

# Department

## Civil

### DEPARTMENT VISION

**“CREATING NEED BASED, TECHNICALLY COMPETENT AND SOCIALLY RESPONSIBLE CIVIL ENGINEERS.”**

### DEPARTMENT MISSION

- Equipping the students with necessary technical and intellectual capacity to cope up with the changing needs of the industry.
- Providing state of the art learning environment to produce a competent and skilled civil engineer.
- Provide accessibility to latest trends and modern equipment to face fast changing demand of industry and society.
- To inculcate ethical and leadership values in students which will transform them in to competent civil engineers?

**The Program Educational Objectives (PEOs) of Civil Engineering Department are given below**

**PEO-01** Provide conceptual and disciplined knowledge to solve broad based civil engineering problems.

**PEO-02** Address social, legal and cultural issues as a Civil engineer and provide sustainable and eco friendly solution for the same.

**PEO-03** Practice their profession with modern engineering tools and effective communication skills.

**PEO-04** Pursue their professional development through working effectively in team, continuous lifelong learning and adopting professional ethics.

## HIGHLIGHTS OF THE DEPARTMENT

S.NO.	NAME/TITLE OF PROJECT	FUNDING AGENCY	YEAR OF SANCTION	AMOUNT
1	MODERNIZATION OF SURVEY LAB (TOTAL STATION)	A I C T E, NEW DELHI	2012-13	Rs. 360000/-

### CURRICULUM: I TO VI SEM (I-scheme) : [www.msbt.org.in](http://www.msbt.org.in)

ProgrammeCode:..... I - Scheme Diploma Programme in Civil&RuralEngineering												
I – Semester												
Weigh ted mea n scor e	S. No. and (Rank No.)o f Report	Industry Question naire S.No.	Course Title	Teaching Scheme/Wee k			Credi ts (L+T +P)	Examination Scheme				Grand Total
				L	T	P		Theory		Practical		
								ESE	PA	ESE	PA	
3.12	G3(3)	37	English (Common to all)	3	-	2+	5	70	30 *	25	25	150
2.85	17 (9)	1	Basic Science (Common to all)	2	-	2	4	35	15 *	25	25	200
2.31	36(19 )	2	Chemistry	2	-	2	4	35	15 *	25	25	
2.96	12 (7)	3	Basic Mathematics (Common to all)	4	2	-	6	70	30 *	-	-	100
3.27	G1(1)	38	Fundamentals of ICT (Common to all)	2#	-	2	4	-	-	25	25~ 1	50
2.85 2.50	19(9) 31(16)	6 9	Engineering Graphics Mech. Gp.(AE, ME, PT, FG, EE, CE, CH, PS, DC, TC, TX)	2#	-	4	6	-	-	50	50~ 2	100
2.92	15 (8)	8	Workshop Practice Mech. Gp.(AE, ME, PT, FG, EE, CE, CH, PS)	-	-	4	4	-	-	50	50~ 2	100
Total				15	2	16	33	210	90	200	200	700

(#):No theory Exam; (\*): Under the theory PA, Out of 30 marks, 10 marks are for micro-project assessment (5 marks each for Physics and Chemistry) to facilitate integration of COs and the remaining 20 marks is the average of 2 tests to be taken during the semester for the assessment of the cognitive domain LOs required for the attainment of the COs; (+): Language Lab Practical (~):For the courses having ONLY practical examination, the PA has two parts – marks, for~<sup>1</sup> (i) practical part - 15 marks(60%) (ii) micro-project part - 10 marks (40%) and for~<sup>2</sup> (i) practical part - 30 marks (60%) (ii) micro-project part - 20 marks (40%).

