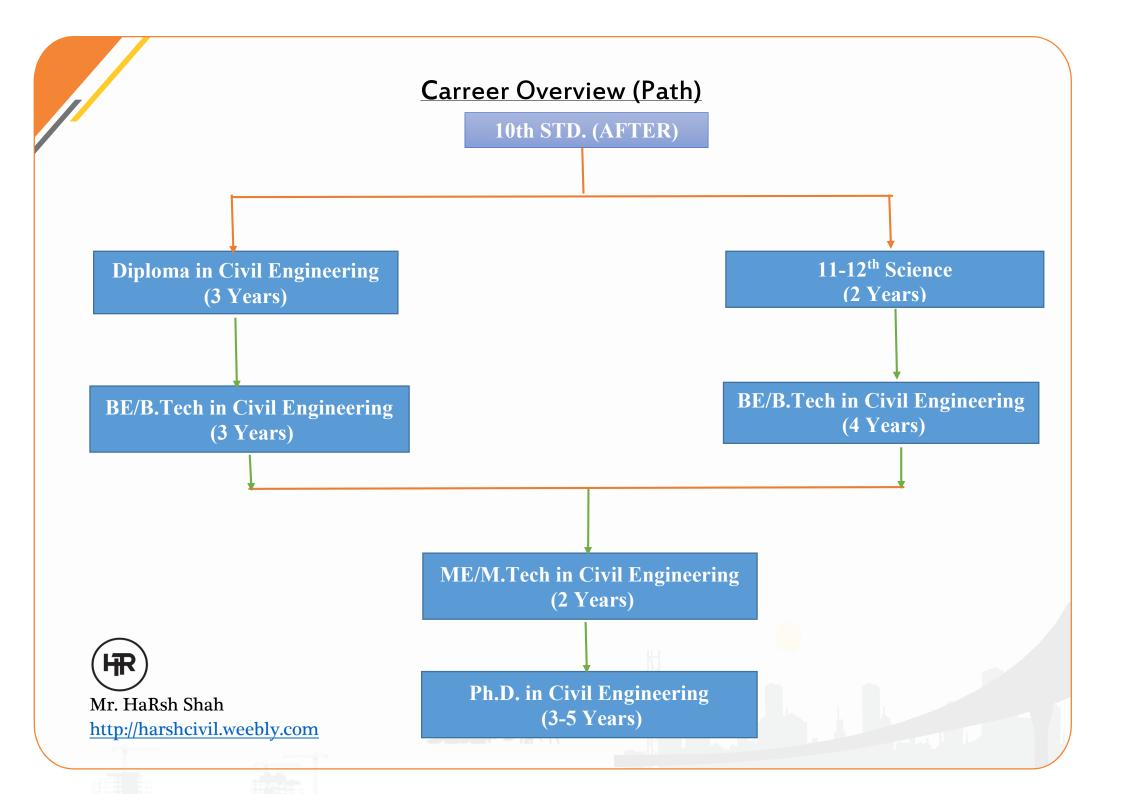
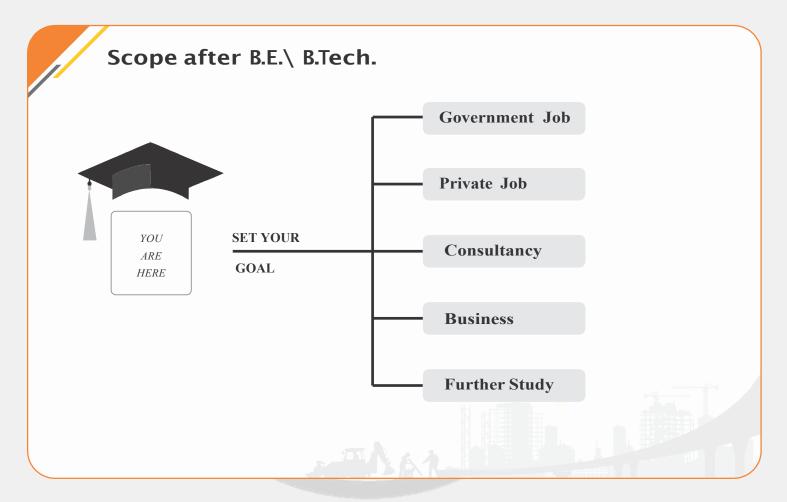
# Civil Engineering CAREER







# Central Government & PSU Jobs

- 1 IOCL (Indian Oil Corp. Ltd.)
- 2 BPCL (Bharat Petroleum Corp. Ltd.)
- **3** HPCL (Hindustan Petroleum Corp. Ltd.)
- 4 NTPC (National Thermal Power Corp. Ltd.)
- 5 NHAI (National Highways Authority of India)
- 6 NBCC (National Buildings Const. Corp. Ltd.)
- 7 NPCC (National Projects Const. Corp. Ltd.)
- 8 NLC (Neyveli Lignite Corporation)
- 9 OPGC (Odisha Power Generation Corporation)
- **10** PSPCL (Punjab State Power Corp. Ltd.)

