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TULSIRAMJI GAIKWAD-PATIL

College of Engineering & Technology

(Approved by AICTE, Recognized by Govt. of Maharashtra & Affiliated to MSBTE, Mumbai)

DTE Code: 4151

www.tgpcet.com

1.3.3 Percentage of students undertaking field projects/ internships (current year data)

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Office of the
Assistance Engineer (Gr.1)
Special Project
Sub-Divisional no.4, Nagpur.

Tel no.0712-2562546

No. 438

Date- 18/07/2019

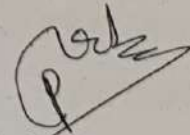
CERTIFICATE

This is to certify that Miss. Kajal Newalal Meshram student of Civil Engineering from Tulsiramji Gaikwad Patil College of Engineering and Technology has successfully completed the field project work of "Improvement of existing inner ring road with rigid road pavement in Nagpur city S.H.340 Rigid pavement widening road, CD works Bridges Nagpur, Maharashtra."

For the period from 20/05/2019 to 19/06/2019

During this period the student has undergone training on various aspects of Civil Work Project

We found her very sincere and hard working student who carried outwork diligently. We wish her Grand success in the Future Endeavour.


Mr. P.R. Gharpande

Junior Engineer

Special Project Sub-Division

No.4, Nagpur.

Office of the
Assistance Engineer (Gr.1)
Special Project
Sub-Divisional no.4, Nagpur.

Tel no.0712-2562546

No. 437

Date- 18/07/2019

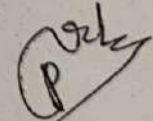
CERTIFICATE

This is to certify that **Miss. Komal Suresh Khobragade** student of Civil Engineering from **Tulsiramji Gaikwad Patil College of Engineering and Technology** has successfully completed the field project work of **"Improvement of existing inner ring road with rigid road pavement in Nagpur city S.H.340 Rigid pavement widening road, CD works Bridges Nagpur, Maharashtra."**

For the period from **20/05/2019 to 19/06/2019**

During this period the student has undergone training on various aspects of Civil Work Project

We found her very sincere and hard working student who carried outwork diligently. We wish her Grand success in the Future Endeavour.



Mr.P.R.Gharpande

Junior Engineer

Special Project Sub-Division

No.4, Nagpur.

Office of the
Assistance Engineer (Gr.1)
Special Project
Sub-Divisional no.4, Nagpur.

Tel no.0712-2562546

No. 436

Date- 18/07/2019


CERTIFICATE

This is to certify that **Miss. Prachi Vasanta Dhopate** student of Civil Engineering from **Tulsiramji Gaikwad Patil College of Engineering and Technology** has successfully completed the field project work of **"Improvement of existing inner ring road with rigid road pavement in Nagpur city S.H.340 Rigid pavement widening road, CD works Bridges Nagpur, Maharashtra."**

For the period from **20/05/2019 to 19/06/2019**

During this period the student has undergone training on various aspects of Civil Work Project

We found her very sincere and hard working student who carried out work diligently. We wish her Grand success in the Future Endeavour.



Mr. P. R. Gharpande

Junior Engineer

Special Project Sub-Division

No.4, Nagpur.

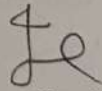
<i>Office of the Executive Engineer Public Work Division No.1, Sadar, Nagpur.</i>	
<i>Tel No. :- 0712-2565449</i>	<i>E-mail:- div1nagpur.ee@mahapwd.com</i>
<i>No. 4691/2019</i>	<i>Date :- 28/06/2019</i>

CERTIFICATE

This is to Certify that Mr. Rakesh. S. Bore Student of Civil Engineering from TGPCET Nagpur has successfully completed the field project work at site "Mankapur Sports Complex and Various Sites". From the Period 03/06/2019 to 22/06/2019

During this period the student has undergone Training on various aspects of Civil Work Project.

We found his /her very Sincere and Hard Working Student who carried out his/her work Diligently. We wish his/her Grand Success in the Future Endeavour.


