



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

Summary of 3.2.1

Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

Year	2022-23
(INR In Lacks)	19.81

Supporting Documents

1. E copies of sanction letters of Government and non-Governmental agencies
2. First page of research base project reports

Dr. U. P. Waghe

(Principal)



Index-3.2.1

2022-23

Sr. No	Name of Supporting Document	Page Nos.
1.	E copies of sanction letters of Government and non-Governmental agencies	1-47
2.	First page of Research Base Project Reports	48-91

E copies of Sanction Letters of Government and Non-Governmental Agencies

From: <SERB_Administrator@serbonline.in>

Date: Wed, Sep 28, 2022 at 12:18 PM

Subject: SERB-Notification

To: <serbinfo1@gmail.com>

Science and Engineering Research Board

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)
Department of Science and Technology, Government of India

SCIENCE & ENGINEERING RESEARCH BOARD (SERB)

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Assistance to Professional Bodies and Seminar Symposia

File Number: SSY/2022/000532

Dated: 28-Sep-2022

Subject: Application titled "AC and DC Microgrids: Configurations, Controls and Applications"

Dear Mr. **Piyush Shrikrishna Patil,**

It is to inform you that your proposal seeking for financial assistance under "Assistance to Professional Bodies & Seminar / Symposia Scheme" has been considered and recommended for the same. We are now agreed to provide **Rs 100000/-** to meet the expenses related to **TA/DA to Young and Senior Indian Scientists and Pre-Conference printing as partial grant-in-aid** to the recommended application.

The grant is only for "**AC and DC Microgrids: Configurations, Controls and Applications**"

Dated: 10-Nov-2022 to 11-Nov-2022

Kindly submit the required document/ RTGS within 15 days of the receipt of this letter in order to enable us to process the file for the release of funds. In case, we do not receive

the requested document within the provided time, it would be presumed that you are not interested in this offer and it would be stand withdrawn automatically. No further correspondence will be entertained thereafter.

Kindly note that, no separate communication by post would be sent to you in this regard and without prior approval from SERB, convener cannot change the event date, it may not be acceptable.

With kind regards,

(Dr. Sukumar Dey)

Scientist C

Ph:

Email: seminar.symposia@serb.gov.in

Mr. Piyush Shrikrishna Patil

Electrical

**Yeshwantrao Chavan College Of Engineering , Hingna Road Wanadongri, Nagpur,
Maharashtra-441110**

***** LEGAL DISCLAIMER *****

Please do not reply to this mail !!

[SERB is now on Social-Media. Kindly follow us on Twitter:
[@serbonline](https://www.twitter.com/serbonline) <https://www.twitter.com/serbonline>]

This is a system generated information and does not require any signature. This E-Mail may contain Confidential and/or legally privileged Information and is meant for the intended recipient(s) only. If you have received this e-mail in error and are not the intended recipient/s, kindly notify us at info@serbonline.in and then delete this e-mail immediately from your system. Any unauthorized review, use, disclosure, dissemination, forwarding, printing or copying of this email or any action taken in reliance on this e-mail

is strictly prohibited and may be unlawful. Internet communications cannot be guaranteed to be timely, secure, error or virus-free. The sender does not accept any liability for any errors, omissions, viruses or computer problems experienced by any recipient as a result of this e-mail.



Science and Engineering Research Board
(a statutory body of the Department of Science & Technology, Government of India)

S & SA, LGF,
Vasant Square Mall
Sector-B, Pocket-5, Vasant Kunj,
New Delhi - 110 070

Statement of Expenditure & Utilization Certificate

(Financial Assistance to Seminar / Symposia)

SERB Sanction No: SB/SS/SSY/2022/000532

Date: 28.09.2022

1. Name of Academic Institution / University / Society etc. under whose auspices the Seminar / Conference / Workshop / Symposium etc. was organized:

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

2. Title of the Seminar / Conference / Workshop / Symposium etc.:

AC and DC Microgrids : Configurations, Controls and Applications"

