

PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY AND RESEARCH,

BADNERA, AMRAVATI-444701

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

This is to certify that this dissertation report titled “**SEISMIC ANALYSIS AND DESIGN OF PRECAST CONCRETE STRUCTURE**” is the bona fide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati by **Mr.Vrushabh Anil Taiwade** in the partial fulfillment of the requirement for the award of degree of Master of Engineering in Civil Engineering (Structural Engineering), during the academic year 2019- 2020 under the guidance of **Dr. Prakash S. Pajgade & Prof. Shrikant. R. Bhuskade.**

Head of Department

Dr. Prakash S. Pajgade

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Prof. S. R. Bhuskade

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DEPARTMENT OF CIVIL ENGINEERING**



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Certified that this project report titled “**Seismic Pounding Behaviour of Irregular Structures**” is the bona fide work of **Ms. Snehal Sontakke** who carried out the project work under the guidance of **Dr. N. W. Ingole** and **Dr. M. V. Mohod**.


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Dr N W Ingole

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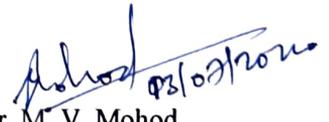
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CERTIFICATE

This is to certify that this dissertation report titled **“ECO-EFFICEINCY OPTIMIZATION FOR MUNCIPAL SOLID WASTE MANAGEMENT”** is the bona fide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati by Mrs. Sonali R. Mali in the partial fulfillment of the requirement for the award of degree of Master of Engineering in Civil Engineering (Environmental Engineering), during the academic year 2019-2020 under the guidance of Dr N. W. Ingole, Prof. & Dean (R&D).

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Dr. N. W. Ingole
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BADNERA, AMRAVATI-444701

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Dr N W Ingole

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Dr. M. V. Mohod

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Head of Department



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Dissertation Report
on
**“GREEN BUILDING – PLANNING,
DESIGNING & ECONOMIC STUDY”**

Submitted by
Prasad Vijaysing Pawar

Under the Guidance of
Prof. Dr. N. W. Ingole,
M.E., PhD. Dean (R & C) & Director (R & D)

Submitted to Sant Gadge Baba Amravati University, Amravati
in partial fulfillment of the requirement for the degree of

MASTER OF ENGINEERING
in
CIVIL ENGINEERING (ENVIRONMENTAL ENGINEERING)



Department of Civil Engineering
Vidarbha Youth Welfare Society's
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TECHNOLOGY AND RESEARCH BADNERA,
AMRAVATI – 444701, (MAHARASHTRA STATE)
INDIA
(2020-2021)

Vidarbha Youth Welfare Society's
**Prof. Ram Meghe Institute of Technology and
Research, Badnera, Amravati**



CERTIFICATE

This is to certify that the Dissertation entitled
**“GREEN BUILDING – PLANNING, DESIGNING & ECONOMIC
STUDY”** is the bonafide work & it is submitted to
Sant Gadge Baba Amravati University, Amravati

by

MR. PRASAD VIJAYSING PAWAR

(Enrollment No. 181319480005)

For the partial fulfillment of the requirement for the degree of
**Master of Engineering in Civil Engineering-Environmental
Engineering**

during the academic year 2020-21.

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Prof. Dr. N. W. Ingole
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(Head of department)


(Principal)

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Prof. Ram Meghe Institute of
Technology and Research
Badnera, Amravati



Dissertation Report
on
**“DESIGN OF PHYTOREMEDIATION BASED
TREATMENT PLANT FOR DOMESTIC WASTE
EFFLUENT”**

Submitted by
ASLAM HAMID KHAN

Under the Guidance of
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Professor and Dean (R & D)
and
S. V. DHARPAL
Assistant Professor

Submitted to Sant Gadge Baba Kripalavati University, Amravati in
partial fulfillment of the requirement for the degree of

MASTER OF ENGINEERING

In

CIVIL ENGINEERING (ENVIRONMENTAL ENGINEERING)



Department of Civil Engineering

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(MAHARASHTRA STATE) INDIA.**

2020-2021

Vidarbha Youth Welfare Society's
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PLANT FOR DOMESTIC WASTE EFFLUENT”** is the bonafide
work & it is submitted to

Sant Gadge Baba Amravati University, Amravati

by

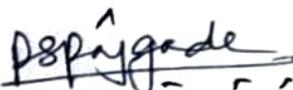
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(Head of department)




Prof. Dr. N. W. Ingole
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Principal
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Badnera, Amravati

Dissertation Report

On

**“EFFECT OF DAMPER ON THE VIBRATION OF
CHIMNEY SUBJECTED TO SEISMIC LOAD”**

Submitted by

Mr. YASH M. BHENDE

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Dr. K. Ravi

Co-Guide

Prof. S. R. Bhuskade

*Submitted to Sant Gadge Baba Amravati University, Amravati in partial
fulfillment of the requirements for the award of degree*

MASTER OF ENGINEERING (FULL TIME)

in

CIVIL ENGINEERING (STRUCTURAL ENGINEERING)



DEPARTMENT OF CIVIL ENGINEERING

**PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY AND
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JULY 2021

**PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY AND RESEARCH,
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This is to certify that this dissertation report titled **“EFFECT OF DAMPER ON THE VIBRATION OF CHIMNEY SUBJECTED TO SEISMIC LOAD”** is the bona fide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati by **Mr. YASH MUKUND BHENDE** in the partial fulfilment of the requirement for the award of degree of Master of Engineering in Civil Engineering (Structural Engineering), during the academic year 2020 - 2021 under the guidance of Dr. K. Ravi and Prof. S. R. Bhuskade.

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Dissertation Report
on

**“COMPARATIVE STUDY ON PRECAST STAIR
CASE”**

Submitted by

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Submitted to Sant Gadge Baba Amravati University, Amravati

in partial fulfillment of the requirements for the degree of

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This is to certify that the dissertation Report titled “**COMPARATIVE STUDY ON PRECAST STAIR CASE**” is the bonafide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati by **Mr. Rahul R. Khobragade** in the partial fulfillment of the requirement for the award of degree of Master of Engineering in Civil Engineering (Structural Engineering), during the academic year 2020-21 under the guidance of Dr. K. Ravi & Prof. S. R. Bhuskade.

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Dissertation Report
on
**“COMPARATIVE STUDY ON HYBRID STRUCTURAL
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Prof. S. R. Bhuskade

Submitted to Sant Gadge Baba Amravati University, Amravati

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CIVIL ENGINEERING (STRUCTURAL ENGINEERING)



**DEPARTMENT OF CIVIL ENGINEERING
PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY AND
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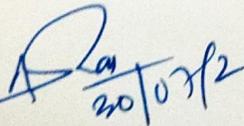
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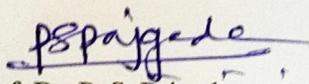


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This is to certify that this dissertation report titled “COMPARATIVE STUDY ON HYBRID STRUCTURAL SYSTEMS” is the bona fide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati by **MURTIKA D. CHOUDHARY** in the partial fulfillment of the requirement for the award of degree of Master of Engineering in Civil Engineering (Structural Engineering), during the academic year 2020- 2021 under the guidance of **Prof S. R. BHUSKADE**

for  20/03/21

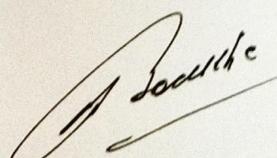
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Dissertation Report
on
**“DESIGN AND ANALYSIS OF INNOVATIVE
BRIDGE CUM BANDHARA (BCB) GATES”**

Submitted by
Miss. MOHINI SATISH MOHOD

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Prof. RIYAZ SAMEER SHAH

*Submitted to Sant Gadge Baba Amravati University, Amravati in partial
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**DEPARTMENT OF CIVIL ENGINEERING
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JULY 2021

Dissertation Report
on

**“BEHAVIOUR OF BRIDGE CUM BANDHARA
(BCB) GATES COMPOSED WITH INNOVATIVE
RECYCLE MATERIALS: A LEAN APPROACH”**

Submitted by

PRAJEET N. WANKHADE

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Submitted to Sant Gadge Baba Amravati University, Amravati

in partial fulfillment of the requirements for the degree of

MASTER OF ENGINEERING (FULL TIME)

in

CIVIL ENGINEERING (STRUCTURAL ENGINEERING)



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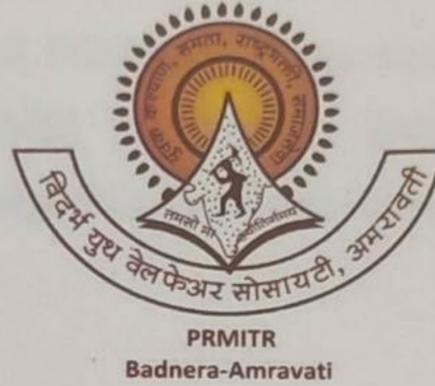
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BONAFIDE CERTIFICATE

This is to certify that the dissertation Report titled “**BEHAVIOUR OF BRIDGE CUM BANDHARA (BCB) GATES COMPOSED OF INNOVATIVE RECYCLE MATERIALS: A LEAN APPROACH**” is the bonafide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati by **Mr. PRAJEET NITIN WANKHADE** in the partial fulfillment of the requirement for the award of degree of Master of Engineering in Civil Engineering (Structural Engineering), during the academic year 2020-21 under the guidance of Dr. N.W.Ingole & Prof. Riyaz Sameer Shah.

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Badnera, Amravati

Project Report

on

**“PLANNING AND DESIGNING OF G+1 RESIDENTIAL
BUILDING”**

*Submitted to Sant Gadge Baba Amravati University, Amravati in
partial fulfillment of the requirements for the award of degree*

BACHELOR OF ENGINEERING

in

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Submitted by

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CERTIFICATE OF EXAMINATION

This is to certify that the Project Report titled “**PLANNING AND DESIGNING OF G+1 RESIDENTIAL BUILDING**”, has been satisfactorily completed by Himanshu Thakre, Jayesh Silaskar, Mohd Shahgul Mohd Islam, Sammer Bachewar, Sarvesh korde, Rutuja More, Suraj Shrikhande and Yash Thete in partial fulfillment of the award of Degree of BACHELOR OF ENGINEERING in CIVIL ENGINEERING from Sant Gadge Baba Amravati University, Amravati for the academic session 2020-2021.

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This is to certify that the Seminar Report titled “**DESIGN OF WATER TREATMENT PLANT FOR ARVI CITY**”, has been satisfactorily completed by **Rohit N. Tekade, Aniket D. Dharme, Kunal D. Mahalle, Shweta G. Kale, Yukta S. Bhopale, Manisha V. Shelkar, Rita V. Chandankhede, Manali B. Pimpalkar** in partial fulfillment of the award of Degree of BACHELOR OF ENGINEERING in CIVIL ENGINEERING from Sant Gadge Baba Amravati University, Amravati for the academic session 2020-2021.

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Project Report
on

**“DESIGN & ANALYSIS OF G+4 BUILDING BY
MANUALLY & USING STAAD PRO”**

*Submitted to Sant Gadge Baba Amravati University, Amravati in partial
fulfillment of the requirements for the award of degree*

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in

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This is to certify that the project report entitled as:-

“INTELLIGENT TRANSPORTATION SYSTEM”

Is bonafied work carried out and completed during the period of odd and even term 2020-2021 by, Nahush Chaudhari, Namrata Khawad, Kartik Landge, Sayali Joshi, Akash Ghatol, Aniruddha Akotkar, Amol Thorve, Gauri Dahake, Nikita Manjalwar in partial fulfillment of the award of Degree of BACHELOR OF ENGINEERING in CIVIL ENGINEERING from Sant Gadge Baba Amravati University, Amravati for the academic session 2020-2021.

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This is to certify that the project report entitled as

"VALUATION OF COMMERCIAL BUILDING PROJECT"

Is bonafied work carried out and completed during the period of odd and even term 2020-2021 by, Shraddha Chandurkar , Ashish Gedam , Sanyukta More , Hritwik Akode , Sanket Rane, Nazeer Khan, Mohd Faizan , Sanchiti Charjan in partial fulfillment of the award of Degree of BACHELOR OF ENGINEERING in CIVIL ENGINEERING from Sant Gadge Baba Amravati University, Amravati for the academic session 2020-2021.

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This is to certify that the Project Report titled **“REINFORCED GEOPOLYMER CONCRETE”** has been satisfactorily completed by 1.Gaurav Gawali 2.Chaitanya Bhoyar 3.Lokesh Wadurkar 4.Aman Shinde 5.Harshal Thulkar 6.Piyush Kantale in partial fulfillment of the award of Degree of BACHELOR OF ENGINEERING in CIVIL ENGINEERING from Sant Gadge Baba Amravati University, Amravati for the academic session 2020-2021.

Date: 5/7/2021

Name of Guide

Prof. Ms. S. C. Sagane

Project Report On

“REINFORCED GEOPOLYMER CONCRETE”

*Submitted to Sant Gadge Baba Amravati University, Amravati in partial
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BACHELOR OF ENGINEERING

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Submitted by

Name of Students:- 1.Gaurav Gawali
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3. Lokesh Wadurkar
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5.Harshal Thulkar
6.Piyush Kantale

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Prof. Name of Guide:- Prof.Ms. S C Sagane

Dissertation Report
On

**“STUDY OF SEISMIC BEHAVIOR OF BUILDINGS
WITH FLOATING COLUMNS”**

Submitted by

Athary N. Atkare

Guide

Dr. P.S. Pajgade

*Submitted to Sant Gadge Baba Amravati University, Amravati in partial
fulfillment of the requirements for the award of degree
MASTER OF ENGINEERING (FULL TIME)*

In

CIVIL ENGINEERING (STRUCTURAL ENGINEERING)



**DEPARTMENT OF CIVIL ENGINEERING
PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY AND
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JULY 2021

CERTIFICATE OF EXAMINATION

This is to certify that the Dissertation Report titled “**STUDY OF SEISMIC BEHAVIOR OF BUILDINGS WITH FLOATING COLUMNS**”, has been satisfactorily completed by **Atharv N. Athare** in partial fulfillment of the award of Degree of MASTER OF ENGINEERING (FULL TIME) in CIVIL ENGINEERING (STRUCTURAL ENGINEERING) from Sant **Gadge** Baba Amravati University, Amravati for the academic session 2020-2021.

Date: / /

Internal Examiner

External Examiner

Project Report
On

**“ANALYSIS AND DESIGN OF G+2 BUILDING
USING STAAD.Pro”**

*Submitted to Sant Gadge Baba Amravati University, Amravati in partial
fulfillment of the requirements for the award of degree*

BACHELOR OF ENGINEERING

In

CIVIL ENGINEERING



Submitted By

Anwar Ahmed Khan

Iqra Bashir Sofi

Ankita Karpate

Jatin Shende

Adil Zahoor

Shahid Sayeed Khan

Ayush Sarda

Nitin Dane

Avantika Bagde

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Dr. P. S. Pajgade

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PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY AND
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CERTIFICATE OF EXAMINATION

This is to certify that the Project Report titled “**ANALYSIS AND DESIGN OF G+2 BUILDING USING STAAD.Pro**”, has been satisfactorily completed by **Ankita Karpate, Jatin Shende, Iqra Bashir Sofi, Anwar Ahmed Khan, Adil Zahoor, Shahid Sayeed Khan, Avantika Bagde, Ayush Sarda, Nitin Dane** in partial fulfillment of the award of Degree of BACHELOR OF ENGINEERING in CIVIL ENGINEERING from Sant Gadge Baba Amravati University, Amravati for the academic session 2020-2021.

