

**CE 3000 (Integrated Design Project)**

**“DESIGN OF AN EIGHT STORIED RCC RESIDENTIAL  
BUILDING”**

**Submitted by**

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Student Name-2  
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**BACHELOR OF SCIENCE IN CIVIL ENGINEERING**



Department of Civil Engineering  
Bangladesh Army University of Engineering and Technology (BAUET)  
Qadirabad Cantonment, Natore-6431, Bangladesh.

Month, Year (month and year of IDP defence)

ML

**CE 3000 (Integrated Design Project)**

**“DESIGN OF AN EIGHT STORIED RCC RESIDENTIAL  
BUILDING”**

This IDP paper is submitted to the Department of Civil Engineering of Bangladesh Army University of Engineering & Technology (BAUET), in partial fulfillment of the requirements for the degree of Bachelor of Science in Civil Engineering.

**Submitted by**

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Month, Year  
(month and year of IDP defence)

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## STUDENT'S DECLARATION

I/We hereby declare that this IDP is my/our original work and it has been written by us entirely. To the best of my/our knowledge and belief, the IDP contains no materials previously published or written by another person, or have been accepted for the award of any other degree or diploma at any other educational institution or at Bangladesh Army University of Engineering and Technology (BAUET), except where due reference is cited. Furthermore, the IDP complies with ACADEMIC INTEGRITY regulation of the Department of Civil Engineering, BAUET.

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## **SUPERVISOR'S APPROVAL**

This is to certify that the IDP titled "**DESIGN OF AN EIGHT STORIED RCC RESIDENTIAL BUILDING**" have carried out by Student-1 (Full ID), Student-2 (Full ID) and Student-3 (Full ID) under my supervision and that they have fulfilled the requirements for the degree of Bachelor of Science in Civil Engineering on Month, Year.

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## ACKNOWLEDGEMENT

### Sample -01:

First and foremost, the authors would like to express their gratitude to the Supreme Being, without whose blessings this project/thesis would not have been possible. The authors express their sincere appreciation and deepest gratitude to their respected supervisor *SUPERVISOR'S NAME*, Designation, Department of Civil Engineering, Bangladesh Army University of Engineering & Technology (BAUET), for his guidance, constant encouragement, expertise and assistance throughout the course of this project/thesis.

The authors especially acknowledge the sacrifice of their parents that has enabled them to attain this level. The authors convey thanks to their friends for co-operation throughout the work at Bangladesh Army University of Engineering & Technology (BAUET). The authors also extend their heartfelt appreciation to each and every individual who has contributed to the completion of this project/thesis.

Finally, the authors like to express their gratitude to the Department of Civil Engineering, BAUET, Natore-6431, Bangladesh, for providing us with the necessary resources and facilities to undertake this research.

**(Contents of writing can be changed.)**

## EXECUTIVE SUMMARY

[Executive summary paragraphs should be unintended. Executive summary are limited to 500 words. Executive summary text must fit on a single page. Keywords may also appear on the same page. Your choice of paragraph style for text on this page]

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*YB*

## LIST OF TABLES

Table 3.1: Properties of Soils Used in this Investigation for both piles.

3

*ML*

## **LIST OF ABBREVIATION**

**ASTM: American Society for Testing and Materials**

**SSD: Saturated Surface Dry**

**RCA: Recycled Coarse Aggregates**

## LIST OF SYMBOLS

$P(t)$ : Depth of precipitation of time

$P$ : Total depth of precipitation

$\Delta\tau$ : Time based

$H$ : Height of triangle

$I$ : Rainfall Intensity

%: Percentage

*JKL*

## CHAPTER 1: INTRODUCTION

Purpose and Objectives of the project should be summarized here.

### 1.1 OBJECTIVES

The main objectives are listed below:



## CHAPTER 2: EOI (EXPRESSION OF INTEREST)

### 2.1 HEADING 1

PPR 2008 format should be added from internet.

#### 2.1.1 Heading 2

The closer view of fly ash particles has been shown in figure 2.1.

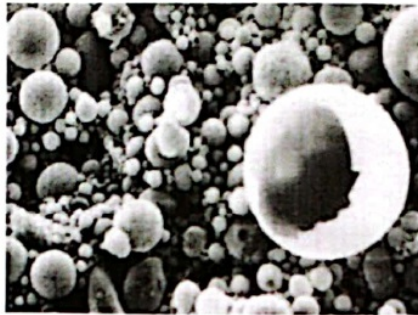


Figure 2.1: mma

#### 2.1.2 Heading 2

Figure 2.2: MMA

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## CHAPTER 3: SURVEYING

### 3.1 SITE LOCATION

This chapter contains the details of ...

Mouza map
JL no.
Plot no.
Kha no.
Pro-kha
Holding no.
Thana
District
Division

### 3.2 RECONNAISSANCE SURVEY

### 3.3 MOUZA MAP

### 3.4 SURVEY REPORT

#### 3.4.1 Heading 2

The soft silty clay was modelled with the parameters as shown in Table 3.1.

Table 3.1: Properties of Soils Used in this Investigation for both piles.




## CHAPTER 4: SUB-SOIL INVESTIGATION

In this section, you have to attach proper soil report.

