



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

NAAC Accredited with 'A' Grade

Ph.: 07104-242919, 242623, 242588

Website : www.ycce.edu E-mail : principal@ycce.edu

Summary of 3.1.2

The institution provides seed money to its teachers for research

Year	2020-21	2019-20	2018-19	2017-18	2016-17
Seed Money in Lakhs	2.46	1.7	8.62	18.23	14.53
Avg. Seed Money	(45.54/ 5) = 9.1 Lakhs				

Supporting Documents

1. Sanction Letters of the seed money for the Proposal
2. Project Documents
3. Bank Statements



Principal
Yeshwantrao Chavan
College of Engineering
Wanadongri Hingna Road,
NAGPUR - 441110

Index-3.1.2

2020-21

Sr. No.	Name of Supporting Documents	Page No.
1.	Sanction Letters of the Seed Money for the proposal	1-7
2.	Project Documents	8-32
3.	Bank Statements	33-40

Sanction Letters of the Seed

Money for the proposal



Research and Development Cell

YCCE/R and D Cell/2021-22/ / 669

Date: 27/08/2021

To

Dr. Pravin Zode

Department of Electronics Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Experimental Research

Dear Dr. Pravin Zode

We are pleased to inform you that your proposal titled "Long Range Wireless Communication Setup" was recommended by committee for approval, the proposal is approved for financial assistance of Rs. 37,800 under nonrecurring and 3000/- under recurring expenses, totaling **Rs. 40,800/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv
Assistant Dean,
Funding Proposal

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

Copy To

- HoD, Department of Electronics Engineering, YCCE
- A/C Section, YCCE



Research and Development Cell

YCCE/R and D Cell/2021-22/1011

Date: 27/02/2021

To

Dr. U. S. Ghodeswar

Department of Electronics Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Experimental Research

Dear Dr. U. S. Ghodeswar

We are pleased to inform you that your proposal titled "Wireless Communication using Zigbee" was recommended by committee for approval, the proposal is approved for financial assistance of **Rs. 10,000** under nonrecurring expenses.

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitriv
Assistant Dean,
Funding Proposal

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

Copy To

- HoD, Department of Electronics Engineering, YCCE
- A/C Section, YCCE





Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

Research and Development Cell

YCCE/R and D Cell/2021-22/

Date: 16/09/2021

To

Prof. A. A. Yadav

Department of Civil Engineering

Subject: Approval of Proposal submitted under In-House Innovative Minor Patentable Product Scheme.

Dear Prof. A. A. Yadav

We are pleased to inform you that your proposal titled "Utilization of metakaolin and concrete slag in concrete." was recommended by committee for approval; the proposal is approved for financial assistance of Rs. **30,000/-** under recurring expenses.

You are requested to initiate the work on the project at the earliest.

Dr. Sandip Khedkar/
Dr. Nita D. Rehpade
Assistant Dean,
IPR Vertical

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

Copy To

- HoD, Department of Civil Engineering, YCCE
- A/C Section, YCCE



Nagar Yuwak Shikshan Sanstha's

Yashwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

Research and Development Cell

YCCE/R and D Cell/2021-22/

Date: 16/09/2021

To

Dr. Atul Lilhare

Department of Electrical Engineering

Subject: Approval of Proposal submitted under In-House Innovative Minor Patentable Product Scheme.

Dear Prof. Atul Lilhare

We are pleased to inform you that your proposal titled "Development of Power Factor Correction device for residential load." was recommended by committee for approval, the proposal is approved for financial assistance of **Rs. 6,100/-** under nonrecurring and **5,000/-** under recurring expenses, totaling **Rs. 11,100/-**.

You are requested to initiate the work on the project at the earliest.

Dr. Sandip Khedkar/
Dr. Nita D. Rehpade
Assistant Dean,
IPR Vertical

Dr. Ujwala Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

Copy To

- HoD, Department of Electrical Engineering, YCCE
- A/C Section, YCCE



Nagar Yuwak Shikshan Sanstha's

Yashwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

Research and Development Cell

YCCE/R and D Cell/2021-22/

Date: 16/09/2021

To

Prof. Kuldeep Pande

Department of Electronics Engineering

Subject: Approval of Proposal submitted under In-House Innovative Minor Patentable Product Scheme.

Dear Prof. Kuldeep Pande

We are pleased to inform you that your proposal titled "Automatic Book Collector Bot" was recommended by committee for approval, the proposal is approved for financial assistance of **Rs. 13,500/-** under nonrecurring expenses and **2,500/-** under recurring expenses, totaling **Rs. 16,000/-**.

You are requested to initiate the work on the project at the earliest.

Dr. Sandip Khedkar/
Dr. Nita D. Rehpade
Assistant Dean,
IPR Vertical

Dr. Ujwala Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

Copy To

- HoD, Department of Electronics Engineering, YCCE
- A/C Section, YCCE



Research and Development Cell

YCCE/R and D Cell/2021-22/1010

Date: 27/08/2021

To

Dr. Atul Lilhare

Department of Electrical Engineering

Subject: Approval of Proposal submitted under In-House Scheme of Innovative Experimental Research

Dear Prof. Atul Lilhare

We are pleased to inform you that your proposal titled "Installation of automatic UPS system at Home (Demo Model)" was recommended by committee for approval, the proposal is approved for financial assistance of Rs. 10,700 under nonrecurring and 1000/- under recurring expenses, totaling **Rs. 11,700/-**

You are requested to initiate the work on the project at the earliest.

Dr. Yogita Chitri
Assistant Dean,
Funding Proposal

Dr. Ujwala Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

Copy To

- HoD, Department of Electrical Engineering, YCCE
- A/C Section, YCCE



Project Documents



Department of Electronics & Telecommunication Engineering

Date :- 17/08/2021

Note

Subject :- Approval for UG project bill for the session 2020-21.