Dr. P. S. Pajgade
Guide

Dr. P. S. Pajgade
Head of Department

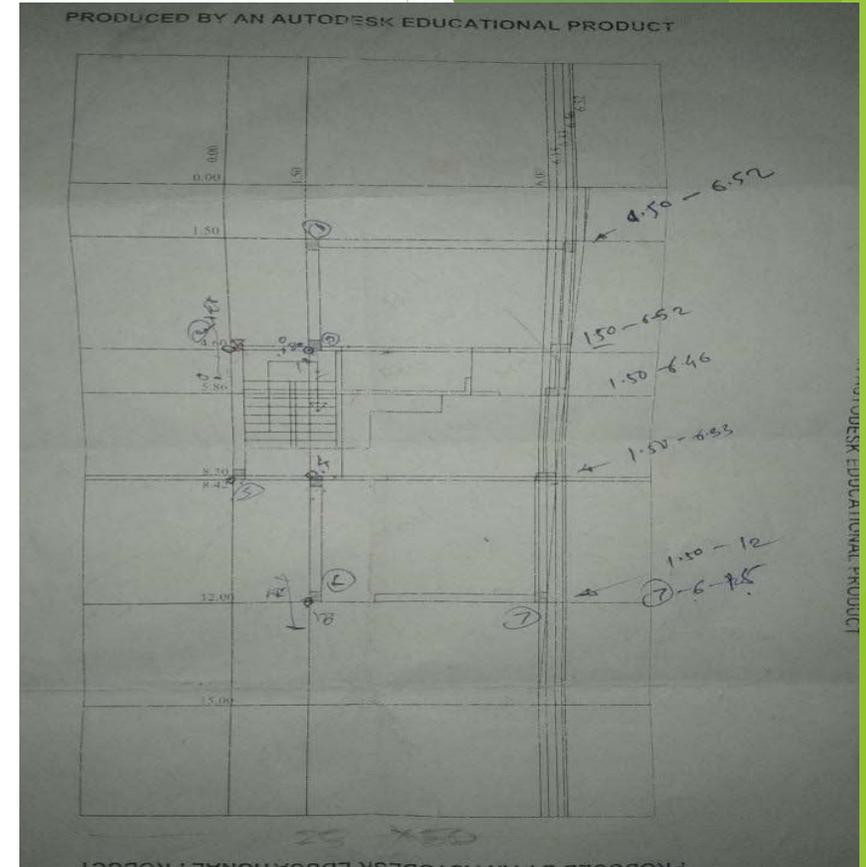
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◆ CONTENT ◆

- ◆ INTRODUCTION
- ◆ ARRANGEMENTS OF COLUMN
- ◆ MATERIAL USE IN CONSTRUCTION WORK
 - ▶ ▪ SAND
 - ▶ ▪ CEMENT
 - ▶ ▪ AGGREGATE
 - ▶ ▪ STEEL
 - ▶ ▪ BRICK
- ◆ DETAIL ABOUT VARIOUS COMPONENTS OF WORK
 - ▶ ▪ FORMWORK
 - ▶ ▪ SLAB
 - ▶ ▪ STAIRCASE

INTRODUCTION

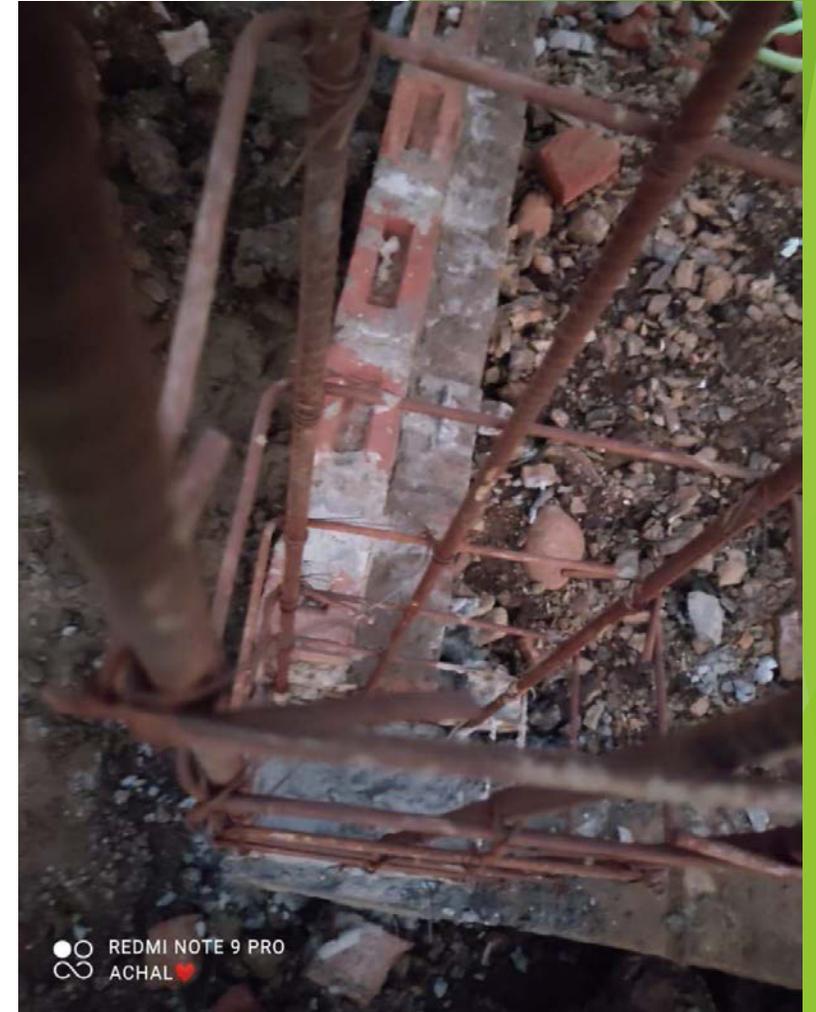
- This is simply Duplex house plan.
- Total plot size is 1250 sq.ft
- Built up area is 792 sq.ft
- Marginal Distance from back side and left side is 1.5 m and front size is 3m.
- The building faces east and all the work has been done keeping in mind the architecture point of view.



Er. Harshawardhan Wawre

ARRANGEMENTS OF COLUMN

- The plan which contain column size, and position is called column layout plan.
- This plan is very important for structure.
- In this construction work total 11 No. of columns are used.
- Size of column is 300×330.
- And the size of bar is 12mm and 5mm stirrups are use.
- In case of small distance they provide small column having 10mm diameter.



MATERIAL USE IN CONSTRUCTION

- ▶ Sand .
- ▶ Cement .
- ▶ Aggregate .
- ▶ Steel.
- ▶ Bricks.

◆ SAND

- In this construction they Used artificial sand.
- Is also called as crush sand or mechanical sand.
- It refers to rocks mine tailings or industrial waste granuals size with partical size of less than 4.75mm.
- It is also used for plastering.



◆ CEMENT

- Ultratech cement use in in this site.
- The Grade of cement is 43 .
- The rate of one cement bag is 370₹ .



◆ AGGREGATE

- Aggregate generally occupied 55% to 80% of concrete volume.
- We used Course aggregate having size 9.5 mm to 37.5 mm.



◆ STEEL

■ Two types of steel is use in construction .

▶ Mild steel :

▶ Tor steel :

Mild steel : Mild steel is use for lateral ties having size of 5mm .

Tor steel having size of 12mm .



◆ BRICKS

- They use standard bricks for construction .
- Having size $190 \times 90 \times 90$ mm .



DETAIL ABOUT VARIOUS COMPONENT OF WORK

- ▶ Formwork.
- ▶ Slab.
- ▶ Staircase.

◆ FORMWORK

- We use wooden planks as formwork.
- Formwork is the structure, usually temporary, used to contain poured concrete and to mould it to the required dimensions and support until it is able to support itself.
- We use various type of formwork such as wooden plank, Plywood, stell etc.



◆ SLAB

- They provide two way slab.
- Two way slab is a slab, supported by beams on all the four sides and the loads are carried by the supports along with both directions, it is known as Two way slab.
- Thickness of slab is 25 mm.



◆ STAIRCASE

- In construction side use Dog legged staircase.
- The dog-legged staircase is one of the simplest forms of stairs.
- It is a very common and popular type of staircase and is used in public and residential buildings.
- Rise is 150mm and trade size is 250mm .
- From the design point of view, the advantage this staircase lies in its compact layout and better circulation .



THANK YOU

**PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY AND RESEARCH
BADNERA, AMRAVATI.**



CIVIL ENGINEERING DEPARTMENT

**SITE VISIT
PRESENTATION**

**PRESENTED BY : AKANKSHA P. MAHURE
ROLL NO. 03**

INTRODUCTION

For study, I recently visited the under construction site at Professor Colony, Amravati. I have observed the site. The site is being constructed as a residential building. It will be a flat system.

The site is proposed to construct upto 4 (G+4) floors out of which 2 floors are constructed and further work is in progress. The building will be named as “Sky Gardens”. This building is featuring innovative new concept of vertical garden, first of its kind in Amravati.

DETAILS OF SITE

- Site Name : “Sky Gardens” Apartments
- Address : Professor Colony, new expressway,
Amravati.
- Project Developer : V & M Builders and developers.
- Water supply sources : Boring
- Method of Concrete mixing : Concrete mixer
- Plot Size : 12000 sq.ft.
- Plot orientation : Corner Plot facing East & North
directions.

SPECIFICATION:

- RCC Frame structure
- External and internal walls in AAC blocks
- Vertical Garden



MATERIALS USED :

Cement :

OPC Cement grade “53”.

Brick :

Traditional brick 19 X 9 X 9 and AAC blocks of 400 X 200 X100 MM.

Reinforcement bars :

12 and 16 MM bars are provided.

Grade Fe415 bars are used for reinforcement.

Aggregates :

10 MM, 20 MM graded sand and natural sand are used.



FOUNDATION DETAILS :

- Type of soil : Hard Murrum
- Type of foundation : Combined footing



Bamboos provided
to hold columns in
place

GROUND FLOOR :

There will be two 2 BHK flats on the ground floor along with four shops/offices and also covered parking in half of the space.



1st to 4th FLOOR :

All these floors will be having 6 flats each, out of which, 5 flats will be 2 BHK and one will be 1 BHK.



LIFTS

Two adjacent lifts of size 1.6 M X 1.6 M will be provided.

Column size : 550 X 230 MM

Beam size : 550 X 230 MM



STAIRCASE

Dog-legged staircase is used.

Tread : 300 MM

Riser : 160 MM

Width of stair : 1600 MM

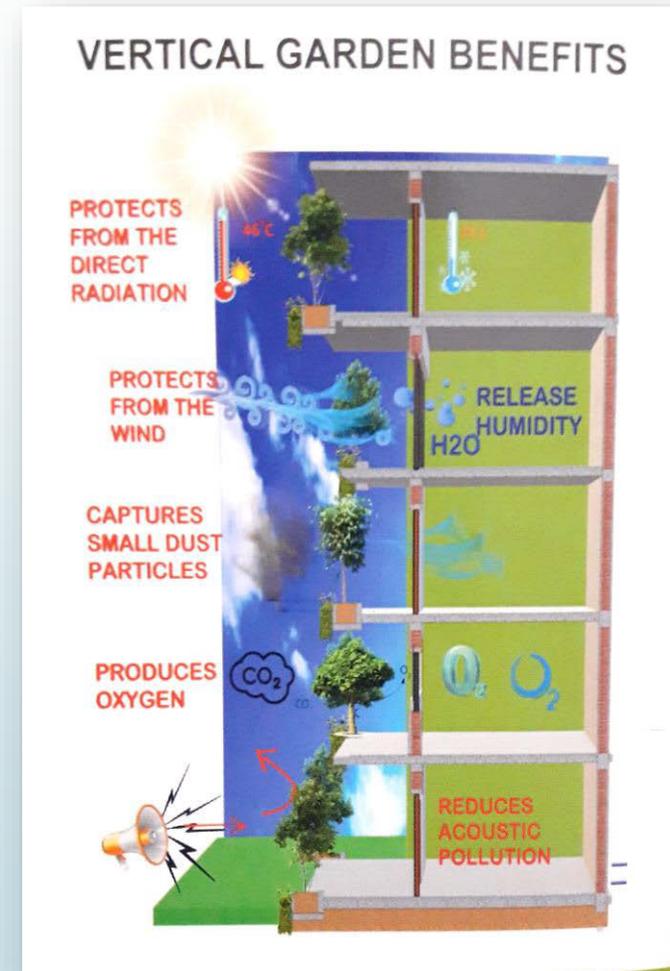
Depth of RCC steps is 50 MM.

Each flight consist of 12 steps.



VERTICAL GARDEN

- 46 trees on living room & bedroom balconies and 3700 creepers on the 62 flower beds at balconies & window are to be placed.
- For this, flower beds are constructed on each balcony and to construct them concrete should be mixed with water proofing material to get a denser and lighter concrete.





Flower bed for vertical garden on the balcony



Shuttering Clamp

SUNKEN SLAB:

Sunken slab is a type of slab cast at a certain depth (200mm or 300mm) below normal floor level.

This extra depth is used for placing pipes and utility ducts and then space is filled with sand or other light weight materials until the normal floor level.



DESIGNED FRONT ELEVATION OF THE BUILDING



THANK YOU!

