

A

**PROJECT REPORT ON**

**"Automatic Vehicle Accident Detection and Messaging System"**

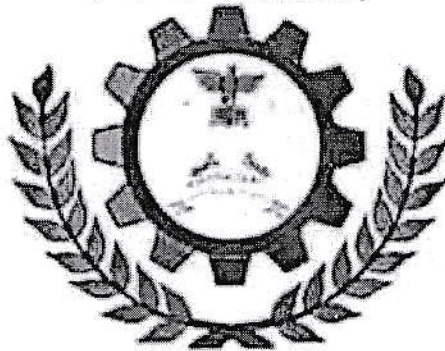
A Project report submitted in partial fulfilment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**"ELECTRONICS AND COMMUNICATION ENGINEERING"**

**(BATCH 2019-2023)**



Submitted to:

**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS  
(AFFILIATED TO JHARKHAND UNIVERSITY OF TECHNOLOGY)  
NATIONAL HIGHWAY 32, KANDRA, CHAS, BOKARO JHARKHAND 827013**

Under the guidance of

**PROF. ROHIT VERMA  
PROF. SALIM AHMAD**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

Submitted By

<b>NAME OF THE STUDENT</b>	<b>REGISTRATION NO.</b>
<b>PUJA KUMARI</b>	<b>19031465003</b>
<b>KOUSHIK MANDAL</b>	<b>19031460002</b>
<b>AFTAB HUSSAIN ANSARI</b>	<b>19031460001</b>

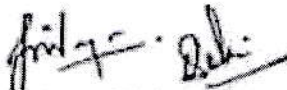


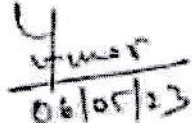
*Pur*  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

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## CERTIFICATE OF APPROVAL

This is to certify that the Project entitled "Automatic Vehicle Accident Detection and Messaging System" Submitted to Guru Govind Singh Education Society's Technical Campus Kandra Jharkhand in the Department of ELECTRONICS AND COMMUNICATION by PUJA KUMARI, KOUSHIK MANDAL, AFTAB HUSSAIN ANSARI in partial fulfilment of the requirement for B. tech 8th semester for the award of the Degree of Bachelor of Technology (B. Tech) in. Technology, Ranchi. Under the Jharkhand University of Technology, Ranchi.

  
Signature of the Guide


  
Signature of HOD

  
Signature  
External Examiner

Prof. Rohit Verma

Prof. Goutam Kumar Prof. \_\_\_\_\_

Prof. Salim Ahmad

  
Dr. Priyadarshi Jaruhar  
Director, GGSESTC



  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

A

**PROJECT REPORT ON**

**"Automatic Vehicle Accident Detection and Messaging System"**

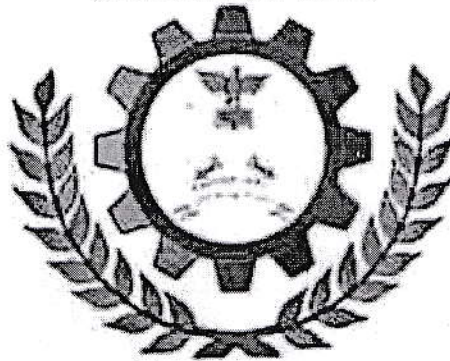
A Project report submitted in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**"ELECTRONICS AND COMMUNICATION ENGINEERING"**

**(BATCH 2019-2023)**



Submitted to:

**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS  
(AFFILIATED TO JHARKHAND UNIVERSITY OF TECHNOLOGY)  
NATIONAL HIGHWAY 32, KANDRA, CHAS, BOKARO JHARKHAND 827013**

Under the guidance of

**PROF. ROHIT VERMA**

**PROF. SALIM AHMAD**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

Submitted By

<b>NAME OF THE STUDENT</b>	<b>REGISTRATION NO.</b>
<b>PUJA KUMARI</b>	<b>19031465003</b>
<b>KOUSHIK MANDAL</b>	<b>19031460002</b>
<b>AFTAB HUSSAIN ANSARI</b>	<b>19031460001</b>



**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

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## CERTIFICATE OF APPROVAL

The foregoing thesis entitled "Speed Limiting System Based on Alcohol Detection" is approved as a credited as a credible engineering study to be carried out and presented in a satisfactory manner in partial fulfilment of the requirements for the degree of Bachelor of Technology in the field of Electronics and Communication engineering.

It is to state that mere idea is approved as the thesis for the purpose and the undersigned do not endorse any conclusions or declaration on the work done.

*Y. Jais*  
01/06/22

HEAD OF THE DEPARTMENT

.....

*[Signature]*

INTERNAL EXAMINER

.....

*[Signature]*

EXTERNAL EXAMINER



*[Signature]*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

**"Speed Limiting System Based on Alcohol Detection"**

A

Project

Submitted in partial fulfillment of the requirement for the degree of

**Bachelor of Technology**

In

**Electronics and Communication Engineering**

**Session: 2018-2022**

**Submitted to**



**Guru Gobind Singh Educational Society's Technical Campus**

**Kandra, Chas (Bokaro)**

**Jharkhand University of Technology, Ranchi, Jharkhand**

**Under the guidance of**

**Prof. Sallim Ahmad**

**Department of Electronics and Communication Engineering**

**Submitted By:**

**Name of the Students**

**Manish Kumar Singh**

**Rupa Kumari**

**Srishti Singh**

**Vaishnavi Kumari**

**University Registration No.**

**18031460005**

**18031460008**

**18031460010**

**18031460011**



**DIRECTOR**  
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**Bokaro, Jharkhand-827013**

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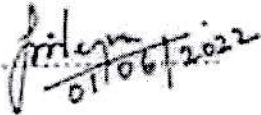
## CERTIFICATE OF APPROVAL

The foregoing project report entitled "SOLAR TRACKER SYSTEM USING ARDUINO AND LDR" is approved as a credited as a credible engineering study to be carried out and presented in a satisfactory manner in partial fulfilment of the requirements for the degree of Bachelor of Technology in the field of Electronics and Communication engineering.

It is to state that mere idea is approved as the project report for the purpose and the undersigned do not endorse any conclusions or declaration on the work done.

**Mr. Rohit Verma**

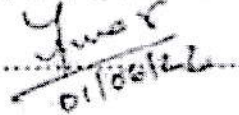
Asst. Professor,  
Department of ECE  
G.G.S.E.S.T.C  
Bokaro, Jharkhand

  
01/06/2022

(Signature)

**Mr. Goutam Kumar**


H.O. D  
Department of ECE  
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Bokaro, Jharkhand

  
01/06/2022

(Signature)

**External Examiner**

(Electronics and Communication Engineering)

  
.....  
(Signature)

  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-8.



**"SOLAR TRACKER SYSTEM USING ARDUINO AND LDR"**

**A  
Project**  
Submitted in partial fulfillment of the requirement for the degree of  
**Bachelor of Technology**  
**In**  
**Electronics and Communication Engineering**  
**Session: 2018-2022**  
**Submitted to**



**Guru Gobind Singh Educational Society's Technical Campus  
Kandra, Chas (Bokaro)  
Jharkhand University of Technology, Ranchi, Jharkhand**

**Under the guidance of  
Prof. Rohit Verma  
Department of Electronics and Communication Engineering**

**Submitted By**

**Name of the Student**

**Anjali Kumari  
Komal Kumari  
Pratima Kumari**

**University Registration No.**

**18031460002  
18031460003  
18031465002**

  
**DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013**



**CERTIFICATE**

This is to certify that the major project entitled "LED / LASER COMMUNICATION SYSTEM" submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra (Jharkhand) in the Department of Electronics and Communication Engineering by Student Name with roll no. in a partial fulfilment of the requirements for the award of the degree of Bachelor of Technology (B. tech) Degree in Electronics And Communication Engineering.

*Y. Kumar*  
*01/06/22*

HEAD OF DEPARTMENT  
Prof. Goutam Kumar  
GGSESTC Chas, Bokaro.

*Y. Kumar*  
*01/06/22*

GUIDED BY  
Prof. Goutam Kumar  
GGSESTC Chas, Bokaro.

*P. S.*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





A  
PROJECT REPORT ON  
"Laser/Led Communication System"

---

*A Project report submitted in partial fulfilment of the  
requirements for the award of the degree of*

BACHELOR OF TECHNOLOGY  
IN  
"ELECTRONICS AND COMMUNICATION ENGINEERING"



Submitted by:

o MD FARYAD ALAM                      18031465001  
o SHALINI DEY                              18031460009  
o NIDHI KUMARI                          18031460007  
(SESSION 2018-22)

Under the guidance of  
**PROF. GOUTAM KUMAR**  
(H.O.D)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS**  
(AFFILIATED TO JHARKHAND UNIVERSITY OF TECHNOLOGY)

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# CERTIFICATE OF APPROVAL

This is to certify that the work presented in the report entitle the "THE THIRD EYE FOR BLIND" in partial fulfilment of the requirements for the award of Degree of "Bachelor of Technology" in "Electronics & Communication Engineering of Guru Gobind Singh Educational Society's Technical Campus, Kandra (Chas) Bokaro, Jharkhand is an authentic work carried out under my supervision and guidance. To the best of my knowledge, the content of this report does not form a basis for the award of any previous Degree to anyone else.

*June 15*  
*21/06/22*

HEAD OF THE DEPARTMENT

INTERNAL EXAMINER

*[Signature]*  
*21/06/2022*

EXTERNAL EXAMINER

*[Signature]*

*[Signature]*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-834013

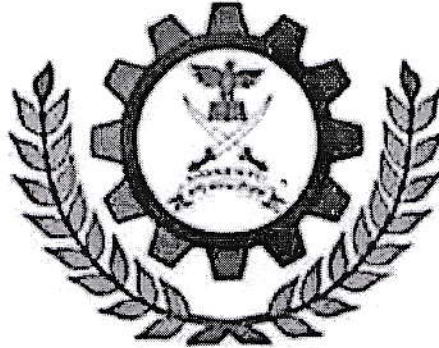


A  
PROJECT REPORT ON  
"THE THIRD EYE FOR BLIND"

---

A Project report submitted in partial fulfilment of therequirements for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN  
"ELECTRONICS AND COMMUNICATION ENGINEERING"  
(BATCH 2018-22)



Submitted to:

GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS  
(AFFILIATED TO JHARKHAND UNIVERSITY OF TECHNOLOGY)  
NATIONAL HIGHWAY 32, KANDRA, CHAS, BOKARO JHARKHAND 827013

Under the guidance of

**PROF. SUSHMA KUMARI**  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
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Submitted By

NAME OF THE STUDENT	REGISTRATION NO.
ROSHAN KUMAR PRASAD	18031465004
RUKMINI KUMARI	18031465005
MAMTA KUMARI	18031460004

  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



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**CERTIFICATE OF APPROVAL**

The forgoing thesis entitled "AN ULTRASONIC RADAR SYSTEM FOR DETECTION OF VEHICLE SPEED" is hereby approved as a creditable study of research topic and has been presented in satisfactory manner to warrant its acceptance as per requisite to the degree for which it has been submitted.

It is understood that by approval, the undersigned do not necessarily endorse any conclusion drawn or opinion expressed thesis, but approve the thesis for the purpose for which it has been submitted.

*[Handwritten Signature]*

HEAD OF THE DEPARTMENT

HOE, EOE Department  
GGSESTC Technical Campus  
Kandra, Chas, Bokaro

*[Handwritten Signature]*

INTERNAL EXAMINER

EXTERNAL EXAMINER

*[Handwritten Signature]*

DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**"PORTABLE ULTRASONIC RADAR FOR DETECTION OF VEHICLE  
SPEED"**

Submitted in the partial fulfillment of the requirement for the award of degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**"ELECTRONICS & COMMUNICATION ENGINEERING"**

**SESSION: 2017-2021**

Submitted to



**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL  
CAMPUS, CHAS (BOKARO)**

Under the Guidance of

**Prof. Sushma Kumari**

Department of Electronics & Communication Engineering

Submitted by

**NAME OF STUDENT**

Preeti Mahato

Tanya Singh

Sudhanshu Ranjan

Pinky Kumari

**ROLL NUMBER**

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**DIRECTOR**

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Bokaro, Jharkhand-827013**



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# CERTIFICATE OF APPROVAL

The forgoing thesis entitled "EARLY FLOOD DETECTION USING IOT" is hereby approved as a creditable study of research topic and has been presented in satisfactory manner to warrant its acceptance as per requisite to the degree for which it has been submitted.

It is understood that by approval, the undersigned do not necessarily endorse any conclusion drawn or opinion expressed thesis, but approve the thesis for the purpose for which it has been submitted.



.....  
HEAD OF DEPARTMENT



.....  
INTERNAL EXAMINER

.....  
EXTERNAL EXAMINER



DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkh



# "Early Flood Detection Using IoT"

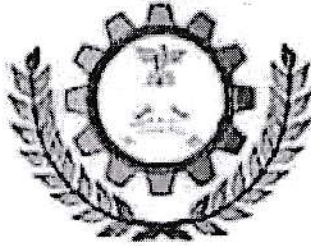
Submitted in the partial fulfilment of the requirement for the award of degree of  
**BACHELOR OF TECHNOLOGY**

In

**Electronics and Communication**

**SESSION: 2017-2021**

Submitted to



**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL  
CAMPUS, CHAS (BOKARO)**

Under the Guidance of

**Prof. Salim Ahmad**

&

**Prof. Binita Kumari**

**Department of Electronics & Communication Engineering**

Submitted by

**NAME OF STUDENTS**

**ROLL NUMBER**

Md. Saddam Hussain

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Md. Aadil

17406003

Nazia Arfeen

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Nishant Shekhar

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Zahid Iqbal

17406019

  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



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## CERTIFICATE OF APPROVAL

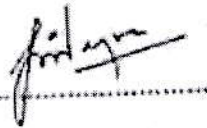
The forgoing thesis entitled "SMART CAR PARKING SYSTEM" is hereby approved as a creditable study of research topic and has been presented in satisfactory manner to warrant its acceptance as per requisite to the degree for which it has been submitted.