*Executive Engineer
Public Work Division No.1
Nagpur.*

Office of the
Assistant Engineer- Grade-I
Special Project sub Division No
NAGPUR

Office of the
Assistance Engineer (Gr.1)
Special Project
Sub-Divisional no.4, Nagpur.

Tel no.0712-2562546

No. 434

Date- 18/7/2019

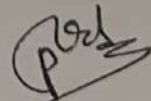
CERTIFICATE

This is to certify that Miss. **Sapana Anandrao Thengare** student of Civil Engineering from **Tulsiramji Gaikwad Patil College of Engineering and Technology** has successfully completed the field project work of **"Improvement of existing inner ring road with rigid road pavement in Nagpur city S.H.340 Rigid pavement widening road, CD works Bridges Nagpur, Maharashtra."**

For the period from **20/05/2019 to 19/06/2019**

During this period the student has undergone training on various aspects of Civil Work Project

We found her very sincere and hard working student who carried outwork diligently. We wish her Grand success in the Future Endeavour.



Mr. P.R. Gharpande

Junior Engineer

Special Project Sub-Division

No.4, Nagpur.

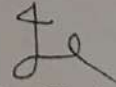
<i>Office of the Executive Engineer Public Work Division No.1, Sadar, Nagpur.</i>	
<i>Tel No. :- 0712-2565449</i>	<i>E-mail:- drv1nagpur.ee@mahapwd.com</i>
<i>No. 46922019</i>	<i>Date :- 28/06/2019</i>

CERTIFICATE

This is to Certify that Mr. Suresh. B. Buram Student of Civil Engineering from IGPCET Nagpur has successfully completed the field project work at site "Mankapur Sports Complex and Various Sites". From the Period 03/06/2019 to 22/06/2019

During this period the student has undergone Training on various aspects of Civil Work Project.

We found his /her very Sincere and Hard Working Student who carried out his/her work Diligently. We wish his/her Grand Success in the Future Endeavour.



*Executive Engineer
Public Work Division No.1
Nagpur.*



S. N. Singh

(Govt. Registered Civil Contractor)

101, Viraj Ameya II, Mhalgi Nagar, Ring Road, Nagpur.

Mobile No.: 9422147878

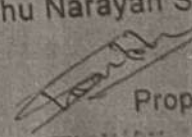
CERTIFICATE

This is to certify that Mr. Sushrut Nighot student of Civil engineering from TGCPET Nagpur has successfully completed the field project work at site construction of 13 passenger's capacity lift and toilet for GST BHAVAN. from the period 03/06/2019 to 22/06/2019.

During this period the student undergone training of various aspects of civil works.

We found his very sincere and hard-working student who carried out his work diligently we wish his grand success in the future endeavor.

Shambhu Narayan Singh


Proprietor

STEWOLS INDIA (P) LTD

shaktiman at stewols dot com

+91 (712) 264 1040

+91 (712) 2641 0613

5-8 B, Nagpur Industrial Estate, Kamptee Road Uppalwadi, Nagpur - 440026, Maharashtra
India

TO WHOM IT MAY CONCERN

This is to certify that the following final year students of Department of Civil Engineering from Tulsiramji Gaikwad - Patil College of Engineering And Technology, Nagpur

1. Mohankumar Yadav
2. Abdul Kadir
3. Hitmanshu Kamle
4. Kuldip Barsagade
5. Neha Kukare
6. Pritesh Ramteke

has been completed the project work in satisfactory manners sponsored by Stewols India Pvt. Ltd. under the supervision of Er. Dhananjay Jaipurkar Project entitled Checking the various parameters of the FRC using Steel and Glass Fibre at our Construction site at Butibori, Nagpur

They acquires of Knowledge of various parameters of the FRC needed for project work

Date :- 14-02-19

Place:- Nagpur


WORK MANAGER
 Stewols India
(P) Ltd.