#### Legends

**L:**Lecture      **T:**Tutorial      **P:** Practical **ESE:** End Semester Exam **PA:** ProgressiveAssessment

**Note:** Blue highlights are courses common to all programmes and yellow highlights are courses common with

ProgrammeCode:..... I - Scheme Diploma Programme in Civil&RuralEngineering													
II – Semester													
Weigh ted mean score	S. No. and (Rank No.)of Report	Industry Questionn aire S.No.	Course Title		Teaching Scheme/Week			Credit s (L+T +P)	Examination Scheme				
					L	T	P		Theory		Practical		Grand Total
									ESE	PA	ESE	PA	
2.96	11(7)	4	Applied Mathematics (Civil)		3	1!	-	4	70	30*	-	-	100
2.85	17 (9)	1	Annlied Science	Physics	2	-	-	-	35	15*	-	-	-
2.85	17 (9)	2		Chemistry	2	-	2	6	35	15*	25	25	150
			Mech Gp.(AE, ME, PT, FG, CE)										
3.23	4(3)	5	Applied Mechanics Mech Gp.(CE, CH, AE, ME, PT, FG)		3	2	2	7	70	30*	25	25	150
3.23	3(3)	10											
3.15	7(4)	13	Construction Materials		3	-	2	5	70	30*	25	25	150
3.08	8(5)	11	Basic Surveying		3	-	4	7	70	30*	50@	50	200
3.35 2.62	1(1) 27(14)	8 28	Civil Engg Workshop and Practice		-	-	4	4	-	-	50	50~2	100
3.12	G3(3)	37	Business Communication Using Computers (Common to all)		2\$	-	-	2	35\$	15	-	-	50
Total					18	3	14	35	385	165	175	175	900

ProgrammeCode:..... I - Scheme Diploma Programme in Civil&RuralEngineering												
III – Semester												
Weigh ted mean Score	S. No. and(Ran k No.) of Report	Industry Questionn aire S.No.	Course Title	Teaching Scheme/Week			Cred its (L+T +P)	Examination Scheme				
				L	T	P		Theory		Practical		Grand Total
								ESE	PA	ESE	PA	
3.08	8(5)	11	Advanced Surveying	4	-	4	8	70	30*	50	50	200
2.92	13(8)	25	Highway Engineering	3	-	2	5	70	30*	25	25	150
2.62	28(14)	16	Mechanics of Structures	3	2	2	7	70	30*	25	25	150
3.35	1(3)	12	Building Construction	3	-	2	5	70	30*	25	25	150
3.15	6(4)	22	Concrete Technology	3	-	2	5	70	30*	25	25	150
3.35	1(1)	8	Computer Aided Drawing	-	-	4	4	-	-	50	50~2	100
Total				16	2	16	34	350	150	200	200	900

ProgrammeCode:..... I-Scheme Diploma Programme in Civil & Rural Engineering

IV – Semester												
Weigh ted mean score	S. No. and (Rank No.)of Report	Industr y Questio naire S.No.	Course Title	Teaching Scheme/Week			Credi ts (L+T +P)	Examination Scheme				
				L	T	P		Theory		Practical		Grand Total
								ESE	PA	ESE	PA	
2.38	35(18)	17	Hydraulics	3	2	2	7	70	30*	25	25	150
2.62	28(14)	16	Theory of Structures	4	2	-	6	70	30*	-	-	100
2.50	32(16)	15	Railway and Bridge Engineering	4	-	-	4	70	30*	-	-	100
2.58	30(15)	20	Geo-technical Engineering	3	-	2	5	70	30*	25	25	150
3.27 3.04	2(2) 10(6)	7 14	Building Planning and Drawing	3	-	4	7	70	30*	50	50	200
2.15	9(9)	40	Entrepreneurship Development (Common to all)	2\$	-	2	4	50\$	-	25	25~1	100
Total				19	4	10	33	400	150	125	125	800

**Note**

- a) During Summer Break after **IV semester** (i.e. between IV and V Semester), Polytechnics would ensure mandatory placement of students for 6 weeks industrial training. Preferably, the industry where students would be placed should be large or medium scale ,however if such industries are not available ,then students can also be placed in small or very small industries but it should be relevant to the branch or discipline of engineering. **This training would be evaluated during Vsemester.**
- b) The allotment of the group of students and orientation for industrial training shall be done before the end of IVsemester.
- c) Students should prepare report of training, which will be evaluated during Vsemester.