It is understood that by approval, the undersigned do not necessarily endorse any conclusion drawn or opinion expressed thesis, but approve the thesis for the purpose for which it has been submitted.



.....  
HEAD OF DEPARTMENT

HOD, DCE Department  
GGSESTC, Kandra, Chas  
Kandra, Chas, Bokaro



.....  
INTERNAL EXAMINER

.....  
EXTERNAL EXAMINER



DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





# "SMART CAR PARKING SYSTEM"

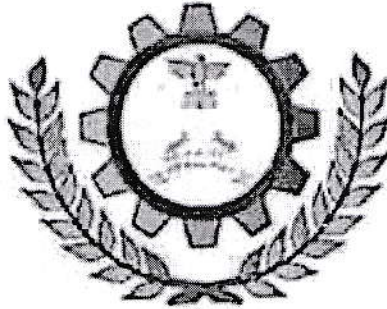
Submitted in the partial fulfilment of the requirement for the award of degree of  
BACHELOR OF TECHNOLOGY

In

Electronics and Communication

SESSION: 2017-2021

Submitted to



GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL  
CAMPUS, CHAS (BOKARO)

Under the Guidance of

PROF. ROHIT VERMA

Department of Electronics & Communication Engineering

Submitted by

NAME

UNIVERSITY ROLL NO.

SATYAM KUMAR

17406013

RAVINDRA YADAV

17406010

RAKESH KR MANDAL

17406009

JULI KUMARI

18406002D

  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



## CERTIFICATE OF APPROVAL

The foregoing project report entitled "Obstacle Avoidance and Voice Control Car" is hereby approved as a creditable study of topic and has been presented in satisfactory manner to warrant its acceptance as pre requisite to the Engineering for which it has been submitted.

It is understand that by this approval the undersigned do not necessarily endorse any conclusion drawn or opinion expressed therein, but approve the project report for which it is submitted.

Guide Yuvraj

External Examiner .....

Head of Department Yuvraj

Principal .....

HOOD, ECE & INFORMATION  
ENGINEERING COLLEGE  
BOKARO, JHARKHAND

Re  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



A Project Report  
on  
**VOICE RECOGNITION AND OBSTACLE DETECTION VEHICLE**

*Submitted in partial fulfilment of the*

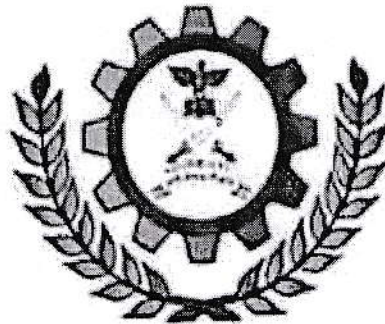
*Requirement for the award*

*of*

**B. TECH**

*In*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL  
CAMPUS, KANRA, CHAS-827013, JHARKHAND(INDIA)**

**SESSION-2017-2021**

Under the guidance of

**Mr. GOUTAM KUMAR**

*Submitted by*

HARSH KUMAR SAHA (Roll no.17406002)

UNNATI SINGH (Roll no.17406017)

VIJAY KUMAR (Roll no.17406018)

AMBIKA KUMARI (Roll no.18406003D)



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

## Certificate of Approval

The foregoing thesis entitled "Electronic Speaking Gloves for Mute Using Microcontroller" is approved as a credited as a credible engineering study to be carried out and presented in a satisfactory manner in partial fulfilment of the requirements for the degree of Bachelor of Technology in the field of Electronics and Communication Engineering.

It is to state that mere idea is approved as the thesis for the purpose and the undersigned do not endorse any conclusions or declaration on the work done.

Miss. Sushma Kumari  
Asst. Professor,  
Department of ECE  
G.G.S.E.S.T.C  
Bokaro, Jharkhand

Miss Puja Kumari  
Asst. Professor,  
Department of ECE  
G.G.S.E.S.T.C  
Bokaro, Jharkhand

.....  
(Signature)

.....  
(Signature)

Mr. Goutam Kumar  
H.O.D  
Department of ECE  
G.G.S.E.S.T.C  
Bokaro, Jharkhand

External

  
.....  
(Signature)

  
.....  
(Signature)

  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**"Electronics Speaking Gloves for Mute Person"**

A

**Project**

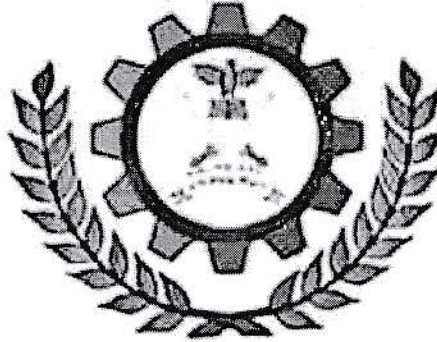
Submitted in the fulfillment of the requirement for the award of the degree of  
**Bachelor of Technology**

In

**Electronics and Communication Engineering**

**Session: 2016-2020**

**Submitted to**



**Guru Gobind Singh Educational Society's Technical Campus  
Kandra, Chas (Bokaro)  
Vinoba Bhave University, Hazaribagh, Jharkhand**

Under the guidance of  
**Prof. Sushma Kumari**

**&**

**Prof. Puja Kumari**

**Department of Electronics and Communication Engineering**

**Submitted By**

**Student's Name**

**Roll No**

**Lalit Prakash**

**16406001**

**Sushma Kumari Kalindi**

**16406011**

**Utkarsh**

**16406012**



**DIRECTOR**  
**GGSESTC, Kandra, Chas**  
**Bokaro, Jharkhand-827013**

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**CERTIFICATE OF APPROVAL**

The forgoing thesis entitled "Smart Healthcare Monitoring System Based on IoT"

is hereby approved as a creditable study of research topic and has been presented in satisfactory manner to warrant its acceptance as per requisite to the degree for which it has been submitted.

It is understood that by approval, the undersigned do not necessarily endorse any conclusion drawn or opinion expressed thesis, but approve the thesis for the purpose for which it has been submitted.

*[Handwritten Signature]*

.....

.....

**HEAD OF DEPARTMENT**

**INTERNAL EXAMINER**

*[Handwritten Signature]*

.....

**EXTERNAL EXAMINER**

*[Handwritten Signature]*

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



"Smart Healthcare Monitoring System Based on IoT"

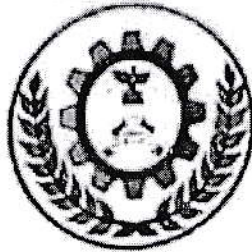
A DISSERTATION

Submitted in the partial fulfilment of the requirement for the award of degree of

BACHELOR OF TECHNOLOGY  
In  
Electronics and Communication

SESSION: 2016-2020

Submitted to



GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS, CHAS (BOKARO)

Under the Guidance of

Proff. Goutam Kumar

&

Proff. Rohit Varma

Department of Electronics & Communication Engineering

Submitted by

NAME OF STUDENTS

ROLL NUMBER

Pratima Kumari  
Priya Lakshmi  
Saquib Nesar  
Shipra Mahato

16406005  
16406006  
16406008  
16406009

DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-837013



## CERTIFICATE OF APPROVAL

The forgoing thesis entitled "IoT BASED LANDMINES DETECTOR ROBOT" is hereby approved as a creditable study of research topic and has been presented in satisfactory manner to warrant its acceptance as per requisite to the degree for which it has been submitted.

It is understood that by approval, the undersigned do not necessarily endorse any conclusion drawn or opinion expressed thesis, but approve the thesis for the purpose for which it has been submitted.

*Yues*

.....  
HEAD OF DEPARTMENT

.....  
INTERNAL EXAMINER

*AA*

.....  
EXTERNAL EXAMINER

*h*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





# "IoT BASED LANDMINES DETECTOR ROBOT"

A DISSERTATION

*Submitted in the partial fulfilment of the requirement for the award of degree of*

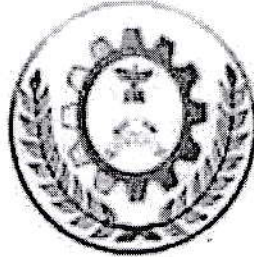
**BACHELOR OF TECHNOLOGY**

In

**Electronics and Communication**

**SESSION: 2016-2020**

Submitted to



**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS,**

**CHAS (BOKARO)**

Under the Guidance of

**Prof. Saleem Ahmed**

**&**

**Prof. Hursh Srivastava**

**Department of Electronics & Communication Engineering**

Submitted by

**NAME OF STUDENTS**

Md. Amir Ahmad

Sujata Jha

Saiman Ahmad

**ROLL NUMBER**

16406002

16406010

16406007

1

  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**CERTIFICATE OF APPROVAL**

The foregoing thesis entitled "AUTOMATIC IRRIGATION USING MICROCONTROLLER" is approved as a creditable study of research topic and the degree of which it has been submitted.

It is understood that by this approval, the understood do not necessarily endorse any conclusion drawn or opinion expressed there in but approve the synopsis for the purpose for which it is submitted.

**MR. GOUTAM KUMAR**

Asst. Professor,  
Department of ECE  
G.G.S.E.S.T.C  
BOKARO, JHARKHAND

*Goutam K*  
*31/05/19.*

(Signature)

**MR. ADITYA KR. NAGMANI**

HOD  
Department of ECE  
G.G.S.E.S.T.C  
BOKARO, JHARKHAND

.....

(Signature)

*Aditya K*

EXTERNAL

*lu*  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



# AUTOMATIC IRRIGATION USING MICROCONTROLLER

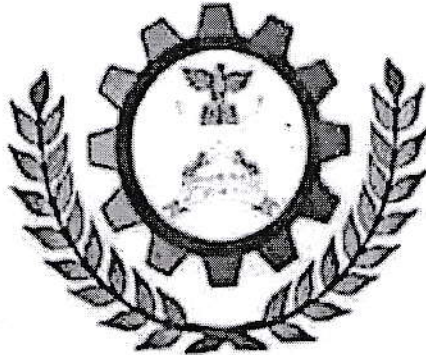
A DISSERTATION

submitted in partial fulfilment of the requirement for the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING



## Submitted By

ANITA KUMARI	15406001
KHUSHBU KUMARI	15406005
NIKITA DWIVEDI	15406010
NEETU KUMARI	15406009
SANJEEV KUMAR	15406014

Under the guidance of

**MR. GOUTAM KUMAR**

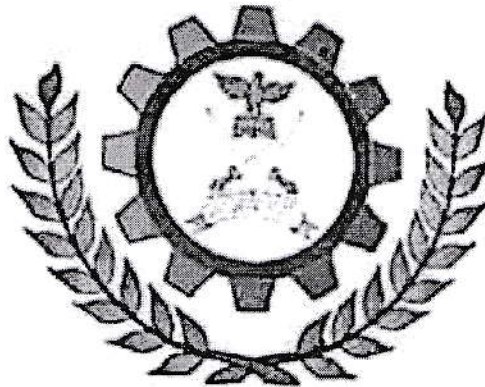
Asst. Professor,  
Department of Electronics and Communication Engineering  
GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS,  
BOKARO, JHARKHAND  
VINOBA BHAVE UNIVERSITY, HAZARIBAGH  
(2015-2019)



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

**ELECTRONICS & COMMUNICATION  
DEPARTMENT**

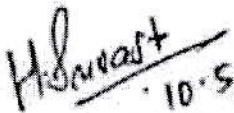
**GGSESTC**





**CERTIFICATE**

This is to certify that the thesis entitled "Wireless Notice Board Using GSM and ARDUINO UNO" being submitted by ANUBHAV KUMAR (U. ROLL NO.-15406002), AVINASH KUMAR DHAR (U. ROLL NO.-15406003), HARPAL SINGH (U. ROLL NO.-15406004), ROHIT KUMAR (U. ROLL NO.-15406012)" in the partial fulfilment of the requirement for the award of Bachelor Of Technology degree in Electronics & Communication at G.G.S.E.S.T.C Bokaro, Kandra of V.B.U Hazaribagh, is an authentic work carried out by them under my super vision and guidance.

To the best of my knowledge, the matter embodied in the thesis has not been submitted to any other university/institute for the award of my degree or diploma.