COJAG[®]

Cojag Smart Technology Pvt Ltd
Address:- Plot No 45, Fulmati
Layout, Near Himalaya Empire,
Beltarodi Road, Nagpur 440027.
Telephone:- +91-7410747036
Web:- www.cojag.com
Also visit on www.fb.com/cojag

Date: 19-September-2018

To
Ms. Roshani Talmale,
Head of The Department,
Tulsiramji Gaikwad Patil College of
Engg. & Tech., Nagpur-441108
Phone no. : +91-9011009866

Respected Mam,

Sub: For accommodating your B.E Students for doing their final year LIVE PROJECT work in our company.

We are one of the reputed Software Development Company in Nagpur. We are earnestly grooming your students to be among the most sought -after engineering graduates by the corporate sector. The present final year students who are one of the batch of our institute are required to do a project work in an organization of repute in partial fulfillment of their curriculum of TGPCET, Nagpur. It is our earnest endeavor to see your students get exposed to the best of industries to get their practical training which will stand them in good stead in their career.

Therefore, your request to accommodate your students Ms. Pallavi Raut, Ms. Rasika Kurade, Mr. Neeraj Chaffe and Mr. Shubham Peshane with us in our esteemed organization to carry out the project for a period of Six months, commencing from September 2018 is accepted.

Cojag Smart Technology Pvt Ltd.

Director

K. K. Kalbende

**KRUNAL KALBENDE
CEO
COJAG SMART TECHNOLOGY PVT LTD**

www.cojag.com

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Cojag Smart Technology Pvt Ltd
Address:- Plot No 45, Fulmati
Layout, Near Himalaya Empire,
Beltarodi Road, Nagpur 440027.
Telephone:- +91-7410747036
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Date: 19-September-2018

To
Ms. Roshani Talmale,
Head of the department,
Tulsiramji Gaikwad Patil College of
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Therefore, your request you to accommodate your students- Ms.-Monika Walde, Ms.-Nilima Sogulale, Ms. Pallavi Uware, Ms. Geeta Bangde and Ms. Pallavi Naukarkar with us in our esteemed organization to carry out the project for a period of Six months, commencing from September 2018 is accepted.

Cojag Smart Technology Pvt Ltd.

Director

KR Kalbende

**KRUNAL KALBENDE
CEO
COJAG SMART TECHNOLOGY PVT LTD**

www.cojag.com

VNTechnoSoft

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102, Shanti Shradhha Apt-III
Near Besa IT Park, Beltarodi Road,
Nagpur-440024.
Website: www.vntechnosoft.com
Mail: info@vntechnosoft.com
Contact: 9890917528



Ref: VNTS/CLP/2018-19/40

Date: 10/10/2018

To,
The Head of the Department,
Department of Computer Science & Engineering,
Tulsiramji Gaikwad-Patil College of Engineering & Technology
Nagpur.

Subject: Approval for Live Project

Respected Sir,

In reference to your letter with ref no. **TGPCET/CSE/2018-19/187** dated on **09/10/2018**. We are pleased to accept your letter and provide permission to the referred students for doing project at our concern. During this period, they will be designated as **"Trainee"**. The students that have been provided permission are as follows:

1. Mr. Amol Batauwale
2. Mr. Shubham Chaudhari
3. Mr. Akshay Teltumbde
4. Mr. Ranjeet Selokar

The approved students will be part of our team working on an Emergency Ambulance Assistance Project for our Client. The Project will be based on Android Technology. As students will be receiving academic credit for this position, they will not be paid any remuneration or stipend during the period.

Thanking You!



20.03.2019

To,
The Principal,
Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur


Subject: Project Completion Certificate

Dear Sir/Madam,

We hereby inform you that the project titled **“Solar-PV based mini grid for rural electrification with harmonic reduction”** is completed by the project group from your college, on this day of 20th March 2019. The group members are;

1. Ms. Snehal Kachare
2. Mr. Kamlesh Karpate
3. Ms. Diksha Dorlikar
4. Mr. Nitin Wakode

The project will help us to install a Solar Roof Top System in our Offices. The work done by the group is satisfactory.