PROF. RAM MEGHE INSTITUTE OF
TECHNOLOGY AND RESEARCH, BADNERA

DEPARTMENT OF CIVIL ENGINEERING

Topic : Site Visit

Guided by :
Prof. P. Pajgade Sir

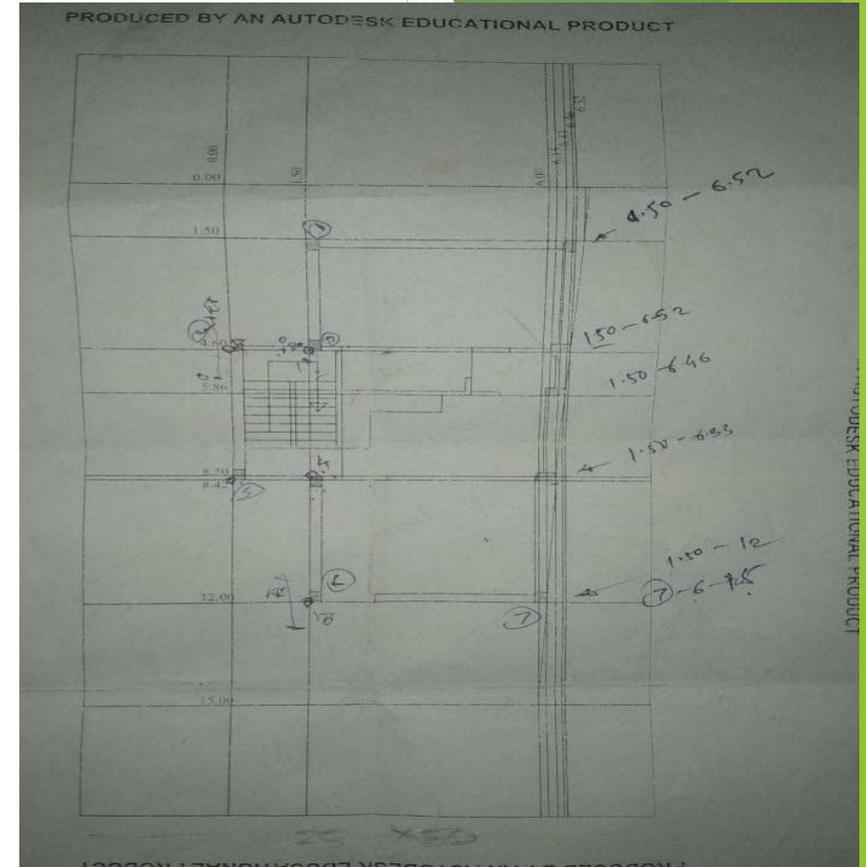
Presented by :
Arti A. Sonone
Achal G. Afare
Gitesh N. Wasankar

◆ CONTENT ◆

- ◆ INTRODUCTION
- ◆ ARRANGEMENTS OF COLUMN
- ◆ MATERIAL USE IN CONSTRUCTION WORK
 - ▶ ▪ SAND
 - ▶ ▪ CEMENT
 - ▶ ▪ AGGREGATE
 - ▶ ▪ STEEL
 - ▶ ▪ BRICK
- ◆ DETAIL ABOUT VARIOUS COMPONENTS OF WORK
 - ▶ ▪ FORMWORK
 - ▶ ▪ SLAB
 - ▶ ▪ STAIRCASE

INTRODUCTION

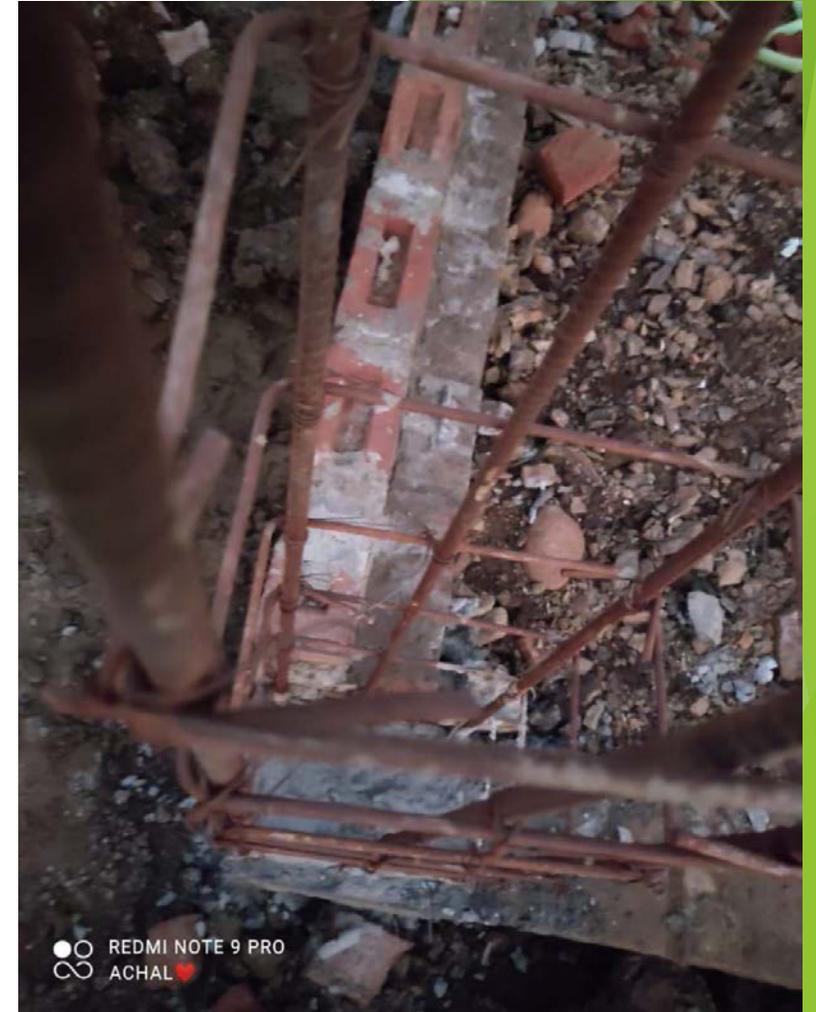
- This is simply Duplex house plan.
- Total plot size is 1250 sq.ft
- Built up area is 792 sq.ft
- Marginal Distance from back side and left side is 1.5 m and front size is 3m.
- The building faces east and all the work has been done keeping in mind the architecture point of view.



Er. Harshawardhan Wawre

ARRANGEMENTS OF COLUMN

- The plan which contain column size, and position is called column layout plan.
- This plan is very important for structure.
- In this construction work total 11 No. of columns are used.
- Size of column is 300×330.
- And the size of bar is 12mm and 5mm stirrups are use.
- In case of small distance they provide small column having 10mm diameter.



MATERIAL USE IN CONSTRUCTION

- ▶ Sand .
- ▶ Cement .
- ▶ Aggregate .
- ▶ Steel.
- ▶ Bricks.

◆ SAND

- In this construction they Used artificial sand.
- Is also called as crush sand or mechanical sand.
- It refers to rocks mine tailings or industrial waste granuals size with partical size of less than 4.75mm.
- It is also used for plastering.



◆ CEMENT

- Ultratech cement use in in this site.
- The Grade of cement is 43 .
- The rate of one cement bag is 370₹ .



◆ AGGREGATE

- Aggregate generally occupied 55% to 80% of concrete volume.
- We used Course aggregate having size 9.5 mm to 37.5 mm.



◆ STEEL

■ Two types of steel is use in construction .

▶ Mild steel :

▶ Tor steel :

Mild steel : Mild steel is use for lateral ties having size of 5mm .

Tor steel having size of 12mm .



◆ BRICKS

- They use standard bricks for construction .
- Having size $190 \times 90 \times 90$ mm .



DETAIL ABOUT VARIOUS COMPONENT OF WORK

- ▶ Formwork.
- ▶ Slab.
- ▶ Staircase.

◆ FORMWORK

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THANK YOU

Prof. Ram Meghe Institute of Technology & Research, Badnera

Topic : Site Visit

Presented by:

Ashish Yadhav
Vedant Samdurkar
Vipul Satpute

Content

- Introduction
- Materials used in construction
- Components of structure

Introduction

Type of structure : Framed Structure

Site name : Govinda Crown

Location : Govinda Crown, Shankar Nagar Road, near Hariganga Oil Mill.

This structure is a **residential apartment** building. The plan is of **G+8** floors. There are total 13, 3-BHK flats with super build up area of 1650 sq.m.



Material used in construction

- Cement
- Sand
- Aggregate
- Steel
- Bricks

Cement

A **cement** is a binder, a substance used for construction that sets, hardens, and adheres to other materials to bind them together.



Sand

1. The sand used in the construction is artificial sand. Also known as **Crush sand** or Mechanical Sand
2. **Crushed sand** is manufactured by **crushing** larger stones of quarry to particular size of **sand**.
3. Its chemical & physical properties such as color, size & shape, surface texture up particles depend upon types of stone & its source.
4. The artificial **sand** produce by machine can be a better substitute to natural river **sand**.



Aggregate

1. **Aggregate**, **in building and construction**, material used for mixing with cement, bitumen, lime, gypsum, or other adhesive to form concrete or mortar
2. The **aggregate** gives volume, stability, resistance to wear or erosion, and other desired physical properties to the finished product.
3. **Aggregate** is commonly considered inert filler, which accounts for 60 to 80 **percent** of the volume and 70 to 85 **percent** of the weight of **concrete**.



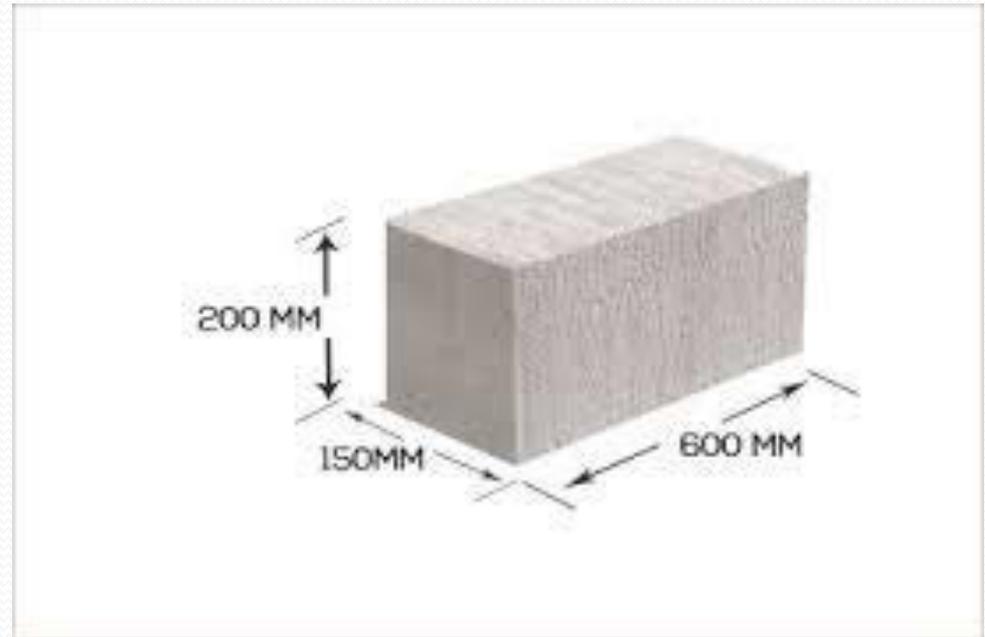
Steel

1. **Steel** is used because it binds well to concrete, has a similar thermal expansion coefficient and is strong and relatively cost-effective.
2. In this structure 8mm, 10mm, 12mm, 16mm, and 20mm bars are used in various sections of the structure like columns, footings, beams, slabs, ties, etc. as per necessity.



Bricks

1. The bricks used in this construction are AAC bricks
2. Autoclaved aerated concrete (AAC) is a lightweight, precast, foam concrete building material suitable for producing concrete masonry unit (CMU) like **blocks**.



Components of structure constructed until now

- Foundation
- Column

Foundation

A **foundation** is a lower portion of **building** structure that transfers its gravity loads to the earth.

The foundation used in this structure is step footing and combined footing.



In case of the footing shown in the above figure, the footing is rest on on PCC having depth 100mm.

The footing size is 2500 x 3700mm and depth is 375mm for lower block, reinforced with 12T @ 125mm.

While the upper block having size 1650mm x 2450mm having depth 375mm, reinforced with 10T @ 300mm.

Column

Column is a vertical structural member that carry loads mainly in compression. It might transfer loads from a ceiling, floor slab, roof slab, or from a beam, to a floor or foundations.



In the case of above figure, the size of column is 300 x 1845mm having vertical bars 18 x 20T and ties of 8T @ 100-150mm.





THANK YOU

Site Visit Report

Name : Chetan Sevanand Alone

Roll No : 11 Section: A Subject : DRPCS

Third Year (Regular)

Department of Civil Engineering

PRMIT&R BADNERA-AMRAVATI



Introduction

For Report , I had recently visited the under construction site Near Bal Vikas School, Mul. These site is constructed for Residential Purpose

These sites Belongs to Shreyash Mishra

Contents

- 1.Site Location : Near Bal Vikas School, Mul.**
- 2.Purpose : To know the various components of Building**
- 3.Owner : Shreyash Mishra**



Red Bricks

A brick is a type of block used to build walls, pavements and other elements in masonry construction. Properly, the term brick denotes a block composed of dried clay, but is now also used informally to denote other chemically cured construction blocks. Bricks can be joined together using mortar, adhesives or by interlocking them.

Dimensions of Brick is $228 \times 107 \times 69$ mm .





Sand

- **Sand is a granular material composed of finely divided rock and Minerals particles. It is defined by size, being finer than gravel and coarser than silt.**
- **Sand is a non-renewable resource over human timescales, and sand suitable for making concrete is in high demand.**
- **Sand is Mostly collected in these region from Umaa River.**

Cement

OPC 43 grade cement is generally used for non-structural works like plastering flooring etc. Whereas OPC 53 grade cement is used in the projects which require higher strength like concrete bridges, runways RCC works etc.





Partition Wall

- **A partition wall is a non-load-bearing interior wall that is designed to support only the materials of the wall itself.**
 - **A partition wall typically connects to the floor below and to the ceiling joists or floor joists that make up the ceiling above.**
- 

Reinforcement



Diameter of Iron Bar Used in Construction are

8mm

10mm

12mm

Stirrups

- A stirrup refers to a closed loop of reinforcement bar.
- Its main purpose is to hold the reinforcement bars together in an RCC structure.
- When used in a column, they provide lateral support to the main reinforcement bars to prevent buckling.
- They also prevent columns and beams from buckling.





Footing

- In these constructions, isolated footing is used.
- Isolated footings are commonly used for shallow foundations in order to carry and spread concentrated loads, caused for example by columns or pillars.

Column :

An Isolated Vertical members of building is called Column.

The size of column is 225mm×300mm.

It is used to support the weight of the roof and/or the upper floors.

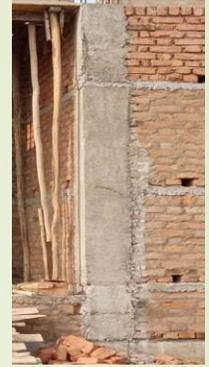


Fig : Column

Beam :

An Isolated Horizontal members of building is called Beam.

The size of Beam is 225 mm×225 mm.

Beam is used to carry horizontal loads



Fig : Beam

Formwork

Slab formwork essentially supports the weight of the concrete during the curing process and when the concrete slab is positioned on permanent supports. The horizontal joists create a flat surface where timber, plywood, steel sheets, aluminium or fibreglass can be used as a base onto which the concrete is poured.



Fig : Formwork



Plinth Level

The level at which Substructure ends and superstructure starts is called Plinth level.

Lintel Level

The lintel level is the height or vertical measurement from the bottom edge to the top horizontal component of a window or door, the lintel is provided above the doors and windows to transfer the upward wall load to the surrounding wall.

Staircase



- The staircase construct in these site is Dog-legged Staircase.
- In case of Dog-Legged Staircase,
 - a). Riser =150mm
 - b). Tread =225mm
- Each Flights consists 10 steps



Thank You

PROF.RAM MEGHE INSTITUTE OF TECHNOLOGY AND RESEARCH BADNERA, AMRAVATI.