3. Duration / Period of the organized event:

From			To		
Date	Month	Year	Date	Month	Year
10	11	2022	11	11	2022

4. Grant Sanctioned / Released:

1,00,000/- (Rupees One Lakh Only)

5. Out of Total expenditure of 1,09,765 (Rupees- One Lakh Nine thousand Seven Hundred Sixty five

SERB Grant of 1,00,000/- (Rupees

has been utilized as per the details given below:

S. No	Budget Head	Amount (₹)
I.	TA / DA	69665
II.	PRE CONFERENCE PRINTING	6100
III.	OTHER	
	Total (₹)	75765

6. Brief details of total income and expenditure:

Income (in ₹)		Expenditure (in ₹)	
1. By Registration	34000	1. Domestic Travel for Young and Senior Scientists (Indian Only)	69665
2. By Donations		2. Pre-Conference Printing (Announcements, abstracts etc.)	6100
3. By advertisements		3. Contingencies (Stationary items, Working Tea / Lunch, Audio-Visuals etc.)	22928
4. By Grant from SERB		4. Printing of Proceedings	NIL
5. By Other Funding Agencies		5. Other etc. (please specify)	
i.		Bouquet- 540/-	11072
ii.		Memento - 2240/-	
iii.		Accommodation of Guest- 8292/-	
....			
Grants Receivable from SERB	75765		
Total (in ₹) (Rupees One Lakh Nine Thousand Seven Hundred Sixty five only)	109765	Total (in ₹) (Rupees One Lakh Nine Thousand Seven Hundred Sixty five only)	109765

(Signature of Convener / Organising Secretary)

NOTE- STATEMENT OF EXPENDITURE AND UTILIZATION CERTIFICATE, SCANNED COPIES, SHOULD BE UPLOADED ONLINE FIRST (IF SANCTIONED THROUGH ONLINE PROCESS) AND ORIGINALS SHOULD BE SUBMITTED IN SERB OFFICE IN SHORTEST POSSIBLE TIME

FORM G.F.R. 19 A

UTILIZATION CERTIFICATE
(IN DUPLICATE)

Date:

SERB Sanction No: SB/SS/SSY/2022/00532 -28.09.2022

Certified that out of 100000/-of grants-in-aid sanctioned (but not received) during the year 2022-23 in favour of YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING vide SERB Order No. SSY/2022/0005 dated :28.09.2022 against which institute has incurred Rs.109765/- for the purpose of AC and DC Micro Configurations, Controls and Applications "Dated 10-Nov-2022 to 11-Nov-2022 & grant receivable is Rs. 75765/-

2. Also Certified that I have satisfied that the conditions on which the grants-in-aid was sanctioned have been fulfilled/are being fulfilled, and to see that the money was actually utilized for the purpose for which it was sanctioned.

*(In case of University /
Academic Institution)*


Signature of Convener /
Organising Secretary



(Head of the Institution i.e.
Registrar / Director /
Principal)
Principal
Yeshwantrao Chavan
College of Engineering
Wanadongri Hingna Road
NAGPUR-441110

Signature of Accounts /
Finance Officer/
(with Seal)

*(In case of Societies /
Association)*

Signature of Convener /
Organising Secretary

(President/Secretary)

FOR KUMAR & JAYAKRISHNAN
Chartered Accountants
F.R.N. 113708W

CA Sachin Bhojar
M.No.: 167965



UDIN: 2316796589QMYPI601
Signature of the Chartered
Accountants
(with Seal)

Date: 30/01/2023

NOTE- STATEMENT OF EXPENDITURE AND UTILIZATION CERTIFICATE, SCANNED COPIES, SHOULD BE UPLOADED ONLINE FIRST (IF SANCTIONED THROUGH ONLINE PROCESS) AND ORIGINALS SHOULD BE SUBMITTED IN SERB OFFICE IN SHORTEST POSSIBLE TIME



अखिल भारतीय तकनीकी शिक्षा परिषद

All India Council for Technical Education

(A Statutory Body of The Government of India)