ProgrammeCode:.....				I-Scheme		Diploma Programme in Civil & Rural Engineering						
V – Semester												
Weigh ted mean score	S. No. and (Rank No.)of Report	Industry Questionn aire S.No.	Course Title	Teaching Scheme/Week			Credi ts (L+T +P)	Examination Scheme				
				L	T	P		Theory		Practical		Grand Total
								ESE	PA	ESE	PA	
MSBTE guidelines and industry feedback			Industrial Training (during summer break after IV semester)	-	-	6^	6^	-	-	75	75	150
2.46	34(17)	19	Water Resource Engineering	4	-	2	6	70	30*	25	25	150
2.65 2.69	26(13), 22(12)	23 27	Design of Steel and RCC Structures	4	1	2	7	70	30*	25	25	150
3.23	5(3)	21	Estimating, Costing and Valuation	3	-	4	7	70	30*	50	50	200
			Elective –I	3	-	2	5	70	30*	25	25	150
2.46 2.85	33(17) 18(9)	18 36	Environment and Public Health Engineering	4	-	2	6	70	30*	25	25	150

MSBTE guidelines	Minor Project (Common to all)	-	-	4	4	-	-	50	50	100
<b>Total</b>		<b>18</b>	<b>1</b>	<b>22</b>	<b>41^</b>	<b>350</b>	<b>150</b>	<b>275</b>	<b>275</b>	<b>1050</b>

**Note**

- a) Evaluation of industrial training and its reports is to be done during this semester. Credits of Industrial Training will not affect the framing of the timetable.
- b) Students have to choose any one elective group in V semester **as stream specific specialisation**, and have to take first course of that group as elective- I in V semester. They would be required to take another two courses of the same group/stream in VI semester as elective - II and elective - III. Their major and minor projects should also have emphasis preferably on the same stream of specialisation.

Weighted mean score	S. No. and (Rank No.) of Report	Industry Questionnaire S. No.	Elective I - Group Name and Specialization
			<b>Group A – Construction Technology</b>
2.69	23(12)	30	Rural Development
			<b>Group B – Environmental Engineering</b>
2.46, 2.85	33(17), 18(9)	36	Water and Waste Water Management
			<b>Group C – Transportation Engineering</b>
2.50	32(16)	15	Traffic Engineering
			<b>Group D – Structural Engineering</b>
2.58	29(15)	31	Advanced Structural Engineering

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VI – Semester												
Weight e dmean score	S.No.and (Rank No.)of Report	Industry Question naireS.No.	Course Title	Teaching Scheme/Week			Credi t s  (L+T +P)	Examination Scheme				
				L	T	P		Theory		Practical		Grand Total
								ESE	PA	ESE	PA	
2.73	21(11)	24	Construction Management	3	-	-	3	70	30 *	-	-	100
3.04	9(6)	26	Contracts and Accounts	3	-	2	5	70	30 *	25	25	150
			Maintenance and Restoration of Structures	3	-	2	5	70	30 *	-	-	100
			Elective – II	3	-	2	5	70	30 *	25	25	150
			Elective – III	3	-	2	5	70	30 *	25	25	150
3.12	G3(3)	37	Technical Writing (Common to all)	-	-	2	2	-	-	25	25	50
Industry need and MSBTE guidelines			Major Project (Common to all)	-	-	6	6	-	-	75	75	150
Total				15	-	16	31	350	150	175	175	850

### Note

- a) The **Technical Writing** course is introduced as practical work, in which English faculty members would facilitate the framing of correct language for writing different chapters and presentation (i.e.PPT. and others) of their project work from English point of view. Name of English teacher has to be included as a 'Language Editor' in the project and this activity will be the part of practical shown against Technical Writing course at VI semester. This work shall be carried out for each batch(size same as for practical)
- b) Students who have chosen the **stream specific specialisation** in elective – I in V semester, should choose the same stream/group courses in elective – II and elective – III in VI semester. Their **major project** should also have emphasis preferably on the same group/stream which could further sharpen their skills in that area.

Weighted mean score	S. No. and (Rank No.) of Report	Industry Questionnaire S. No.	Group Name and Specialization
<b>Group A – Construction Technology</b>			
2.85	16(9)	32	<b>Elective II</b> - Advanced Construction Technology
2.69	24(12)	33	<b>Elective III</b> - Building Services
<b>Group B – Environmental Engineering</b>			
2.65	25(13)	34	<b>Elective II</b> - Solid Waste Management
2.92	14(8)	29	<b>Elective III</b> - Environment and Energy Conservation
<b>Group C – Transportation Engineering</b>			
2.69	23(12)	30	<b>Elective II</b> – Pavement Design
2.92 2.69	13(1), 23(12)	25, 30	<b>Elective III</b> - Transportation Planning
<b>Group D – Structural Engineering</b>			
2.69	24(12)	33	<b>Elective II</b> - Analysis of Structure and Earthquake Engineering
2.77	20(10)	35	<b>Elective III</b> - Precast and Pre-stressed Concrete