- 11 THDC (Tehri Hydro Development Corp. Ltd.)
- 12 PGCIL (Power Grid Corporation of India Ltd.)
- 13 CEL (Central Electronics Ltd.)
- 14 ISRO (Indian Space Research Organization)
- 15 SAIL (Steel Authority of India Ltd.)
- 16 RRB (Railway Recruitment Control Board)
- 17 ONGC (Oil and Natural Gas Corporation Ltd.)
- **18** AAI (Airport Authority of India)
- 19 IRCON (Indian Railway Construction Company Ltd.)



# **Selection Procedure for PSU**

Sr.	Company	Where to apply	Eligibility	Exam Pattern
1	IOCL	www.iocl.com	B.E./B.Tech. (Civil)	
2	BPCL	www.bharatpetroleum.com	with minimum 60%	<ul> <li>Short listing on the basis of GATE score</li> <li>Group discussion / task</li> <li>Personal interview</li> </ul>
3	HPCL	www.hindustanpetroleum.com	aggregate marks	
4	NTPC	www.ntpc.co.in	B.E./B.Tech. (Civil) with minimum 65% aggregate marks	
5	NHAI	www.nhai.org		
6	NBCC	www.nbccindia.gov.in		• Short listing on the basis of GATE score
7	NPCC	www.npcc.gov.in	B.E./B.Tech. (Civil) with minimum 60%	
8	NLC	www.nlcindia.com	aggregate marks	
9	OPGC	www.opgc.co.in		
10	PSPCL	www.pspcl.in		
11	THDC	www.thdc.gov.in	B.E./B.Tech. or	• Personal interview
12	PGCIL	www.powergridindia.com	M.E./M.Tech. (Civil)	
13	CEL	www.celindia.co.in	with minimum 65% aggregate marks	
				Next Page

# **Selection Procedure for PSUs**

Sr.	Company	Where to apply	Eligibility	Exam Pattern
14	ISRO	www.isro.gov.in	B.E./B.Tech. (Civil)	
15	SAIL	www.sailcareers.com	with minimum 60%	• Written test
16	RRB	www.rrcb.gov.in	aggregate marks	
17	ONGC	www.ongcindia.com	B.E./B.Tech. (Civil)	<ul> <li>GATE score : 60% Marks</li> <li>Interview : 15% Marks</li> <li>Qualification : 25% Marks</li> </ul>
18	AAI	www.aai.areo	B.E./B.Tech. (Civil)	<ul> <li>Written test</li> <li>Personal Interview</li> <li>Voice test to be conducted at the time of interview.</li> </ul>
19	IRCON	www.ircon.org	B.E./B.Tech. (Civil) with minimum 60% aggregate marks	<ul> <li>Short listing on the basis of GATE score</li> <li>Written test</li> <li>Personal interview</li> </ul>