(भारत सरकार का विधीक संस्थान)



पश्चिमी क्षेत्रीय कार्यालय

WESTERN REGIONAL OFFICE

औद्योगिक अनुसंधान भवन, दूसरी मंजिल,
राष्ट्रीय औद्योगिक अभियांत्रिकी संस्थान
(नोटी) परिसर, विहार झील,
मुंबई - ४०० ०८७
दूरभाषा: (०२२) २८४७००१९/२८४७५७९३
अनुडाक: wro@aicte-indian.org
अंतरताना: www.aicte-indian.org

Industrial Research Building, 2nd Floor,
National Institute of Industrial Engineering
(NITIE) Campus, Vihar Lake,
Mumbai - 400 087
Tel: (022) 28470019 / 28475793
Email: wro@aicte-india.org
Web: www.aicte-india.org
Date - 19 - 10 - 2022.

Application No. 1650514378

F. No. 01 / AICTE / IDEA-LAB-HQ / 2021-2022 | 1429

To,

The Director / Principal,

Yeshwantrao Chavan College of Engineering,
Hingna Road, Wanadongri, Nagpur, Maharashtra 441110

Sub: Release of a sum of Rs.3,00,000/- for AICTE Training & Learning (ATAL) Academy Hybrid FDP's.

Sir,

This is to convey the sanction of the Council for payment of Rs.3,00,000/- (Rupees Three lakh only.) for conduct of Hybrid FDP's on **Remote Sensing Applications with Machine Learning** to Yeshwantrao Chavan College of Engineering, Hingna Road, Wanadongri, Nagpur, Maharashtra 441110 during 14th November to 25th November, 2022 under AICTE Training & Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts.

a. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.

b. The maximum cost for conducting per programme will be Rs. 3,00,000 /- as per details given as under:

Sr. No.	Particulars	Sanctioned Amt. for 2022-23 for Blended FDP's / CPDP)
1	Honorarium to Coordinator	Rs.10000/-
2	Honorarium to Co- Coordinator	Rs.7,000/-
3	Honorarium for computer operator	Rs.1,000/-
4	Honorarium for experts (Rs.5000/- session for 14 sessions)	Rs.70,000/-
5	Provision for payment to Three Lab Technicians engaged during Lab practices @ Rs. 5000/- per Lab Technician	Rs.15,000/-
6	TA / DA to Experts engaging sessions (Lump sum)	Rs.32,000/-
7	Refreshment & Lunch (Rs.350/- head for 50 trainees for 5 days)	Rs.87,500/-
8	One Book each for 20 participants as reward	Rs.10,000/-
9	Miscellaneous charges (petty expenses not covered above)	Rs.5,500/-
10	Hands on Training material, Consumable items etc. (reimbursed on actual basis.)	Rs.62,000/-
	Total	3,00,000/-

Programmes having permission to change amounts under different heads with overall ceiling of Rs.3.00 lakh being intact.

c. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance (i) Rs.2.38 lakh (ii) 62,000 /- on actual basis to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form and original bills to WRO, Mumbai.

III. Conduct of test and issuance of certificate

- a. A test shall be conducted by coordinator at the end of the program.
- b. The certificates shall be issued to those participants who have been approved by coordinator, attended the program with minimum 80% attendance and scored minimum marks 70% in the test.

IV. Submission of documents by university/institution

a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program.

(i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.

(ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement etc. within one month of conduct of AICTE Training and Learning (ATAL) Academy programme.

b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall to adjusted.

v. General Instructions

a. Maximum 50 (minimum 30) participants may be allowed to attend blended FDP / CPDP within 100 km of host institutes. However, AICTE officials may be allowed to attend over and above the maximum limit.

b. A test has to be conducted on the last day accordingly Scheme Document 2022-23 and those who score more than 70% will be termed as successful candidates. Those who have attendance 80% or more and also score more than 70% in the test will be issued a digital certificate.