The UG project expenses for the academic session 2020-21 are Rs. 89884.07

UG project Budget allocated to the department (inRs.)	Actual Project expenses for 2020-21 (inRs.)
2,00,000	89884.07

The details are as enclosed herewith. The amount of Rs.89884.07 may please be approved towards expense on UG projects .

Dr. M.S. Narlawar
HoD, ETC

For NA

18/08

ALLH belt

To,
The Principal ,
YCCE, Nagpur

Estimate of Project Expenses
Annexure "A"

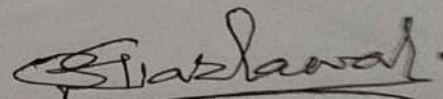
Department :- Electronics & Telecommunication Engineering

Title of the Project	Name of the Students	Roll No.	Likely Date of Commencement & Completion of Project		Estimates of Project			Total Estimated Cost (a)+(b)+(c)	Guide Name
			Commencement	Completion	a) Cost of Major Components (in Rs.)	b) Fabrication Cost (in Rs.)	c) other expences (in		
Warehouse Management System	Tanmay Choudhari	70	23/09/2019	31/03/2021	9,637	491	2571.07	12699.07	Prof. Minal Keote
	Tanmay Alone	71							
	Ashar Ahmad	47							
	Mayank Fandi	54							
Smart Automated Covid-19 Prevention System	Pragati lalsare	18	30/07/2021	30/03/2021	10,249	nil	nil	10249	Dr. Prabhakar Dorge
	Vishal Bramhankar	178							
	Kunal Tonge	174							
	Shantanu Shende	163							
	Ganesh Sirgamshettiwar	159							
IoT Based Home Security System	Dishank Ganvir		6/1/2020	3/1/2021	10,146	nil	nil	10146	Mr. C.S. Gode
	Ashay Nishan								
	Suyog Kale								
	Amruta Bhosale								
Autonomous Flight controller for LAUS	Shreya Kolluru		1/6/2020	30/05/2021	10,812	NIL	Nil	10,812	Dr. Mrs. Yogita Chitriv
	Mrunal Himole	57							
	Himanshu Hulke	51							
	Prathamesh Upadhye	61							
	Rizewan Shiekh	65							
IoT based Air Pollution Monitoring System	Disha Suneja	6	6/29/2020	4/30/2021	5,189	587	nil	5776	Dr.M.S.Dorle
	Eshank Parhad	49							
	Aniket wagh	44							
	Rohit tahiliani	41							
	Adesh Deshmukh	42							

Touchless IOT based Ration Distribution System	Pranay mate	60	8/20/2020	5/5/2021	3,814	nil	nil	3,814	Dr. N.D. Rehgate
	Sakshi Relkar	216							
	Nikita Tabhane	115							
	Mehjabin Sheikh	211							
	Shantanu Gondane	171							
Deepashri Sonpure	108								
Wireless Sensor monitoring Using Lora communication	SHRUTI N. BHAIWAR	6/1/2020	4/30/2021	20,360	nil	nil	20360	Mrs. K.P. Kamble	
	SHUBHANGINI R. GHARE								
	RUTUJA P. SHETE								
Autonomous all Terrain Vehical	SHIVANI B. MANDLEKAR	6/1/2020	3/30/2021	16,028	nil	nil	16,028	Prof. Y.S. Kale	
	Kireet Deshmukh								
	Pranay Thakre								
	Rushikesh Kate								
	Janhavi Ghuguskar								
Bhagyashree Sharma									
Total Amount				86,235	1078	2571.07	89,884		

Remarks By Head of the Department - Recommended -no of UG Projects :- 8

Total Estimated Cost Rs.89884.07


Signature of Head of the Department

Approved /
Not Approved
Principal , YCCE

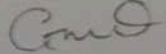


YESHWANTRAO CH. VAN COLLEGE OF ENGINEERING
APPROVAL FOR PROJECT EXPENSES
 Session 2020-21

S.No.	Title of Project	Name of Students	Roll.No.	Likely date of Commencement & completion of project		Estimate of			Total Estimated cost	Remark
				Commencement	Completion	a) Cost of Major component	b) Fabrication Cost	c) Other Expenses		
1	Energy Conservation using IOT	Kaustubh Mahajan	38	01-Aug-20	30-Apr-21	8624/-			8624/-	
		Mayur Kale	43							
		Saurabh Patil	53							
		Sumit Gandhi	62							
2	Intelligent System For Management Care	Mayuri Tayade	111	01-Aug-20	30-Apr-21	3552/-			3552/-	
		Nandini Nandekar	115							
		Sakshi Nathile	126							
		Vaishnavi Jadhav	140							

Remark by H.O.D. -Recommended - No of Project- 02

Total Estimated Cost -Rs.12,176(Twelve Thousand One Hundred Seventy Six)


 Signature of HOD
 (Approval/ Not Approval)


 Principal

2021

Session 20-21

Estimate of Project Expenses
Annexure "A"

Department :- Electronics Engineering

Title of the Project	Name of the Students	Roll No.	Estimates of Project			Total Estimated Cost (a) + (b) + (c)	Guide Name
			a) Cost of Major Components (In Rs.)	b) Fabrication Cost (In Rs.)	c) other expenses (In Rs.)		
GreenIoT a smart IOT gateway for connected farming and agricultural applications .	Trakshay Balagotra	68	3,361			3361	Dr. Ujjwala S. Ghodeswar
	Tejas Parate	67					
	Aditya Borale	138					
	Ketan Pawar	42					
	Sanika Mahajan	19					
Broken Rail Track Detector	Suyash Bhatt	64	6,596			6596	Dr.P.T.Karule
	Kalyani Duratkar	7					
	Mrunalini Bhajbhujje	11					
	Vaishnavi Zilpe	24					
	Pooja Raut	12					
Face Recognition Lock	Ashlesha Shembekar	3	6,189			6189	Prof. A.V.Gokhale
	Khusbhu Zade	8					
	Aniket Malghade	34					
	Pradyumna Tumaskar	48					
	Sagar Dewani	56					
IOT Based Street light Monitoring using FPGA	Kunal Thuturkar	162	9,100			9100	Dr. P.P.Zode
	Swapnil Gotmare	177					
	Laxmi Gaydhane	164					
	Chetan Bante	157					
	Pragati Surjan	113					
Total Amount			25,246			25,246	