SIGNATURE :   
PROJECT GUIDE : Mr. HARSH SRIVASTAVA  
(Prof.)  
Department of ECE  
GGSESTC BOKARO

SIGNATURE :   
PROJECT INCHARGE : Mr. ADITYA K NAGMANI  
(H.O.D.)  
Department of ECE  
GGSESTC BOKARO

SIGNATURE :   
PROJECT GUIDE : Mrs. BINITA KUMARI  
(Prof.)  
Department of ECE  
GGSESTC BOKARO



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

**WIRELESS NOTICE BOARD USING GSM & ARDUINO**

**A THESIS SUBMITTED IN PARTIAL FULFILMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by:

**ANUBHAV KUMAR**

**(U. ROLL NO.-15406002)**

**AVINASH KUMAR DHAR**

**(U. ROLL NO.-15406003)**

**HARPAL SINGH**

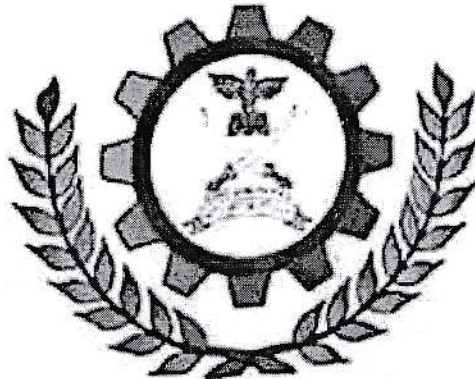
**(U. ROLL NO.-15406004)**

**ROHIT KUMAR**

**(U. ROLL NO.-15406012)**

Under the guidance of

**Prof. Mr. HARSH SRIVASTAVA & Prof. Mrs. BINITA KUMARI**



**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL**

**CAMPUS, KANDRA, CHAS, BOKARO**

**SESSION: 2015-2019**



**DIRECTOR**  
**GGSESTC, Kandara, Chas**  
**Bokaro, Jharkhand-827013**

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**WIRELESS NOTICE BOARD USING GSM & ARDUINO**

**A THESIS SUBMITTED IN PARTIAL FULFILMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by:

**ANUBHAV KUMAR**

**(U. ROLL NO.-15406002)**

**AVINASH KUMAR DHAR**

**(U. ROLL NO.-15406003)**

**HARPAL SINGH**

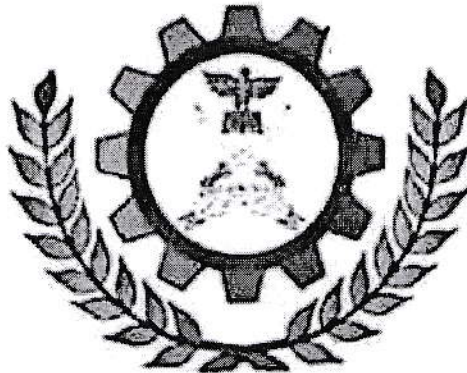
**(U. ROLL NO.-15406004)**

**ROHIT KUMAR**

**(U. ROLL NO.-15406012)**

Under the guidance of

**Prof. Mr. HARSH SRIVASTAVA & Prof. Mrs. BINITA KUMARI**



**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL  
CAMPUS, KANDRA, CHAS, BOKARO**

**SESSION: 2015-2019**

*Pan*  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



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## CERTIFICATE

This is to certify that the work presented in the report entitled the "DATA TRANSMISSION USING Li-Fi" in partial fulfillment of the requirement for the award of Degree of "Bachelor of Technology" in "Electronics & communication Engineering" of Guru Gobind Singh Educational Society's Technical Campus, Kandra (Chas) Bokaro, Jharkhand is an authentic work carried out under my supervision and guidance.

To the best of my knowledge, the content of this report does not form a basis for the award of any previous Degree to anyone else.

*Neeharika*  
8/5/19

Mrs. Neeharika Bakhla

Asst.prof.

(Project guide)

*Sushma Kumari*  
24/05/2019

Miss. Sushma kumari

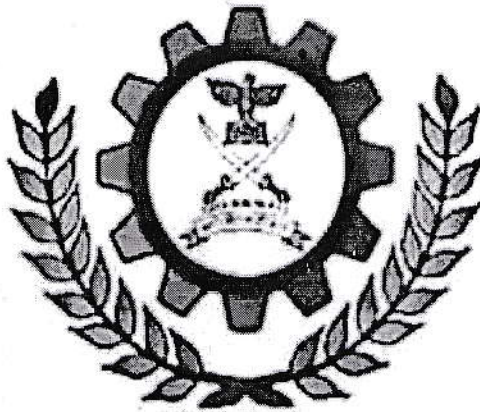
Asst.prof.

(Project guide)

*Pu*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**A PROJECT REPORT**  
**ON**  
**DATA TRANSMISSION USING LI-FI**  
Submitted in partial fulfillment of the  
Requirements for the award of the Degree of  
**BACHELOR OF TECHNOLOGY**  
**IN**  
**ELECTRONICS AND COMMUNICATION ENGINEERING**



**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS**

**KANDRA (V), CHAS, BOKARO**

**SESSION: 2015-2019**

**BY**

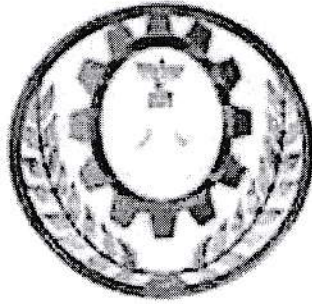
1. ABHISHEK SHARMA (U.ROLL NO.-154D6017)
2. SHREYSI SUBHRA (U.ROLL NO.-15406015)
3. NISHI KUMARI (U.ROLL NO.-154D6019)
4. SUMITRA TUDU (U.ROLL NO.-154D6021)
5. MAMTA SOREN (U.ROLL NO.-15406006)



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

Scanned with CamScanner





## CERTIFICATE

This is to certify that this thesis entitled "Anti-Crime Device with GPS Tracking and Alerts" submitted by Md. Nayyar Alam (15406008), Md. Abid Ali Ansari (15406007), Raj Laxmi (15406020), Ruby Kumari (15406013), Ravi Vikas Hansda (15406011) in the partial fulfilment of the requirements for the award of Bachelor of Technology degree in Electronics & Communication at Guru Gobind Singh Educational Society's Technical campus, Kandra, Bokaro of VBU, HAZARIBAGH, is an authentic work carried out by them under my supervision and guidance.

To the best of my knowledge, the matter embodied in the thesis has not been submitted to any other University/Institute for the award of my Degree or Diploma.

PROJECT GUIDE:

Mr. Salim Ahmad

Mr. Aditya Kumar Nagmani

(Department of ECE)

(GGSESTC BOKARO)

Mr. Aditya Kumar Nagmani  
(HOD of Department)

(GGSESTC BOKARO)

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



# ANTI-CRIME DEVICE WITH GPS TRACKING AND ALERTS

A THESIS SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE  
DEGREE OF

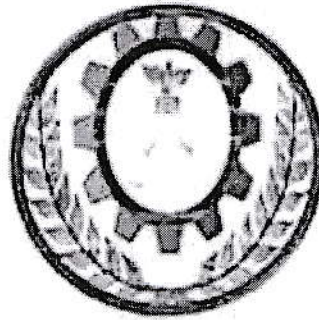
BACHELOR OF TECHNOLOGY

IN

ELECTRONICS & COMMUNICATION ENGINEERING

SUBMITTED BY

MD NAYYAR ALAM	15406008
MD ABID ALI ANSARI	15406007
RAJ LAXMI	154D6020
RUBY KUMARI	15406013
RAVI VIKAS HANSDA	15406011



GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS  
BOKARO, JHARKHAND  
AFFILLATED VINOBA BHAVE UNIVERSITY

UNDER THE GUIDANCE OF  
MR. SALIM AHMAD & MR. ADITYA KUMAR NAGMANI  
ASST.PROFESSOR, DEPARTMENT OF ELECTRONICS & COMMUNICATION

BATCH: 2015-2019



  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



### CERTIFICATE

This is to certify that the Major Project entitled "Face Mask Detection System" submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra (Jharkhand) in the Department of Computer Science & Engineering by Amit Kumar Sharma (18031445003), Anirban Chatterjee (18031445004), Kumar Kushagra (18031440014), Shivam Kumar Sharma (18031440028), Bhramdev Pandey (18031440008) in a partial fulfilment of the requirements for the award of the degree of Bachelor of Technology (B. tech) Degree in Computer Science & Engineering.

*Ban*  
3/06/22  
Prof. Bhaskra Nand  
(Head of CSE Department)

*Md. Hussain*  
Prof. Md Hussain Ansari  
(Project Advisor)

*h*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**Face Mask Detection System**

***Major Project Report***

***Submitted in partial fulfillment of the  
requirements for the award of the Degree of***

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE & ENGINEERING**

**BY**

**Amit Kumar Sharma (18031445003)**

**Anirban Chatterjee (18031445004)**

**Kumar Kushagra (18031440014)**

**Shivam Kumar Sharma (18031440028)**

**Bhramdev Pandey (18031440008)**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
GURU GOBIND SINGH EDUCATIONAL SOCIETY'S  
TECHNICAL CAMPUS**

**CHAS-827013, BOKARO**

**MAY 2022**

  
**DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013**



**Page 1 of 40**

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## CERTIFICATE

This is to certify that the Project entitled "DENSITY BASED SMART TRAFFIC CONTROL SYSTEM USING IR SENSOR" submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra (Jharkhand) in the Department Of Computer Science & Engineering by Priya Kumari Singh (17409009D) in a partial fulfilment of the requirements for the award of the degree of Bachelor of Technology (B. tech) Degree in Computer Science & Engineering.

*[Signature]*  
Prof. B. Jaisankar  
21/07/20

(Head of CSE Department)

*[Signature]*  
14/07/20  
Prof. Apurba Sinha

(Project Advisor)

*[Signature]*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**DENSITY BASED SMART TRAFFIC CONTROL SYSTEM**  
**USING IR SENSOR**

*Major Project Report*

*Submitted in partial fulfillment of the  
requirements for the award of the Degree of*

**BACHELOR OF TECHNOLOGY**  
**IN**  
**COMPUTER SCIENCE AND ENGINEERING**  
**BY**

Ajmeri Taj	- 16409005
Khushboo Kisku Rappaz	-16409019
Naila Eram	-16409030
Prerna Vishwakarma	- 16409033
Priya Kumari Singh	-17409009D



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**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S**  
**TECHNICAL CAMPUS**

**CHAS-827013, BOKARO**

**MAY 2020**



*Pme*

**DIRECTOR**  
**GGSESTC, Kandra, Chas**  
**Bokaro, Jharkhand-827013**

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## CERTIFICATE

This is to certify that the Major Project entitled "SMART ATM SECURITY SYSYTEM" submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra (Jharkhand) in the Department Of Computer Science & Engineering By Kumari Khushboo Rani (17409004D) in a partial fulfilment of the requirements for the award of the degree of Bachelor of Technology (B. tech) Degree in Computer Science & Engineering.

Prof. Bhaskar Nand  
(Head of CSE Department)

Prof. Bhaskar Nand  
(Project Advisor)

DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-



# SMART ATM SECURITY SYSTEM

*Major Project Report*

*Submitted in partial fulfillment of the  
requirements for the award of the Degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE & ENGINEERING**

**BY**

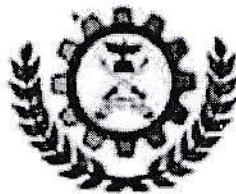
**SHIVANI PRIYADARSHANI (16409045)**

**SHANTI PRIYA (16409041)**

**SMITA KUMARI (16409046)**

**KUMARI SHWETA SWASTI (17409005D)**

**KUMARI KHUSHBOO RANI (17409004D)**



**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**

**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S**

**TECHNICAL CAMPUS**

**CHAS-827013, BOKARO**

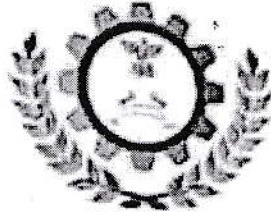
**MAY 2020**



**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013


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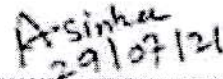




## CERTIFICATE

This is to certify that the Major Project entitled "Traffic Sign Classification using Convolutional Neural Network (CNN)" submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra (Jharkhand) in the Department Of Computer Science & Engineering by Kundan Kumar (17409018) in a partial fulfilment of the requirements for the award of the degree of Bachelor of Technology (B.Tech) Degree in Computer Science & Engineering.

  
.....  
Prof. Bhaskar Nand  
(Head of CSE Department)

  
.....  
Prof. Apurba Sinha  
(Project Advisor)

  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



# TRAFFIC SIGN CLASSIFICATION USING CONVOLUTIONAL NEURAL NETWORK (CNN)

*Major Project Report  
Submitted in partial fulfilment of the  
requirements for the award of the Degree of*

**BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE & ENGINEERING**



Submitted by

DEEPAK KUMAR	17409012
HARJOT SINGH	17409013
KUNDAN KUMAR	17409018
RAVI KUMAR	17409041

Under the guidance of  
Prof. Apurba Sinha

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

GURU GOBIND SINGH EDUCATIONAL SOCIETY'S  
TECHNICAL CAMPUS

CHAS-827013, BOKARO

JUNE 2021



  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

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## CERTIFICATE

This is to certify that the Major Project entitled "SIMULATION OF FACE MASK DETECTION USING MACHINE LEARNING" submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra (Jharkhand) in the Department Of Computer Science & Engineering by Kapil Dev Verma (17409016), Mahendra Kumar Mahito (18409001D), Samir Kumar (17409044), Sumit Kumar (17409051) and Vivek Kumar (17409055) in a partial fulfilment of the requirements for the award of the degree of Bachelor of Technology (B. tech) Degree in Computer Science & Engineering.

DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

Prof. Nishant Kumar  
(Project Guide)

Prof. Bhadranshu Nand  
(Head of Department of CSE)



III

# SIMULATION OF FACE MASK DETECTION USING MACHINE LEARNING

*Major Project Report  
Submitted in partial fulfilment of the  
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY  
IN  
COMPUTER SCIENCE & ENGINEERING

BY

KAPIL DEV VERMA	17409016
MAHENDRA KUMAR MAHTO	18409001D
SAMIR KUMAR	17409044
SUMIT KUMAR	17409051
VIVEK KUMAR	17409055



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
GURU GOBIND SINGH EDUCATIONAL SOCIETY'S  
TECHNICAL CAMPUS

CHAS-827013, BOKARO  
JUNE 2021



*Pur*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



## CERTIFICATE

This is to certify that the Project entitled 'Traffic Sign Detection' submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra, Jharkhand in the Department of Computer Science & Engineering by Sujit Kumar Pramanik (19031440039) in partial fulfillment of the requirement for B.Tech 8<sup>th</sup> semester for the award of the degree of Bachelor of Technology (B.Tech) Degree in Computer Science & Engineering under the Jharkhand University of Technology, Ranchi.