c. The sessions are to be recorded as the facility is available on the software which is being used for online delivery of FDP/CPDP. You are also requested to upload recording on YouTube of google drive.

d. Eligibility

For Institutions (Both Technical & Non- Technical).

i) The government funded institutions like IIT's IIM's, NIT's, IIT's, Universities, State Universities / Institutions / Research institutes other government organizations and PSU's.

ii) Private organisation / institutions having overall NIRF ranking up to 200 or NAAC grade A++ OR Department conducting FDP / CPDP having full NBA accreditation.

iii) Industry / Training Institutions (Experience in relevant training in last 5 years)

Coordinators must be a full time regular faculty / instructor / trainer etc. & having knowledge and experience to conduct blended FDP / CPDP.

For Participants

i) The faculty members of the AICTE approved institutions, Research scholars, PG scholar's, participants from Government, Industry, Bureaucrats/ Technicians / Professionals / School Teachers and staff of host institutions.

To be nominated by the Institute

ii) Not more than 10% from Host Institution.

iii) Maximum 50 (minimum 30) participants may be allowed to attend blended FDP/CPDP within 100 km of host institutes. However, AICTE officials may be allowed to attend over and above the maximum limit.

iv) Participants shall bear the cost of travelling and boarding/ lodging if he/ she wishes to attend ATAL FDP. However, refreshment & lunch would be provided for free.

ATAL FDPs/ CPDP are free, and No fee will be charged from any participant attending ATAL FDP / CPDP.

(e) If programme is not conducted in the financial year 2022 itself, the released amount has to be returned back to AICTE.

(f) If any extra money is required to complete the programme must be borne by the Institute from their own resources but the quality of the activities should not be compromised.

(g) FDP / CPDP, title name, name of the co-ordinator, Institute name is **not allowed to change** without permission of **AICTE**, however scheduled dates may be changed with information to ATAL Academy cell and Regional Office.

This sanction order may be treated as offer letter for all purpose.

Yours sincerely,



(Regional Officer & Member Secretary)
WRO, Mumbai, AICTE

Copy forwarded for information and necessary action to: -

1. Coordinator ATAL Programme - **Milind Mushrif.**
2. ATAL Academy Cell AICTE HQ
3. Guard File

Date: 21/03/2023

To,

Dr. Ajeet Singh
Assistant Director,
AICTE-Western Regional Office,
2nd Floor, Industrial Research Centre Building, ,
National Institute of Industrial Engineering (NITIE) Campus,
Vihar Lake, Mumbai - 400087

Sub: Submission of Audited Utilization certificate and Statements of Accounts of ATAL-FDP Funds

**Ref: F.No. 01 /AICTE/IDEA-LAB-HQ/2021-2022/1429
Application No. 1650514378**

Sir,

We have successfully conducted the ATAL FDP titled "Remote Sensing Applications with Machine Learning" from 30/01/2023 to 10/02/2023. Grant-in-aid of Rs. 3,00,000/- (Rs. Three Lakh only) was sanctioned by the AICTE out of which Rs. 2,38,000/- was received by the college. The sum of Rs. 2,04,738/- has been utilized for the purpose for which it was sanctioned and the balance of Rs. 33,262/- remained unutilized.

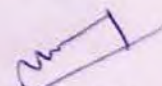
Please find attached herewith the following documents:

1. Utilization Certificate
2. Statement of Accounts
3. Copy of the sanction letter.

We request you to, kindly, send us the account details where the unutilized amount of Rs. 33,262/- is to be deposited.

Thanking you.