CIVIL ENGINEERING DEPARTMENT

SITE VISIT REPORT

PRESENTED BY :

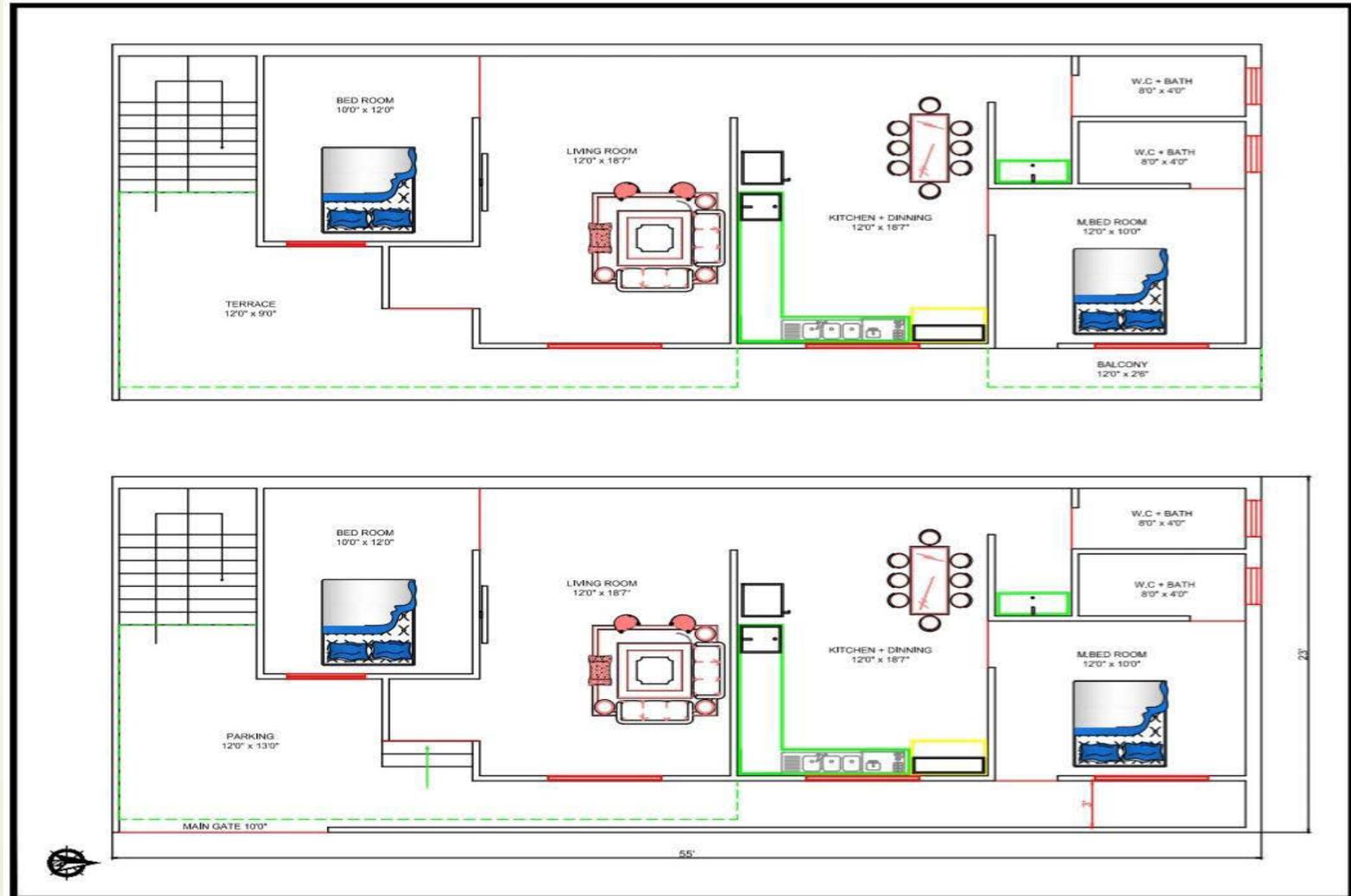
1. SARVESH .D. HARNE. ROLL NO. 41
2. PRATHAMESH KADAM ROLL NO. 29



SITE DETAILS :

- **SITE LOCATION : Plot no .31 , survey no . 19/2, Sai Nagar, Akoli , Amravati**
- **TYPE OF STRUCTURE : RESIDENTIAL BUILDING (G+2)**
- **PLOT SIZE : 16.76 * 7.01 M**
- **PLOT ORIENTATION : CORNER PLOT FACING EAST AND SOUTH
DIRECTION**
- **RATE OF CONSTRUCTION : 1200 PER Sq.ft**

PLAN OF STRUCTURE :



FOUNDATION DETAILS :



- ▶ **TYPE OF SOIL:** HARD MURRUM AT 5 ' (1.524 M)
- ▶ **SIZE OF EXCAVATION :** 4'*4'* 5' (1.22 *1.22 M)
PITE
- ▶ **TYPE OF FOUNDATION :** ISOLATED SLOPE
FOOTING
- ▶ **DEPTH OF PCC BED :** 120 mm

GROUND BEAMS



- GROUND BEAM IS PLACED UNDER THE MAIN WALLS OF 230 MM
- THE SIZE OF GROUND BEAM IS 230*300 MM

PLINTH HEIGHT & D.P.C

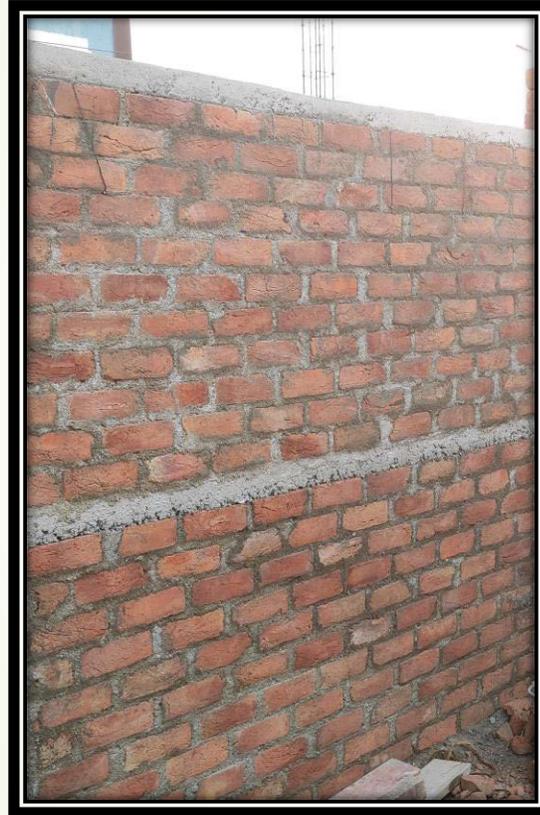


- PLINTH HEIGHT IS OF 0.6M
- PLINTH FEELING OF MURRUM IS PROVIDED WHICH IS RAMMED PROPERLY
- DAMP PROOF COURSE OF 100 MM IS PROVIDED AT THE TOP OF PLINTH

TYPE OF WALLS



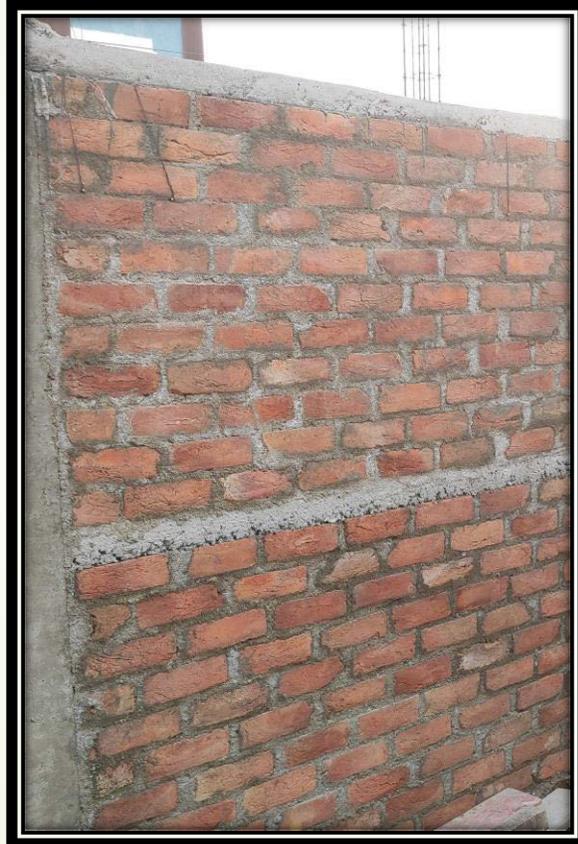
MAIN WALL



PARTITION WALL

- ▶ THE EXTERIOR WALLS OF BUILDING ARE PROVIDED OF SIZE 230 MM (9').
- ▶ AND THE INTERIOR WALLS ARE OF 120 MM (5').
- ▶ THE WALL PROVIDED IS OF RED BRICK HAVING SIZE 230 *115* 75 mm.
- ▶ MAIN WALL IS PROVIDED WITH FLEMISH BOND AND PARTITION WALL IS OF STRATCHER BOND

LINTEL BEAM & SILL BANDS



- FOR OPENING THE DEDICATED LINTEL BEAMS ARE PROVIDED ON EACH OPENING OF SIZE 230 * 150 MM IS PROVIDED
- FOR PARTITION WALLS THE SILL AND LINTEL BANDS OF 100 MM ARE PROVIDED
- THIS LINTEL & SILL BANDS ARE PROVIDED TO GIVE MORE STABILITY TO PARTITION WALLS

BEAM & SLAB

SHUTTERING CLAMP



- IN CURRENT SITUATION THE SLAB AND BEAMS ARE CONSTRUCTED ONLY FOR PARKING SECTION WHICH IS AT 2.1 M FROM PLINTH HIGHT.
- THE SIZE OF BEAMS PROVIDED IS OF 230* 300 mm WHICH IS CONSTRUCTED MONOLITHICALLY WITH SLAB
- MAIN BARS IN BEAM ARE OF 12 MM SIZE AND STIRRUP OF 6 MM
- SLAB PROVIDED ON PARKING IS TWO-WAY SLAB HAVING DEPTH OF 120 MM
- BARS USED ARE OF 12 MM AS MAIN BAR

COLUMNS



- THE COLUMNS PROVIDED AT SITE ARE OF SAME SIZE 230 * 300 MM
- THE COLUMNS ARE PROVIDED WITH MAIN BARS OF 12 MM AND TIES ARE OF 6MM

STAIRCASE



- R.C.C TREAD RISER TYPE DOG LEGGED STAIRCASE IS PROVIDED.
- STIRCASE IS PROVIDED WITH RISER OF 150MM AND TREAD OF 230 MM .
- DEPTH OF RCC STEPS IS 50MM

CERTIFICATE

This is to certify that the project entitled

DEVELOPMENT OF EVECuated TUBE COLLECTOR BY INCREASING ITS EFFICIENCY

Submitted by

Mr. Rushikesh Gajanan Lavhale

Mr. Prathamesh Rajendra Bhuyar

Mr. Shubham Govardhan Gedam

Mr. Indranil Chandrashekhar Ambekar

Mr. Arya Samir Deshmukh

Ms. Ashvini Avinash Chafale

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfilment of the requirement for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. Dr. N. W. Kale

Project Guide

Department of Mechanical Engineering,
P.R.M.I.T. & R, Badnera

Prof. Dr. D. S. Ingole

Head of Department

Department of Mechanical Engineering,
P.R.M.I.T. & R, Badnera



Department of Mechanical Engineering

CERTIFICATE

This is to certify that the project entitled

Implementation of Lean Manufacturing for Sustainable Development of the Industry

Submitted by

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Mr. Shubham Govardhan Gedam

Mr. Prathamesh Rajendra Bhuyar

Mr. Saurabh Sanjayrao Lokhande

Ms. Sakshi Om Pohane

Ms. Vedanti Sanjay Kolhe

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P.R.M.I.T. & R, Badnera.



Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research,

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This is to certify that the project entitled

E-BIKE: THE FUTURE OF BICYCLE

Submitted by

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Mr Rahul Sharma

Mr Amar Mapari

Mr Tushar Mahulkar

Mr Mihir Gaikwad

Mr Aadarsh Gawali

Mr Rahul Mohite

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Prof. A. K. Pitale
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Head

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FEASIBILITY STUDY OF USING HYDROGEN AS A FUEL IN THERMAL POWER PLANT

A PROJECT REPORT

Submitted by

Mr. Rohit k Ninawe
Mr. Shreyash S Deshmukh
Mr. Mithilesh V Sao
Mr. Prajwal S Baraskar

Mr. Pratik S Lande
Mr. Chetan K Lal
Mr. Prasad S Rahate

Under the guidance of

Associate professor Dr. A. D. Shirbhate

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING



This is to certify that the project entitled

**Research Methodology Project On
Electronic Vehicles (EV)**

Submitted by

Mr. Vedant A. Deshmukh
Mr. Toshnil N. Ghyar
Mr. Smit K. Solav
Mr. Santosh Charhate

Mr. Anand Borekar
Ms. Sakshi Thete
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P.R.M.I.T. & R, Badnera



CERTIFICATE

This is to certify that the project entitled

"SENSOR OPERATED (AUTOMATIC) HAND SANITIZER DISPENSER"

Submitted by

Ms. Ankita P. Kale
Mr. Vishal A. Badwaik
Mr. Saurav R. Kale
Mr. Sachin A. Korde

Mr. Adesh V. Kute
Mr. Aniket Chavan
Mr. Mayur Chaudhari

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Prof.Dr.M.P.Nawathe

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Head of Department of
Mechanical Engineering,
P.R.M.I.T & R, Badnera



Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled

Design and Development of Personal Sanitization and Disinfection Enclosure

Submitted by

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Ms. Riddhi Yawale

Mr. Shubham Nirwan

Ms. Siddhi Yawale

Mr. Jaykumar Shingne

Mr. Affan Khan

Mr. Ramakant Ghatol

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Prof. Dr. M. V. Gudadhe

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Head

Department of Mechanical Engineering,
P.R.M.I.T. & R, Badnera



Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled

A CASE STUDY OF AUTOMATIC VEHICLE HEADLIGHT MANAGEMENT SYSTEM TO PREVENT ACCIDENTS

Submitted by

Mr. Prajwal V. Kalode

Ms. Rupal R. Hatole

Mr. Paritosh P. Ajankar

Mr. Sayyed Mir Zeeshaan Ali

Mr. Saurabh M. Wanjari

Mr. Sahil S. Asole

Mr. Naveed A. Khan

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Associated Prof. Dr. S.P.Patil

Guide

Prof. Dr. D. S. Ingole

Head of department Department of
Mechanical Engineering,
P.R.M.I.T. & R, Badnera.



Department of Mechanical Engineering

CERTIFICATE

This is to certify that the project entitled
THE STUDY OF EXHAUST GAS RECIRCULATION IN I.C. ENGINE

Submitted by

Mr. Tejas A. Shrirao

Mr. Sahil Rajurkar

Mr. Shashank Meshram

Mr. Monis Sheikh

Ms. Manasi deshmukh

Mr. Akshay Shirbhate

Mr. Vaibhav lakhe

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Prof. Dr. P.M.Ingole

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Prof. Dr. D. S. Ingole

Head of department Department
of Mechanical Engineering,
P.R.M.I.T. & R, Badnera.



Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera.

CERTIFICATE

This is to certify that the project entitled

“DESIGN AND ANALYSIS OF FLEXIBLE CHASSIS”

Submitted by

Mr. Kartik K. Khadatkar

Mr. Prathamesh S. Jagtap

Mr. Siddharth R. Deshmukh

Mr. Rushabh G. Kadu

Mr. Dnyanesh S. Ghom

Mr. Pranav P. Badase

Mr. Tejas A. Patil

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Prof. A. V. Deshmukh

Prof. Dr. D. S. Ingole

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Head

Department of Mechanical Engineering
Engineering

Department of Mechanical



P.R.M.I.T & R, Badnera

P.R.M.I.T & R, Badnera

Department of Mechanical Engineering

Prof. Dr. D. S. Ingole

CERTIFICATE

This is to certify that the project entitled

Design and Analysis of Robot for industrial Application

Submitted by

Mrs.Samruddhi Kolhe
Mrs. Sujata Mirge
Mr. Ajinkya Deshmukh
Mr. Praveen Khobragade

Mr. Prathamesh Hajare
Mr. Ajay Shendre
Mr. Pankaj Wagh

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfilment of the requirement for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. A.V. KADU

(GUIDE)

Department of Mechanical Engineering,
PRMIT&R, BADNERA

Prof. Dr. D. S. Ingole

(Head of Department)

Department of Mechanical Engineering,
PRMIT&R, BADNERA



Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research,
Badnera

Prof. Ram Meghe Institute of Technology & Research, Badnera
(Session 2020-21)

CERTIFICATE

This is to certify that the project entitled

“ STUDY & DEVELOPMENT OF INTERNAL PIPE INSPECTION ROBOT ”

Submitted by

Mr. Sahil D. Yadav

Mr. Vikas S. Kapade

Mr. Ankit V. Kamble

Mr. Rohan M. Gajbhiye

Mr. Syed Tabishuddin Khatib

Mr. Abhishek A. Bonde

Mr. Pratik A. Shende

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfilment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. C. R. Bundele

Guide

Prof. Dr. D. S. Ingole

Head of Department of Mechanical Engineering,

P.R.M.I.T. & R, Badnera



Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled
360 DEGREE ROTATING VEHICLE

Submitted by

Miss. Muskan Sayyed Ajjj

Miss. Punam Kishor Indore

Miss. Nikita Prakash Rodge

Mr. Prasad Gajanan Kulkarni

Miss. Shital Ganpat Hissal

Miss. Anuradha Dilip Yawale

Mr. Prathmesh Vivek Pande

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2019-2020.