*A. Sinha*

Signature of the Guide

Prof. Apurba Sinha

*Sujit*

Signature

(External Examiner)

*B. Nand*

Signature of Head of Department

Prof. Bhaskra Nand

*P. Jaruhar*

Dr. Priyadarshi Jaruhar

Director, GGSESTC



*P. Nand*

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

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**TRAFFIC SIGN DETECTION**

*Major Project Report Submitted in  
partial fulfillment of the requirements  
for the award of the Degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE & ENGINEERING**

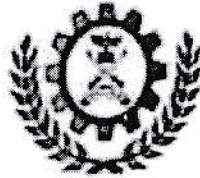
**BY**

**VAIBHAV (19031440043)**

**ADITYA PRAKASH (19031440006)**

**SOMNATH DUBEY (19031440038)**

**SUJIT KUMAR PRAMANIK (19031440039)**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S**

**TECHNICAL CAMPUS**

**CHAS-827013, BOKARO**

**MAY 2023**



*Pu*  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



## CERTIFICATE

This is to certify that the Project entitled Customer Churn Prediction submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra Jharkhand in the Department Of Computer Science & Engineering by Meghali Kumari(19031440023), Dhananjay Kumar(19031440014), Puja Kumari(19031440027), Aisha Parween(19031440007), Saba Parween(19031440034) in partial fulfillment of the requirement for B.tech 8<sup>th</sup> semester for the award of the degree of Bachelor of Technology (B. tech) Degree in Computer Science & Engineering under the Jharkhand University of Technology, Ranchi.

Signature of the Guide  
Prof. Md Hussain Ansari

Signature of HOD  
Prof. Bhaskar Nand

Signature  
External Examiner

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

**Dr. Priyadarshi Jaruhar**  
Director,



# Customer Churn Prediction Model

*Major Project Report*

*Submitted in partial fulfilment of the  
requirements for the award of the Degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE & ENGINEERING**

**BY**

**Dhananjay Kumar (19031440014)**

**Meghalli Kumari (19031440023)**

**Puja Kumari (19031440027)**

**Aisha Parween (19031440007)**

**Saba Perween (19031440034)**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S**

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**CHAS-827013, BOKARO**



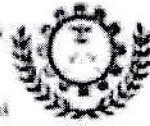
  
**DIRECTOR**  
**GGSESTC, Kandra, Chas**  
**Bokaro, Jharkhand-827013**

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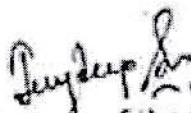



GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS  
 KANDRA, CHAS, BOKARO  
 Affiliated to JUT, Ranchi, Jharkhand, Approved by AICTE & MDE, New Delhi




CERTIFICATE


This is to certify that the Project entitled "STABILIZATION OF SOIL BY STONE DUST REPLACEMENT AS A HIGHWAY MATERIAL" Submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra Chas Bokaro (Jharkhand) in the department of Civil Engineering by SHIVAM KUMAR, KARAN KUMAR RAWANI, PRASANJIT DHIBAR, DOLY KUMARI, SHRAVAN KUMAR in the partial fulfilment of the requirement for B.TECH 8<sup>th</sup> Semester for the award of the Degree of Bachelor of Technology (B.TECH) in Guru Gobind Singh Educational Society's Technical Campus under the Jharkhand University Of Technology, Ranchi.

  
 Signature of the Guide  
 Prop. Joydeep Sen

  
 06/5/23  
 Signature of HOD  
 Civil Engg. Department  
 GGSES Technical Campus  
 Kandra, Chas, Bokaro

  
 Signature  
 External Examiner



  
 Dr. Priyadarshi Jaruhar  
 Director of GGSESTC Bokaro



  
 DIRECTOR  
 GGSESTC, Kandra, Chas  
 Bokaro, Jharkhand-827013

A  
PROJECT REPORT  
ON

STABILIZATION OF SOIL BY STONE DUST REPLACEMENT AS A  
HIGHWAY MATERIAL

*For The Partial Fulfilment of The Requirement of*  
BACHELOR OF TECHNOLOGY

*In*  
CIVIL ENGINEERING

SUBMITTED BY	
SHIVAM KUMAR	19031435018
PRASANJIT DHIBAR	19031430007
DOLY KUMARI	19031430002
SHRAVAN KUMAR	19031435019
KARAN KUMAR RAWANI	19031435007
GROUP CODE - 19GGSESTC23CE03	



GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS  
KANDRA, CHAS, BOKARO

DEPARTMENT OF CIVIL ENGINEERING  
2019 - 2023



  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



# CERTIFICATE



This is to certify that this project work entitled TO IMPROVEMENT OF ENGINEERING PROPERTIES OF FLEXIBLE ROAD PAVEMENT BY USING GEO-SYNTHETIC MATERIAL submitted to Guru Gobind Singh Educational Society's Technical Campus, Kandra, Jharkhand in the Department of Civil Engineering has been successfully completed by

KUMAR SHUBHAM (19031430004)

RIYA VERMA (19031435013)

SHIVAM KUMAR (19031435017)

SURAJ KUMAR TIWARI (19031435021)

KRISHNA KR. MAHTO (19031435008)

In partial fulfillment of the requirement for B.tech 8<sup>th</sup> semester for the award of the degree of Bachelor of Technology in Civil Engineering under the .



**JHARKHAND UNIVERSITY OF TECHNOLOGY**

DR. RAJENDRA PRASAD VERMA  
(GUIDE)

DR. RAJENDRA PRASAD VERMA  
(HOD)  
HOD, Civil Engg. Department  
GGSES Technical Campus  
Kandra, Jharkhand

EXTERNAL EXAMINER

Dr. Priyadarshi Jaruhar  
DIRECTOR, GGSESTC

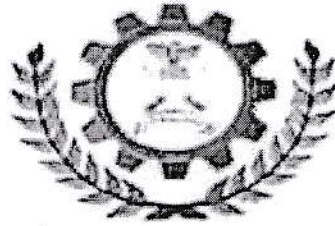


DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



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PROJECT REPORT ON  
TO IMPROVEMENT OF ENGINEERING PROPERTIES  
OF FLEXIBLE ROAD PAVEMENT BY USING GEO-  
SYNTHETIC MATERIAL.



GURU GOBIND SINGH EDUCATIONAL SOCIETY'S  
TECHNICAL CAMPUS

In partial fulfillment of the requirement for B. tech 8<sup>th</sup> semester for the award of  
the degree of Bachelor of Technology in Civil Engineering under the



JHARKHAND UNIVERSITY OF TECHNOLOGY

BY GROUP-19GGSESTC23CE0512019-2023

KUMAR SHUBHAM (19031430004)

RIYA VERMA (19031435013)

SHIVAM KUMAR (19031435017)

SURAJ KR. TIWARI (19031435021)

KRISHNA KR. MAHTO (19031435008)

GUIDED BY- DR. RAJENDRA PRASAD VERMA

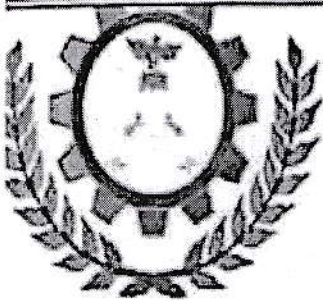
Department of Civil Engineering



*Rw*

DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

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# CERTIFICATE

This is to certify that the Project entitled TO INCREASE THE STRENGTH, WORKABILITY AND DURABILITY OF PCC ROAD BY ADDITION OF POLYMER BASED ADMIXTURE Submitted to Guru Govind Singh Educational Society's Technical Campus Kandra Jharkhand in the Department of CIVIL ENGINEERING by

SANJEET KUMAR	19031435014
DEEPAK KUMAR MAHTO	19031430001
SHUBHAM KUMAR	19031435020
SHALU KUMARI	19031435015
AKASH RANJAN	19031435002

in Partial Fulfillment of the requirement for 8<sup>th</sup> semester for the award of the Degree of Bachelor of technology (B. Tech) in CIVIL ENGINEERING Under the Jharkhand University of Technology, Ranchi.

*Gaurav Kumar*

Signature of the Guide

Prof. MR GAURAV KUMAR

*R.P. Verma*  
06/5/23

Signature of HOD

Prof. Dr. R.P. Verma  
HOD, Civil Engg. Department  
GGSES Technical Campus  
Kandra, Chas, Bokaro

*6-5-23*

Signature

External Examiner

*Priyadarshi Jaruhar*

Dr. Priyadarshi Jaruhar  
Director, GGSESSTC



*Priyadarshi Jaruhar*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

# PROJECT REPORT

ON

TO INCREASE THE STRENGTH, WORKABILITY AND DURABILITY OF  
PCC ROAD BY ADDITION OF POLYMER BASED ADMIXTURE

Submitted in Partial fulfillment of the requirement for the award  
of degree of

**Bachelor of Technology**

In

**Civil Engineering**

Submitted by

**BY GROUP- (19GGSESTC23CE04) (2019-2023BATCH)**

**SANJEET KUMAR**

**19031435014**

**DEEPAK KUMAR MAHTO**

**19031430001**

**SHUBHAM KUMAR**

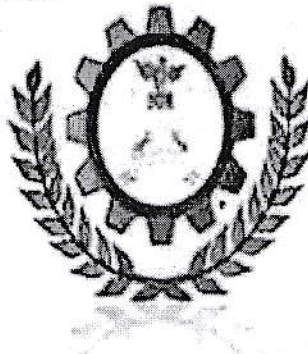
**19031435020**

**SHALU KUMARI**

**19031435015**

**AKASH RANJAN**

**19031435002**



Under the Guidance of

**MR. GAURAV KUMAR (Asst. Professor)**

**DEPARTMENT OF CIVIL ENGINEERING**

**GURU GOBIND SINGH EDUCATION SOCIETY'S TECHNICAL CAMPUS  
JHARKHAND UNIVERSITY OF TECHNOLOGY**

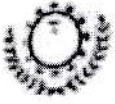
**(2019 - 2023)**

pg. 1

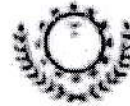
  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



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GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS  
KANDRA, CHAS, BOKARO



Affiliated to JUT, Ranchi, Jharkhand, Approved by AICTE & MOE, New Delhi

## CERTIFICATE

This is to certify that the Project entitled "STUDY OF STABILIZED MUD BLOCK AS AN ALTERNATIVE BUILDING MATERIAL" Submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra Chas Bokaro (Jharkhand) in the department of Civil Engineering by WASIM AKRAM, ROSHAN RAJA, MANISH KUMAR, MD DANISH KOSAR, SHARIB ANWAR in the partial fulfilment of the requirement for B.TECH 8<sup>th</sup> Semester for the award of the Degree of Bachelor of Technology (B.TECH) in Guru Gobind Singh Educational Society's Technical Campus under the Jharkhand University Of Technology, Ranchi.

*Sidhlal*  
6/5/23

Signature of the Guide  
Prop. Sidhlal Hembram

*Rajendra Prasad Verma*  
06/5/23

Signature of HOD  
Dr. Rajendra Prasad Verma  
HOD, Civil Engg. Department  
GGSES Technical Campus  
Kandra, Chas, Bokaro

*[Signature]*  
6-5-23

Signature  
External Examiner



*[Signature]*

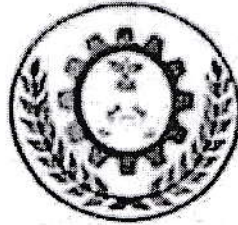
Dr. Priyadarshi Jaruhar  
Director of GGSESTC Bokaro



*[Signature]*  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

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STUDY OF STABILIZED MUD BLOCK AS AN  
ALTERNATIVE BUILDING MATERIAL



GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS  
BOKARO JHARKHAND

Submitted in partial fulfillment of the requirement for the award of Degree of Bachelor of Technology in  
Civil Engineering

BY: FINAL YEAR (2019-2023) BATCH

Under the guidance of  
PROFESSOR SIDLAL HEMBRAM

Submitted by:

<u>NAME</u>	<u>UNIVERSITY ROLL</u>
WASIM AKRAM	19031430012
ROSHAN RAJA	19031430010
MANISH KUMAR	19031435009
MD DANISH KOSAR	19031430005
SHARIB ANWAR	19031435016

Department of Civil Engineering

GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS

Affiliated to:



JHARKHAND UNIVERSITY OF TECHNOLOGY  
(2019 - 2023)



1

  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

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# CERTIFICATE

This is to certify that the Project entitled "ANALYSIS OF PARTIAL REPLACEMENT OF CEMENT BY FLY- ASH & NATURAL FINE AGGREGATE AND STONE DUST IN VARYING PERCENTAGE." Submitted to Guru Govind Singh Education Society's Technical Campus, Kandra, Jharkhand in the Department of Civil Engineering by Praveen Kumar (08), Divyansha Singh Gunjan, Krishna Baske, Praveen Kumar (09), Akash Kumar Burman, Pradum Shankar in partial fulfillment of the requirement for B.Tech 8th semester for the award of the Degree of Bachelor of Technology (B. Tech) in Civil Engineering Under the Jharkhand University of Technology, Ranchi.