Yours sincerely,



Dr. M. M. Mushrif,
Coordinator, ATAL FDP



Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Department of Information Technology

UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR 2022-23

Name of the Scheme under which Grant was sanctioned by **AICTE Training And Learning (ATAL)** (to be submitted separately for each sanction order)

AICTE File No. : 01_/AICTE/IDEA-LAB-HQ/2021-2022/1429
Name of Co-ordinator : **Dr. M M MUSHRIF**
Dates of the Programme : 30th January 2023 to 10th February 2023
Title of the ATAL Programme : Remote Sensing Applications with Machine Learning

Sl. No.	AICTE Sanction Order/Letter No. & Date under which grant was sanctioned	Amount (Rs.)	
1	Application number :1650514378 AICTE File No.:01_/AICTE/IDEA-LAB-HQ/2021-2022/1429 Date:19/10/2022	3,00,000/-	Certified that out of the grant-in-aid of Rs. 3,00,000/- (in words) Three Lakh only sanctioned by the AICTE during the financial year 2022-23 in favour of Yeshwantrao Chavan College of Engineering, Nagpur as per letter mentioned in the margin, out of which Rs. 2,38,000/- only was actually received, Rs. NIL on account of unspent balance of previous year, Rs. NIL on account of other income / receipts, a sum of Rs. 2,04,738 has been utilized for the purpose for which it was sanctioned and the balance of Rs. 33,262 remained unutilized at the end of the year.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised: -
 Audited Annual Accounts of the Institute
 Receipt and Payment account
 Periodical Progress Reports.
Dr. M. M. Mushrif

(1). Name, Signature & Address of the Claimant/Awardee/Coordinator with seal:

Dr. U. P. Waghe



FOR KUMAR & JAYAKRISHNAN
Chartered Accountants
F.R.N.: 113700W

CA G. V. K. M.
M.No.: 10088
UDIN: 2310028613GVZWK41C0
Date: 15/03/2023

(3). Signature of Head of the Institute:
 Name & Designation of the Head of Institute:
 Rubber stamp:
 Full Address: **Yeshwantrao Chavan college of Engineering, Hingana Road, Wanadongri, Nagpur-441110**
 Date:



(4). Signature of the Finance Officer/Accounts Officer:
 Name of the Finance Officer/Accounts Officer:
 (If it is Govt./Govt. Aided Institute)

AICTE Training and Learning(ATAL) Academy Programme

Annexure-III

SETTLEMENT OF EXPENDITURE

AICTE File No. (Sanction letter file No.): F. No. 01_/AICTE/IDEA-LAB_HQ/2021-2022/1429

Title of the Programme: Remote Sensing Applications with Machine Learning

Application No.: 1650514378

Name of the Coordinator : Dr. M. M. Mushrif

Date: of Sanction: 19-10-2022

No of Participants: 36

Duration of Programme (with dates): TWO Week. From 30-01-2023 to 10-02-2023

Details of expenditure Incurred Item wise	Amount Rs. (in each head)
1. Honorarium to Coordinator	10,000.00
2. Honorarium to Co-Coordinator	7000.00
3. Honorarium to Computer operator	1000.00
4. Honorarium for experts	67,500.00
5. Payment to three lab technicians	15,000.00
6. TA/DA to Experts	26,660.00
7. One book each for 20 participants as reward	5,909.00
8. Refreshment & Lunch	56,000.00
9. Miscellaneous charges	2,592.00
10. Hands on training material, consumables	13,077.00
Total	204,738.00
Grant Received	238,000.00
Balance to be Received	-33,262.00

(1) Dr. M. M. Mushrif
Name and Signature of Coordinator with Seal

(2) Dr. U. P. Waghe
Name and Signature of Head of Institution with Seal

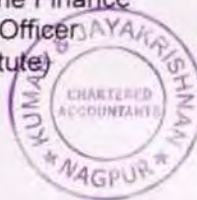
(3) Signature (with Seal) of the Finance Officer/ Auditor/Accounts Officer
(If it is Govt./Govt. Aided Institute)

FOR KUMAR & JAYAKRISHNAN
Chartered Accountants
F.R.N.:113708W

U.A.G.V. Number
No.: 1808W

UDIN: 2310086136VZWK4160

Date: 15/03/2023





अखिल भारतीय तकनीकी शिक्षा परिषद All India Council for Technical Education

(A Statutory Body of The Government of India)

(भारत सरकार का विधीक संस्थान)