Authorized signature



Department of Computer Science & Engineering

Session 2018-19

Report on Live Project

Food Industry Data Analysis Using R- Analytics**Name of Project:** Food Industry Data Analysis Using R- Analytics**Report Submitted By:** 1. Shubham A. Peshane.

2. Rasika P. Kurade.

3. Niraj O. Chafle.

4. Pallavi R. Raut

Year/Semester: 4th Year / 8th Sem**Project Guide:** Prof. G. Rajesh Babu**Collaborating Industry Name:** Cojag Smart Technology Pvt. Ltd. Nagpur**Introduction:**

This project intends to tap the power of classification techniques to predict the success of restaurant. Decision Tree is one of the classification technique which is used for this particular use case. But the logic used here is applicable to many existing small businesses and people intending to start a business. There are many ingredients in a food item served at a restaurant but the item is best when the right ingredients are used in right proportion and cooked to right temperature. A good chef is essential to a good restaurant but many successful chefs have failed to make a successful restaurant. Restaurant, unlike a food item, is a business and it will only succeed if its customers are happy. We don't need a psychic to predict what will make a customer happy, however, we can use our psychology/common sense to easily identify the essential things to run a restaurant. 99.9% of restaurant Owners in the world have the basic understanding of how to run their business, yet, not all of them are successful. Which means, we need a psychic who can tell us what the customer is thinking and what is that one thing/group of things that will make him/her happy? This project intends to reveal exactly that, but, with the help of Decision Tree classification technique

Objective:

- If they know the store will come to crisis in matter of months, they could take steps to avoid the miss fortune such as to make changes on the style of the store, or in consider choosing a new placement to minimize economic losses.
- Usually store owners make long term decisions based on empirical judgment.
- Due to limited data sources and lack of analytic tools, it is traditionally challenge to make data-driven decision.



Department of Computer Science & Engineering

- With the development of information techniques, especially the growth of online location-based services a large amount of business related data can be collected through the internet.

Conclusion

The problem of restaurant survival prediction by modelling four perspectives: geographical metrics, user mobility, rating scores, and review text. We provide detailed analysis on each perspective separately and demonstrate its predictive power. We find that if used properly, review text can react a restaurant operating status best. Comprehensive experiments show that integrating different predictors can lead to the best model, and it is common among different cities. In the future study, we are going to: (1) investigate more appropriate language models to extract better knowledge from review text; (2) design a unified model to incorporate heterogeneous learning algorithms so that the performance will not be limited by a single learning algorithm such as GB-DT.

This empirical study found that expensive restaurants in selected cities in India yield customer satisfaction. In comparison with the costs among these cities Mumbai is concluded as the most expensive one than other cities like Bhopal, Pune, Indore, Bangalore etc. At the second ranking according to costs and ranking Bhopal leads other cities.

Submitted By: 1. Shubham A. Peshane. *S. Peshane*
 2. Rasika P. Kurade. *R. Kurade*
 3. Niraj O. Chafle. *N. Chafle*
 4. Pallavi R. Raut. *P. Raut*

G. Rajesh Babu
 Forwarded By: Prof. G. Rajesh Babu

Guide
 Assistant Professor
 Dept. of Computer Science & Engg.
 Tulsiramji Gaikwad-Patil College of
 Engineering and Technology, Nagpur



Department of Computer Science & Engineering

Session 2018-19

Report on Live Project

Emergency Management Service

Name of Project: Emergency Management Service

Report Submitted By: 1. Amol K. Batauwale.