.....06/5/23.....

(Signature of the Guide)  
Signature of H.O.D.  
Kandra, Chas, Bokaro  
**Dr. Rajendra Prasad Verma**  
H.O.D., Civil Engg. Department  
GGSESTC Technical Campus  
Kandra, Chas, Bokaro

.....06/5/23.....

(Signature of External Examiner)

Prof.



**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**Dr. Priyadarshi Jaruhar**

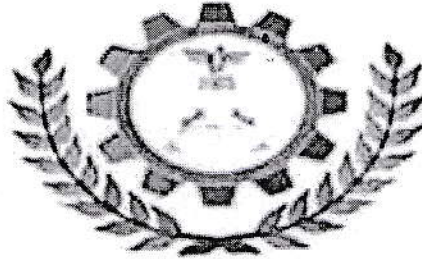
**Director, GGSESTC**



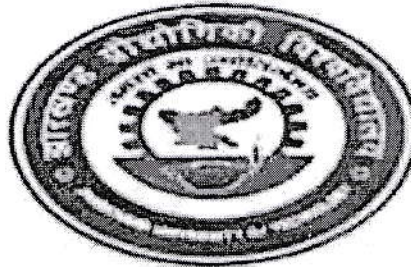
# PROJECT REPORT

ON

**"ANALYSIS OF PARTIAL REPLACEMENT OF CEMENT BY FLY-ASH & NATURAL FINE AGGREGATE BY STONE DUST IN VARYING PERCENTAGE"**



Submitted in partial fulfillment of the requirements for the award of  
Degree of Bachelor of Technology in Civil Engineering



**JHARKHAND UNIVERSITY OF TECHNOLOGY**

By

PRAVEEN KUMAR	19031430008
DIVYANSHA SINGH GUNJAN	19031435006
KRISHINA BASKE	19031430003
PRAVEEN KUMAR	19031430009
AKASH KUMAR BURMAN	19031435001
PRADUM SHANKAR	19031435010

**GUIDED BY - Dr. Rajendra Prasad Verma (Project Guide / H.O.D)**

Department of Civil Engineering

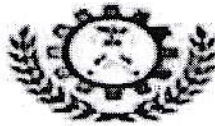
**GURU GOVIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL  
CAMPUS KANDRA, CHAS, BOKARO (2019-2023)**

  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

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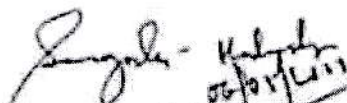


**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL  
CAMPUS KANDRA, CHAS BOKARO**


**CERTIFICATE**

This is to certify that the Project entitled Preparation of cement concrete Block by Partial Replacement of 'Rice Husk Ash' Submitted to Guru Gobind Singh Educational Society's Technical Campus Kandra Jharkhand in the Department of Civil Engineering by Aman Kumar 19031435003, Prem Kumar 19031435011, Rana Pratap Pandey 19031435012, Dilip Kumar 19031435005, Deo Narayan 19031435004

In Partial fulfilment of the requirement for 8<sup>th</sup> semester for the award of Degree of Bachelor of Technology (B. Tech) in Civil Engineering under the Jharkhand University of Technology, Ranchi

  
Signature of the Guide


**Prof. Sougata Mahato**

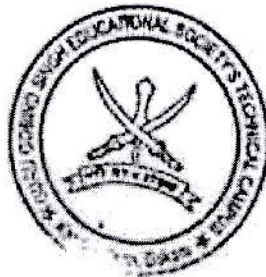
  
06/5/23  
Signature of HOD

**Dr. Rajendra Prasad Verma**  
HOD, Civil Engg. Department  
GGSES Technical Campus  
Kandra, Chas, Bokaro

  
External

**Examiner**

  
**Dr. Priyadarshi Jaruhar**  
Director, GGSESTC



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

PROJECT REPORT

ON

**PREPARATION OF CEMENT CONCRETE BLOCK BY PARTIAL  
REPLACEMENT OF 'RICE HUSK ASH'**

Submitted in partial fulfilment of the requirements for the award of degree of  
**BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING**



**JHARKHAND UNIVERSITY OF TECHNOLOGY**

By

AMAN KUMAR 19031435003

PREM KUMAR 19031435011

RANA PRATAP PANDEY 19031435012

DILIP KUMAR 19031435005

DEO NARAYAN 19031435004

GROUP CODE: 19GGSESTC23CE01

UNDER THE GUIDANCE: PROF. SOUGATA MAHATO

(2019-2023)

**DEPARTMENT OF CIVIL ENGINEERING**



**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL  
CAMPUS KANDRA, CHAS BOKARO**



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

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# GRANDS MINING

GURU CITY CENTRE, P.O. Box - 4, RO. Jharkhand, CITY - VARANASI  
Pho: 922887440, 922887441, 922887442, 922887443, 922887444, 922887445  
E-mail: gmining@grandsmining.com

GSTIN: 20AAJFG0420P1Z1

Ref No.

Date

Ref. No. - GM/00LS/2023-24

Date - 28<sup>th</sup> April, 2023

## To Whom It May Concern

This is to certify that Miss Niharika Kumari, D/O Mr. Anil Kumar Singh, a student of 3<sup>rd</sup> semester of MBA (Major - Finance, Minor - HR), having registration no. - 21031710029, from Guru Gobind Singh Educational Society's Technical Campus, has successfully completed her 6 weeks (13<sup>th</sup> March - 27<sup>th</sup> April) internship on "Inventory Management" in our reputed firm.

During the tenure of her internship period, she was found as a sincere, honest, hardworking and a dedicated trainee possessing professional attitude.

We wish her every success in life.



Sincerely,

Prashant Kumar

Accounts Manager

Grands Mining

DIRECTOR

GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



CERTIFICATE FROM COMPANY

**CERTIFICATE  
OF COMPLETION**

PROUDLY PRESENTED TO

*Mukesh Kumar*

Has been awarded this certificate for successfully completing the  
Finance Internship

Her performance during 6 weeks of internship has been Outstanding

This certificate was awarded by



Managing Director



**iB Arts Pvt Ltd**

3

  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





**wellMark**  
HOSPITAL  
BOKARO STEEL CITY

**INTERNSHIP COMPETITION CERTIFICATE**  
**TO WHOM IT MAY CONCERN**

This is to certify that **Mr. Monu Kumar**, a student of MBA 3<sup>rd</sup> Semester in Guru Gobind Singh Educational Society's Technical Campus, Bokaro, Jharkhand, has successfully completed his internship in Wellmark Hospital on the topic "Patient Management System" for a period of 60 days from 20<sup>th</sup> February, 2023- 20<sup>th</sup> May, 2023.

Following were his role during the period of internship:

- Designing and managing the patient management system.
- Handling Patient feedback management system
- Worked on Inform and HealthPlix.

During the period of his internship, he had been exposed to different processes and was found to be punctual, hardworking and self-motivated to learn new things.

We wish him all the best for his future endeavors.

Warm Regards,

For Wellmark Hospital



Certificate No.  
PEBHC0-2022-6403

15E/3, Western Avenue, Naya More Bus Stand, Bokaro Steel City, Jharkhand - 827001, INDIA  
+91 83380 52211 +91 8542 222211 wellmarkhospital@gmail.com wellmarkhospital.com

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



## INTERNSHIP CERTIFICATE

This is to certify that **LAVKUSH KUMAR** (Reg. No. = 21031710071) student of MBA (Marketing) has completed internship program in "Sales & Marketing" at **SHREE HYUNDAI**, Chas, near Tolidih More, Bokaro Steel City, Jharkhand from 23rd March 2023 to 07th May 2023. He has prepared his report which covers all aspects of internship.

During the internship period we found him very respectful, intelligent, motivated and hardworking person.

We wish him every success in his life and career.

For SHREE HYUNDAI



Authorized Signature

DIRECTOR

SHREE HYUNDAI, Chas  
Bokaro, Jharkhand-827013







# SHAILJA ENTERPRISES CERTIFICATE

OF COMPLETION

*Khushboo Kumari*

This certificate is awarded to Khushboo Kumari for successfully completing 6th weeks of training based internship on "Capital Structure". She has also successfully completed all the instructor-led sessions and practical assignments assigned during the internship.  
Her Performance in the program is Very Good.

Shailja Enterprises

Head Office

Production Manager

01/08/2023

Date

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





HDB Financial Services Limited  
2<sup>nd</sup> Floor, Wilson House,  
Old Nagardas Road,  
Near Amboli Subway,  
Andheri (East), Mumbai - 400049.  
Tel. : 022 - 8250 9000  
Email : hdb.hr.compliance@hdbfs.com  
Web : www.hdbfs.com  
CIN - U65990GJ2007PLC051028

Ref:HDBFS/HRD/PL/125017

### Internship Certificate

This is to certify that **Mr. DHANANJAY KUMAR SHARMA S/O SAVITRI SHARMA** has successfully completed his internship of 2 months at HDB Financial Services Limited, from 18-Feb-2023 to 16-Apr-2023 in Finance Department.

During this period of his internship programme with us she was found punctual, hardworking and inquisitive. On behalf of company, we wish to record our sincere appreciation for his time rendered and would like to wish him a success in his career.

  
**ASHISHI GHATEKAR**  
(Manager HR)



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



# F5 DEVELOPERS

Visit us at: [www.f5developers.com](http://www.f5developers.com)

## CERTIFICATE OF COMPLETION

Start Date: 06 Mar 2023

End Date: 18 April 2023

Certificate No: F5/2578/2023

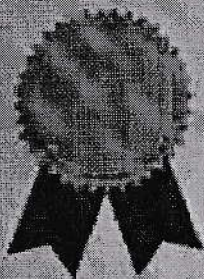
This is to certify that

### ASHUTOSH KUMAR

has successfully completed the training based  
internship on **FINANCE (FINANCIAL PLANNING)**

He has also successfully completed all the instructor-  
led sessions and practical assignments assigned  
during the internship.

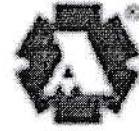
His Performance in the program is **Good.**



Managing Director

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





**APML**

**AGARWAL PACKERS AND MOVERS LTD.**

06 May 2023

**TO WHOM IT MAY CONCERN**

This is to certify that **Ms Anjali Tiwari** has successfully completed her **six weeks** internship as **Commercial Trainee - HR** at **Agarwal Packers and Movers Limited (APML), Pune.**

During her internship, she was found to be punctual, dedicated and interested to learn about the projects assigned. Her performance exceeded our expectations, and she was able to complete the project on time.

We wish her all the best for her upcoming career.

**Atanu Ghosh**  
Human Resource

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

**Agarwal Packers and Movers Limited**  
Agora Business Center, Opposite Crescent Public  
School, Parwana Road,  
Pitampura, Delhi, 110034 - (India)  
Phone: 011-4500 4300





**F5 DEVELOPERS**

Visit us at: [www.f5developers.com](http://www.f5developers.com)

**CERTIFICATE  
OF COMPLETION**

Start Date: 06 Mar 2023

End Date: 18 April 2023

Certificate No: F5/2368/2023

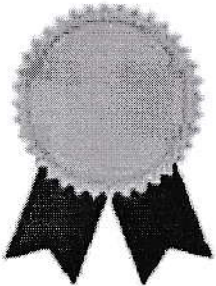
This is to certify that

**AMAN KUMAR SINHA**

has successfully completed the training based  
internship on **FINANCE(FINANCIAL PLANNING )**

He has also successfully completed all the Instructor-  
led sessions and practical assignments assigned  
during the internship.

His Performance in the program is Good.



Managing Director

Certificate issued by F5 Developers | Date of Certification: 25-04-2023 | To verify visit: [f5developers.com](http://f5developers.com)



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

# AmitRealty

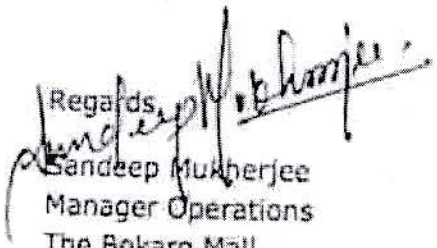
07/05/2023

To who so ever it may concern:

This is to be certified that Mr. Akash Kumar (3<sup>rd</sup> Semester) of Guru Gobind Singh Educational Society Technical Campus, C/o Ashok Kumar Sector-9D, Street-36, Qtr: 673 has completed Successfully 45 days summer internship project in Retail marketing form 24/03/2023 To 11/05/2023 from The Bokaro Mall, Sec 3c Bokaro Steel City, Pin: 827009.

Wishing you a successful future endeavour.

Regards,

  
Sandeep Mukherjee  
Manager Operations  
The Bokaro Mall



  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

Amit Realty Pvt. Ltd.

20/1, Ashutosh Chowdhury Avenue, 1st Floor, Kolkata- 700 019, Tel. +91 33 4010 4010 Fax + 91 33 4010 4020



## SKYLINE CORPORATION

Office: 12/1, C/O. Ganga Sagar, B.S. Road, Jharkhand State,  
Bokaro, Jharkhand - 827013, India. Phone: 91-9112454116, 91-9112454117  
E-mail: 9953995677, 9933345416, skylinecorporation13@gmail.com

### TO WHOM IT MAY CONCERN

This is to certify that Mrs. Varsha Kumari student of Guru Gobind Singh Educational Society, Course MHA has done her internship in Consumer Satisfaction under sales and marketing department of Skyline Corporation under Brand name 'AQUACIA' from Jharkhand region.