पश्चिमी क्षेत्रीय कार्यालय WESTERN REGIONAL OFFICE

औद्योगिक अनुसंधान भवन, दूसरी मंजिल,
राष्ट्रीय औद्योगिक अभियांत्रिकी संस्थान
(नोटी) परिसर, विहार झील,
मुंबई - ४०० ०८७
दूरभाषा: (०२२) २८४७००१९/२८४७५७९३
अनुडाक: wro@aicte-indian.org
अंतरताना: www.aicte-indian.org

Industrial Research Building, 2nd Floor,
National Institute of Industrial Engineering
(NITIE) Campus, Vihar Lake,
Mumbai - 400 087
Tel: (022) 28470019 / 28475793
Email: wro@aicte-india.org
Web: www.aicte-india.org

Application No. 1650246339

F. No. 01_/AICTE /IDEA-LAB-HQ/2021-2022 / 1433

Date - 19 - 10 -2022.

To,

The Director / Principal,

Yeshwantrao Chavan College of Engineering Hingna Road,
Wanadongri, Nagpur - 441110.

**Sub: Release of a sum of Rs.3,00,000/- for AICTE Training & Learning (ATAL)
Academy Hybrid FDP's**

Sir,

This is to convey the sanction of the Council for payment of Rs.3,00,000/- (Rupees Three lakh only.) for conduct of FDP's **on Research Applications of Artificial Intelligence and Machine Learning** to Yeshwantrao Chavan College of Engineering Hingna Road, Wanadongri, Nagpur during 28th November to 9th December,2022 under **AICTE Training & Learning (ATAL) Academy**

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts.

a. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.

b. The maximum cost for conducting per programme will be Rs. 3,00,000 /- as per details given as under:

Sr. No.	Particulars	Sanctioned Amt. for 2022-23 for Blended FDP's / CPDP)
1	Honorarium to Coordinator	Rs.10000/-
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	Total	3,00,000/-

Programmes having permission to change amounts under different heads with overall ceiling of Rs.3.00 lakh being intact.

c. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

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- A test shall be conducted by coordinator at the end of the program.
- The certificates shall be issued to those participants who have been approved by coordinator, attended the program with minimum 80% attendance and scored minimum marks 70% in the test.

IV. Submission of documents by university/institution

a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program.

(i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.

(ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement etc. within one month of conduct of AICTE Training and Learning (ATAL) Academy programme.

b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall to adjusted.

v. General Instructions

a. Maximum 50 (minimum 30) participants may be allowed to attend blended FDP / CPDP within 100 km of host institutes. However, AICTE officials may be allowed to attend over and above the maximum limit.

b. A test has to be conducted on the last day accordingly Scheme Document 2022-23 and those who score more than 70% will be termed as successful candidates. Those who have attendance 80% or more and also score more than 70% in the test will be issued a digital certificate.

c. The sessions are to be recorded as the facility is available on the software which is being used for online delivery of FDP/CPDP. You are also requested to upload recording on YouTube of google drive.

d. Eligibility

For Institutions (Both Technical & Non- Technical.

i) The government funded institutions like IIT's IIM's, NIT's, IIT's, Universities, State Universities / Institutions / Research institutes other government organizations and PSU's.

ii) Private organisation / institutions having overall NIRF ranking up to 200 or NAAC grade A++ OR Department conducting FDP / CPDP having full NBA accreditation.

iii) Industry / Training Institutions (Experience in relevant training in last 5 years)

Coordinators must be a full time regular faculty / instructor / trainer etc. & having knowledge and experience to conduct blended FDP / CPDP.

For Participants

i) The faculty members of the AICTE approved institutions, Research scholars, PG scholar's, participants from Government, Industry, Bureaucrats/ Technicians / Professionals / School Teachers and staff of host institutions.

To be nominated by the Institute

ii) Not more than 10% from Host Institution.

iii) Maximum 50 (minimum 30) participants may be allowed to attend blended FDP/CPDP within 100 km of host institutes. However, AICTE officials may be allowed to attend over and above the maximum limit.

iv) Participants shall bear the cost of travelling and boarding/lodging if he/she wishes to attend ATAL FDP. However, refreshment & lunch would be provided for free.