2. Ranjeet D. Selokar.

3. Shubham P. Choudhari.

4. Akshay D. Teltumbade.

Year/ Semester: 4th Year / 8th Sem

Project Guide: Prof. Jiwan Dehankar

Collaboration Industry Name: VN TechnoSoft Pvt. Ltd. Nagpur

Introduction:

Mass casualty incidents (MCIs) have caught more attention of the society during the past few years. Disaster is one of the most common reasons causing a MCI. It is defined as "a serious disruption of the functioning of a society, causing widespread human, material or environmental losses which exceed the ability of the affected society to cope using only its own resources" by the United Nations Disaster Management Training Program (UNDMTP). Though many pre- event preparations can be done to prevent an incident or at least reduce the casualty when one happens, natural disaster is unpredictable. Proposed System mainly focuses on the incident response and rescue process the period between the occurrence of the incident and the accomplishment of all evacuations. During this period, Emergency Medical Services (EMS) plays an important role by providing effective, responsible pre-hospital care. Their performance influences the chance of survival among victims. In this system we introduce the user interface design for EMS system. With an Android device, EMS provides emergency personnel the ability to collect information in real time, track the resources and manage them. It allows the responders and commanders to manage multiple incidents simultaneously. We propose to implement two apps, namely commander app and responder app where responder will report the real-time situation status of the victim, exact geo-location and level Criticalness to the command center. In response to the report notification will be provide to the EMS to attend the victims accordingly.

Objective:

- The problem with the currently developed system is the evacuation process begins when some victims are triaged with priorities

Department of CSE



Department of Computer Science & Engineering

- The casualties with the highest priority are moved to a triage category specific collection point for further on-site treatment and/or transportation and the walking wounded (green) are readily separated from more seriously injured casualties through good crowd communication and Control
- Dead victims are suggested to be transferred to an isolated location and Our contributions include designing two user-friendly emergency rescue apps with enhanced mechanism for locating area.

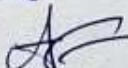
Conclusion


A comprehensive communication solution is also developed and tested to handle the data transmission between all the components of EMS. This system presents the Emergency location tracking system using GPS network, suitable for wide range of application all over the world. The combination of the GPS provides continuous and real time tracking. Google map is used to locate the EMC and patient. It is expected that the full implementation of the proposed system would ultimately replace the traditional tracking systems.

Submitted By: 1. Amol K. Batauwale. 

2. Ranjeet D. Selokar. 

3. Shubham P. Choudhari. 

4. Akshay D. Teltumbade. 


Forwarded By: Prof. Jiwan Dehankar

Guide
Assistant Professor
Dept. of Computer Science & Engg
Tulsiramji Gaikwad-Patil College of
Engineering and Technology, Nagpur



Department of Computer Science & Engineering

Session 2018-19

Report on Live Project

Automated Dashboard for Ride Hailing Devices Using Point Tracking System

Name of Project: Automated Dashboard for Ride Hailing Devices Using Point Tracking System

Report Submitted By: 1. Monika R. Walde.

2. Nilima A. Sagulale.

3. Pallavi H. Naukarkar.

4. Pallavi P. Umare.

5. Geeta G. Bangde.

Year/Semester: 4th Year / 8th Sem

Project Guide: Prof. Neha Mogre

Collaborating Industry Name: Cojag Smart Technology Pvt. Ltd. Nagpur

Introduction:

GPS technology has been embedded into portable, low-cost electronic devices now a days to track the movements of mobile objects. This implication has greatly impacted the transportation field by creating a novel and rich source of traffic data on the road network. Although the promise offered by GPS devices to overcome problems like under reporting, respondent fatigue, inaccuracies and other human errors in data collection is significant: the technology is still relatively new that it raises many issues for potential users. These issues tend to revolve around the following areas: data reliability, data processing and the related application.

This project aims to study the GPS tracking from the methodological, technical and practical aspects. It first evaluates the reliability of GPS-based traffic data based on data from an experiment containing three different traffic modes (car, bike and bus) traveling along the road network. It then outline the general procedure for processing GPS tracking data and discuss related issues that are uncovered by using real-world GPS tracking data of cars. Thirdly, it investigates the influence of road network density in finding optimal location for enhancing travel efficiency and decreasing travel cost.

Objective:

- The application of these technologies is likely to reinvent existing prototypes, change the ecosystem, and revamp customer satisfaction.
- Along the transformation journey, the profit pools will shift, and the economic value will be forever altered.