## I – Scheme Summary of Teaching Scheme/Week,

### Credits and Examination Scheme Civil & Rural Engineering

Semester	Teaching Scheme/Week			Credits  (L+T+P)	Examination Scheme				
	L	T	P		Theory		Practical		Grand Total
					ESE	PA	ESE	PA	
I	15	2	16	33	210	90	200	200	700
II	19	2	14	35	385	165	175	175	900
III	16	2	16	34	350	150	200	200	900
IV	19	4	10	33	400	150	125	125	800
V	18	1	22	41	350	150	275	275	1050
VI	15	-	16	31	350	150	225	225	950

<b>Grand Total</b>	<b>102</b>	<b>11</b>	<b>94</b>	<b>207</b>	2045	855	1200	1200	5300
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(^): This includes total 6 credits for Industrial Training conducted during Summer Break between IV and V semester.

## ACTIVITIES

### Details of Extra-curricular (NSS) (2018-19)

Sr.No.	Activity	Sponsored By	Date
1	Blood Donation Camp	A.S.Polytechnic Wardha AGENCY –KASTURBA HOSPITAL SEWAGRAM	27 JULY -2018
2	National Youth Day	A.S.Polytechnic Wardha	12-JANUARY -2018
3	Pani Foundation Work	A.S.Polytechnic Wardha	MAY -2018

### Details of Extra-curricular (2018-19)

Sr.No.	Activity	Sponsored By	Date
1	Engg. Day Celebration	A.S.Polytechnic Wardha	15 September - 2018
2	Teachers Day Celebration	A.S.Polytechnic Wardha	5 September -2018
3	Cultural Program	A.S.Polytechnic Wardha	7-8 January -2019
4	I.E.D.S.S.A	M.S.B.T.E.	January -2019
5	CM-Chashak	CM-Fund	December -2018
6	Shiksha Mandal Sport	Shiksha Mandal Waardha	January -2019

### Details of Extra-curricular (NSS) (2017-18)

Sr.No.	Activity	Sponsored By	Date
1	Blood Donation Camp	A.S.Polytechnic Wardha AGENCY –CIVIL HOSPITAL WARDHA	10 March -2018
2	Women's Day Celebration	A.S.Polytechnic Wardha	8-March -2018
3	Pani Foundation Work	A.S.Polytechnic Wardha	10-May -2018

### Details of Extra-curricular (2017-18)

Sr.No.	Activity	Sponsored By	Date
1	Engg. Day Celebration	A.S.Polytechnic Wardha	15 September - 2018
2	Teachers Day Celebration	A.S.Polytechnic Wardha	5 September -2018
3	Cultural Program	A.S.Polytechnic Wardha	5-6 January -2018

4	I.E.D.S.S.A	M.S.B.T.E.	
6	Shiksha Mandal Sport	Shiksha Mandal Waardha	

#### Details of Extra-curricular (2016-17)

Sr.No.	Activity	Sponsored By	Date
1	Blood Donation Camp&	A.S.Polytechnic Wardha AGENCY –CIVIL HOSPITAL WARDHA	14 January-2017
2	Rubella Vaccination Camp & Awareness Guest Lecturer By Dr.Bhende	A.S.Polytechnic Wardha. AGENCY –ROTARY CLUB GANDHI CITY WARDHA	14 January-2017 & 7 January-2017
3	Engg. Day Celebration	A.S.Polytechnic Wardha	15 September - 2018
4	Teachers Day Celebration	A.S.Polytechnic Wardha	5 September -2018
5	I.E.D.S.S.A	M.S.B.T.E.	
6	Shiksha Mandal Sport	SHIKSHA MANDAL WAARDHA	
7	Azadi '70'	A.S.Polytechnic Wardha	9-23 AUGUST - 2016