*Handwritten signature*

## **CHAPTER 5: EIA (ENVIRONMENTAL IMPACT ASSESSMENT)**

### **5.1 HEADING 1**

Follow ECR – 2023.

#### **5.1.1 Heading 2**

## **CHAPTER 6: DRAWING**

### **6.1 ARCHITECTURAL DRAWING**

This section should contain proper architectural drawing of your project.

### **6.2 STRUCTURAL DRAWING**

This section should contain proper structural drawing of your project.

### **6.3 PLUMBING**

### **6.4 ELECTRICAL LAYOUT PLAN**

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## **CHAPTER 7: BOQ (BILL OF QUANTITIES)**

Should follow PWD rate schedule.

### **7.1 CIVIL WORK**

### **7.2 PLUMBING AND ELECTRICAL WORK**

# CHAPTER 8: TENDER DOCUMENT

## 8.1 TENDER NOTICE

Sample: 01



*Knowledge & Technology*  
**Bangladesh Army University of Engineering & Technology (BAUET)**  
**Department of Civil Engineering (CE)**  
**Qadirabad, Natore-6431**

Project Office

### INVITATION FOR TENDER

Bangladesh Army University of Engineering and Technology (BAUET) - Qadirabad Cantonment invites qualified firms to undertake construction upto 5 storey of an 11-storied academic building Qadirabad Doyarampur, Natore :

01.	Name of procuring Entity	:	Bangladesh Army University of Engineering and Technology (BAUET), Qadirabad, Natore
02.	Tender reference number & date	:	010/PC/Aca-1/1/2018 Date : 04/03/2018
03.	Source of Fund	:	BAUET own fund.
04.	Project name	:	Construction upto 5 storey of an 11-storied academic building-1 for BAUET, at Comilla airport area, Comilla
05.	Brief description of the works	:	i) Development works of the plot as per instruction of BAUET Authority. ii) Construction upto 5 storey of an 11-storied academic building-1 for BAUET, Qadirabad, Natore
06.	Eligibility of Bidders	:	i) Bidder must have minimum Five (Five) years' experience of building construction works in Government / Semi-Government / Autonomous / Private Organizations in Bangladesh. ii) Bidder must submit satisfactory completion certificate at least 2 multi storied buildings with the value at least Tk. 20 (Twenty) Cr each under Government / Semi-Government / Autonomous / Private Organization in Bangladesh within last five years. iii) Bidder must submit construction turnover which shall be greater than Tk 40 (Forty) Cr over the last 3 years. iv) Bidder must submit the minimum amount of liquid assets or working capital or credit facilities of the tenderer which shall be Tk 5 (Five) Cr. v) Bidder must have qualified Engineers related to the same works and ABC license for electrical works. vi) Bidders are to submit with the quotation recently renewed valid Trade License, valid Vat registration, up to date income tax clearance certificate and bank solvency certificate duly attached by 1 <sup>st</sup> Class Gazetted Officer.

07.	Completion of Works	:	24 (Twenty Four) months from the date of contract.
08.	Price of Invitation Tenders document	:	5,000.00 (Five Thousand) nonrefundable in the form of pay order/DD in favour of BAUET from any scheduled Bank of Bangladesh.
09.	Earnest money	:	Tk 15,00,000.00 (Fifteen Lac) by Pay order/ DD/ BG in favour of BAUET from any scheduled Bank of Bangladesh and to be submitted with the tender document.
10.	Name & address of place for selling of tender document	:	Project Office, BAUET, Qadirabad, Natore Last Date: 26/03/18 up to 4.00 pm
11.	Last Date, time & place for receiving of tender document	:	Project Office, BAUET, Qadirabad, Natore Last Date: 28/03/18 up to 1.00 pm.
12.	Date, time place of opening of Tender.	:	Project Office, BAUET, Qadirabad, Natore Opening : Date: 28/03/18 at 4.00 pm.
13.	Special instructions	:	i) Bidders or their Authorized representatives are allowed to attend during tender opening. ii) For any unavoidable circumstances tenders will be opened on following date at the same places & time. iii) The rules, regulations, terms & conditions of the tender should follow as per PPR -2008. iv) Tender document will not be issued / received by mail. v) The tender will be considered as disqualified if unusual quotation was mentioned in tender document by the tenderer. vi) Further information may be collected from undersigned office during office hours. vii) BAUET reserves the right to accept or reject any or all Tender without assigning any reason whatsoever and is not bound to accept the lowest offer.

Project Director  
Tel: 081- 80127 Ext: 305

*Handwritten signature*

**8.2 TENDER SCHEDULE**

**8.2.1 Section-01**

**8.2.2 Section-02**

## APPENDIX A

### An Example of an Appendix

Appendices should be used for supplemental information that does not form part of the main IDP. Remember that figures and tables in appendices should not be listed in the List of Figures or List of Tables. Refer to the IDP Template Instructions for more information.

*JK*



## APPENDIX B

### An Example of an Appendix

Appendices should be used for supplemental information that does not form part of the main IDP. Remember that figures and tables in appendices should not be listed in the List of Figures or List of Tables. Refer to the IDP Template Instructions for more information.

## Plagiarism Check Report

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