Prof. Dr. D.S. INGOLE

Guide

Department of Mechanical Engineering

P.R.M.I.T. & R, Badnera

Prof. Dr. D.S. INGOLE

Head

Department of Mechanical Engineering

P.R.M.I.T. & R, Badnera



Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

Page No. 2

CERTIFICATE

This is to certify that the project entitled

INBUILT HYDRAULIC JACK SYSTEM FOR LMVs

Submitted by

Mr. Punit M. Bannagare

Mr. Rohit S. Arbal

Mr. Rushikesh S. Shrinath

Mr. Hariom B. Satpute

Mr. Sonal R. Tarke

Mr. Sharad S. Gadling

Mr. Rishikesh V. Dehankar

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. K. M. Watt.

Project Guide

Department of Mechanical Engineering

P.R.M.I.T. & R, Badnera

Prof. Dr. D. S. Ingole

Head

Department of Mechanical Engineering

P.R.M.I.T. & R, Badnera



Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled

MULTIPURPOSE MANUAL DRAFTING TOOL

Submitted by

Mr. Akshay P. Shelkar

Mr. Aditya Y. Shrikhande

Mr. Sameer D. Wankhade

Mr. Saurabhsing V. Chavan

Mr. Gaurav M. Varma

Mr. Nishant A. Bhoyar

Mr. Anuj V. Rode

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfilment of the requirement for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. Dr. S.G. Bahaley
Guide

Prof. Dr. D. S. Ingole
Head
Department of Mechanical Engineering,
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Department of
Mechanical Engineering,
P.R.M.I.T. & R., Badnera



Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled

DESIGN AND DEVELOPMENT OF SOLAR OPERATED ORANGE FRUIT GRADING MACHINE

Submitted by

Mr. Anurag Varma

Mr. Sarang Hinglaspure

Mr. Prasad Tayade

Mr. Shreyash Tayade

Mr. Om Vyawahare

Mr. Rutwik Fale

Mr. Rajdeep Deshmukh

Mr. Yash Athawale

Mr. Aditya Kshirsagar

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Dr. S. J. Deshmukh

Dr. D. S. Ingole

Guide

Department of Mechanical Engineering,
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Head

Department of Mechanical Engineering,
P.R.M.I.T. & R. Badnera



Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera.

CERTIFICATE

This is to certify that the project entitled

CORONA VIRUS DISINFECTANT ROBOT

Submitted by

*Mr. Lokesh V. Baitule
Mr. Abhishek V. Girase
Mr. Rupesh S. Huse
Mr. Amol M. Thakare*

*Ms. Pranoti S. Kandalkar
Mr. Adarsh W. Kohale
Ms. Tejaswini G. Tade*

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Guide
Prof. V.V. Kale

Head
Prof. Dr. D.S.Ingole
Department of Mechanical Engineering,
P.R.M.I.T & R, Badnera



Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the Project entitled

‘Solar Powered Mini-Compressorless Refrigerator’

Submitted By

Mr. Aditya Kadam

Mr. Parag Gondchawar

Mr. Manthan Deshmukh

Mr. Gaurav Yawale

Mr. Tushar Gole

Mr. Ansar Baig Anwar Baig

Mr. Raunak Rathi

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2019-20

Dr. S. B. Thakare

Guide

Department of Mechanical Engineering

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Dr. D. S. Ingle

Head,

Department Mechanical Engineering

Prof. Ram Meghe Institute Of Technology
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Department of Mechanical Engineering,

Prof. Ram Meghe Institute of Technology & Research, Badnera.

CERTIFICATE

This is to certify that the project entitled

SOLAR EXPLORATION ROVER FROM SCRAP

Submitted by

Mr. Sanath S. Mohod

Mr. Abhishek A. Madne

Mr. Pranay S. Shende

Mr. Prashun V. Punse

Mr. Prajwal R. Wankhede

Mr. Dipak D. Kamble

Mr. Nishank B. Narnaware

is a bonafide work and has been successfully completed under my guidance. This project is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati during the academic year

2020-21

Prof. Saurabh S. Bhange

Guide

Department of Mechanical Engineering,

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Department of mechanical Engineering,

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CERTIFICATE

This is to certify that the project entitled

Lean Manufacturing

Submitted by

Mr. Sanchit Rangrao Punkar
Mr. Ram Manoj Kakani
Mr. Shubham Ashokrao Lawate
Mr. Dinesh Wamanrao Masram

Ms. Bhumika Satish Shende
Ms. Priyanka Subhashrao Bale
Ms. Ashwini Purushottamrao Patil

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Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled

DESIGN AND FABRICATION OF MULTIPURPOSE AGRICULTURE MACHINE

Submitted by

Mr. Vivek K. Sonone

Mr. Shubham N. Dabherao

Mr. Pratik R. Dahake

Mr. Sudhir V. Dhuldhule

Mr. Chetan N. Marathe

Mr. Ranjit L. Chavhan

Mr. Ankush P. Gavhale

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. Dr. R.A. Kubde

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Department of Mechanical Engineering

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CERTIFICATE

This is to certify that the project entitled

"DESIGN OF DRAINAGE CLEANING SYSTEM"

Submitted by

Mr. Ranjit H. Mundekar

Mr. Yogesh V. Mahashabde

Mr. Adarsh S. Telharkar

Mr. Anand D. Jamnik

Mr. Farhan A. Khan

Mr. Shubham S. Todase

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. Saurabh Paropate

Prof. Dr. D. S. Ingole

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Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled

“Study of Performance Parameters of Diesel Engine using GT Suite Simulation Software”

Submitted by

Mr. Sarth Patil

Ms. Diksha Bansod

Mr. Faizan Khan

Ms. Sonali Dhole

Ms. Sneha Gawai

Ms. Giteeka Charjan

Mr. Mukesh Rathod

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. Ms. R. R. Kolhekar
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Prof. Dr. D. S. Ingole
Head,
Department of Mechanical Engineering,
P.R.M.I.T. & R, Badnera

CERTIFICATE

This is to certify that the project entitled

Design and Development of Ladder Hoist

Submitted by

Mr. Sushant D. Deshmukh

Mr. Suaraj D. Patanakar

Mr. Vishal V. Dongre

Ms. Mayuri R. Ingle

Mr. Yogeshwar P. Tatkundwar

Mr. Prajwal V. Mohite

Mr. Bhayesh U. Rithe

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. Dr. C. R. Patil

Prof. Dr. D. S. Ingole

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Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled

DESIGN OF ONION TRANSPLANTING MACHINE

Submitted by

Mr. Amit R. Ughade

Mr. Sarthak V. Atkare

Mr. Sai K. Keshattiwar

Mr. Kartik G. Kalbande

Mr. Prajwal K. Vighe

Ms. Jui R. Joshi

Mr. Vaibhav V. Wakade

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfilment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. Dr. H. M. Deshmukh

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Head

Department of Mechanical Engineering

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Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled.

PARABOLIC SOLAR WATER HEATER

Submitted by

Mr. Shivam R. Mishra

Mr. Aditya A. Mahore

Mr. Siddhant S. Gaikwad

Mr. Abhishek R. Dange

Mr. Manthan A. Vyapari

Ms. Neha V. Shinde

Mr. Shaikh Meraj Ahmed

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. Dr. S. S. Deshmukh

(Guide)

Prof. Dr. D. S. Ingole

(HODM)

Department of Mechanical Engineering,
P.R.M.I.T. & R, Badnera



Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the Project entitled

'Automatic Gear Transmission for Two Wheelers'

Submitted By

Mr. Mayur Bhagat Mr. Bhushan Harne
Mr. Sandesh Kulwal Ms. Samiksha Gedam
Mr. Sumedh Dupare 3Mr. Bhushankumar Raut

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21

Dr. N. A. Wankhade

Guide

Department of Mechanical Engineering
Prof. Ram Meghe Institute Of Technology
&Research Badnera

Dr. D. S. Ingole

Head

Department Mechanical Engineering
Prof. Ram Meghe Institute of Technology
&Research Badnera

Department of Mechanical Engineering



Prof. Ram Meghe Institute of Technology &Research,
Badnera

CERTIFICATE

This is to certify that the project entitled

PEDDAL OPERATED POTTERY MACHINE

Submitted by

Mr. Vaibhav D. Badwaik
Mr. Shubhankar N. Falke
Mr. Prajwal G. Kale

Ms. Tejaswini G. Malte
Mr. Bilal A. Khan
Mr. Kundan R. Meshram

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfilment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. Harshal Patil
(Guide)
Department of Mechanical Engineering,
PRMIT&R

Prof. Dr. D. S. Ingole
Head
Department of Mechanical Engineering,
PRMIT&R



Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled

Development and Evaluation of Solar Powered Multi-purpose Agricultural Machine

Submitted by

Mr.Parth H. Pund

Mr. Chetan M. Bhakare

Mr. Ajay D. Ambekar

Ms. Sharayu Jewade

Mr.Rishabh R. Bhawarekar

Ms. Samruddhi K. Mohod

Mr. Nikhil Tikhe

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfilment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, SantGadge Baba Amravati University, Amravati, during the academic year

Prof.N.A.Dukare

Guide

Department of Mechanical Engineering,
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Prof.Dr. D. S. Ingole

Head

Department of Mechanical Engineering,
P.R.M.I.T. & R, Badnera



Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled

BARREL HANDLING DEVICE

Submitted by

Mr.Dhiraj S. Sable

Mr.Hrishikesh G.Doifode

Mr.Saurabh A. Malokar

Mr.Sagar p. Gulde

Mr.Ankit S. Barde

Mr.Hemant Khadke

Ms.Nikita Dawange

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof.T.K. Gawande

Guide

Department of Mechanical Engineering
P.R.M.T & R ,Badnera

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Head

Department of Mechanical Engineering
P.R.M.I.T & R,Badnera



Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

(Session 2020-21)

CERTIFICATE

This is to certify that the project entitled

BARREL HANDLING DEVICE

Submitted by

Mr.Dhiraj S. Sable

Mr.Hrishikesh G.Doifode

Mr.Saurabh A. Malokar

Mr.Sagar p. Gulde

Mr.Ankit S. Barde

Mr.Hemant Khadke

Ms.Nikita Dawange

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Prof.T.K. Gawande

Guide

Department of Mechanical Engineering
P.R.M.T & R ,Badnera

Prof.Dr.D.S.Ingole

Head

Department of Mechanical Engineering
P.R.M.I.T & R,Badnera



Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

(Session 2020-21)

CERTIFICATE

This is to certify that the project entitled

“Metal Bender Equipment With Accuracy”

Submitted by

Mr. Pranil Raundale

Mr. Pratik Chavan

Mr. Adwit Patil

Mr. Gaurav Ubhad

Mr. Vishwajeet Dindokar

Mr. Ishwar Kalmegh

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2020-21.

Prof. A.S.Deshmukh

Prof. Dr. D. S. Ingole

Guide

Head

Department of Mechanical Engineering,
P.R.M.I.T. & R, Badnera

Department of Mechanical Engineering,
P.R.M.I.T. & R, Badnera



Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera

CERTIFICATE

This is to certify that the project entitled

ENRICHMENT OF METHANE IN BIOGAS

Submitted by

Ms.Pallavi Patil

Ms.Vinika Ajmire

Mr.Anirudhha Awachar

Mr.Vipin Regulwar

Mr.Mayur Athawale

Mr.Darshan Gawande

is a bonafide work and has been successfully completed under my guidance. This project report is submitted in the partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering In Mechanical Engineering, Sant Gadge Baba Amravati University, Amravati, during the academic year 2017-18.

Prof. P.B.Jawanjal

Guide

Department of Mechanical Engineering,
P.R.M.I.T. & R, Badnera

Dr. D.S. INGOLE

Head

Department of Mechanical Engineering,
P.R.M.I.T. & R, Badnera



Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

2020-2021



EXPERIENCE – CERTIFICATE
TO WHOM SO EVER IT MAY CONCERN

It is to certify that **Miss. Juhita V. Jadhao D/o Shri Vinod Eknathrao Jadhao** was working as employee with us **M/s J S R G & Co.**, Chartered Accountant as Audit clerk from period 20th May, 2020 to 19th May, 2021 as per the firm's employment record. Her Salary for the period is Rs. 5000/- per Month.

During her employment **Miss. Juhita V. Jadhao** has perused knowledge & experience in field of Audit / Accounting, etc. from our organization.

During her employment we found her to be Professional, knowledgeable and result oriented with theoretical & practical understanding of work requirements.

She has a friendly & having good sense of humour and works well as individual or member of a team as required by management.

Overall **Miss. Juhita V. Jadhao** performed her duties and responsibilities cheerfully with attention to detail at all times. With her enthusiasm to work, learn and progress, I am certain that she would make a great employee to any enterprise.

Please feel free to contact us if you have specific questions regarding her employment.

PLACE: Morshi
DATE: 06.06.2021



For, J S R G & CO.
CHARTERED ACCOUNTANT

SAGAR S. RATHI
(PARTNER)
M.NO.175930
F.R.N.143922W

SILVER

Certificate

—◇— OF INTERNSHIP —◇—

THIS IS TO CERTIFY THAT

Rohit Rajendra Arora

FROM AMRAVTI WAS ASSOCIATED
WITH AASHMAN FOUNDATION IN THE CAPACITY OF AN INTERN
FROM DECEMBER 2020 TO MARCH 2021 WITH OUR
SALES AND MARKETING GROUP.

HE/SHE HAS COMPLETED HIS/HER INTERNSHIP
WITH A ONE STAR PERFORMANCE

MARCH 21



Munishpundir
FOUNDER / DIRECTOR



SAMAGRA FOUNDATION
VASUDAIVA KUTUMBAKAM

INTERNSHIP COMPLETION CERTIFICATE

DATE: 11/06/2021

This is to certify that

TEJAL KARALE

has successfully completed internship as **Fundraising Intern**
from **12/05/2021** to **11/06/2021** at Samagra Foundation.

MAYURI SABALE

Intern Program Manager



SANKET KAPOLE

Chief Managing Officer



Certificate of Internship

*We the undersigned do hereby proudly present this
Certificate of Internship for the outstanding honorable effort of*

ASHWINI RAOSAHEB YENDE

from

PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY & RESEARCH

*For his/her successful completion of **Social Media Marketing**
with **LUDIFU** for 3 months from **1st May to 31st July 2020***

LUDIFU.com

Founder

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RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 1st August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **"Prerana Anilrao Wahane"** has successfully completed his/her Summer Internship with **Ritika Securities – Business Partner with Narnolia Financial Advisors Ltd and LKP Securities Ltd.** subject titled **"Fundamental Analysis of Bank of Baroda"** from **1st June, 2020 till 1st August, 2020** in the specialized area of **Finance**.