Department of CSE





Department of Computer Science & Engineering

Conclusion

In methods of analysing the physical signatures obtained from complex road- vehicle interaction are presented. It is shown that the vertical vibration signatures of a moving vehicle offer strong insights into the nature of such interaction. It is possible to build predictive models of such interaction so that behavioural aberrations can be identified even for a smaller data sample.

Over last year, alternative technologies have emerged which seem able to overcome some of these problems. Collecting real-time traffic data by tracking vehicle position is one of them. Computer vision presents significant advantage over other traditional vehicle measurement technologies. Computer vision system are more flexible, less invasive, and more precise, more robust, easier to maintain, produce richer information, do not affect the integrity of the road and offer as an added bonus, the possibility to transmit images for human supervision. It has been identified that the existing methods are not suitable for Indian traffic conditions which is generally heterogeneous in nature. A new solution is proposed in this report which works very efficiently for Indian traffic and the experimental results demonstrated the same.

- Submitted By :
1. Monika R. Walde. *Monika*
 2. Nilima A. Sagulale. *Nilima*
 3. Pallavi H. Naukarkar. *P. Naukarkar*
 4. Pallavi P. Umare. *P. Umare*
 5. Geeta G. Bangde. *Geeta*

Neha

Forwarded By: Prof. Neha Mogre

Guide
 Assistant Professor
 Dept. of Computer Science & Engg
 Tulsiramji Gaikwad-Patil College of
 Engineering and Technology, Nagpur



Department of Civil Engineering

Field Project Report

Name of Student :- Kajal Meshram

Semester :- 7th Semester

Roll No. :- 28

Introduction:-

PWD could successfully set the trend and standard in the country's has team of Civil highly qualified and experienced professionals infrastructure development. It plays pivotal role in the implementation of government construction projects. It also undertakes projects for autonomous bodies as deposite works. Public works Department forming a multi- disciplinary team of civil, electrical and mechanical engineers who work alongside architect from the department of Architecture with its strong base of standards & professionalism developed over the years. PWD is the repository of Expertise and hence the first choices among discerning clients for any type of construction agency of the government, it performs regulatory functions in setting the place and managing projects for the country's construction industry under the close supervision of the Ministry of housing & Public Work Department (PWD), under the Ministry of housing and public works is the Pioneer in construction area of Bangladesh. Over about countries works.

Aim: - To Study about the Rigid Pavement and it's Materials.

Objective:-

1. It requires less maintenance compared to flexible pavements.
2. It can bear heavy static and dynamic load
3. It provides a smooth and level surface irrespective of the undulation of the subgrade.

Details of Project:-

Duration of Training :- 20th May 2019 to 19th June 2019

Name of Company :- PWD Nagpur

Name of Executive Engineer :- Mr. Pravin Gharpande

Name of Site Engineer :- Mr. Ram Nagpure

Location of the Project :- Omakar Nagar

Cost :- 4.5 Crore

Conclusion :-

Our 30 days industrial attachment with PWD Nagpur has been one of the most interesting productive And instructive Experience in our Life through this training, we have gain new insight and more comprehensive understanding about the real industrial working condition & practice, it also improve our soft and functional skills. All these valuable experiences through the direct involvement in task but also through other aspects training such as

1. Work observation
2. Superior and other people
3. And from what we have undergone , we are sure that industrial training program has achieved it's primary objective as a Result if the program we are now more confident.



Field Project at Rigid Pavement Site With Executive Engineer

Submitted By
Kajal Meshram

Co-ordinator

Assistant Professor
Department of Civil Engineering
T.G.P.C.E.T.Nagpur.

(Prof. A.D. Naharkar)

H.O.D.
Civil Engg. Dept.
H.O.D.
Department of Civil Engineering
T.G.P.C.E.T.Nagpur.