# State Government & Local Authority Jobs

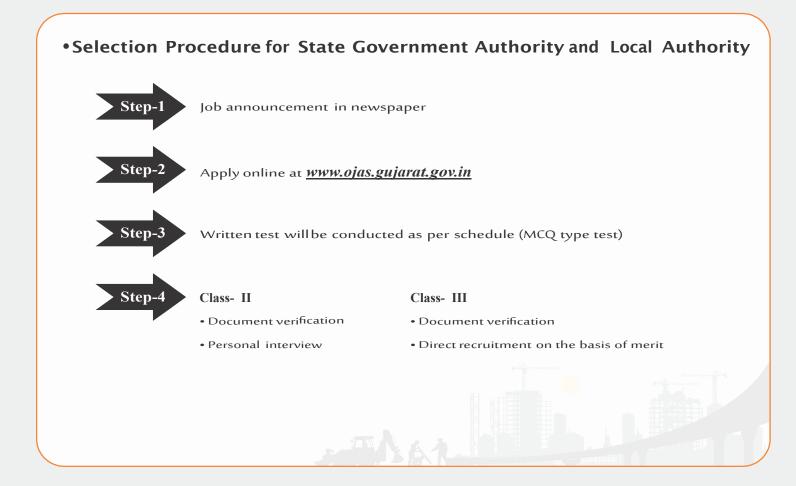
### **State Government Authority**

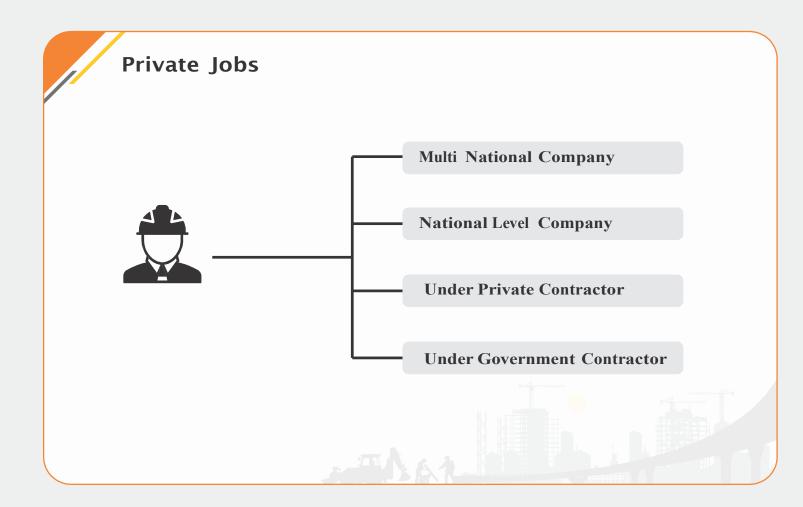
- 1 R&B (Roads and Buildings Dept.)
- 2 NJSKP (Narmada Jal Sampati & Kalpsar)
- 3 SSNNL (Sardar Sarovar Narmada Nigam Ltd.)
- 4 GWSSB (Guj. Water Supply & Sewage Board)
- 5 GGL (Gujarat Gas Ltd.)
- 6 GHB (Gujarat Housing Board)
- 7 GSPHC (Gujarat State Police Housing Corp.)
- 8 GSPL (Gujarat State Petronet Ltd.)
- 9 GERI (Gujarat Engineering Research Institute)
- 10 GPCB (Gujarat Pollution Control Board)

## Local Authority

- 1 Municipal Corporation (RMC, AMC, SMC, VMC, BMC, JMC, GMC, etc.)
- 2 Urban Development Authority (RUDA, AUDA, VUDA, SUDA, etc.)
- 3 District Development Office
- 4 Nagar Palika at Taluka level

- 11 GWRDC (Gujarat Water Resources Development Corp.)
- 12 GSLDC (Gujarat State Land Development Corp. Ltd.)
- 13 GIDC (Gujarat Industrial Development Corp.)
- 14 GSFC (Gujarat State Fertilizers & Chemicals Ltd.)
- 15 GMDC (Gujarat Mineral Development Corp.)
- 16 GEMI (Gujarat Environment Management Institute)
- 17 WALMI (Water And Land Management Institute)
- 18 WASMO (Water And Sanitation Management Org.)
- 19 GETCO (Gujarat Energy Transmission Corporation)
- 20 GNFC (Gujarat Narmada Valley Fertilizers & Chemicals)





## • Multi National Company

(1) TATA Consultancy Services (2) Shapoorji Pallonji (3) Linde (4) L & T and 100+ companies

#### **Selection Procedure**

Screening based on CPI/CGPA I Written test Group discussion Personal interview

## National Level Company

(1) Sadbhav Infra (2) Backbone Infra (3) Bakeri Group (4) NCC and 1000+ companies

#### **Selection Procedure**

Written test 🗭 Group discussion 🗭 Personal interview

## Under Private Contractor

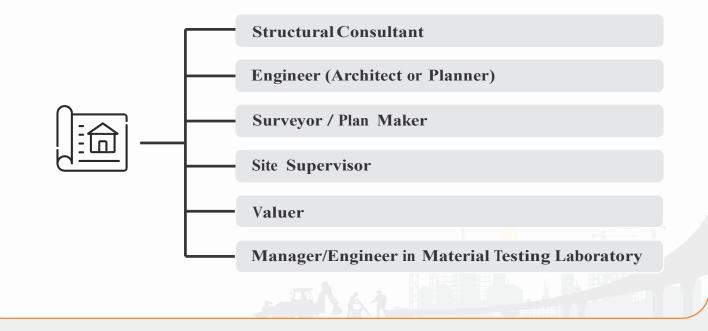
If you want to start your own private business then you should do job for atleast 2 to 3 years under private contractor. 5000+private contractors are working in Gujarat.