ATAL FDPs/ CPDP are free, and No fee will be charged from any participant attending ATAL FDP / CPDP.

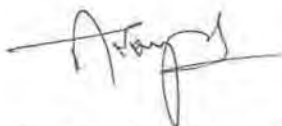
(e) If programme is not conducted in the financial year 2022 itself, the released amount has to be returned back to AICTE.

(f) If any extra money is required to complete the programme must be borne by the Institute from their own resources but the quality of the activities should not be compromised.

(g) FDP / CPDP, title name, name of the co-ordinator, Institute name is **not allowed to change** without permission of **AICTE**, however scheduled dates may be changed with information to ATAL Academy cell and Regional Office.

This sanction order may be treated as offer letter for all purpose.

Yours sincerely,



(Regional Officer & Member Secretary)
WRO, Mumbai, AICTE

Copy forwarded for information and necessary action to:-

1. Coordinator ATAL Programme - **Ujwala Gawande.**
2. ATAL Academy Cell AICTE HQ
3. Guard File



Nagar Yuwak Shiksha Sanstha's
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Department of Information Technology

UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR 2022-23

Name of the Scheme under which Grant was sanctioned by **AICTE Training And Learning(ATAL)** (to be submitted separately for each sanction order)

AICTE File No. : 01_/AICTE/IDEA-LAB-HQ/2021-2022/1433
Name of Co-ordinator : Dr. U. H. Gawande
Dates of the Programme : 28th November 2022 to 9th December 2022
Title of the ATAL Programme : Research Applications of Artificial Intelligence and Machine Learning (RAAIML22)

Sl. No	AICTE Sanction Order/Letter No. & Date under which grant was sanctioned	Amount (Rs.)	
1	Application number :1650246339 AICTE File No.:01_/AICTE/IDEA-LAB-HQ/2021-2022/1433 Date:29/10/2022	3,00,000/-	Certified that out of the grant-in-aid of Rs. 3,00,000/- (in words) Three Lack only sanctioned by the AICTE during the financial year 2022-23 in favour of Yeshwantrao Chavan College of Engineering, Nagpur as per letter mentioned in the margin, out of which Rs. 2,38,000/- only was actually received, Rs. NIL on account of unspent balance of previous year, Rs. NIL on account of other income / receipts, a sum of Rs. 2,23,497 has been utilized for the purpose for which it was sanctioned and the balance of Rs. 14,503 remained unutilized at the end of the year.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised: -

Audited Annual Accounts of the Institute

Receipt and Payment account

Periodical Progress Reports.

(1). Name, Signature & Address of the Claimant/Awardee/Coordinator with seal:

Dr. U. H. Gawande

Dean R&D, Convener-FDP RAAIML22,

Yeshwantrao Chavan college of Engineering, Hingana Road, Wanadongri, Nagpur-441110

FOR KUMAR & JAYAKRISHNAN
Chartered Accountants
F.R.N.: 113708W

CA G. V. KUMAR
M.No.: 10066

DATE: 06/01/2023

UDEN: 23100861 BGVZNC4944



[Handwritten Signature]

Dr. U. P. Waghe

(3). Signature of Head of the Institute:
Name & Designation of the Head of Institute:
Rubber stamp:
Full Address: Yeshwantrao Chavan college of
Engineering, Hingana Road, Wanadongri,
Nagpur-441110
Date:

[Handwritten Signature]
Principal
Yeshwantrao Chavan
College of Engineering
Wanadongri Hingana Road
NAGPUR-441110

(4). Signature of the Finance Officer/Accounts Officer:
Name of the Finance Officer/Accounts Officer:
(If it is Govt./Govt. Aided Institute)