Tulsiramji Gaikwad-Patil College of Engineering and Technology

Wardha Road, Nagpur-441 108

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Session 2018-19

Department of Civil Engineering

Field Project Report

Name of Student : - Pritesh Ramteke

Semester: 7th Semester

Roll No. : -39

Introduction:-

The Project Name is Operation and Maintenance of 4 – Lane Borkhedi – Jam -Wardner Section of NH – 7 from km 36.600 to km 93.750 (North South Corridor) in the state of Maharashtra (Package OMT- 29). The work was under National Highway Authority of India. The Project was started from 25th Aug, 2014.

Aim: - To Study about the Maintenance of 4 lane Borkhedi – Jam – Wardner section of NH – 7 from km 36.600 to km 93.750 (North South Corridor).

Objective:-

1. It prevents road accident.
2. The Maintenance of National Highway provides smooth Travelling.
3. It Provides Easier Transportation.

Details of Project:-

The Project site is a four lane divided highway comprising the Section of NH-7 starting from Km 36.600 to Km 93.750 i.e. Borkhedi-Jam-Wardner Section in the State of Maharashtra. The land, carriageway and structures comprising the site are described below: The site of the Project Highway comprises the features described below (as per Schedule A of Concessionaire Agreement):

Sr. No.	Chainage (Km)		Total row(m)	Service Road (width- 5.5 m) Length (km)	Toll Plaza Location	Location
	From	To				
1	36.600	63.800	45	3.841	NIL	NA
2	63.800	93.750	60	11.852	TP-4	Km 92.500 at Darod

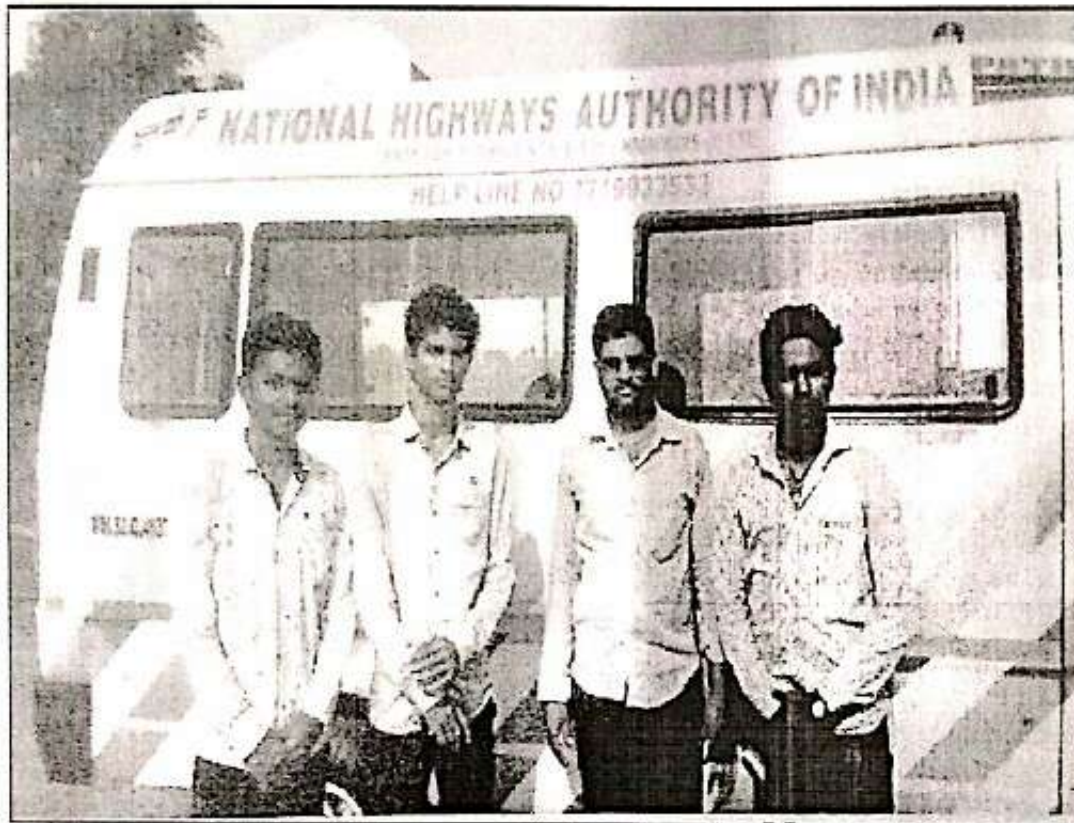
Following Stretches of highway were not handed over to the Concessionaire in Schedule B, in the beginning, being incomplete