## • Under Government Contractor

If you want to start your own government contract business then you should do job for atleast 2 to 3 years under government contractor. 1000+Government contractors are working in Gujarat.

# Consultay

Consulting Civil engineer provides expert advice on the design, planning and management of construction projects. It is the field for an engineer who enjoys the challenges of dynamic problems. Civil Engineer can work as a,



## Structural Consultant

A) Qualification and Experience

Qualification	Experience
<b>B.E./B.Tech</b> . (Civil Engineering)	At least <b>5-years experience</b> under certified Structural Engineer in Structural Design Work
M.E./M.Tech. (Structural Engineering)	At least <b>2-years experience</b> under certified Structural Engineer in Structural Design Work
Ph.D. (Structural Engineering)	At least <b>1-year experience</b> in Structural Design Work

- B) Scope of Work
  - To prepare & submit structural details for
  - All types of Buildings (Residential, Commercial, Industrial, etc.)
  - Special structures (Bridge, Transmission Tower, Cooling Tower, etc.)
- C) Registration
  - Register as Structural Engineer in Corporation or Municipal Corporation (RMC, AMC, SMC, VMC, etc.)
- D) Source of work
  - Architect & Builder / Owner of building

## • Engineer (Architect or Planner)

A) Qualification and Experience

Qualification	Experience	
B.E./B.Tech. (Civil Engineering)	At least <b>2-years experience</b> under certified architect or engineer after completion of B.E. (Civil)	
<b>Diploma</b> (Civil Engineering)	At least <b>5-years experience</b> under certified architect or engineer after completion of D.E. (Civil)	

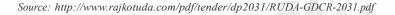
- B) Scope of Work & Competence
  - Preparation & planning of all types of layouts & submission drawings & to submit certificate of supervision & completion for all types of buildings.
  - Supervision & execution of construction work as per specifications & drawings prepared by authorized registered structural designer.
  - Preparation of the structural details and calculations for buildings of load bearing structures.
- C) Registration
  - Register as Engineer in Corporation or Municipal Corporation (RMC, AMC, SMC, VMC, etc.)
- D) Source of work
  - Builder / Owner of building

Source: http://www.rajkotuda.com/pdf/tender/dp2031/RUDA-GDCR-2031.pdf

## • Surveyor/Plan Maker

- A) Qualification
  - **B.E./B.Tech.** (Civil Engineering)
  - **Diploma** (Civil Engineering or Architecture)
- B) Scope of Work & Competence
  - Preparation of plans and layouts and execution of low rise buildings
- C) Registration
  - Register as Surveyor/Plan Maker in Corporation or Municipal Corporation (i.e. RMC, AMC, SMC, VMC)
- D) Source of work
  - Government tenders, Owner, Architect, Valuer or Builder







## • Site Supervisor

#### A) Qualification and Experience

Qualification	Experience
B.E./B.Tech. (Civil Engineering)	At least <b>1-year experience</b> in professional work
<b>Diploma</b> (Civil Engineering)	At least <b>3-years experience</b> in professional work

#### B) Scope of Work & Competence

• Execution of structures (high rise buildings, public buildings, buildings with basement etc.)

#### C) Registration

Register as Site Supervisor in Corporation or Municipal Corporation (RMC, AMC, SMC, VMC, etc.)

#### D) Source of work

• Contractor, Project Management Consultancy or Owner

Source: http://www.rajkotuda.com/pdf/tender/dp2031/RUDA-GDCR-2031.pdf

## • Valuer

• Valuers can work under the following area,

<sup>o</sup> Real Estate <sup>o</sup> Building Construction <sup>o</sup> Town Planning <sup>o</sup> Land Development

#### A) Qualification and Experience

Qualification	Experience
<b>B.E./B.Tech.</b> (Civil Engineering, Architecture or Town Planning)	<b>10-years experience</b> in Building Construction, Town Planning etc.
M.E./ M.Tech in valuation	2-years experience

Source: http://www.incometaxindia.gov.in/Rules/WealthTax%20Rules,%201957/2010/1031200000006826.html

#### B) Categories of Valuers

<sup>o</sup> Empanelment of valuers **by the Bank** shall be in the following categories:

Category	Work Experience	Valuation limit
А	Min 10 years + already empanelled with at least $2 \text{ PSRs}^*$	No limit
В	Between 5 to 10 years + already empanelled with at least $1 PSB^*$	Up to Rs. 50 crore
С	Up to 5 years	Up to Rs. 5 crore
Source: https://	* Public Sector Banks	

## Government Approved Material Testing Laboratory

#### • Scope of the work

To carry out civilengineering materials testing as per I.S. methods and to prepare the test results with recommendation and remarks.