Remarks By Head of the Department - Recommended -no of UG Projects :- 04

Total Estimated Cost Rs.25246.00

[Signature]
Signature of Head of the Department

Approved / Not

[Signature]
Principal, YCCE



[Signature]
Principal
Yeshwantrao Chavan
College of Engineering
Wanadongri Hingna Road,
NAGPUR-441110

SHOT ON MI A2
MI DUAL CAMERA

Acceptance Letter

Date:- 22/08/2020

To,
Head of Department,
Electronics and Telecommunication Department,
Yeshwantrao Chavan College of Engineering, Nagpur.

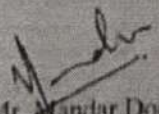
Subject :- Collaboration of UG project

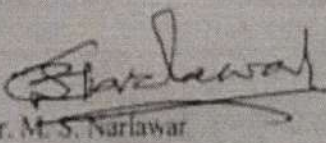
I the undersigned confirm my acceptance as a co-guide for the UG project titled "Warehouse Management System" under the guidance of Mr. Mandar Dongarwar. I will provide them necessary guidance for smooth completion of their project work.

Thanking you.

Projectees:

1. Tanmay Choudhari
2. Tanmay Alone
3. Ashar Ahmad
4. Mayank Fandi


Mr. Mandar Dongarwar
Project Manager
Wi-Fi Band Inc, Nagpur


Dr. M. S. Narlawar
HoDET Dept



2021/6/15 10:53

CERTIFICATE OF APPROVAL

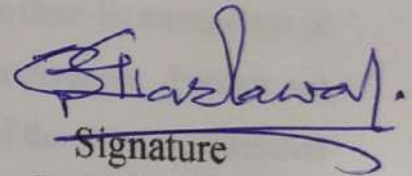
This is to Certify that the project report entitled "Smart Automated Covid-19 Prevention System" has been successfully completed by Pragati D. Lalsare, Vishal R. Bramhankar, Kunal S. Tonge, Ganesh R. singamshettiwar and Shantanu S. Shende under the guidance of Dr. P. D. Dorge and Mr. A.P. Deshpande in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).



Signature
Dr. P.D. Dorge
(Guide)



Signature
Mr. A.P. Deshpande
(Industry Person)



Signature
Dr. M.S. Narlawar
(HoD, ET Dept.)

Signature of External Examiner
Name:-
Date of Examination:

CERTIFICATE OF APPROVAL

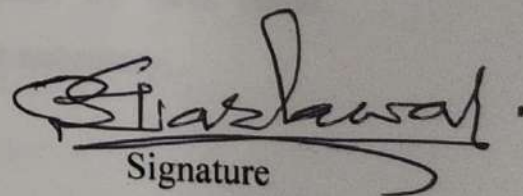
Certified that the project report entitled "SMART HOME SECURITY SYSTEM" has been successfully completed by **Amruta Bhosale, Shreya Kolluru, Ashay Nishan, Dishank Ganvir and Suyog Kale** under the guidance of **Prof. Chetan Gode** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in **Electronics And Telecommunication Engineering**, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**.



Signature

Prof. Chetan Gode

(Guide)



Signature

Dr. MS Narlawar

(HoD,ET)

CERTIFICATE OF APPROVAL

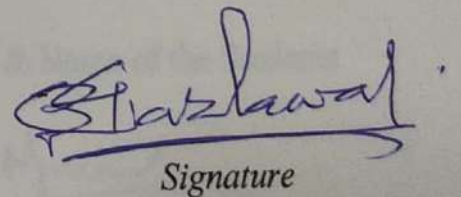
This is to Certify that the project report entitled “**Autonomous Flight Controller for Unmanned Aerial Vehicle**” has been successfully completed by **Mrunal Shinde, Prathamesh Upadhye, Himanshu Hulke, Rizwan Sheikh, Disha Suneja** under the guidance of **Dr. Y.U Chitriv(Dubey)** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Signature

Dr. Yogita Chitriv

Project Guide



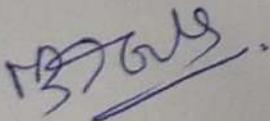
Signature

Dr. M.S. NARLAWAR

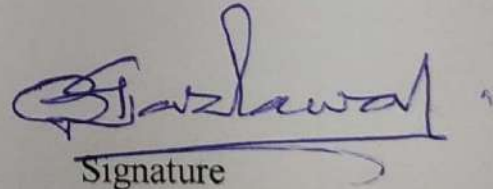
HOD, ETC Dept., YCCE

CERTIFICATE OF APPROVAL

This is to Certify that the project report entitled "AIR QUALITY MONITORING SYESTEM USING IOT" has been successfully completed by ESHANK PARHAD , ANIKET WAGH, ADESH DESHMUKH, PRANAY MATE, ROHIT TAHILIANI under the guidance of Dr. M.S.DORLE in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature
Dr. M.S. DORLE
(Project Guide ET Dept.)

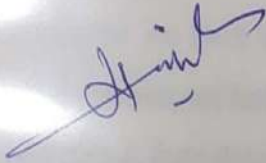


Signature
Dr. M.S. NARLAWAR
(HOD ET Dept.)