1. km.36.600 to km. 38.100 (1.5 km) for ROB Borkhedi Gap on LHS with Expected Date of Completion as 31.03.2014. ROB Since completed and stretch handed over for tolling w.e.f. 01.04.2018.
2. km 75.950 to km 77.100 (1.150 km) for Hinganghat ROB Gap (LHS and RHS) with expected date of completion as 3.08.2014

Conclusion :-

This five week training programmed in Maintenance of 4 Lane Borkhedi – Jam - Wardner Section of NH-7 from km 36.600 to Km 93.750 (North South (Corridor) proved to be very beneficial. In this span of live week I tried to learn management skill, road maintenance, road maintenance equipment's etc. if I would have got more time, it could have been more beneficial to me.

From this training, there has been a substantial increase in my technical knowledge and I came to know about the national highway road maintenance according NHAI. Consequently confidence of working on field has boosted than earlier. The entire staff on the site guided me so well. So, I am very thankful to them for solving my difficulty despite of their busy schedule. I am heartily thankful to the Suyesh Sharma office manager at LION ENGINEERING CONSULTANT giving me opportunity on the road maintenance site.



Field Project at 4- Lane Borkhedhi – Jam Wardner Section of NH-7

Submitted By
Pritesh Ramteke

Pritesh

A. D. Nahaikar
Co-ordinator

Assistant Professor
Department of Civil Engineering
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Department of Electrical Engineering

Session 2018-19
Report on Live Project
Title of Project: Solar PV Based Mini Grid System for Rural Electrification with Harmonic Reduction

Report Submitted By: 1. Snehal Kachare

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3. Kamlesh Karpate

4. Nitin Wakode

Year/ Semester: 4th Year / 8th Sem

Project Guide: Prof. Radharaman Shaha

Collaboration Industry Name: Supreme Industrial Products Pvt. Ltd

Introduction:

Distributed and Decentralized Generation (DDG) is one of the important aspects of the Rural Electrification. The rural areas are deprived of the continuous electricity supply due to the large distance from the generation centers. It is not economical to supply electricity to the remote interior villages. In such cases the decentralize generation is useful, by forming the mini grid system. However the use of power electronics components may inject the harmonics in the system and lower the power quality. Therefore a mini grid system with harmonic reduction system can help the decentralized system more reliable and efficient than the conventional grid system.

Objective:

- The conventional grid system is economical in the places where the demand centres are near the generation centres.
- The issues of losses are of higher importance in the rural areas where the supply is curtailed to the few hours in a day, as well as the supply is having power quality problems.
- The DDG's can be of great use in the case of the rural electrification. The village is to provided with the uninterrupted power supply so as to increase the contribution in the GDP of the country.

Conclusions:

The Solar PV based mini grid system provides a continuous supply for the rural areas as well as the harmonic reduction gives the reliable power quality.

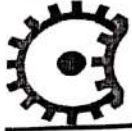

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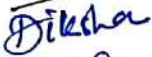
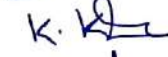

Wardha Road, Nagpur-441 108

NAAC Accredited

Department of Electrical Engineering

Certificate

This is to certify that the following students have carried out the project work on "Solar PV Based Mini Grid System for Rural Electrification with Harmonic Reduction" under the supervision of Supreme Industrial Products Pvt Ltd, Nagpur.

1. Snehal Kachare 
2. Diksha Dorlikar 
3. Kamlesh Karpate 
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