#### Approval required

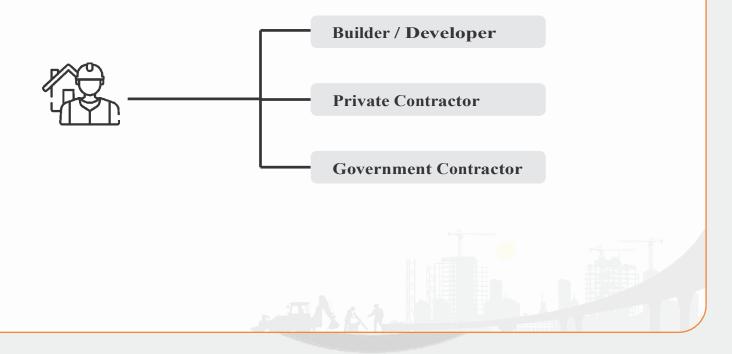
• NABL (NATIONAL ACCREDITATION BOARD FOR TESTING AND CALIBRATION LABORATORIES) *Source: http://www.nabl-india.org/nabl/index.php?c=publicaccredationdoc&m=index&docType=both* 

#### R & B (ROADS AND BUILDING DEPARTMENT) Source: http://rnbgujarat.org/document/material-testing-lab-gr-7-8-15.pdf



# **Business**

Civil Engineer design, build, supervise, operate and maintain construction projects and systems in the public and private sectors. Civil engineer can work as a,



### • Builder / Developer

Deals with development of,

- Residential society
- Low & high rise builiding
- Township

#### Private Contractor

- Labour contractor
- Labour + Material contractor
- Repair & Rehabilitation of distorted structures

## • Government Contractor (Licences complines should be fulfilled)

- Labour + Material contractor
- Irrigation work
- Road work
- Bridge work
- Repair and Rehabilitation of old government structures etc.

## • Government Contract Licence Category

	Category of Registration	Minimum Solvency	Narmada F.D.R. Bond	Monetary limit for tendering of works	Registration / upgradation fees	Type and number of technically qualified engineers
	Class-AA	J 300 Lacs	J 30 Lacs	unlimited	J 33,000	3 - B.E. (Civil) 5 - Diploma (Civil)
	Class-A	J 75 Lacs	J 7.5 Lacs	upto J700Lacs	J 18,000	2 - B.E. (Civil) 5 - Diploma (Civil)
	Class-B	J 35 Lacs	J 3.5 Lacs	upto J300Lacs	J 13,000	2 - B.E. (Civil) 3 - Diploma (Civil)
0r	Class-C	J 25 Lacs	J 2.5 Lacs	upto J150Lacs	J 7,500	1 - B.E. (Civil) 3 - Diploma (Civil)
vil) can apply fo	Class-D	J 12 Lacs	J 1.2 Lacs	upto J100Lacs	J 7,500	2 - Diploma (Civil)
B.E. (Civil) can directly apply for	Class-E1	J 2 Lacs	J 0.2 Lacs	upto J50Lacs	J 4,500	1 - B.E. (Civil)
	Class-E2	J 1 Lacs	J 0.1 Lacs	upto J15Lacs	J 4,500	1 - Diploma (Civil) 1 - B.E. (Civil)

## • Special Categories under which Contractor can work

Category of Registration	<b>Special Category-I</b> Roads, Bridges & Buildings	<b>Special Category-II</b> Roads, Bridges & Buildings	<b>Special Category-III</b> Roads & Buildings
Minimum Solvency	J 300 Lacs	J 75 Lacs	J 35 Lacs
Narmada F.D.R Bond	J 30 Lacs	J 7.5 Lacs	J 3.5 Lacs
Monetary limit for tendering of works	Unlimited	upto J700Lacs	upto J300Lacs
Registration / upgradation fees	J 35,000	J 18,000	J 15,000
Renewal Fees for three years	J 18,000	J 7,500/-	J7,500/-
Type and number of technically qualified engineers	3 - B.E. (Civil) 5 - Diploma (Civil)	2 - B.E. (Civil) 5 - Diploma (Civil)	2 - B.E. (Civil) 3 - Diploma (Civil)