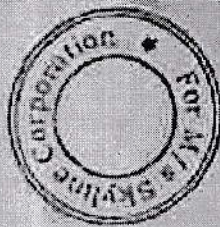
This project was aimed to research consumer need as well as betterment of service and product if any, from company prospects.

Mrs. Varsha Kumari has done her internship from 13<sup>th</sup> March 2023 to 1<sup>st</sup> May 2023.

During the internship she demonstrated good design skills with self motivated attitude to learn new things. Her performance exceeded expectation and was able to done her job on time.

We wish her all the best for her future endeavours.

For, SKYLINE CORPORATION



*Signature*



*Signature*

DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

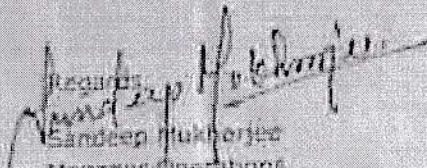
# AmitRealty

07/05/2023

To who so ever it may concern:

This is to be certified that Mr. Sandeep Kumar (3<sup>rd</sup> Semester) of Guru Gobind Singh Educational Society Technical Campus, C/o. Jai Ram Singh, Chas. Near Chak post (Chas) has completed Successfully 45 days summer internship project in Retail marketing from 24/03/2023 To 11/05/2023 from The Bokaro Mall, Set. 3c Bokaro Steel City, Pin- 827009

Wishing you a successful future endeavour.

  
Sandeep Kumar  
Manager Operations  
The Bokaro Mall



Amit Realty Pvt. Ltd.

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



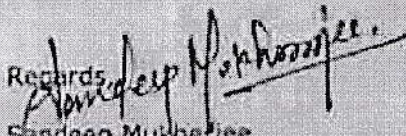
# AmitRealty

07/05/2023

To who so ever it may concern:

This is to be certified that Mr. Roushan Raj Swami (3<sup>rd</sup> Semester) of Guru Gobind Singh Educational Society Technical Campus, C/o Ram Ayodhya Das 4g ,Near (PNT Colony) B.S.city has completed Successfully 45 days summer Internship project in Recruitment and Selection form 24/03/2023 To 11/05/2023 from The Bokaro Mall, Sec 3c Bokaro Steel City, Pin: 827003

Wishing you a successful future endeavour.

Regards,  
  
Sandeep Mukherjee  
Manager Operations  
The Bokaro Mall

Amit Realty Pvt. Ltd.

20/1, Ashutosh Chowdhury Avenue, 1st Floor, Kolkata-700019. Tel: +91 33 4010 4010 Fax: +91 33 4010 4020



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**wellMark**  
HOSPITAL  
BOKARO STEEL CITY

**INTERNSHIP COMPETITION CERTIFICATE**  
**TO WHOM IT MAY CONCERN**

This is to certify that Mr. Rahul Pandey, a student of MBA 3<sup>rd</sup> Semester in Guru Gobind Singh Educational Society's Technical Campus, Bokaro, Jharkhand, has successfully completed her internship in Wellmark Hospital on the topic "Coordination With Management & Staffing of Resume" for a period of 60 days from 20<sup>th</sup> February, 2023- 2<sup>nd</sup> May, 2023.

Following were his role during the period of internship:

- Designing and managing the patient management system.
- Handling Patient feedback management system
- Worked on Infort and HealthPlix.

During the period of her internship, he had been exposed to different processes and was found to be punctual, hardworking and self-motivated to learn new things.

We wish her all the best for his future endeavors.

Warm Regards

For Wellmark Hospital



Certificate No  
PEBHC0-2023-0403

15E/3, Western Avenue, Naya More Bus Stand, Bokaro Steel City, Jharkhand - 827021, INDIA  
+91 83360 82211 +91 6542 22211 wellmarkhospital@gmail.com wellmarkhospital.com

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



Lic of India, Bokaro Branch Office- III, Bye Pass Road Chas, Post-  
Chas, Dist- Bokaro, City- Bokaro, State: Jharkhand, Pin Code-  
827013, Branch Code- 5009, Email Id: bo\_5009@licindia.com


Ref. No. 1713/05/23

Date- 04-05-2023

**TO WHOM IT MAY CONCERN**

This is to certify that PRIYANKA KUMARI , D/O – Rama Prasad , a student of MBA(Finance & HR) , Guru Gobind Singh Educational Society's Technical Campus (GGSESTC) , Kendra , Chas has successfully completed 45 days ( From 15<sup>th</sup> March, 2023 to 29<sup>th</sup> April, 2023) long internship programme on the project " A COMPARATIVE STUDY ON MANAGING THE FINANCES BY LIFE INSURANCE CORPORATION OF INDIA" at this branch during the period of her internship programme with us she was found punctual, hardworking and inquisitive.

We wish her in every success in life

  
Branch Manager  
गुरु गोबिंद सिंह शिक्षण संस्थान  
केंद्रा चस-3, पिन कोड-827013

  
DIRECTOR  
GGSESTC, Kendra, Chas  
Bokaro, Jharkhand-827013



ADITYA BIRLA



1<sup>st</sup> April 2023

TO WHOM SOEVER IT MAY CONCERN

This is to certify that **Ms. Priya Kumari**, Daughter of **Mr. Ram Kumar Singh** residing at **Dhanshadra** is a student of **MBA-III (Major in Human Administration)** from **University of JET, Ranchi**.

Having Registration No. **21031710010** has successfully completed his project titled **"How to Maintain Employee Demand and register"** at **Pantaloon Sri Ram Mall Dhanshadra** internship from **12<sup>th</sup> Feb 2023 to 2nd April 2023** as a part of fulfillment of his course.

Throughout the tenure of his project we found him disciplined, hardworking, punctual and sincere.

We wish him all the best in all his future endeavours.

For Aditya Birla Fashion & Retail Ltd.

Name of Store Manager  
Store Manager

2/1/2023

pantaloon's

Aditya Birla Fashion & Retail Limited, Formerly known as Pantaloon Fashion & Retail Limited  
B-1, Sector 10, Gurgaon, Haryana 122001, India. Phone No. 012-912 301 120. E-mail: [hr@adityabirlafashion.com](mailto:hr@adityabirlafashion.com)  
B-1, Sector 10, Gurgaon, Haryana 122001, India. Phone No. 012-912 301 120. E-mail: [hr@adityabirlafashion.com](mailto:hr@adityabirlafashion.com)



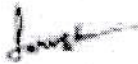
DIRECTOR  
GGSESTC, Kandra,  
Bokaro, Jharkhand-82

INTERNSHIP TRAINING

## Certificate of Training

**Nishu Kumar**

Has successfully completed a six week of online training on  
**Financial Modelling and Valuation .**  
In the final assessment , Nishu scored 6756 marks .  
We wish Nishu all the best for the future endeavours .



Sarvesh Agarwal  
DIRECTOR & CEO, INTERNSHIP



**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**HRD DEPARTMENT, KALYAN BHAWAN, JAGJIWAN NAGAR, DHANBAD 826003**


संदर्भ: वीसीसीएल/सहा.प्र.(सा.स.वि.)/VT/2023/18

दिनांक: 06.05.2023

**प्रशिक्षण प्रमाण पत्र/CERTIFICATE OF TRAINING**

This is to certify that Mr. Vivek Kr Dey, roll no. 21031710058, a MBA (Finance) student of Guru Gobind Singh Educational society's Technical campus, Bokaro has undergone summer/vocational training at E.J. Area, BCCL, Dhanbad for a period of six weeks from 25.03.2023.

This certificate is being issued on the basis of certification vide letter no. GM-EJA/AFM/2023/428 dated 06.05.2023 of Area Finance Manager E.J. Area BCCL Dhanbad.

  
मुख्य प्रबंधक (घनत)  
(सा.स.वि.)

अधीन नि:   
H.P. के अंतर्गत   
BCCL - E.J. Area

  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





# F5 DEVELOPERS

Visit us at: [www.f5developers.com](http://www.f5developers.com)

Scanned with CamScanner

## CERTIFICATE OF COMPLETION

Start Date: 06 Feb 2023

End Date: 22 Mar 2023

Certificate No: F5/2359/2023

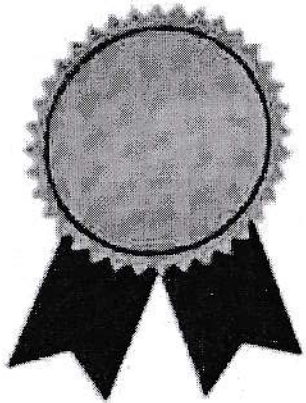
This is to certify that

## VIKASH NAYAK

has successfully completed the training based  
internship on **FINANCE(FINANCIAL PLANNING)**

He has also successfully completed all the Instructor-  
led sessions and practical assignments assigned  
during the internship.

His Performance in the program is **Good.**



  
Managing Director

  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827011



# BIHAR STATE CO-OPERATIVE MILK PRODUCER'S FEDERATION LTD.



बिहार स्टेट को-ऑपरेटिव मिल्क प्रोड्यूसर्स फेडरेशन लि०

UNIT - BOKARO DAIRY, Sec - 12F, Bokaro Steel City (Jharkhand)  
Tel - (06542) 257008, 256479, Fax : 252468, E-mail : dairybokaro@gmail.com  
AN ISO 22000 : 2005 & HACCP CERTIFIED DAIRY

Bkrd/Trg/ 428

Date: 05.05.2023

## To Whom It May Concern

This is to certify that Mr. Prashant Sourabh (21031710035), a MBA student from Guru Gobind Singh Educational Society's Technical Campus, Kandra Chas, Bokaro has successfully completed his training in our organization from 15<sup>th</sup> March 2023 to 28th April 2023. He has submitted project report after completion of the training.

Mr. Prashant Sourabh evinced keen interest in the training. His conduct was very good during the training period.

We wish all success in his future career.

Chief Executive 2/5/23

  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



श्री. प्रशांत सौरभ (21031710035) को जी. गोबिंद सिंह एज्युकेशनल सोसायटी के तकनीकी कैंपस, कान्द्रा चस, बोकारो में 15 मार्च 2023 से 28 अप्रैल 2023 तक प्रशिक्षण में सफलतापूर्वक प्रशिक्षण दिया गया है। प्रशिक्षण के समाप्ति के बाद प्रोजेक्ट रिपोर्ट जमा की गई है।  
PHONE: (06542) 257008, 256479, 252468, FAX: 06542-252468, E-mail: dairybokaro@gmail.com



# BIHAR STATE CO-OPERATIVE MILK PRODUCER'S FEDERATION LTD.



बिहार स्टेट को-ऑपरेटिव मिल्क प्रोड्यूसर्स फेडरेशन लि०

UNIT : BOKARO DAIRY, Sec. - 12F, Bokaro Steel City (Jharkhand)  
Tel : (06542) 257008, 256499, Fax : 256488, E-mail : dairybokaro@gmail.com  
AN ISO 22000 : 2005 & HACCP CERTIFIED DAIRY

Bkid/Trg/ 429

Date: 05.05.2023

## To Whom It May Concern

This is to certify that Ms. Swati Kumari (21031710054), a MBA student from Guru Gobind Singh Educational Society's Technical Campus, Kandra Chas, Bokaro has successfully completed her training in our organization from 15<sup>th</sup> March 2023 to 28th April 2023. She has submitted project report after completion of the training.

Ms. Swati Kumari evinced keen interest in the training. Her conduct was very good during the training period.

We wish all success in her future career.

*[Signature]*  
Chief Executive  
*[Signature]*

*[Signature]*

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**EXPERIENCE CERTIFICATE**  
**To Whom It May Concern**

This is to certify that Mr. Sandeep Kumar has successfully completed his internship in the Finance Department at Paul Wurth India Pvt. Ltd. During his period of association, he was working with the Paul Wurth India Pvt. Ltd. during the period 1<sup>st</sup> Feb 2023 till 15<sup>th</sup> March 2023.

He carried out all of her obligations and responsibilities in a dignified manner. He demonstrated all his professional skills towards organizational and personal development.

We wish all the best and success in his future endeavors.

Issued Date – 21<sup>st</sup> March 2023

*Anshul Sharma*

**Anshul Sharma**

**Assistant General Manager, HR**

**Paul Wurth India Pvt. Ltd.**



*pw*  
**DIRECTOR**  
**GGSESTC, Kandra, Chas**  
**Bokaro, Jharkhand-827013**

Communication (HO) Address:  
Plot no.286, 2nd Floor,  
Udyog vihar, Phase-II,  
Gurgaon-122 016,  
Haryana INDIA

Phones: (91) 124 45232

CINU74699DL1993PTC054354

Fax: (91) 124 45233

E-mail: [pvindia@paulwurth.com](mailto:pvindia@paulwurth.com)



**HRD DEPARTMENT, KALYAN BHAWAN, JAGJIVAN NAGAR, DHANBAD 826003**

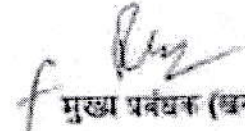
संदर्भ: बीभीसीएच/मंत्रा.प्र.(म.म.वि.)/VT/2023/

दिनांक: 06.05.2023

**प्रशिक्षण प्रमाण पत्र/CERTIFICATE OF TRAINING**

This is to certify that Mr. Raju Ranjan Mahato, roll no. 21031710042, a MBA (Finance) student of Guru Gobind Singh Educational society's campus, Bokaro has undergone summer/vocational training at E.J. Area, BCCL, Dhanbad for a period of six weeks from 25.03.2023.

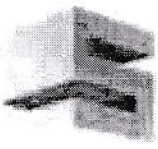
This certificate is being issued on the basis of certification vide letter no. GM-EJA/AFM/2023/428 dated 06.05.2023 of Area Finance Manager E.J. Area BCCL Dhanbad.