Date of Examination: 15/06/2021

CERTIFICATE OF APPROVAL

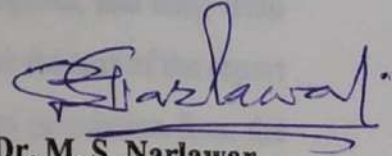
This is to certify that the project report entitled "IoT Based Ration Distribution System" has been successfully completed by Sakshi Relkar, Mahejabin Shiekh, Nikita Tabhane, Deepshri Sonpure, Shantanu Gondane under the guidance of **Dr. N. D. Rehpade** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Dr. N. D. Rehpade
Project Guide,
Assistant Professor,
ET-Department,
YCCE, Nagpur



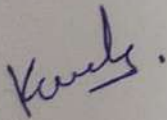
Dr. Mrs. Minal Keote
Project Coordinator,
ET-Department,
YCCE, Nagpur



Dr. M. S. Narlawar
HoD,
ET-Department,
YCCE, Nagpur

CERTIFICATE OF APPROVAL

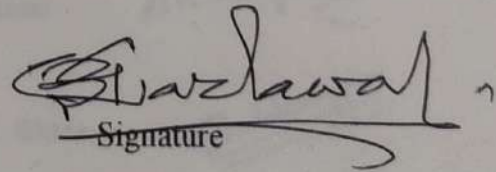
This is to Certify that the project report entitled “**Wireless Sensor Monitoring Using LoRa Communication**” has been successfully completed by **Shruti N. Bhaiswar, Shubhangini R. Ghare, Rutuja P. Shete, Shivani B. Mandlekar** under the guidance of **Prof. K. P. Kamble** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Signature

Prof. K. P. Kamble

(Project Guide)



Signature

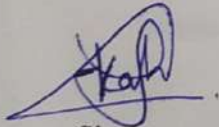
Dr. M. S. Narlawar

(HoD, ET Dept.)

Date of Examination:

CERTIFICATE OF APPROVAL

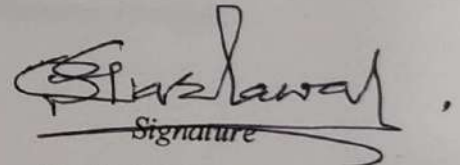
This is to Certify that the project report entitled "**Autonomous Terrain Vehicle**" has been successfully completed by **Kireet Deshmukh, Janhavi Ghuguskar, Bhagyashree Sharma, Rushikesh Kate, Pranay Thakre** under the guidance of **Prof. Y. S. Kale** in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Electronics & Telecommunication Engineering, **Yeshwantrao Chavan College of Engineering** (*An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University*)



Signature

Prof. Y.S. Kale

(Guide)



Signature

Dr. M. S. Narlawar

(HoD, ET Dept.)

YESHWANTRAO CH. VAN COLLEGE OF ENGINEERING
APPROVAL FOR PROJECT EXPENSES
 Session 2020-21

S.No.	Title of Project	Name of Students	Roll.No.	Likely date of Commencement & completion of project		Estimate of			Total Estimated cost	Remark
				Commencement	Completion	a) Cost of Major component	b) Fabrication Cost	c) Other Expenses		
1	Energy Conservation using IOT	Kaustubh Mahajan	38	01-Aug-20	30-Apr-21	8624/-			8624/-	
		Mayur Kale	43							
		Saurabh Patil	53							
		Sumit Gandhi	62							
2	Intelligent System For Management Care	Mayuri Tayade	111	01-Aug-20	30-Apr-21	3552/-			3552/-	
		Nandini Nandekar	115							
		Sakshi Nathile	126							
		Vaishnavi Jadhav	140							

Remark by H.O.D. -Recommended - No of Project- 02

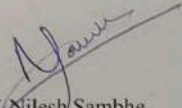
Total Estimated Cost -Rs.12,176(Twelve Thousand One Hundred Seventy Six)

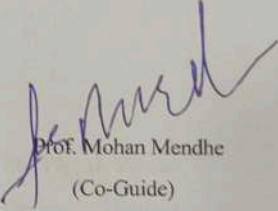

 Signature of HOD
 (Approval/ Not Approval)


 Principal

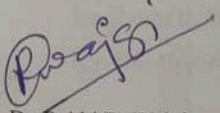
CERTIFICATE OF APPROVAL

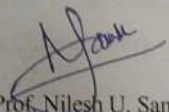
Certified that the project report entitled "*ENERGY CONSERVATION USING IOT*" has been successfully completed by **Kaustubh Mahajan**, **Mayur Kale**, **Saurabh Patil** and **Sumit Gandhi** under the guidance of **Prof. Nilesh Sambhe** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)


Prof. Nilesh Sambhe
(Guide)


Prof. Mohan Mendhe
(Co-Guide)

Dr. Mrs. Gauri M. Dhopavkar
(HOD, CT Dept.)


Dr. Rakhi D. Wajgi
Project Co-ordinator

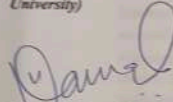

Prof. Nilesh U. Sambhe
Project Co-ordinator

Name and signature of External Examiner:

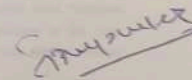
Date of Examination:

CERTIFICATE OF APPROVAL

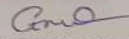
Certified that the project report entitled "INTELLIGENT MANAGEMENT SYSTEM FOR ANIMAL CARE" has been successfully completed by Mayuri Tayade, Nandini Nandekar, Sakshi Nathile and Vaishnavi Jadhav under the guidance of Dr. Lalit Damahe in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Technology, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



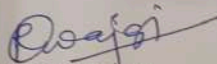
Dr. Lalit Damahe
(Guide)



Mr. Shrikant Ardhapurkar
(Co-guide)

