRAJ MARUTI	566	Viadan
39	KANGUDE YOGESH BALKRISHNA	566	SK
40	LONDHE AVINASH RAJENDRA	566	AND
41	MALI PRATHAMESH KRISHANA	566	Pomali
42	MULANI MOIN LATIF	566	Muni
43	NARSALE SUHAS JAYHIND	566	810
44	PAWAR SAURABH BABAN	566	Power-15
45	PUJARI HANAMANT SHRISHAIL	566	Hunt
46	SAWANT GAURAV VITTHAL	566	Grunt
47	SAWANT SHAILESH SHASHIKANT	566	fre to
48	SHAIKH SHOAIB SALIM	566	5. SEMMA
49	SHINDE GANESH MADAN	566	FAME
50	SOUDAGAR PRASAD SHIVAJI	566	the
51	THENGAL ABHUIT DATTATRAYA	566	Anerge
52	PUJARI PRAKASH RAJKUMAR	566	ALEASING
53	GADADE ABASAHEB DADASO	566	Bank
54	PATIL PRASAD MANIKRAO	566	Wart
55	KADAM SAGAR	566	- 4 Cogos
33	Total:-	31130	

(Rs. Thirty One Thousand One Hundred Thirty Only.)

Prof. C. R. Limkar Class Coordinator Dr. P.M.Pawar HOD Civil Dept.

Mr.R.G.Zarkar REGISTRAR Dr.B.P.Ronge PRINCIPAL

VISIT REPORT-TE Class

Place of visit- Jawaharlal Nehru Port Trust, Tal-Sheva, uran Dist- Thane.

Date of visit- 12th March, 2019

Visit In charge- Prof. Limkar C.R.

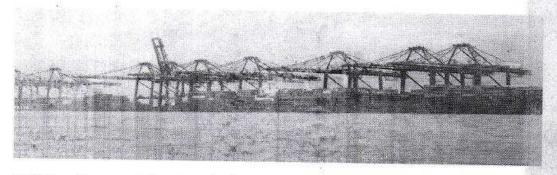
Staff member: - Prof. A.B.Kokare, Prof./S.J.Mohite, Prof.S.M.Patil, Prof.Saddam Pathan.

Prof. A A Sangave

Aim of visit- To understand working of port.

Salient feature of Jawaharlal Nehru Port Trust-

- 1. Commisoned on 26 may 1989.
- 2. Total land area acquire is 2584 hectares.
- 3. Here, It handles container, liquid bulk & cement ships.
- 4. It has three dedicated container terminal namely JNPCT, NSICT& GTIPL.
- 5. It has got four ISO certification as ISO 9001:2008, ISO 2700:2005, ISO 1400:2004,& OHSAS 18001:2007 CERTIFIED PORT.
- 6. Ranked 24 among top 100 container ports in the world,
- 7. Handles about 60% of total container handled by all major ports in India.
- 8. Handled 64.30 million tones of cargo including year 2010-11 & larger of handling 10 million tonnes container.



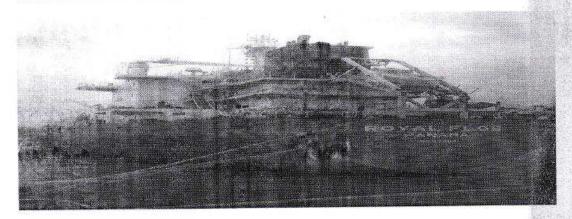
JNPT has three container terminals-

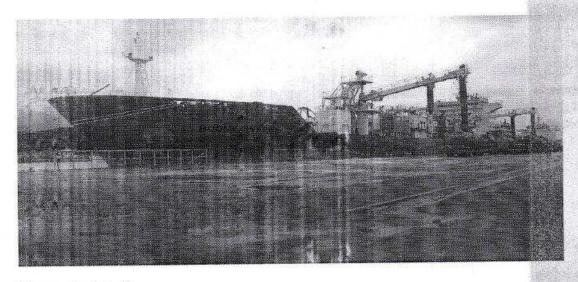
- 1. Jawaharlat Nehru port container terminal.
- 2. Nhava Sheva International container terminal.

3. Gateway Terminal India Pvt. Ltd.

JNPT announced of port handled 65-75 million tonnes of Total Cargo during financial year 2011-12 which is all time record.

Out of this, container cargo was 58.25 million tones liquid cargo is of 6.66 million tonnes with remaining 0.84 million tonnes made up of dry bulk and wet bulk JNPT is operating of more than 100% capacity and it remains largest among the major ports in INDIA in container handling with a market share of 55.63%.





Nhava -sheva port:

A brand new port has been established opposite the Elephanta Islands, Mumbai Maharashtra. It has risen from the sea by reclaiming about 132 hectares of land and it is supposed to relieve pressure on the old Bombay port and also to decongest the metropolis of heavy vechicular traffic.

JN PORT	: Existing Faci	lities	H	
CONTAINER TERMINAL	JNPCT	NSICT	APMT	TOTAL
QUAY LENGTH(Mtrs.)	680	600	712	1,992
DRAUGHT (Mtrs.)	12.5	12.5	12.5	
DESIGN CAPACITY IN MIL. TEUs (In Million Tonnes/Year)	1.1	1.2	1.8	4.1 (51.25)
REEFER POINTS (Nos.)	390	772	880	1,972
RMQCs (Nos.)	9	8	10	27
RTGCs (Nos.)	18	29	40	87
RMGCs (Nos)	5	3	3	11
Yard Area(Nos.)	71.4	25.84	54.57	151.81
JNP CFS & BUFFER YARD (in hectares)	25.42		77777777	25,42
LIQUID CARGO BERTH	(BPCL)		1	
QUAY LENG	300 Mtrs .	300 Mtrs . (Sea) /280 Mtrs. (Shore)		
DESIGN CAPAG	The second secon	5.5 Million Tonnes / Year		
	SHALLOW	DRAUGHT BER	TH	
. QUAY LENG	445 Mtrs.	445 Mtrs.		
DESIGN CAPAC	1.2 MILLIO	1.2 MILLION TONNES / YEAR		

It sure is a grand vision which, if implemented as per the proposed schedule, would change the face of JN Port and make it the definitive first-choice facility for the trade.