  
मुख्य प्रबंधक (खाना)  
(मा.मं.वि.)



**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





# SUNDARAM STEELS PVT. LTD.

SUNDARAM

GSTIN: 20AAMCS4941D12M

6<sup>th</sup> May, 2023

Balidih Bokaro

Dear Ms. Purushottam Kumar

S/o Satyendra Kumar (Reg No 21031710039),

**Guru Gobind Singh Educational Society's Technical Campus Jharkhand**

Congratulations on your successful completion of internship from 'Sundaram Steels Pvt. Ltd. Company.

This is to certify that Ms. Purushottam Kumar a student of MBA (3<sup>rd</sup> semester), has successfully completed 45 days' internship program at our company Sundaram Steel Pvt. Limited.

You have shown the best and efficient in the activities that was allotted to you during your internship tenure. Your hard-work, passion and determination towards the tasks and responsibilities are highly commendable.

This letter brings you the warmest congratulations from Sundaram Steel PVT. Limited.

Wishing you good luck!

Thanks & Regards,

Tapas Pradhan

Plant Head - Tapas Pradhan



**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

Reqd. Office :-  
Room No.2, Basement,  
Plot No. 322, Maa Vaishno Nagar,  
Chandpur, Lahartara, Varanasi, 221106,  
Uttar Pradesh

☎ 0542-2573850, 0654-2253446  
✉ info@sundaramsteels.in  
CIN: U27100UP2000PTC036097

Works :-  
B-7, Phase-III,  
Bokaro Industrial Area,  
Balidih, Bokaro, 827014,  
Jharkhand

# BIHAR STATE CO-OPERATIVE MILK PRODUCER'S FEDERATION LTD.



बिहार स्टेट को-ऑपरेटिव मिल्क प्रोड्यूसर्स फेडरेशन लि०

UNIT : BOKARO DAIRY, Sec. : 12F, Bokaro Steel City (Jharkhand)  
Tel : (06542) 257098, 256499, Fax : 256488, E-mail : dairybokaro@gmail.com  
AN ISO 22000 : 2005 & HACCP CERTIFIED DAIRY

Date: 05.05.2023

Bkrd/ Trg/ 727

## To Whom It May Concern

This is to certify that Ms. Jasmine Hussain (21031710016), a MBA student from Guru Gobind Singh Educational Society's Technical Campus, Kandra Chas, Bokaro has successfully completed her training in our organization from 15<sup>th</sup> March 2023 to 28th April 2023. She has submitted project report after completion of the training.

Ms. Jasmine Hussain evinced keen interest in the training. Her conduct was very good during the training period.

We wish all success in her future career.

*[Signature]*  
Chief Executive  
5/5/23

*[Signature]*

DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





# HINDUSTAN AUTO AGENCY

Authorised Dealer of Maruti Udyog Ltd.

Ranchi Road, Marar

Ramgarh Canlt. Pin - 829 122

Dist. - Ramgarh (Jharkhand)

Phone : 06553-231307, 08

Workshop : 06553-231309

## To Whom It May Concern

This is to certify that Mr. Nadim Akhtar, a MBA (Finance) Student from GGSESTC, Kandra, Chas, Bokaro has successfully completed his Internship in our organization from 17<sup>th</sup> March 2023 to 30<sup>th</sup> April 2023. He has submitted project report after completion of the training.

Mr. Nadim Akhtar evinced keen interest in the training. His conduct was very good during the training period.

We wish all success in her future career.



For Hindustan Auto Agency

Director



DIRECTOR

GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

**INTERNSHIP COMPLETION CERTIFICATE**

**To whomsoever it may concern**

This is to certify that Mr. Abhishek Anand Mehta, a students of MBA 3<sup>rd</sup> Semester, Guru Gobind Singh Educational Society's Technical Campus, Bokaro, Jharkhand, has successfully completed his internship as HR recruiter at Ananta Resource Management. He has improved his skills in presentation, communication, etc. Also, He has been provided exposure on Microsoft 365 (MS Team, MS outlook, MS Excel and MS One Note). He has also worked overall on ATS.

His internship details are as below:

Designation- HR Recruiter Intern

Period- 10th February, 2023 - 20th April, 2023

Effective Working days (4 hours per day)= 60

Hours Works - 240 hours.

Presentation given- 05

Presentation attended -25

Work profile- Editing, Parsing and Pipelining resumes from LinkedIn, Shortlisting of Resumes,

Coordination with RM and DV.

He has been sincere during her internship in our organization and performed good.  
We wish Abhishek all the success and bright future in life ahead.

For Ananta Resource Management Pvt Ltd.

**MUKESH SOLANKI** Digitally signed by  
MUKESH SOLANKI  
DATE: 2023.04.21  
17:52:53 +0530

CA Mukesh Solanki  
(Director)



**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





Ref: IPPB/INTERNSHIP/WB CIRCLE/2022-23/339

Dated 31/03/2023

To,

Ms. Madhumita Nag  
Burda, Bagmundi  
Purulia, WB - 723152

Ref: Your application for Internship Programme dated 31/03/2023.

We are pleased to confirm that your application for internship at our **PURULIA** Branch of West Bengal Circle has been accepted.

Hereafter, you will be referred to as "intern" and you shall be bound by the terms of internship while working with the Bank.

1. Duration of your internship will be from **01/04/2023 to 15/05/2023**.
2. Place of your Internship will be IPPB Purulia Branch.
3. On completion of the Internship you will submit a project report to your assigned Project Guide/Mentor.
4. This does not confer any right whatsoever to claim appointment in IPPB.

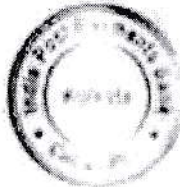
You are requested to submit your acceptance to the terms as confirmation of your internship in the format of undertaking enclosed as Annexure I, with this letter to your assigned project mentor as mentioned below: -

Project Guide/Mentor: -  
Name - Mr. Abhinav Ranjan

Designation - Senior Manager.

Wishing you success for your endeavours.

*AM*  
31/3/2023  
Chief Manager  
India Post Payments Bank  
South Bengal Region  
West Bengal Circle



*pu*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



Copy to: IPPB Purulia

संपर्क सूचना

हजारों सेवाएँ  
एक ही जगह पर  
एक ही जगह पर  
एक ही जगह पर

Tel: +91 22382147  
E-mail: contact@ippbonline.in  
Website: www.ippbonline.com

Registered Office

India Post Payments Bank Limited  
Post Office, Speed Post Center Building  
Market Road, New Delhi - 110001

CIN: U74999DL2016GD0704561

Tel: +91 22382147  
E-mail: contact@ippbonline.in  
Website: www.ippbonline.com



**wellMark**  
HOSPITAL  
BOKARO STEEL CITY

**INTERNSHIP COMPETITION CERTIFICATE**  
**TO WHOM IT MAY CONCERN**

This is to certify that **Mr. Kaushal Singh**, a student of MBA 3<sup>rd</sup> Semester in Guru Gobind Singh Educational Society's Technical Campus, Bokaro, Jharkhand, has successfully completed his internship in Wellmark Hospital on the topic "**Patient Management System**" for a period of 60 days from 20<sup>th</sup> February, 2023- 2<sup>nd</sup> May, 2023.

Following were his role during the period of internship:

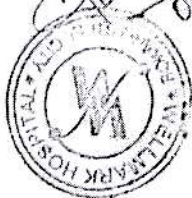
- Designing and managing the patient management system.
- Handling Patient feedback management system
- Worked on Infora and HealthPlix.

During the period of his internship, he had been exposed to different processes and was found to be punctual, hardworking and self-motivated to learn new things.

We wish him all the best for his future endeavors.

Warm Regards

For Wellmark



**DIRECTOR**  
**GGSESTC, Kandra, Chas**  
**Bokaro, Jharkhand-827013**



Certificate No  
TEL: 0332 2622 6403

15E/3, Western Avenue, Naya More Bus Stand, Bokaro Steel City, Jharkhand - 827001, INDIA  
+91 89360 52211 +91 6542 22211 wellmarkhospital@gmail.com wellmarkhospital.com

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**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Jyoti Kumari, a student of Guru Gobind Singh Educational Society Technical Campus, Bokaro did her project training of HDFC Asset management company, Bokaro from April 1, 2023 to May 10, 2023.

During this period Jyoti successfully completed her project on "Mutual Fund Comparison and Distribution Perception on Asset Management Company."

We wish her all the best for her future endeavors.

For HDFC Asset Management Company Limited.

  
Parag Pimple  
Senior Manager - Human Resources

*MW*

**HDFC Asset Management Company Limited**  
Registered Office: Plot No. 10, Sector 10, Phase 1, Park Road, West of Main Road, Gurgaon, Haryana 122002  
Tel: 0122-4284 8200, 4284 8201 Fax: 0122-4284 8202 Website: www.hdfcaml.com  
Customer Service Center: 2nd Floor, Main Building, 122, Park Road, Gurgaon, Haryana  
Director: Mr. Ravi Kumar, 4284 8200 Tel: 0122-4284 8201 Fax: 4284 8202



*Pune*

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

March 31, 2023

To,

Ms. Archana Kumari  
Dayal Chak, Kotwapatti,  
Rampur, Saran,  
Bihar - 841211.

**SUB: INTERNSHIP TRAINEE**

Dear Ms. Archana,

This is with reference to the request for Internship Training. In this connection, we are pleased to offer you the "Internship Training" under following terms and Conditions:

- 1 You will be provided Internship training at our Patna Regional Office located at, 102, 2ND FLOOR, INDRAPRASTH APARTMENT, WEST BOHING CANAL ROAD, PATNA - 800001
- 2 This training is for a period of 1<sup>st</sup> April, 2023 to 15<sup>th</sup> May 2023 without any extension.
- 3 You will do your project under the guidance of Mr. Mohd. Khalid Najeab - Zonal Head Commercial and periodically report to him regarding the progress of the Project.
- 4 You will strictly follow company's rules & regulations in respect of discipline, duty hours, dress code, behavior etc.
- 5 During the period of training, you shall not secure any other post or work part time. You should devote the whole of your time for learning the process / business of the company to the best of your ability.
- 6 During the course of this training, you shall diligently and faithfully learn the company processes by carrying out the instructions given from time to time either orally or in writing by your superiors and/or persons under whom you shall be placed.
- 7 During the period of training, you will not be eligible for any kind of monetary benefits as it is a part of learning period.
- 8 You shall indemnify the Company against any loss occurred during the course of Training.
- 9 You shall treat all information's of the company, which may be known to you by any means as confidential and shall use it only in a duly authorized manner.
- 10 On completion of Training you shall return company's property, if any, in good condition.
- 11 You shall submit a Final Report to our H.R. Department on completion of training.

This training will be a part of your learning process and will help you to successfully complete your Educational Course.

Kindly sign and return the duplicate copy of this letter as token of acceptance.

Wish you all success.

HR Department

**Shriram Finance Limited**

(Formerly known as Shriram Transport Finance Company Limited)

Admin Office :- 6th Floor (Level 2), Building No. Q2, Aurum Q Park, Gen-4/1, TTC, Thane Belpur Road, Ghansoli, Navi Mumbai, 400710,  
Tel: +91 22 4095 7575 | Fax: +91 22 27590176

Registered Office: 14A, South Phase, Industrial Estate, Guindy, Chennai 600032, Tamil Nadu, India: Tel: +91 48524666 | Fax: +91 48525666  
Website: [www.shriramfinance.in](http://www.shriramfinance.in) | Corporate Identity Number (CIN): L55191TN1975PLC007874.



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



# HINDUSTAN AUTO AGENCY

Authorised Dealer of Maruti Udyog Ltd.

Ranchi Road, Marar

Ramgarh Cantt. Pin - 829 122

Dist. - Ramgarh (Jharkhand)

Phone : 06553-231307, 08

Workshop : 06553-231309

## To Whom It May Concern

This is to certify that Miss. Farzana Akhtari, a MBA (Finance) Student from GGSESTC, Kandra, Chas, Bokaro has successfully completed her Internship in our organization from 17<sup>th</sup> March 2023 to 30<sup>th</sup> April 2023. She has submitted project report after completion of the training.

Miss. Farzana Akhtari evinced keen interest in the training. Her conduct was very good during the training period.

We wish all success in her future career.



For Hindustan Auto Agency

Director



  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

15<sup>th</sup> Jan, 2023

Hyderabad.

Dear *Ms. Deepali Kumari*  
**Guru Govind Singh Educational Society's & Technical Campus, Jharkhand.**

*Congratulations on your successful completion of Internship from Shriram Life Insurance Company Limited.*

This is to certify that **Ms. Deepali Kumari**, a student of MBA (3rd semester), has successfully completed 45 days internship program at our company **Shriram Life Insurance Company Limited**.

You have shown the best and efficient in all the activities that was allotted to you during your internship tenure. Your hard-work, passion and determination towards the tasks and responsibilities are highly commendable.

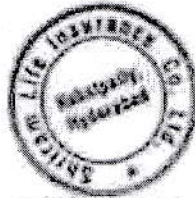
This letter brings you the warmest congratulations from Shriram Life Insurance Company Limited. We are proud to say that you are a valued member of our Shriram Family.

Wishing you good luck!

Thanks & Regards,



Anuj Mathur  
Zonal Manager - Digital SO Channel.