#### ACADEMIC ACHIEVEMENTS OF THE STUDENTS

SESSION	NAME OF THE STUDENT	RANK IN AT COLLEGE LEVEL
2015-16	MR. ANAND SUNIL TIWARI	88.7 %( TOPPER)
2016-17	MISS. NIDHI ANIL REKHI	91.64%(TOPPER)
2017-18	MR. KUNAL PRAMOD MOHARKAR	89.88%(TOPPER)

#### INTERCOLLEGIATE SEMINAR COMPETITIONS

SR NO.	Name of Students	Event	Competition	Institute	Rank
1.	Sahil G.Waigokar Sanket A.Hingankar	Paper Presentation	State Level Paper Presentation	Govt. College of Polytechnic, Brahmapuri	1 <sup>st</sup>
		Paper Presentation	Personality Development	Sipna College of Engineering,	3 <sup>rd</sup>



			Club	Amravati	
		Paper Presentation	Tech-Ace	Agnihotri college of Engineering, Wardha	Participant
		Paper Presentation	Wheel Spin 2K19	Bapurao Deshmukh college of Engineering, Sewagram	1 <sup>st</sup>
		Project Competition	Technofest 2K19	Tulsiramji Gaikwad college of Engineering, Nagpur	1 <sup>st</sup>
		Paper Presentation	Axis 19	Visvesvaraya National Institute of Technology, Nagpur	1 <sup>st</sup>
2.	Sanket A.Hingankar Anish A.Sahare	Paper Competition	Vidyotan 2K19	Sipna College of Engineering, Amravati	2 <sup>nd</sup>
3.	Sanket A.Hingankar	Paper Presentation	Connect 2K19	Bapurao Deshmukh college of Engineering, Sewagram	Participant
		Tender Filling	Connect 2K19	Bapurao Deshmukh college of Engineering, Sewagram	1 <sup>st</sup>
		Paper Presentation	Prajwalan 2K19	Government College of Engineering, Amravati.	Participant
		Project Competition	Technothon	Anantrao Pawar College of Engineering, Pune	Participant
		Paper Presentation	Blitzkrieg	Datta Meghe College of Engineering, Savangi(M).	1 <sup>st</sup>
4.	Anish A.Sahare	Innovative Ideas	M.I.A. Hackaton	Mayor Innovative Council	Participant
		Cadstriff	Prajwalan 2K19	Government College of Engineering,	Participant

				Amravati.	
		Project Competition	Prajwalan 2K19	Government College of Engineering, Amravati.	Participant
5.	Anish A.Sahare Shreyas R.Dobekar	Paper Presentation	Connect 2K19	Bapurao Deshmukh college of Engineering, Sewagram	Participant
6.	Anish A.Sahare Shreyas R.Dobekar Saurav Bhende	Project Compitation	Connect 2K19	Bapurao Deshmukh college of Engineering, Sewagram	Participant
7	Shreyas R.Dobekar	Paper Presentation	Tech-Ace	Agnihotri college of Engineering, Wardha	Participant
8.	Saurav D.Bhende	Cricket	Connect 2K19	Bapurao Deshmukh college of Engineering, Sewagram	1 <sup>st</sup>
		Tender Filling	Connect 2K19	Bapurao Deshmukh college of Engineering, Sewagram	Participant
		Poster Competition	Connect 2K19	Bapurao Deshmukh college of Engineering, Sewagram	Participant
		Project Competition	Connect 2K19	Bapurao Deshmukh college of Engineering, Sewagram.	Participant
9.	Saurav D.Bhende Madhav Wakhare	Paper Competition	Connect 2K19	Bapurao Deshmukh college of Engineering, Sewagram.	1 <sup>st</sup>
10.	Priyanka Gadge	Mix Design		Shri Ramdeobaba College of Engineering, Nagpur	2 <sup>nd</sup>