During his tenure of internship his/her performance was **Excellent**

We wish **her** the best for **her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com

RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 1st August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that "**Ashwini Ramesh Dahake**" has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd** and **LKP Securities Ltd.** subject titled "**Fundamental analysis of havells india limited**" from **1st June, 2020 till 1st August, 2020** In the specialized area of **Finance-**.

During his tenure of internship his/her performance was **Average**

We wish **her** the best for **her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com

RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 1st August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **“Asawari Devdatta Nande”** has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd** and **LKP Securities Ltd.** subject titled **“Fundamental analysis of Voltas Ltd.”** from **1st June, 2020** till **1st August, 2020** in the specialized area of **Finance**.

During his tenure of internship his/her performance was **Good**

We wish **him/her** the best for **his/her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com

Rly Str

THE KHAMGAON URBAN CO-OP. BANK LTD, KHAMGAON



(MULTISTATE SCHEDULED BANK) REG. NO. MSCS/CR/107/2000

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BRANCH / OFFICE

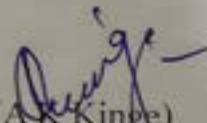
KB/Internship/2019-20

Dt. 07.08.2019

Certificate

This is to certify that Ku Rutuja Vinod Dhavle, student of, Prof Ram Meghe Institute of Technology & Research Badnera Amravati has undergone internship at our Bank for the period of 45 days .

For The Khamgaon Urban Coop Bank Ltd


(A.K. Kinge)
Deputy General Manager
HR, HO, Khamgaon





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Multa Road- 444908
Mob. 9422958651
aspavarud@gmail.com

PARATWADA
Amravati Road - 444805
Mob. 8888897629
aspa.amr.srv1@marutidealers.com

Date : 15.10.2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Aishwary Ganjare** has doing his Summer internship from 01 June 2018 to 15 July 2018 in Sales Department at Aspa Bandsons Auto Pvt. Ltd. ARENA.

His conduct has been excellent and he has shown full dedication and commitment during his Internship.

We wish him all the best in his future endeavors.

ASPA BANDSONS AUTO PVT. LTD.



(Signature)
Authorised Signatory

Certificate Of Internship



This is hereby awarded to

Aksa Shaikh

for completing **Graphics Designing**
Internship, For the month of July to September
at
Appsierra pvt. ltd.

A handwritten signature in black ink, appearing to read "Vanya Goel".

Head Of operations
Vanya Goel



Aditya Industry

UPVC Windows & Doors Manufacturers

Shop No. 78, Madan Mahal Complex, Court Road, Paratwada
Dist. Amravati (MS) 444 805 | Ph. 07223-221115 | 221116 | 9422159743

Plot No. 40, 41 & 42, Achalpur Industrial Co-operative Society,
Amravati Road, Paratwada Dist. Amravati. 444 805 | Mo. 9096068787

GSTIN : 27BQUPR58758125

- Quotation -

Date :

* INTERNSHIP CERTIFICATE *

This is to certify that Mr. Gaurabh Gopaldas Bang, s/o Gopaldas M. Bang, A student of M.B.A. in Marketing from Prof. Ram Meghe Institute of Technology & Research, Badnera - Amravati. has successfully completed 60 days (from 4 May 2021 to 4 July) Internship programme at this "Aditya Industry". During the period of this programme with us he has found punctual, hardworking and inquisitive.

We wish him every success in Life.





Date:-10th August 2020

To Whosoever It May Concern

This is to certify that Miss.Sakshi Khandar a Student of Prof. Ram Meghe Institute of Technology and Research, Badnera has Satisfactorily completed his internship in the month of July, 2020 as Campus Ambassador with SWIS DREAM INDIA (OPC) PVT. LTD. Punjab.

During the period of her internship with us she was found active participation.

We wish him all the best in his future endeavors.

For SWISDREAM

Yours faithfully,

Swis Dream India (OPC) Pvt. Ltd.
AMARDEEP SINGH
Managing Director

Director
Dream Team Management
amdeep@swisdream.com

www.swisdream.com
www.swisdream.in





NEW SHRINIWAS MEDICAL

ADD- CHAWALI CHOWK, OLD TOWN, BADNERA

20-300384
(REG. NO. 21-300385)

CERTIFICATE OF INTERNSHIP

This Certifies That

SAURABH RAJENDRA JAISWAL

Have completed "SUMMER INTERNSHIP" of 60 Days at New Shrinivas Medical
(01/06/2021) to (31/07/2021)

We found him sincere, hardworking and dedicated and result oriented.

He worked well as part of the team during his tenure.

We take this opportunity to thank him and wish him all the best for his future.

New Shri Niwas Medical

Proprietor

Mr. Pravin B. Jaiswal
(Proprietor)



INTERNSHIP CERTIFICATE

Awarded To:

Mr. Hritik Kaje

This is to certify that Mr. Hritik Kaje has done his internship in Digital Marketing at BDigitalU Digital Solutions Pvt Ltd, Pune from 1st June 2020 to 31st August 2020. During the internship he has learned the concepts of digital marketing and demonstrated good analytical skills with a self-motivated attitude to learn new things.

We wish him all the best for his future endeavours.

19-09-2020

Date

Signature



Bangalore
9th June 2020

**Dear
Shushti Shrirao,**

We would like to congratulate you on being selected for the Online Internship position as Financial Analyst with **Jmarathon Advisory Services Pvt Ltd**

1. Commencement Date:

Your appointment becomes effective from the date of joining the services of Jmarathon Advisory services Pvt Ltd, which date shall not be later than 13th June 2020. Your induction and orientation training shall be spread across the first ten days from your date of joining the organization.

2. Compensation and Benefits:

You will receive a total stipend of Rs. 2000 paid on your performance based. You are expected to treat this information and any changes made therein from time to time as personal and confidential.

3. Job Assignments / Reporting:

In your assignment you will be responsible for department allotted and the duties as more particularly laid down in the job description for this position. You will directly report to the Manager/Team Leader nominated by the Company

This internship is being an educational opportunity for you. As such, your Internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts through hands-on application of the knowledge you learned in class.



RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 20th August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Vaibhav Sunil Pavitrakar** has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd** and **LKP Securities Ltd.** subject titled **“Comparative Study Of Share Market And Mutual Funds.”** from **10th June, 2020 till 10th August, 2020** in the specialized area of **Finance.**

During his tenure of internship his/her performance was **Good**

We wish **him/her** the best for **his/her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com



LEARNOVATE

CERTIFICATE OF INTERNSHIP

We present this certificate to:

ROSHNI KALE

in appreciation for your work as an HUMAN RESOURCE Intern at Learnovate. You have shown true commitment and diligence during the course of this internship and have successfully completed all the assigned tasks.

The internship was conducted between 27/07/2020 to 27/08/2020

28 AUGUST 2020

RAVI SINGH

FOUNDER

www.ourlearnovate.com

Certificate Of Internship



This is hereby awarded to

Hanzala Shaikh

for completing **Social Media Marketing**
Internship, from June 2020 to July 2020
at
The Voice Of Woman



Co-Founder
Arpit Singhal



Founder
Vanya Goel

Certificate Of Internship



This is hereby awarded to

Hanzala Shaikh

for completing **Digital Marketing**
Internship, from June 2020 to July 2020
at
Appsierra

A handwritten signature in blue ink, appearing to read "Arpit Singhal".

Director
Arpit Singhal

RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 10th August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Lavina .S. Kewalramani** has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd and LKP Securities Ltd.** subject titled “ **Life Cycle of Employee in Ritika Securities** ” from **10th June, 2020** till **10th August, 2020** In the specialized area of **HR**.

During his intemship his/her performance was **EXTRAORDINARY**.

We wish **him/her** the best for **his/her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com



Certificate of Internship

*We the undersigned do hereby proudly present this
Certificate of Internship for the outstanding honorable effort of*

AMIT GOPALRAO BHOJANE

from

PRMITR BADNERA

*For his/her successful completion of **Social Media Marketing**
with **LUDIFU** for 3 months from **1st May to 31st July 2020***

LUDIFU.com

Founder

Let Us Do It For U



Certificate of Internship

With pleasure it is hereby proudly announced the
Completion of Internship for the outstanding Internship officer of

MEKALI VIDYAYI

from

PRINCE RAM MOHAN HOSPITAL, 75-07 THE PARKWAY AND SURABHI, BANGALORE

For the successful completion of **Senior NCC Manager**
with a certificate for Internship from **1st May to 1st July 2024**



LUDIFU.com

1st May to 1st July 2024

CERTIFICATE OF INTERNSHIP

THIS CERTIFICATE IS PROUDLY AWARDED TO

Tejasvi Wadhai

The candidate has worked in Marketing Department. The candidate completed all assigned tasks during the internship conducted in the month of July 2020. We wish all the success in the future.



AMARDEEP SINGH
Managing Director

RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 1st August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Jay Sanjay Pathak** has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd** and **LKP Securities Ltd.** subject titled “**Customers Satisfaction: A Study for Client Retention among Stock Broking Firms.**” from **1st June, 2020** till **1st August, 2020** In the specialized area of **Marketing**

During his tenure of internship his/her performance was **Good**

We wish **him/her** the best for **his/her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com



**DR. PANJABRAO DESHMUKH
URBAN CO-OPERATIVE BANK LTD., AMRAVATI**

**Head Office : Irvin Chowk, Camp Road, AMRAVATI (M.S.)
Phone : (0721) 2663701,2660872 Fax : 2661144,2551967**

Date : July 29, 2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that, *Ku.Pooja Ajay Jadhav*; a student of MBA in Prof.Ram Meghe Institute of Technology & Research has undergone a Internship training in our bank from 17.06.2019 to 29.07.2019.

Her performance during the training was satisfactory.


Managing Director

RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 1st August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Smita Manoj Satpute** has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd and LKP Securities Ltd.** subject titled “ **A study on investors behaviour towards described investment avenue** ” from **1st June, 2020** till **1st August , 2020** In the specialized area of **Marketing**

During his tenure of internship his/her performance was **Good**

We wish **him/her** the best for **his/her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com

RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 1st August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that “ **Asmita A. Jaiswal** ” has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd** and **LKP Securities Ltd.** subject titled “**Fundamental analysis on Axis Bank** ” from **1st June, 2020** till **1st August , 2020** In the specialized area of **Finance**.

During his tenure of internship his/her performance was **Good**

We wish **him/her** the best for **his/her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com



Certificate of Completion

This is to certify that

ASMITA KANDALKAR

has successfully completed her internship with

KROSS DIGITAL

She worked well as Social Media Marketing Intern during her tenure. We take this opportunity to thank her and wish her all the best for future.



A handwritten signature in black ink, appearing to read "Swapnil R. More".

FOUNDER
Swapnil R. More
Kross Digital



Contact - (+91) 8016200637
www.quantbotsecurities.com

QUANTBOT SECURITIES PVT. LTD.

TO WHOM IT MAY CONCERN

This is to certify that BHAVESH MOHANSING CHAVHAN has successfully completed a virtual internship from 13th May 2021 to 25th June 2021 at “Quantbot Securities Private Limited” as a finance intern where the primary focus was on Technical Analysis and exposure to stock market terminologies along with a comprehensive training on various segments of market like Equity, Derivatives, Commodities etc.

We wish BHAVESH MOHANSING CHAVHAN all the best in all future endeavours.

Warm regards,

QUANTBOT SECURITIES PVT. LTD.
Rittik Samanta
DIRECTOR

Rittik Samanta,
Managing Director,
Quantbot Securities Pvt Ltd.

July 24, 2018

PROJECT CERTIFICATE

This is to certify that **Vibhas Sanjay Hastak** has completed project work from **June 06, 2018 to July 20, 2018** with Reliance Nippon Life Asset Management (RNLAM) at Amravati Office.

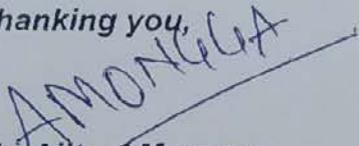
During this time, she has exhibited great interest and enthusiasm. Her project was-

“A Comparative Analysis Of Bank FD With Debt Mutual Funds With special Reference To Reliance Mutual Fund”

She has completed the project successfully.

We value her contribution to RNLAM in terms of the insights and recommendations of her project report.

Thanking you,


Mr. Ajitpal Mongga

(Sr. Branch Manager Amravati)

RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 1st August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Chetan Mohanrao Kadu** has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd and LKP Securities Ltd.** subject titled “ **Consumer behavior towards demat account in small scale industry** ” from **1st June, 2020** till **1st August, 2020** In the specialized area of **Marketing**

During his tenure of internship his/her performance was **Average**

We wish **him/her** the best for **his/her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com



QACS
An ISO 9001:2015 &
IEC 27001:2013 certified company

H.O.
3 RD FLOOR, DATTA PALACE, GANDHI CHOWK,
AMRAVATI-444601, MAHARASHTRA
Email : simakitpl@gmail.com
Mob. - 09422840076 | Ph. + 91 721-2566974
web :- www.simakit.com

TO WHOME IT MAY CONCERN

This is to certify that **Mr. Ratnadip Diliprao Bharde S/O Mr. Diliprao Atmaramji Bharde**, a student of MBA (Major in Marketing Management – Summer Semestar), Sant Gadge Baba Amravati University, Amravati, Maharashtra, India has successfully completed 03(Three) moths (From 1st December, 2020 to 28th February.2021) long internship program at this Company. During the Period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.



Kajal Pande

Authorized Signature
Miss Kajal Pande (HR Manager)

Date:- 02March 2021

Place:- Amravati



RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 2nd August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that “ **Kajal Dilip Isokar** ” has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd and LKP Securities Ltd.** subject titled “ **E- Recruitment** ” from **2nd June , 2020** till **2nd August , 2020** In the specialized area of **HR**

During his internship his/her performance was **Excellent** .

We wish **him/her** the best for **his/her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com

Date: 04/01/2021

TO WHOM IT MAY CONCERN

Certified that **Miss Kasturi Deepakrao Kashikar** Daughter of Mr. Deepakrao Rambhauji Kashikar has undergone Internship for a period of 3 Month w.e.f. 3rd October, 2020 to 3rd January, 2021 for our Digital Marketing project on our portal (www.guidemeeducation.in).

During this period, she has worked on the project related to Social Media Infographic Design work.

Her contribution in the Project is remarkable.

We wish her all the best in her professional life.

For GUIDE ME EDUCATION SERVICES LLP

Dhiraj Kumar Mishra



(Dhiraj Kumar Mishra)
Project Head



MDA AGROCOT PVT. LTD.

A- 501, PRATHMESH HARMONY,
GAUTAM BUDDHA ROAD,
OPP. ORLEM CHURCH,
MALAD WEST, MUMBAI
444 603 (M.S.) India
TEL: +91-721-2561211
FAX: +91-721-2560211
E-mail: info@mdaagrocot.com

TO WHOMSOEVER IT MAY CONCERN

Date: 8-8-2019

This is to certify that **Miss. Shital S. Malge** student of **MBA (Marketing)** from **Prof. Ram Meghe institute of technology & research, Badnera Studies** affiliated to **SGBAU University** has completed an internship programme about the topic named Export Management at our company from **18 June 2019** to **2 Aug 2019**.

During his internship period, we found him sincere, dedicated and enthusiastic, we wish her good luck for her future projects.

For the Mda Agrocot Pvt Ltd,

MDA AGROCOT PVT. LTD.

Authorized Signatory

Authorized Signature.



NANJIL ANAND FOUNDATION

INTERNSHIP CERTIFICATE

Date:03 July 2021

This to certify that **MS. Tanvi Gajanan Bhole** successfully completed her '**HUMAN RESOURCES**' internship with **Nanjil Anand Foundation (NAF)** during the period **02 April 2021 – 02 July 2021**.