  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

**Shriram Life Insurance Company Limited**  
Plot No: 31 & 32, 5th & 6th floor, Parky Selevana,  
Basin Andhra Bank Training Centre, Financial District,  
Gachibowli, Hyderabad - 500 032, Telangana State  
Phone: 91 40 2309 9400 (Board) Web: www.shriramlife.com  
CIN : LK6011102005PL0045E10



Date: April 25<sup>th</sup> 2023

Reference No: AO/HRS/042501/2023

### INTERNSHIP LETTER

This certificate is issued to **Mr. Abdul Waahid Hussain**, student of MBA with Finance specialization from Guru Gobind Singh Educational Society's Technical Campus (Chas) in acknowledgement of his internship of 06 weeks at Ikshugandha Business Arts Private Limited. His internship with the company is in continued status.

During his internship we found him hard-working, punctual and inquisitive.

We wish him success for future endeavors.

*(For Ikshugandha Business Arts Private Limited)*

*Shubhashree*

Shubhashree  
Assistant Manager (HR)  
(06542-312210)  
[hr@ibarts.in](mailto:hr@ibarts.in)



*Pme*  
**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

## CERTIFICATE OF APPROVAL

This is to certify that the Project entitled **FABRATTION OF AUTOMATIC SOLAR TRACKING SYSTEM** submitted to Guru Gobind Singh Education Society's Technical Campus Kandra Jharkhand in the Department of Mechanical Engineering by

SHUBHAM KUMAR	-	19031495015
CHHATU KUMAR	-	19031495003
AMAN RAZA	-	19031495001

in partial fulfillment of the requirement for B.Tech 8th semester for the award of the Degree of Bachelor of Technology (B. Tech) in Mechanical Engineering under the Jharkhand University of Technology, Ranchi.

Signature of the Guide

Prof. DAYA SHANKAR  
DIWAKER

Signature of HOD

Prof. Kumar Ashish

Signature

External Examiner

Dr. Priyadarshi Jandhar

Director, GGSESTC



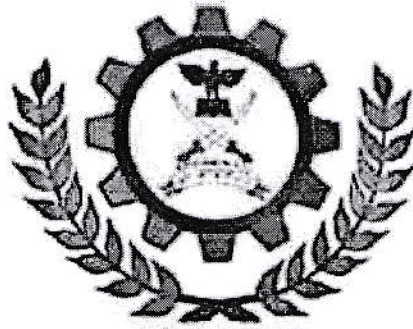
*P. J.*  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**FABRICATION OF AUTOMATIC SOLAR TRACKING SYSTEM**

A Thesis Submitted in Partial Fulfilment Of The Requirement For The Degree Of  
**BACHELOR OF TECHNOLOGY**

IN  
**MECHANICAL ENGINEERING**



**GGSESTC**

**SUBMITTED BY**

<b>SHUBHAM KUMAR</b>	-	<b>19031495015</b>
<b>CHHATU KUMAR</b>	-	<b>19031495003</b>
<b>AMAN RAZA</b>	-	<b>19031495001</b>

**UNDER THE GUIDENCE OF**

**MR. DAYA SHANKAR**

**DIWAKAR**

**(ASST. PROFESSOR)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS**

**(JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI)**

**(2019 – 2023)**



*pu*

**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

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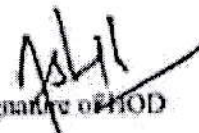
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DIWAKER

  
Signature of HOD  
Prof. Kumar Ashish

  
Signature  
External Examiner

Dr. Priyadarshi Jaruhar  
Director, GGSESTC

  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**FABRICATION OF AUTOMATIC SOLAR TRACKING SYSTEM**

A Thesis Submitted in Partial Fulfilment Of The Requirement For The Degree Of  
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**GGSESTC**

**SUBMITTED BY**

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**UNDER THE GUIDENCE OF**

**MR. DAYA SHANKAR**

**DIWAKAR**

**(ASST. PROFESSOR)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS**

**(JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI)**

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**DIRECTOR**  
**GGSESTC, Kandra, Chas**  
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Signature of the Guide

Prof. DAYA SHANKAR  
DIWAKER

Signature of HOD

Prof. Kumar Ashish

Signature

External Examiner

Dr. Priyadarshi Jaruhar  
Director, GGSESSTC

  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



**FABRICATION OF AUTOMATIC SOLAR TRACKING SYSTEM**

A Thesis Submitted in Partial Fulfilment Of The Requirement For The Degree Of  
**BACHELOR OF TECHNOLOGY**

IN

**MECHANICAL ENGINEERING**



SUBMITTED BY

SHUBHAM KUMAR	-	19031495015
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**(ASST. PROFESSOR)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS**

**(JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI)**

**(2019 – 2023)**



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SHUBHAM KUMAR	-	19031495015
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in partial fulfillment of the requirement for B.Tech 8th semester for the award of the Degree of Bachelor of Technology (B. Tech) in Mechanical Engineering under the Jharkhand University of Technology, Ranchi.

Signature of the Guide  
Prof. DAYA SHANKAR  
DIWAKER

  
Signature of HOD  
Prof. Kumar Ashish

  
Signature  
External Examiner

Dr. Priyadarshi Jaruhiar  
Director, GGSESTC

  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



# FABRICATION OF AUTOMATIC SOLAR TRACKING SYSTEM

A Thesis Submitted in Partial Fulfilment Of The Requirement For The Degree Of  
BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING



GGSESTC

SUBMITTED BY

SHUBHAM KUMAR	-	19031495015
CHHATU KUMAR	-	19031495003
AMAN RAZA	-	19031495001

UNDER THE GUIDENCE OF

MIR. DAYA SHANKAR

DIWAKAR

(ASST. PROFESSOR)

DEPARTMENT OF MECHANICAL ENGINEERING

GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS

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(2019 – 2023)



  
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GURU GOBIND SINGH EDUCATIONAL SOCIETY TECHNICAL CAMPUS  
BOKARO, JHARKHAND

Affiliated to JUT, Ranchi, Jharkhand, Approved by AICTE & MOE, New Delhi

CERTIFICATE

This is to certify that the Project entitled **To Investigate the influence of process parameter on microstructure and surface quality of AlSi10Mg part fabricated by Laser Powder Bed Fusion.** Submitted to Guru Govind Singh Education Society's Technical Campus Kandra Jharkhand in the Department of Mechanical engineer by **BHASKAR KUMAR MAHAVIR HEMBROM, MD INZAMAM ANSARI, PRAHLAD ORAON** in partial fulfilment of the requirement for B. tech 8th semester for the award of the Degree of Bachelor of Technology (B. Tech) in Mechanical Engineer Under the Jharkhand University of Technology, Ranchi.



Signature of Guide

Prof MANOJ KUMAR



Signature of HOD

Prof KUMAR ASHISH



Signature

External Examiner



Dr. Priyadarshi Jaruhar.

Director, GGSESTC



DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013





**To Investigate the influence of process parameter on microstructure and surface quality of AISi10Mg part by Laser Powder Bed Fusion.**  
A Synopsis Submitted In Partial Fulfillment Of The Requirement For The Degree Of  
**BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING**



**SUBMITTED BY**

<b>MAHAVIR HEMBROM</b>	-	<b>19031495006</b>
<b>MD INZAMAM ANSARI</b>	-	<b>19031495007</b>
<b>PRAHLAD ORAON</b>	-	<b>19031495009</b>
<b>BIHASKAR KUMAR</b>	-	<b>19031495002</b>

**UNDER THE GUIDENCE OF**

**MANOJ KUMAR**

**(ASST. PROFESSOR)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS**



**DIRECTOR**  
GGSESTC, Kandra, Chas  
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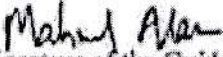


## CERTIFICATE OF APPROVAL


This is to certify that the Project entitled BUILDING A 3D PRINTER: MOTORS AND CONTROLS submitted to Guru Gobind Singh Education Society's Technical Campus Kandra Jharkhand in the Department of Mechanical Engineering by

RAHUL YADAV	-	19031490006
ROHIT KUMAR	-	19031490008
MRITUNJAY KUMAR	-	19031495008
RAHUL HEMBROM	-	19031495010

in partial fulfilment of the requirement for B.Tech 8th semester for the award of the Degree of Bachelor of Technology (B. Tech) in Mechanical Engineering under the Jharkhand University of Technology, Ranchi.

  
Signature of the Guide

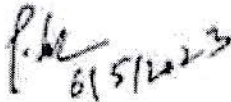
Prof. Mahmood Alam

  
Signature of HOD

Prof. Kumar Ashish

  
Signature

External Examiner

  
01/5/2023

Dr. Priyadarshi Jaruhar

Director, GGSESSTC

  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013

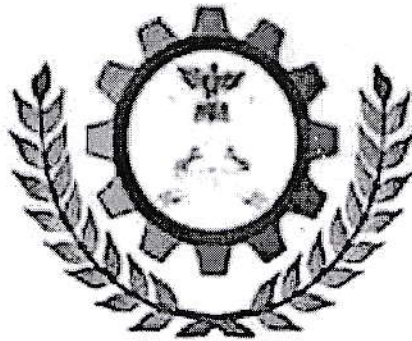


# BUILDING A 3D PRINTER: MOTORS AND CONTROLS

A Thesis Submitted in Partial Fulfilment Of The Requirement For The Degree Of  
BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING



GGSESTC

SUBMITTED BY

RAHUL YADAV	-	19031490006
ROHIT KUMAR	-	19031490008
MRITUNJAY KUMAR	-	19031495008
RAHUL HEMBROM	-	19031495010

UNDER THE GUIDENCE OF

MR. MAHMOOD ALAM

(ASST. PROFESSOR)

DEPARTMENT OF MECHANICAL ENGINEERING

GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS

(JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI)

(2019 - 2023)



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DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013


## CERTIFICATE OF APPROVAL


This is to certify that the Project entitled "Pneumatic Sheet Metal Shearing Machine" submitted to Gurn Gobind Singh Education Society's Technical Campus Kandra Jharkhand in the Department of Mechanical Engineering by

RITESH SINGH	-	19031495013
RAJA MODAK	-	19031495011
SUMANT KUMAR	-	19031495017

win partial fulfilment of the requirement for B.Tech 8th semester for the award of the Degree of Bachelor of Technology (B. Tech) in Mechanical Engineering under the Jharkhand University of Technology, Ranchi.

  
Signature of the Guide  
Prof. T. J. Babu Singh

  
Signature of HOD  
Prof. Kumar Ashish

  
Signature  
External Examiner

Dr. Priyadarshi Jaruhar  
Director, GGSESTC

  
DIRECTOR  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



# FABRICATION & DESIGN OF PNEUMATIC SHEET METAL SHEARING MACHINE

A Thesis Submitted In Partial Fulfilment Of The Requirement For The Degree Of  
BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING



GGSESTC

SUBMITTED BY

SUMANT KUMAR	-	19031495017
RAJA MODAK	-	19031495011
RITESH SINGH	-	19031495013

UNDER THE GUIDENCE OF

MR. TEJ BAHADUR SINGH

(ASST. PROFESSOR)

DEPARTMENT OF MECHANICAL ENGINEERING

GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS

(JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI)

(2019 – 2023)

  
DIRECTOR  
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Bokaro, Jharkhand-827013



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**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL  
CAMPUS**

**BOKARO, JHARKHAND**

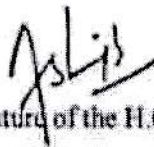
Affiliated to JUT, Ranchi, Jharkhand, Approved by AICTE & MOE, New Delhi

**CERTIFICATE**

This is to certify that the project Entitled for SIMULATION OF ELECTRIC VEHICLE USING MATLAB Submitted to Guru Govind Singh Education Society's Technical Campus Kandra Jharkhand in the Department of MECHANICAL ENGINEERING by SATYA GUPTA, SUMAN KUMAR, SURYA KANT CHOUDHARY, DEBRATHI KUMAR in partial fulfilment of the requirement for B. Tech 5<sup>th</sup> semester for the award of the Degree of Bachelor of Technology (B. Tech) in Under the Jharkhand University of Technology, Ranchi.



Signature of the Guide  
Prof. ROHI PRASAD



Signature of the H.O.D  
Prof. KUMAR ASHISH



Signature of  
External Examiner

Dr. Priyadarshi Jaruhar  
Director, GGSESTC



**DIRECTOR**  
GGSESTC, Kandra, Chas  
Bokaro, Jharkhand-827013



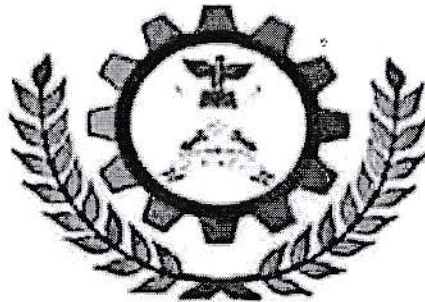
**SIMULATION OF ELECTRIC VEHICLE  
USING MATLAB**

A Project report submitted in partial fulfillment of the requirements for the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**"MECHANICAL ENGINEERING"**



**GGSESTC**

**SUBMITTED BY**

<b>SATYA GUPTA</b>	<b>19031495014</b>
<b>SUMAN KUMAR</b>	<b>19031495016</b>
<b>SURYA KANT CHOUDHARY</b>	<b>19031495018</b>
<b>DEOBRAT KUMAR</b>	<b>18031495008</b>

**Under The Guidance Of**

**Mr. ROHI PRASAD**

**(ASST.PROFESSOR)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL  
CAMPUS, BOAKRO JHARKHAND**

**(JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI)**

**(2019-2023)**



**DIRECTOR**  
**GGSESTC, Kandra, Chas**  
**Bokaro, Jharkhand-827013**



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