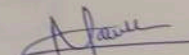


Dr. Mrs. Gauri M. Dhopavkar
HOD, CT Dept



Dr. Rakhi D. Wajgi

Project Co-ordinator



Prof. Nilesh U. Sambhe

Project Co-ordinator

Signature of External

Examiner: Name:

Date of Examination:

Greeniot: A Smart IoT Gateway For Connected Farming Agricultural Applications

This project report is submitted to
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

In partial fulfillment of the requirement
for the award of the degree
of
Bachelor of Engineering in Electronics Engineering
By

Trakshay Balagotra

Aditya Borale

Ketan Pawar

Tejas Parate

Sanika Mahajan

Under the guidance of

Dr. U.S. Ghodeswar



DEPARTMENT OF ELECTRONICS ENGINEERING,
Nagar Yuvak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,
Nagpur)
NAGPUR – 441 110
2020-2021

CERTIFICATE OF APPROVAL

Certified that the project report entitled “GreenIOT:A Smart IoT Gateway For Connected Farming and Agricultural Applications” has been successfully completed by Trakshay Balagotra, Aditya Borale, Ketan Pawar, Tejas Parate, Sanika Mahajan under the guidance of **Dr. U.S. Ghodeswar** in recognition of the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics Engineering, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University*).



Signature

Dr.U.S. Ghodeswar
(Guide)



Signature

Dr. P.T.Karule
(HoD,EE)

Broken Rail Track Detector

This project report is submitted to
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur university)

In partial fulfillment of the requirement
for the award of the degree
of

Bachelor of Engineering in Electronics Engineering

By
Mrunalini Bhajbhujje
Kalyani Duratkar
Vaishnavi Zilpe
Pooja Raut
Suyash Bhatt

Under the guidance of
Dr. P.T.Karule

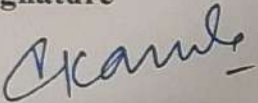


DEPARTMENT OF ELECTRONICS ENGINEERING
Nagar Yuvak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University, Nagpur)
NAGPUR – 441 110
2020-2021

CERTIFICATE OF APPROVAL

Certified that the project report entitled “**Broken Rail Track Detector**” has been completed by **MRUNALINI BHAJBHUJE, KALYANI DURATKAR, VAISHNAVI ZILPE, POOJA RAUT, and SUYASH BHATT** under the guidance of **Dr. P.T KARULE** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in **Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**.

Signature



Dr.P.T KARULE

(Guide)(HoD,EE)

Face Recognition Locker

This project report is submitted to

Yeshwantrao Chavan College of Engineering

*(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur
University)*

In partial fulfillment of the requirement

for the award of the degree

of

Bachelor of Engineering in Electronics Engineering

By

Ashlesha Shembekar

Khushbu Zade

Aniket Malghade

Pradyumna Tumaskar

Sagar Dewani

Under the guidance of

Prof. Aniket Gokhale



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuvak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur

University, Nagpur)

NAGPUR – 441 110

2020-2021

CERTIFICATE OF APPROVAL

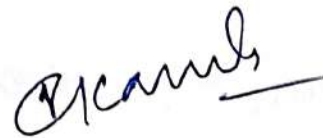
Certified that the project report entitled "FACE RECOGNITION LOCKER" has been successfully completed by **ASHLESHA SHEMBEKAR, KHUSHBU ZADE, ANIKET MALGHADE, PRADYUMNA TUMASKAR, and SAGAR DEWANI** under the guidance of **Prof. ANIKET GOKHALE** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in **Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).**

Signature



**Prof. Aniket Gokhale
(Guide)**

Signature



**Dr. P.T. Karule
(HoD, EE)**

IoT based Streetlight Monitoring using FPGA

This project report is submitted to

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In partial fulfillment of the requirement

for the award of the degree

of

Bachelor of Engineering in Electronics Engineering

By

Kunal Thuturkar

Swapnil Gotmare

Laxmi Gaydhane

Chetan Bante

Pragati Surjan

Under the guidance of

Dr. Pravin Zode



DEPARTMENT OF ELECTRONICS ENGINEERING

Nagar Yuvak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur

University, Nagpur)

NAGPUR – 441110

2020-2021

CERTIFICATE OF APPROVAL

Certified that the project report entitled "IoT based Streetlight Monitoring using FPGA" has been successfully completed by KUNAL THUTURKAR, SWAPNIL GOTMARE, LAXMI GAYDHANE, CHETAN BANTE, and PRAGATI SURJAN under the guidance of Dr. PRAVIN ZODE in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Electronics Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).



Signature
Dr. Pravin Zode
(Guide)



Signature
Dr. P. T. Karule
(HOD, EE)

Bank Statements

Branch : 2 - SAROAD BRANCH

Account : 21/130

Name : YESHWANTRAO CHAVAN COLLEGE OF ENGG.