During this period **MS. Tanvi Gajanan Bhole** has shown great amount of responsibility, sincerity and a genuine willingness to learn and zeal to take on new assignments & challenges. In particular, she was also been incharge of hiring sheet and did data extraction from Intershala and LinkedIn. Her coordination skills and communication skills are par excellence and her attention to details is impressive.

We wish her all the very best for her future.

With regards,

Muniraj.C
[Authorized Signatory]
Nanjil Anand Foundation

Nanjil Anand Foundation

Reg Office 4-79, Kozhinjiviali, Ettani, Vilavancode, Kanyakumari District, Tamil Nadu - 629157
www.nanjilanandfoundation.org, info@nanjilanandfoundation.org



ASPA BANDSONS AUTO PVT. LTD.

(Authorised Maruti Dealer) www.aspabandsons.com

MARUTI SUZUKI

Way of Life!

GST NO. 27AADCA2786K1ZD

AMRAVATI Badnera Road Mob. : 9689896893 aspa.amr.salf@marutidealers.com	BODYSHOP A-1/2, MIDC, Amravati Mob. : 8975762303 aspa.amr.bs1@marutidealers.com	WASHIM Hingoli Road-444605 Mob. 9822475499 aspawashim@gmail.com	WARUD Multai Road- 444906 Mob. 9422958651 aspawarud@gmail.com	PARATWADA Amravati Road - 444805 Mob. 8888897629 aspa.amr.srv1@marutidealers.com
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Date : 18.08.2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Roshan D Thombare** has doing his Summer internship from 12 June 2019 to 20 July 2019 in Sales Department (Marketing) at Aspa Bandsons Auto Pvt. Ltd. Arena, Aspa Bandsons Auto Pvt. Ltd.

His conduct has been excellent and he has shown full dedication and commitment during her Internship.

We wish him all the best in his future endeavors.



ASPA BANDSONS AUTO PVT. LTD.


Authorised Signatory

April 5, 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Sampada Moharil (INT28932) has completed her Internship with Edelweiss Broking Limited in Personal Wealth-Direct 2 between 5th November 2020 to 20th December 2020.

Authorized Signatory



Human Resource

RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 1st August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Samruddhi Ajay Deshmukh** has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd and LKP Securities Ltd.** subject titled “ **Customer Behavior Towards Investment in Mutual funds** ” from **1st June, 2020** till **1st August , 2020** In the specialized area of **Marketing**

During his tenure of internship his/her performance was **Excelent**

We wish **him/her** the best for **his/her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com

RITIKA SECURITIES

Reg. No. (BSE-AP01092101 04812) (NSE – AP 186601601)

Date: 1st August, 2020

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Samruddhi Ajay Deshmukh** has successfully completed his/her Summer Internship with **Ritika Securities** – Business Partner with **Narnolia Financial Advisors Ltd and LKP Securities Ltd.** subject titled “ **Customer Behavior Towards Investment in Mutual funds** ” from **1st June, 2020** till **1st August , 2020** In the specialized area of **Marketing**

During his tenure of internship his/her performance was **Excelent**

We wish **him/her** the best for **his/her** future endeavors.

For Ritika Securities



Mr. Sushant Das
Founder & Sr. Advisor
www.ritikasecurities.com

Business Partner

CERTIFICATE OF INTERNSHIP

This is to certify that **Shubham Mahulikar** a student of **Prof. Ram Meghe Institute of Technology and Research** pursuing Masters of Business Administration has successfully completed an Internship in **Marketing** with Authorized Business Partner of Stock Trading Firm certified by NSE, Delhi from 30th May 2020 to 10th July 2020.

During the internship he demonstrated good proofreading skills with a self-motivated attitude to learn new things.

We wish him all the best for his future endeavors.



Akash Dubey
Authorized Business Partner
Date: 24th June 2020

CERTIFICATE

This is to certify that the project entitled
Internship portal
is a bonafied work and it is submitted to the Sant Gadge Baba
Amravati University, Amravati
in the Partial Fulfillment of the Requirement for
Master in Computer Application
During The Academic Year
2021-22
Submitted by

Kalyani Balkrushana Lanjewar
Kunali Gajanan Bhaje
Shivani Rajesh Isokar
Surbhi Paikram Rahangdale
Vaishnavi Satishpant Chatur

MCA I (Semester-II)



GUIDE
Prof. N. D. Bobade





Head
PGDCA,
P.R.M.I.T & R.

P.G. Department Of Computer Applications
Prof. Ram Meghe Institute of Technology & Research, Badnera.

**PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY &
RESEARCH AMRAVATI**

Project Title : INTERNSHIP PORTAL

DEPARTMENT OF COMPUTER APPLICATION

Academic Year : 2020-2021

Submitted By :

1. Vaishnavi S. Chatur
2. Surbhi P. Rahangdale
3. Kalyani B. Lanjewar
4. Shivani R. Isokar
5. Kunali G. Bhaje

Guidance by

Prof. Nilima Bobade

Project coordinator

Prof. Vinit Sinha

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1.Existing System:

Student *Internship Portal project* is a web application which is developed in JAVA as backend and JS, bootstrap, html , CSS as front end platform.This project will help the university students to find and apply for internship programs. Through this interface the students will be able to view the available positions for internship. The system has two users, the Admin on the backend and the user(students) on the frontend. Any students have the privilege to apply for the posted interns but only those who have registered can apply for the post. For connection create database name.... and import the database tables. We have used MySql for database .To access we need username and password for admin as well as for user (Students). The interface provides a grid view which display the internship name, description and the start and end date of projects. The student will be able to search for a relevant internship and apply for those positions

2.Need for System:

- **Windows 7 and Above Version**
- **VS Code**
- **Ram-2GB**
- **OP-32/64bits**
- **Server- XAMPP**
- **Database-MYSQL**

3. Proposed Functionality:

The interface enable the students to apply for internship. To use the system, the students should have registered with the database. Each student shall have a login id and password. The admin would have the rights to create and manage these users from the backend. When the students log in to the system, a grid view will be displayed which displays all the open intern positions. It also gives the details about the start and end date of the internship. It will give a brief description about the Internship. Using the apply button the student will be able to apply for the job.

4.Screenshot and Design Element:



Sign up



First Name: *

Last Name: *

Mobile No.:

Gender *
female • Male • Other •

Email Id :*

Education :

Address :

Password :*

Skills :

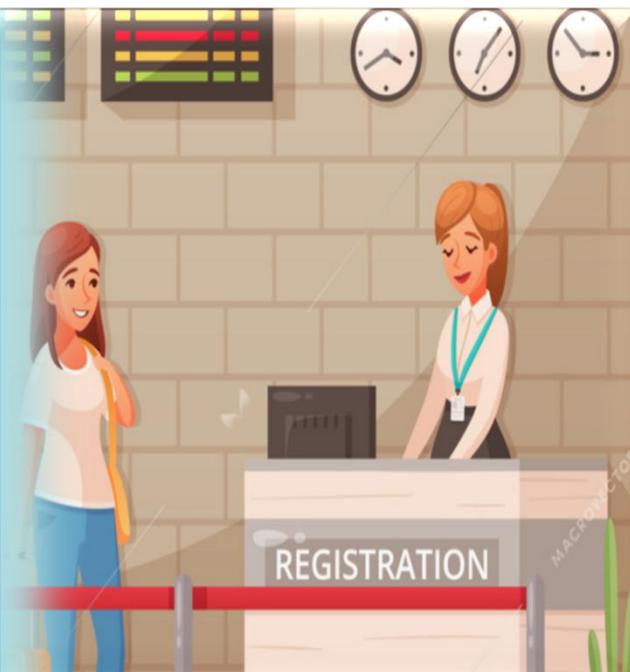
click here for register : [Register Now](#)

By clicking register now you will agree to our, [Term and condition](#) and [Privacy Policy](#).

Already have account? [Login](#)

[Homepage](#)

employer Registration



Full Name* :

Company_name :

Email* :

Mobile No* :

Address* :

Designation :

Password :

[Submit](#)

Already have account? [Login](#)

[Homepage](#)



INTERNSHIPS

Company Name	Location	Job Role	Stipend	Duration	Technical Skills	Experiance
Unicornready	pune, maharashtra	java developer	5000 per month	None	core and advance java	fresher	<input type="button" value="apply"/>
cordi privert limited	pune, maharashtra	python developer	2000 per month	None	data Science, analysis	1 year	<input type="button" value="apply"/>
Unicornready	amravati, maharashtra	web developer	null	None	html/css/javascript	fresher	<input type="button" value="apply"/>
ercel group	delhi,UP	full stack java developer	6000	None	None	None	<input type="button" value="apply"/>

-->Back

Home

Application Form

Name :*

Email :*

Mobile :*

employer Registration

Full Name* :

Company_name :

Email* :

Mobile No* :

Address* :

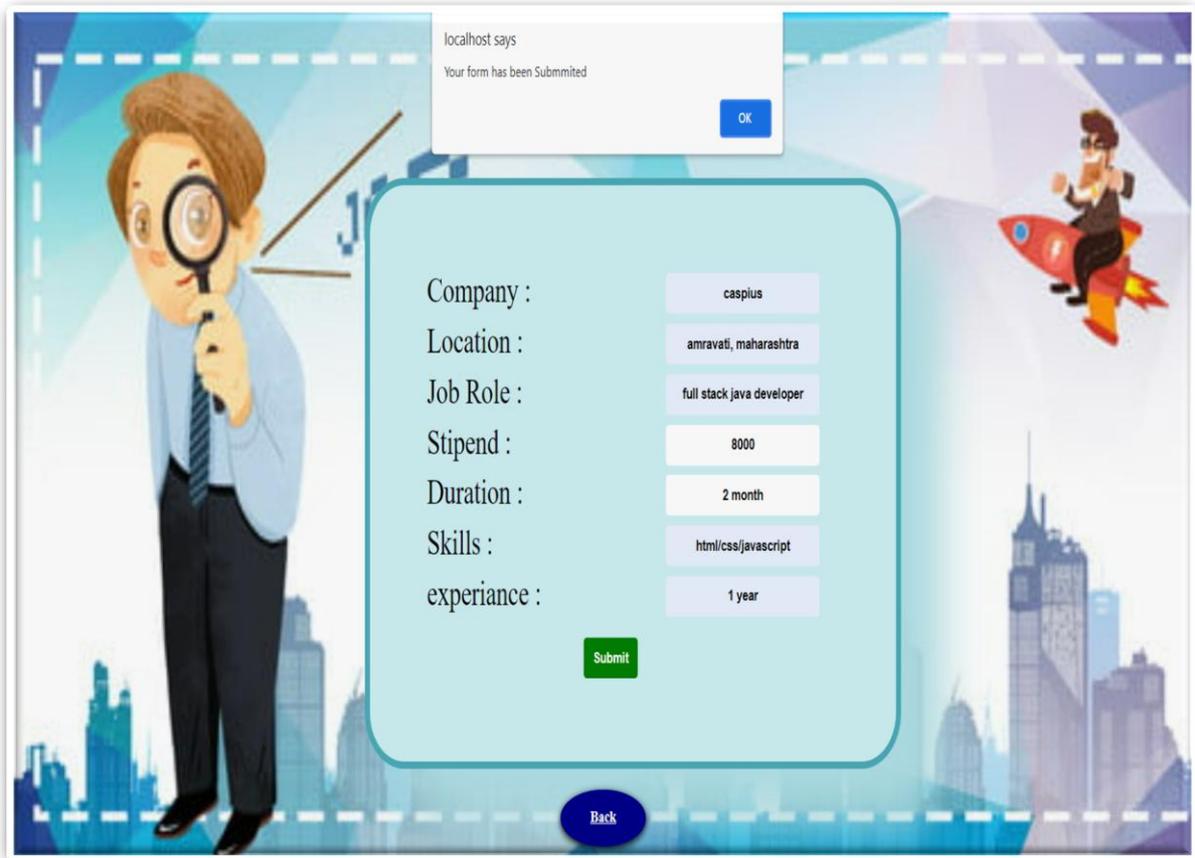
Designation :

Password :

Already have account? [Login](#)

[Homepage](#)





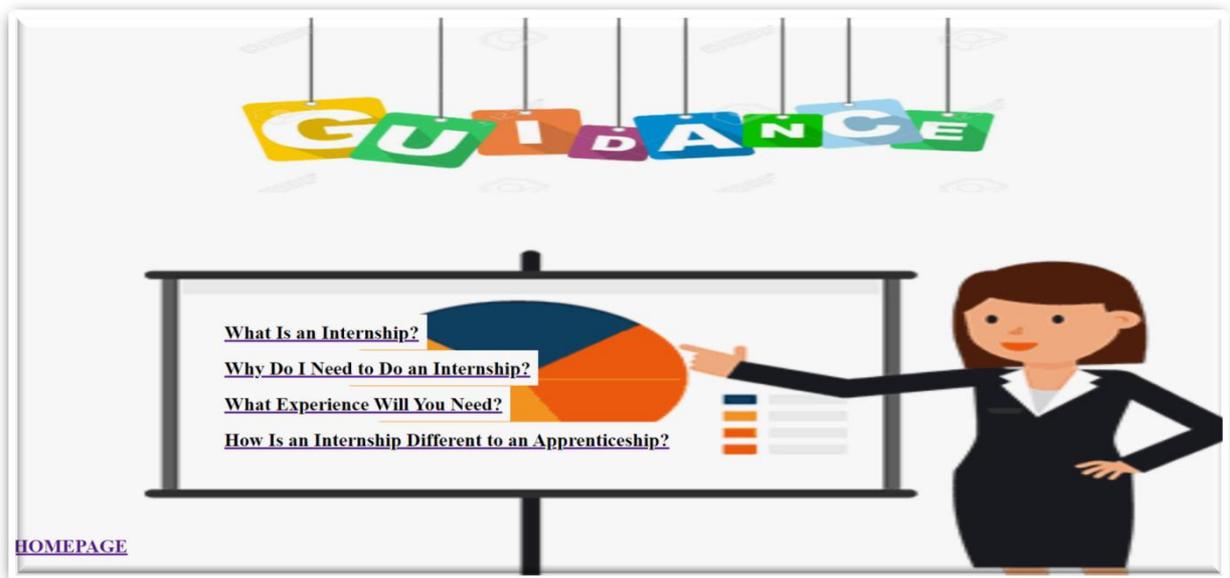
localhost says
Your form has been Submitted

OK

Company : caspius
Location : amravati, maharashtra
Job Role : full stack java developer
Stipend : 8000
Duration : 2 month
Skills : html/css/javascript
experience : 1 year

Submit

Back



GUIDANCE

[What Is an Internship?](#)

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What Is an Internship?

An internship is an opportunity offered by an employer to potential employees, called interns, to work at a firm for a fixed period of time. Interns are usually undergraduates or students, and most internships between month and three months. Internships are usually part-time if offered during a university semester and full-time if offered during the vacation periods. Summer internships usually last for eight weeks. Some internships may include periods spent abroad, on secondment, or in more than one office. An internship should give you practical skills, experience and greater knowledge of an industry, in exchange for the employer benefiting from your labour. With the emphasis firmly on training, internships give students real-life experience of the workplace and field they hope to break into. An internship can be either paid or voluntary. The trend is increasingly (and rightly) towards the former, as voluntary internships are often cited as exploitative. As you would expect, internships that pay well are usually the most competitive.

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Why Do I Need to Do an Internship?