11.	Vaishnav A.Deshmukh	Lan Gaming	Prajwalan 2K19	Government College of Engineering, Amravati.	2nd
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SR NO.	Name of Students	Event	Competition	Institute	Rank
1	Mustafa Mohd.	Vidyotan	National Level	SIPNA	Winner (EPYTOME)
2	Akshay Thombre	Vidyotan	National Level	SIPNA	Winner (EPYTOME)
3	Tousif Pathan	Vidyotan	National Level	SIPNA	Winner (EPYTOME)
4	Gaurav Pawankar	Wheel Spin	National Level	BDCOE	Winner (Drafricx)
5	Akshay Thombre	Wheel Spin	National Level	BDCOE	Runner Up (Drafricx)
6	BhavikaChavhan (Fifth Semester)	SD Techfest	State Level	Govt. Polytechnic, Khamgaon	Participation
7	Sejal Chivhane(Fifth Semester)	SD Techfest	State Level	Govt. Polytechnic, Khamgaon	Participation
8	Sanket Hingankar	Prajwalns	National Level	Govt. Engg. College Amravati	Participation
9	Anish Sahare	Prajwalns	National Level	Govt. Engg. College Amravati	Participation
10	Smish Dahake	Prajwalns	National Level	Govt. Engg. College Amravati	Participation
11	Akash Mude	Prajwalns	National Level	Govt. Engg. College Amravati	Participation
12	Sanket Hingankar	Vidyotan	National Level	SIPNA	Participation
13	Anish Sahare	Vidyotan	National Level	SIPNA	Participation
14	Smish Dahake	Vidyotan	National Level	SIPNA	Participation
15	Akash Mude	Vidyotan	National Level	SIPNA	Participation

16	Rajat Bakshi	Prajwalns	National Level	Govt. Engg. College Amravati	Participation
17	Sachin Nakade	Prajwalns	National Level	Govt. Engg. College Amravati	Participation
18	Mustafa Mohd.	Prajwalns	National Level	Govt. Engg. College Amravati	Participation
19	Akshay Thombre	Prajwalns	National Level	Govt. Engg. College Amravati	Participation
20	Gaurav Pawankar	Prajwalns	National Level	Govt. Engg. College Amravati	Participation
21	Sagar Bawne	Setubandhan	National Level	DMIT&R	Participation
22	Mustafa Mohd.	Setubandhan	National Level	DMIT&R	Participation
23	Akshay Thombre	Setubandhan	National Level	DMIT&R	Participation
24	Siddhi Wagh	Quiz	State Level	ASP	Participation
25	Abhijit Dhakre	Quiz	State Level	ASP	Participation
26	Gaurav Gayki	Wheel Spin	National Level	BDCOE	Participation

## TEACHING STAFF:

SR.N O.	NAME OF FACULTY	QUALIFICA TION	DESIGNA TION	DATE OF JOINING	SPECIALIZATI ON	AREA OF INTEREST / RESERCH	PHOTO
1	MR. HEMANT S. CHEPEY	M.TECH	H.O.D. (CIVIL)/ OFFICIATI NG PRINCIPA L	18 / 08 / 1986	STRUCTURAL ENGG.	STRUCTURA L DESIGN	
2.	MR. AMARES H A. SHIRVAL KAR	M.TECH	LECTURE R	24 / 08 / 1987	HYDRAULICS	WATER RESOURCES / SURVEYING	
3	DR. PRAVIN B. WAGHM ARE	Ph. D.	LECTURE R	5/7/200 5	STRUCTURAL DYNAMICS	STRUCTURA L DYNAMICS	
4	MR. ATUL M. RAGHAT ATE	M.E.	LECTURE R	1 /10 / 2010	ENVIRONME NTAL ENGG.	ENVIRONME NTAL ENGG.	
5	MR. NIRAJ D. BARAIYA	B.E.	LECTURE R	14/01/2 011	TRANSPORT ATION ENGG.	HIGHWAY ENGG.	

6	MRS. SANGITA P.LAJUR KAR	M.TECH	LECTURE R	03/03/2014	GEOTECHNICAL ENGG.	EXPANSIVE SOIL	
7	MRS. SNEHAL G.KORDE	M.E.	LECTURE R	03/03/2014	STRUCTURAL ENGG.	STRUCTURAL DESIGN	

### NON TEACHING STAFF

S.NO.	NAME	DESIGNATION	EXPERIENCE	AREA OF INTEREST
1	MR. R.D.ATRAM	LAB ASTT.	23 YEARS	Brick kiln/wood work / Construction supervision
2	MR. S.M.THAKARE	LAB ASTT.	23 YEARS	Irrigation
3	MR. R.B. CHAUDHARY	PEON	28 YEARS	Gardening
4	MR. M.S. BHUTE	PEON	23 YEARS	Irrigation / Civil contractor