CBS Account No :- null

Address : HINGNA ROAD WANADONGARI NAGPUR

441110

From Date: 01/04/2021

To Date : 23/09/2021

IFSC Code: HDFC0CTUB02

Opening Balance : 1,06,46,291.75

Date	Particulars	Instruments	Dr Amount	Cr Amount	Total Amount
03/04/2021	NEFT KKBKH21092631385 UNIQUE AUTOMATION PVT LTD 5			1,20,250.00	1,07,66,541.75
03/04/2021	OrigBrCd = 7 ABB TR RTGS YESHWANTRAO CHAVAN ABHIY	9940	7,85,000.00		99,81,541.75
03/04/2021	OrigBrCd = 7 ABB TR RTGS YESHWANTRAO CHAVAN ABHIY	9942	7,75,000.00		92,06,541.75
03/04/2021	OrigBrCd = 7 ABB TR RTGS CHG		129.80		92,06,411.95
05/04/2021	TR YCCE BR 21/229 RAJIV GANDHI COLLEGE OF ENG.AND			6,637.00	92,13,048.95
05/04/2021	TR NDR BR 175/36 SUSHANT PACKAGING PVT. LTD			2,77,500.00	94,90,548.95
05/04/2021	NEFT COMFORT CONSTRUCTIONS SBIN0017639 HDFC0CTUB0	9936	1,36,677.00		93,53,871.95
05/04/2021	NEFT COMFORT CONSTRUCTIONS SBIN0017639 HDFC0CTUB0	9936	5.00		93,53,866.95
05/04/2021	CGST 21/130 Ben IFSC Code = SBIN0017639	9936	0.45		93,53,866.50
05/04/2021	SGST 21/130 Ben IFSC Code = SBIN0017639	9936	0.45		93,53,866.05
05/04/2021	NEFT SHELLS ADVERTISING INC UBIN0544248 HDFC0CTUB	9924	40,056.00		93,13,810.05
05/04/2021	NEFT SHELLS ADVERTISING INC UBIN0544248 HDFC0CTUB	9924	5.00		93,13,805.05
05/04/2021	CGST 21/130 Ben IFSC Code = UBIN0544248	9924	0.45		93,13,804.60
05/04/2021	SGST 21/130 Ben IFSC Code = UBIN0544248	9924	0.45		93,13,804.15
05/04/2021	NEFT SHELLS ADVERTISING INC UBIN0544248 HDFC0CTUB	9925	29,775.00		92,84,029.15

Account : 21/130

Name : YESHWANTRAO CHAVAN COLLEGE OF ENGG.

26/04/2021	NEFT V K SURANA AND CO ICIC0000059 HDFC0CTUB02	9967	5.00	67,03,681.51
26/04/2021	CGST 21/130 Ben IFSC Code = ICIC0000059	9967	0.45	67,03,681.06
26/04/2021	SGST 21/130 Ben IFSC Code = ICIC0000059	9967	0.45	67,03,680.61
26/04/2021	NEFT PATLE ENTERPRISES IDIB000M313 HDFC0CTUB02	9990	69,962.00	66,33,718.61
26/04/2021	NEFT PATLE ENTERPRISES IDIB000M313 HDFC0CTUB02	9990	5.00	66,33,713.61
26/04/2021	CGST 21/130 Ben IFSC Code = IDIB000M313	9990	0.45	66,33,713.16
26/04/2021	SGST 21/130 Ben IFSC Code = IDIB000M313	9990	0.45	66,33,712.71
26/04/2021	NEFT PRATIK TAMBEKAR SBIN0012712 HDFC0CTUB02	9969	1,850.00	66,31,862.71
26/04/2021	NEFT PRATIK TAMBEKAR SBIN0012712 HDFC0CTUB02	9969	5.00	66,31,857.71
26/04/2021	CGST 21/130 Ben IFSC Code = SBIN0012712	9969	0.45	66,31,857.26
26/04/2021	SGST 21/130 Ben IFSC Code = SBIN0012712	9969	0.45	66,31,856.81
26/04/2021	NEFT V K SURANA AND CO ICIC0000059 HDFC0CTUB02	9960	1,62,660.00	64,69,196.81
26/04/2021	NEFT V K SURANA AND CO ICIC0000059 HDFC0CTUB02	9960	5.00	64,69,191.81
26/04/2021	CGST 21/130 Ben IFSC Code = ICIC0000059	9960	0.45	64,69,191.36
26/04/2021	SGST 21/130 Ben IFSC Code = ICIC0000059	9960	0.45	64,69,190.91
26/04/2021	NEFT DYNAMIC REFRIGERATION AND MOTOR RE UTIB00031	9999	1,456.00	64,67,734.91
26/04/2021	NEFT DYNAMIC REFRIGERATION AND MOTOR RE UTIB00031	9999	5.00	64,67,729.91
26/04/2021	CGST 21/130 Ben IFSC Code = UTIB0003168	9999	0.45	64,67,729.46
26/04/2021	SGST 21/130 Ben IFSC Code = UTIB0003168	9999	0.45	64,67,729.01
26/04/2021	NEFT SHRIKANT L SWAIN ALLA0210190 HDFC0CTUB02	10002	2,186.00	64,65,543.01
26/04/2021	NEFT SHRIKANT L SWAIN ALLA0210190 HDFC0CTUB02	10002	5.00	64,65,538.01
26/04/2021	CGST 21/130 Ben IFSC Code = ALLA0210190	10002	0.45	64,65,537.56
26/04/2021	SGST 21/130 Ben IFSC Code = ALLA0210190	10002	0.45	64,65,537.11
26/04/2021	NEFT SUPREME ENTERPRISES MAHB0000665 HDFC0CTUB02	10005	13,200.00	64,52,337.11

