



Civil Engineering

Vision: “To impart quality technical education beneficial to industry and the society in the field of Civil Engineering.”.

- **Mission:** ● To arrange academic and technical expertise.
 - To improve the practical knowledge of the student as per current scenario of industry.
 - To make the students socially and ethically responsible.

Assignment No :- 01

Date :-

Topic Name :- Fundamentals of Execution of PWD works

- 1.State the methods used for carrying out work in PWD.**
 - 2. Draw organizational structure of PWD.**
 - 3.State four functions of Executive Engineer.**
 - 4.Write any four functions each of Chief Engineer and Superintending Engineer.**
 - 5. Explain the procedure of initiating the government work by PWD.**
 - 6. Explain piece-work method and day-work method..**
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Date of Submission :- one after completion of unit

Assign By :- Mr. Shashikant Hegonde



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Assignment No :- 02

Date :-

Topic Name :- Contracts: Types and Clauses

01.List any four types of contract.

02.Define contract.

03.State four conditions under which contract is terminated.

04.Explain four requirements of valid contract.

05.List classes of contractor on basis of financial limits in PWD.

06.Differentiate between item rate contract and lump sum contract

07. Define BOT project. Write four objectives of BOT.

08. List any eight documents required for the registration as a contractor

09. List objectives of the contract

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Assignment No :- 03

Date :-

Topic Name :- Tender and Arbitration

- 01 Define tender and enlist the types and necessity of tender.**
- 02 Write eight points to be included while drafting a tender notice.**
- 03 Draft a tender notice for construction of workshop building of a new polytechnic.**
- 04. Draft a tender notice for construction of multi speciality hospital in a city.**
- 05 Draft a Tender Notice for inviting applications for construction of Hostel for Boys.**
- 06 Draft a tender notice for construction of staff quarters for government employees.**
- 07 State four conditions where lowest tender is rejected.**
- 08 Explain the procedure of submitting filled tender document.**
- 09 List four tender documents.**
- 10 Explain the terms – EMD, Security Deposit, Global Tender, Corrigendum to tender notice.**
- 11 Define arbitrator and state four qualities of good arbitrator.**

12 Explain Arbitration. Explain the role of Arbitrator in settlement of disputes.

13 Define arbitration. State two qualities of arbitrator

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Assignment No :- 04

Date :- :

Topic Name :- Measurements and Accounts

- 01 State the importance of measurement book.**
- 02 Explain bills and voucher.**
- 03 Differentiate between advance payment and secured advance payment.**
- 04 Define NMR.**
- 05 Draw standard form of measurement book.**
- 06 Draw standard form of nominal muster roll.**
- 07 Explain petty advance and mobilization advance.**
- 08 Enlist the various forms used in PWD with their uses.**
- 09 Explain the importance of NMR (Nominal Muster Roll).**
- 10 Explain the terms –**
 - i) Advance Payment**
 - ii) Secured Advance**
 - iii) Temporary Advance**
 - iv) Measurement Book**
- 11 State one use of Measurement Book, Indent and Invoice.**
- 12 Describe procedure of issuing materials through indent.**

13 Enlist the modes of making payment to contractor and explain any one.

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Assignment No :- 05

Date :-

Topic Name: Specifications

1. List the four points to be considered while framing specification of item.
2. Describe the points to be observed in drafting the specification of an item.
3. Define specification. State types of specification.
4. Enlist the different types of specifications and explain manufacturer's specification.
5. Enlist the types of specifications and explain the brief specification with respect to definition, purpose and legal aspect.
6. Differentiate between brief specification and detailed specification.
7. Draft a detailed specification for external plastering in cement mortar (1:4) with 20 mm thickness on a new brick wall.
8. Draft a detailed specification for RCC slab in cement concrete 1:1:2.
9. Draft detailed specification for RCC slab for M25 grade.
10. Draft detailed specifications for first class brick work.

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