# **Further Study**

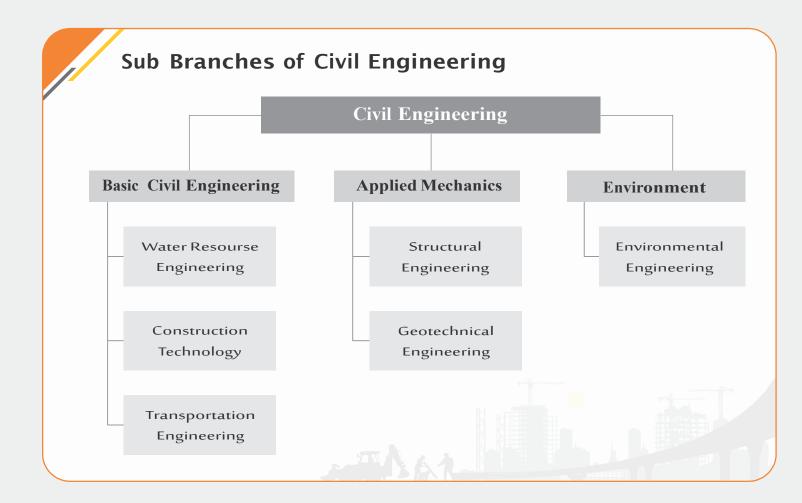
## • M.E./ M.Tech.

- Admission through GATE / PGCET
- Following are the specialization of civil engineering :

Sr.	Branches	Best Colleges
1	Structural Engineering	SVNIT, BVM, CEPT
2	CASAD (Computer Aided Structural Analysis & Design)	Nirma University , DDU
3	Geotechnical Engineering	MSU, DDU, SVNIT
4	Infrastructure Engineering & Technology	IITRAM, ADANI
5	Construction Engineering & Management	CEPT, BVM
6	Transportation Engineering	svnit, msu, ld
7	Environmental Engineering	SVNIT, MSU, BVM
8	Water Resources Engineering	MSU, SVNIT
9	Valuation	ISTAR, Khayati Inst. of Valuation

#### • BA

• Admission through GMAT / CAT



# **Career Scope**

#### Water Resource Engg.

- ✓ Site supervision
- ✓ Work as a contractor
- ✓ Engineer in consulting firm
- ✓ Private consultant
- ✓ Government job

#### **Construction Tech.**

- ✓ Site supervision
- ✓ Register as a planner (Architect)
- ✓ Work as a contractor
- ✓ Start material testing lab
- ✓ Work as a valuer
- ✓ Government job

#### **Transportation Engg.**

- ✓ Site supervision
- ✓ Engineer in consulting firm
- ✓ Work as a contractor
- ✓ Start material testing lab
- ✓ Government job

#### Structural Engg.

- ✓ Site supervision Registered
- ✓ as a structural Engineer in corporations Engineer in
- ✓ consulting firm
- ✓ Government job

#### Geotechnical Engg.

- ✓ Start soil testing lab
- ✓ Engineer in consulting firm
- ✓ Government job

#### **Environmental Engg.**

- ✓ Start environment testing lab
- ✓ Engineer in consulting firm
- ✓ Government job

# **INFORMATION ABOUT US**

- Special Website for Civil Engineering : <u>http://harshcivil.weebly.com</u>
- ✓ Government Exam Paper with Answer Key
- ✓ GATE Exam Paper
- ✓ Basic Civil Knowlage Books
- ✓ IS Code
- ✓ Job's Update's
- ✓ Online Magazine
- ✓ E-Books of All Civil Subject
- ✓ Interview Questions
- ✓ Civil Software List
- ✓ Online Mode (MCQ, Aptitude, GATE, Interview, Subject wise MCQ, GK etc..)
- FREE Registration in our Database (Civil Engineer Organization) for Jobs, Interview, others useful information. (For Registration Visit our website)



# HR TEAM

- Name : Mr. HaRsh Shah (BE in Civil Engineering)
- Website : <u>http://harshcivil.weebly.com</u>
- E-mail : civilengineering.harsh@gmail.com