Account	:	21/130	Name	:	YESHWANTRAO CHAVAN COLLEGE OF ENGG.
26/04/2021	NEFT SUPREME ENTERPRISES MAHB0000665 HDFC0CTUB02	10005	5.00		64,52,332.11
26/04/2021	CGST 21/130 Ben IFSC Code = MAHB0000665	10005	0.45		64,52,331.66
26/04/2021	SGST 21/130 Ben IFSC Code = MAHB0000665	10005	0.45		64,52,331.21
27/04/2021	OrigBrCd = 12 ABB TR OWCLG2 WAR BR. CH NO 488541		6,00,000.00		70,52,331.21
30/04/2021	TR PAPER PRESENTATION FOR STAFF	9968	4,500.00		70,47,831.21
30/04/2021	TR TO STUDENT PROJECT EXPENSES	9973	1,31,342.00		69,16,489.21
30/04/2021	RTGS PRASAD PUBLICITY IBKL0000663 HDFC0CTUB02	10001	4,84,787.00		64,31,702.21
30/04/2021	RTGS PRASAD PUBLICITY IBKL0000663 HDFC0CTUB02	10001	28.00		64,31,674.21
30/04/2021	CGST 21/130 Ben IFSC Code = IBKL0000663	10001	2.52		64,31,671.69
30/04/2021	SGST 21/130 Ben IFSC Code = IBKL0000663	10001	2.52		64,31,669.17
30/04/2021	NEFT HPCL DRIVE TRACK ICIC0000104 HDFC0CTUB02	10007	40,000.00		63,91,669.17
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30/04/2021	CGST 21/130 Ben IFSC Code = ICIC0000104	10007	0.45		63,91,663.72
30/04/2021	SGST 21/130 Ben IFSC Code = ICIC0000104	10007	0.45		63,91,663.27
30/04/2021	TRANSFER TR TO STUDENT PROJECT EXPENSES	9972	39,271.00		63,52,392.27
30/04/2021	TRANSFER NEFT EXTERNAL	9970	5,750.00		63,46,642.27
30/04/2021	TRANSFER NEFT STUDENTS	9971	3,000.00		63,43,642.27
30/04/2021	TRANSFER NEFT RET ANAY PATHARKAR INVALID IFSC COD			500.00	63,44,142.27
30/04/2021	COMM ON NFET		47.20		63,44,095.07
04/05/2021	NEFT SCIENTECH TECHNOLIGIES PVT LTD UTIB0000568 H	10004	39,210.00		63,04,885.07
04/05/2021	NEFT SCIENTECH TECHNOLIGIES PVT LTD UTIB0000568 H	10004	5.00		63,04,880.07
04/05/2021	CGST 21/130 Ben IFSC Code = UTIB0000568	10004	0.45		63,04,879.62
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04/05/2021	OrigBrCd = 7 ABB TR TO YCCE STAFF WELFARE	10009	15,000.00		62,89,879.17

Account : 21/130

Name : YESHWANTRAO CHAVAN COLLEGE OF ENGG.

05/05/2021	RTGS COMFORT CONSTRUCTIONS SBIN0017639 HDFC0CTUB0	10006	2,29,226.00	60,60,653.17
05/05/2021	RTGS COMFORT CONSTRUCTIONS SBIN0017639 HDFC0CTUB0	10006	28.00	60,60,625.17
05/05/2021	CGST 21/130 Ben IFSC Code = SBIN0017639	10006	2.52	60,60,622.65
05/05/2021	SGST 21/130 Ben IFSC Code = SBIN0017639	10006	2.52	60,60,620.13
07/05/2021	NEFT ALOK AGRAWAL AND BROTHERS BKID0008706 HDFC0C	10011	24,618.00	60,36,002.13
07/05/2021	NEFT ALOK AGRAWAL AND BROTHERS BKID0008706 HDFC0C	10011	5.00	60,35,997.13
07/05/2021	CGST 21/130 Ben IFSC Code = BKID0008706	10011	0.45	60,35,996.68
07/05/2021	SGST 21/130 Ben IFSC Code = BKID0008706	10011	0.45	60,35,996.23
10/05/2021	TR KHAMLA BR 21/86 NAIR FABRICATION WORKS	10014	8,844.00	60,27,152.23
10/05/2021	TR 23/10683 GENDLAL MANIKRAO VAIDYA	9974	2,250.00	60,24,902.23
10/05/2021	NEFT V K SURANA AND CO ICIC0000059 HDFC0CTUB02	9975	9,720.00	60,15,182.23
10/05/2021	NEFT V K SURANA AND CO ICIC0000059 HDFC0CTUB02	9975	5.00	60,15,177.23
10/05/2021	CGST 21/130 Ben IFSC Code = ICIC0000059	9975	0.45	60,15,176.78
10/05/2021	SGST 21/130 Ben IFSC Code = ICIC0000059	9975	0.45	60,15,176.33
10/05/2021	NEFT HPCL DRIVE TRACK ICIC0000104 HDFC0CTUB02	10015	20,000.00	59,95,176.33
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10/05/2021	CGST 21/130 Ben IFSC Code = ICIC0000104	10015	0.45	59,95,170.88
10/05/2021	SGST 21/130 Ben IFSC Code = ICIC0000104	10015	0.45	59,95,170.43
11/05/2021	OrigBrCd = 7 ABB TR 21/2844 RANVIR CONSTRUCTION	10012	1,04,623.00	58,90,547.43
12/05/2021	NEFT DYNAMIC REFRIGERATION AND MOTOR RE UTIB00031	10023	18,272.00	58,72,275.43
12/05/2021	NEFT DYNAMIC REFRIGERATION AND MOTOR RE UTIB00031	10023	5.00	58,72,270.43
12/05/2021	CGST 21/130 Ben IFSC Code = UTIB0003168	10023	0.45	58,72,269.98

Account : 21/130

Name : YESHWANTRAO CHAVAN COLLEGE OF ENGG.