As the statistics above indicate, having a good degree is no longer enough. As a result, more and more university leavers are looking for additional experience to give them the edge when applying for graduate schemes or positions. While bulking up your CV with extra-curricular activities is nothing new, the sheer number of graduates entering the job market each year means that relevant, work-related experience is now a vital addition to your application. In many cases, one of the best and most accessible ways of gaining this experience is through an internship. It's worth noting you may also gain valuable insights and experience through an externship, which involves shadowing a professional for a certain period of time. However, externships tend to be shorter and less hands-on than internships.

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What Experience Will You Need?

Although employers will not expect you to have previous work experience, they will look at the skills that you have obtained via your studies. So, what should you mention if you don't have regular work experience? Here are some ideas: Volunteering is an excellent way to build your experience. Don't think about the work being unpaid; think of it as a means to an end and an effective way to develop your skills and build your network. There are lots of part-time jobs that you can do in between your studies. Don't worry too much about the type of job that you get at this stage; it is the experience and transferable skills that the internship recruiter will be looking for. By joining student groups such as business clubs, associations or community groups, you can develop skills that employers look for. If you don't want to get a part-time job, freelancing is always an option, particularly in creative industries where you can build your portfolio and develop a variety of skills from marketing through to finance.

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How Is an Internship Different to an Apprenticeship?

It is important to differentiate between an internship and an apprenticeship, since they offer quite different experiences. An apprenticeship is a dedicated vocational programme that combines work-based training and study towards an NVQ (National Vocational Qualification) or foundation degree. Apprentices usually spend four days a week with their employer and then a day in the training centre, where they will work on building their portfolio to achieve their NVQ. Traditionally, apprenticeships were reserved to trade occupations such as construction or planning. More recently, apprenticeships are offered in an increasing number of industries, from accountancy to marketing. Apprenticeships can be a valuable route into employment, as apprentices often stay with their employer once they complete their vocational training, naturally progressing into a more senior role. Perhaps most importantly, an apprenticeship is a paid programme where you will earn at least the national minimum wage or apprenticeship rate depending on your age. Typically, an apprenticeship will last between 12 and 18 months, though this depends on the level of the qualification.

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5.Detailed description of technology used:

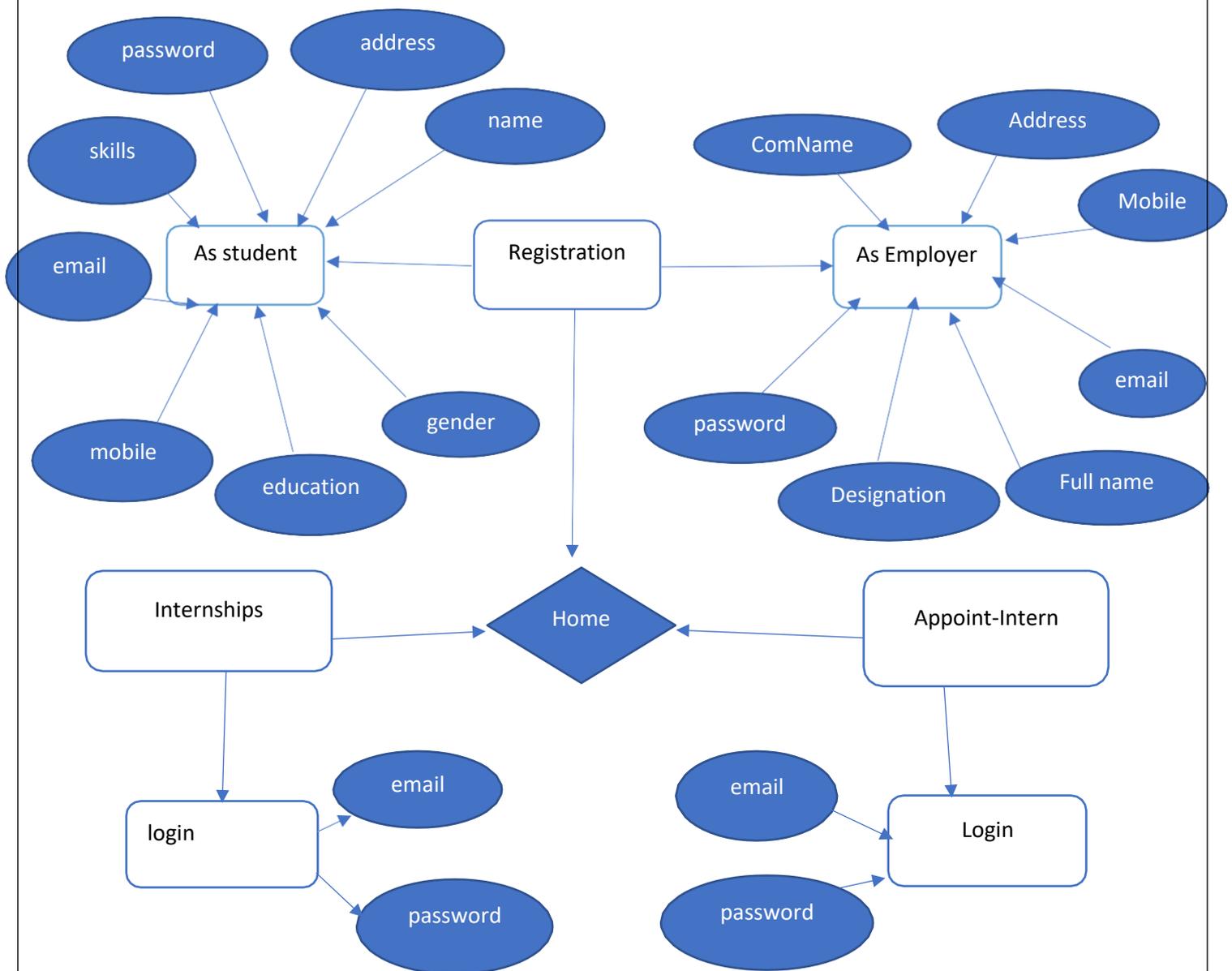
- Database → MySQL
- Frontend → HTML, CSS, JS,Bootstrap
- Backend → Python

6. Requirements:

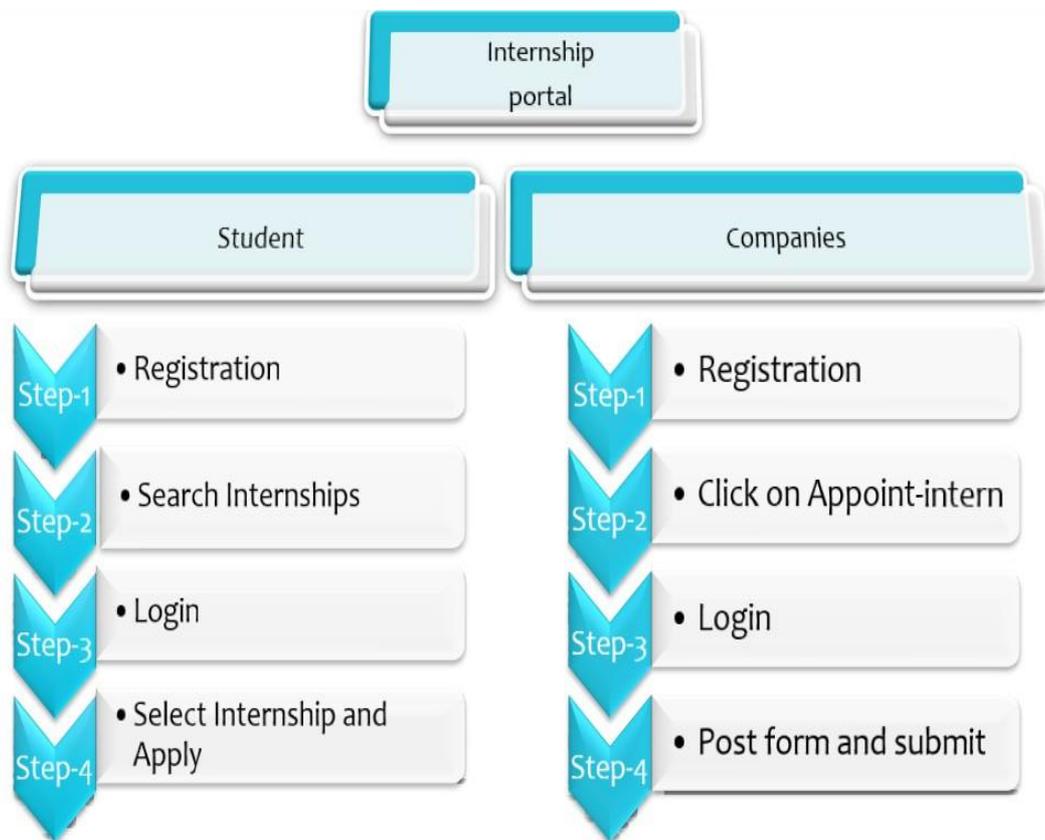
- Hardware
 - Operating System → 64/32 bits
 - Ram → 4gb or above
 - Processor → Any generation, AMD etc.
 - HDD/SSD → At least 500gb

- Software
 - MySQL –for database
 - Visual Studio Code –for overall project
 - XAMPP – as server

7.ER Diagram:



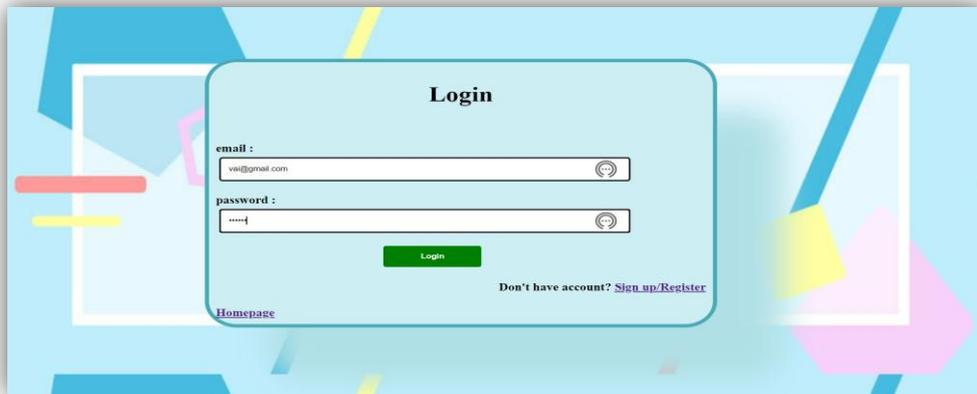
8.Data Flow Diagram (DFD) :



9.Future Scope :--

- An Internship Provides Real Life Experience and Exposure
- The Opportunity To Learn More About Yourself
- Get Connected and Develop Your Professional Network
- Prevent CV From Going To The Trash
- Transition Into A Full-Time Position

10. Testing Report :



Login :

- When accessing portal login page run Successfully
- After entering correct credentials one can enter to the next page



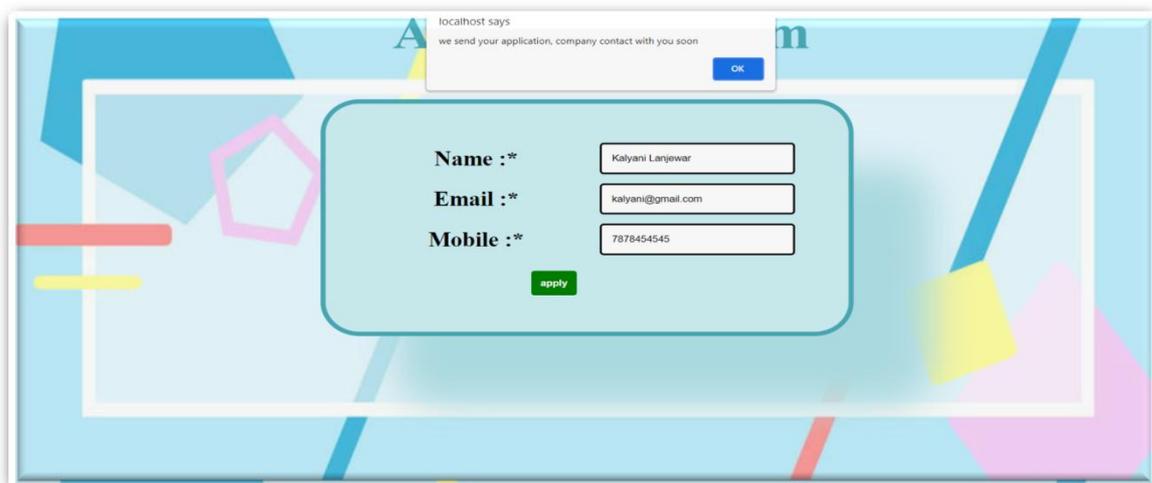
- To apply
- Click on apply and redirect to internships
- Click on back button to go homepage



The screenshot displays a web interface titled "INTERNSHIPS". It features a table with the following columns: Company Name, Location, Job Role, Stipend, Duration, Technical Skills, Experience, and a column with an "apply" button. Below the table are two buttons: "-->Back" and "Home".

Company Name	Location	Job Role	Stipend	Duration	Technical Skills	Experience
Unicornready	pune, maharashtra	java developer	5000 per month	None	core and advance java	fresher	<input type="button" value="apply"/>
cordi privert limited	pune, maharashtra	python developer	2000 per month	None	data Science, analysis	1 year	<input type="button" value="apply"/>
Unicornready	amravati, maharashtra	web developer	null	None	html/css/javascript	fresher	<input type="button" value="apply"/>
ercel group	delhi,UP	full stack java developer	6000	None	None	None	<input type="button" value="apply"/>

- Display Internship
- Select the internship which you want to apply



The screenshot shows a web form for applying to an internship. The form fields are: Name :*, Email :*, and Mobile :*. The values entered are: Kalyani Lanjewar, kalyani@gmail.com, and 7878454545. A green "apply" button is visible. A modal dialog box is open on top, displaying the text: "localhost says we send your application, company contact with you soon" and an "OK" button.

- Apply
- Fill the application form and apply

employer Registration

Full Name* :

Company_name :

Email* :

Mobile No* :

Address* :

Designation :

Password :

[Already have account? Login](#)

[Homepage](#)

The illustration shows a woman standing at a registration desk where another woman is working. A sign on the desk says "REGISTRATION".

- Step for the Employer Registration
- Fill the registration form and submit

localhost says
Your form has been Submitted

Company : caspius

Location : amravati, maharashtra

Job Role : full stack java developer

Stipend : 8000

Duration : 2 month

Skills : html/css/javascript

experiance : 1 year

The illustration features a man with a magnifying glass on the left and a man flying a rocket on the right, set against a city skyline background.

- Post Form
- Fill the post form and submit

11. Drawbacks and Limitations

- Our portal will not be responsible for any invalid information mentioned by employer/student.
- We are not sure about the verification process regarding to application whether it is send by student or employer
- You can only apply for the internship if you are student and the further process regarding allocation of particular internship you want to join will not be handle by our portal
- In Our portal companies will able to post forms only.

12. Conclusion :

conclusion, this internship has been a very useful experience for me. I can safely say that my understanding of the job environment has increased greatly. However, I do think that there are some aspects of the job that I could have done better and that I need to work on. I need to build more confidence in applying accounting principles. I realized that I could have completed the work earlier than I did. Also, the technical parts of the job were a bit flawed and I was asked multiple times to I realized that I could have completed the work earlier than I did. Also, the technical parts of the job were a bit flawed and I was asked multiple times to correct it. The two main things that I learned after my experience in this firm are the importance of time management and being self-motivated.

13. REFERENCE :

- <https://www.python.org/>
- www.google.com
- <https://www.w3schools.com/>