21/09/2021	CGST on Charges 21/130		13.50	1,23,05,985.70
21/09/2021	State GST on Charges 21/130		13.50	1,23,05,972.20
21/09/2021	Chq Issue Chg For 10601		150.00	1,23,05,822.20
21/09/2021	CGST on Charges 21/130		13.50	1,23,05,808.70
21/09/2021	State GST on Charges 21/130		13.50	1,23,05,795.20
21/09/2021	Chq Issue Chg For 10701		150.00	1,23,05,645.20
21/09/2021	CGST on Charges 21/130		13.50	1,23,05,631.70
21/09/2021	State GST on Charges 21/130		13.50	1,23,05,618.20
22/09/2021	RTGS MASTERSOFT ERP SOLUTIONS PVT LTD SBIN0011144	10275	8,61,300.00	1,14,44,318.20
22/09/2021	RTGS MASTERSOFT ERP SOLUTIONS PVT LTD SBIN0011144	10275	55.00	1,14,44,263.20
22/09/2021	CGST 21/130 Ben IFSC Code = SBIN0011144	10275	4.95	1,14,44,258.25
22/09/2021	SGST 21/130 Ben IFSC Code = SBIN0011144	10275	4.95	1,14,44,253.30
22/09/2021	NEFT TRAILBLAZER INCORPORATION PUNB0147200 HDFC0C	10269	51,809.00	1,13,92,444.30
22/09/2021	NEFT TRAILBLAZER INCORPORATION PUNB0147200 HDFC0C	10269	5.00	1,13,92,439.30
22/09/2021	CGST 21/130 Ben IFSC Code = PUNB0147200	10269	0.45	1,13,92,438.85
22/09/2021	SGST 21/130 Ben IFSC Code = PUNB0147200	10269	0.45	1,13,92,438.40
22/09/2021	NEFT ADARSH TRADING COMPANY SBIN0011423 HDFC0CTUB	10298	1,15,680.00	1,12,76,758.40
22/09/2021	NEFT ADARSH TRADING COMPANY SBIN0011423 HDFC0CTUB	10298	5.00	1,12,76,753.40
22/09/2021	CGST 21/130 Ben IFSC Code = SBIN0011423	10298	0.45	1,12,76,752.95
22/09/2021	SGST 21/130 Ben IFSC Code = SBIN0011423	10298	0.45	1,12,76,752.50
22/09/2021	RTGS MASS INFONET PVT LTD HDFC0000060 HDFC0CTUB02	10284	6,57,498.00	1,06,19,254.50
22/09/2021	RTGS MASS INFONET PVT LTD HDFC0000060 HDFC0CTUB02	10284	55.00	1,06,19,199.50
22/09/2021	CGST 21/130 Ben IFSC Code = HDFC0000060	10284	4.95	1,06,19,194.55
22/09/2021	SGST 21/130 Ben IFSC Code = HDFC0000060	10284	4.95	1,06,19,189.60

Account : 21/130

Name : YESHWANTRAO CHAVAN COLLEGE OF ENGG.

22/09/2021	NEFT NETWORK SOLUTIONS UBIN0550931 HDFC0CTUB02	10290	92,499.00	1,05,26,690.60
22/09/2021	NEFT NETWORK SOLUTIONS UBIN0550931 HDFC0CTUB02	10290	5.00	1,05,26,685.60
22/09/2021	CGST 21/130 Ben IFSC Code = UBIN0550931	10290	0.45	1,05,26,685.15
22/09/2021	SGST 21/130 Ben IFSC Code = UBIN0550931	10290	0.45	1,05,26,684.70
22/09/2021	NEFT MEDTRONICS EQUIPMENT LLP BKID0008766 HDFC0CT	10297	69,400.00	1,04,57,284.70
22/09/2021	NEFT MEDTRONICS EQUIPMENT LLP BKID0008766 HDFC0CT	10297	5.00	1,04,57,279.70
22/09/2021	CGST 21/130 Ben IFSC Code = BKID0008766	10297	0.45	1,04,57,279.25
22/09/2021	SGST 21/130 Ben IFSC Code = BKID0008766	10297	0.45	1,04,57,278.80
22/09/2021	NEFT AJMERA BROTHERS AND CO PUNB0035300 HDFC0CTUB	10207	5,295.00	1,04,51,983.80
22/09/2021	NEFT AJMERA BROTHERS AND CO PUNB0035300 HDFC0CTUB	10207	5.00	1,04,51,978.80
22/09/2021	CGST 21/130 Ben IFSC Code = PUNB0035300	10207	0.45	1,04,51,978.35
22/09/2021	SGST 21/130 Ben IFSC Code = PUNB0035300	10207	0.45	1,04,51,977.90
22/09/2021	NEFT AJMERA BROTHERS AND CO PUNB0035300 HDFC0CTUB	10312	1,482.00	1,04,50,495.90
22/09/2021	NEFT AJMERA BROTHERS AND CO PUNB0035300 HDFC0CTUB	10312	5.00	1,04,50,490.90
22/09/2021	CGST 21/130 Ben IFSC Code = PUNB0035300	10312	0.45	1,04,50,490.45
22/09/2021	SGST 21/130 Ben IFSC Code = PUNB0035300	10312	0.45	1,04,50,490.00
22/09/2021	RTGS YESHWANTRAO CHAVAN ABHIYANTRIKI MA PUNB01472	10317	4,95,000.00	99,55,490.00
22/09/2021	RTGS YESHWANTRAO CHAVAN ABHIYANTRIKI MA PUNB01472	10317	28.00	99,55,462.00
22/09/2021	CGST 21/130 Ben IFSC Code = PUNB0147200	10317	2.52	99,55,459.48
22/09/2021	SGST 21/130 Ben IFSC Code = PUNB0147200	10317	2.52	99,55,456.96
23/09/2021	NEFT MAHDI BAGH COMPUTERS PVT LTD BARBOSADNAG HDF	10314	306.00	99,55,150.96

Account : 21/130

Name : YESHWANTRAO CHAVAN COLLEGE OF ENGG.

23/09/2021	NEFT MAHDI BAGH COMPUTERS PVT LTD BARB0SADNAG HDF	10314	5.00	99,55,145.96
23/09/2021	CGST 21/130 Ben IFSC Code = BARB0SADNAG	10314	0.45	99,55,145.51
23/09/2021	SGST 21/130 Ben IFSC Code = BARB0SADNAG	10314	0.45	99,55,145.06

Totals / Balance :-

3,22,25,561.69 3,15,34,415.0

9,955,145.06

Closing Balance As On 23/09/2021

99,55,145.06

This is a computer generated statement Authorised Signature not required.

End Of The Report