Reference No. :- **IDEAMH003537****1. Details of Incubatee:**

1.1 Details of the Host Institute (HI)	Yeshwantrao Chavan College of Engineering , Wanadongri, Hingana Road, Nagpur , 07104242919 , principal@ycce.edu , 9764996477	1.2 Name of the Business Incubator (BI)	Dr. Sandip S.Khedkar , Asst. Professor , sskhedkar@ycce.edu , 9552555061
1.3 Category of the Incubatee	Entrepreneurs/MSME	1.4 Incubatee Name	Vaishali Arun Mutyalwar
1.5 State	MAHARASHTRA	1.6 District	NAGPUR
1.7 Email Id	devshahare0501@gmail.com	1.8 Mobile Number	9420998747
1.9 Category	OBC	1.10 Gender	Female
1.11 Address	Flat No:- 3 floor,Admin Block, Building:- YCCETBI, Road/Street:- Hingna Road, Village/Town:- Wanadongri, Block:- Admin Block, City:- Nagpur		

2. Details of Idea:

2.1 Title of proposed idea/innovation	CEILING FAN CLEANING DEVICE	2.2 Whether the idea involves use of existing intellectual property or not, give brief detail there of	The Patent is filed at Indian Patent Office on 24th February 2022 and it is under examination. Patent application no. is 202221009936
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<p>2.3 Briefly explain newness/uniqueness of the innovation</p>	<p>The field of the invention for the proposed work is for cleaning the fan blades of a ceiling fan. Cleaning devices of many shapes and sizes have been created for handling a variety of needs. Currently, there are no devices that allow a user to clean ceiling fan blades without the use of a ladder, step stool, or other elevating devices.</p>	<p>2.4 Concept & Objective</p>	<p>Concept: The present invention relates to cleaning devices and, more specifically, to a device that allows a user to clean both the top and bottom of a ceiling fan blade without the need for an elevating device of any kind. The invention may be adapted to work with a wide variety of 10 blade types, shapes, and sizes. It is the purpose and objective of the present invention to provide an improved means for safely cleaning both the tops and bottoms of ceiling fan blades without the need for ladders, step stools, or other elevating devices. It is a further objective of the present invention to provide a cleaning device for ceiling blades that will not, in any way, damage the blade, its finish, or fan mechanism through normal use. It is yet another feature and objective of the present invention to provide a one-piece cleaning cover that is easily installed for cleaning or removed for replacement. Objective: The main objectives of our innovative idea is: a)9To provide economic and efficient solutions for the ceiling fan cleaning process. b)9To develop easy to operate and portable device. c)9To improve to clean and eco-friendly environment in hospitals and government office. d)9To reduce the kati shoola or kati graham and considered to be an imbalance or vikrati in human body. e)9To provide comfort during cleaning of ceiling fan.</p>
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<p>2.5 Specify the potential areas of application in industry/market in brief</p>	<p>Ceiling type fans are extensively used in dwellings, offices and many other types of buildings to circulate air and reduce the cost of heating during cold weather and air-conditioning during hot weather. The blades of such fans, particularly on the top surfaces, become encrusted with a layer of dust that clings tenaciously to the blade surface and must be removed from time to time to maintain the full effective operation of the ceiling fan. In a conventional method of cleaning ceiling fans, a person will stand on a ladder or stool so the blades can be reached and then cleaned with a cloth or brush. Because such cleaning operations are so arduous to perform, a majority of ceiling fan blades remain uncleaned or are not cleaned nearly as often as needed. The potential areas of given product are household appliances, hospitals, offices and whenever cleaning is required.</p>	<p>2.6 Briefly provide the market data for the potential idea/ innovation</p>	<p>There are currently several varieties of apparatus for cleaning ceiling fans. Many of these have disadvantages for cleaning the upper surface of the ceiling fan blades, forcing the user to use a ladder or stool to reach the upper blade surfaces. Other cleaning tools require bulky vacuums or attachments which limit reach and mobility. None of these inventions gives the user a view of the top side of the ceiling fan blade being cleaned. Most of these inventions use a wiping or sweeping method with a fixed brush or cleaning surface to remove dust from the top side of the ceiling fan blade. The field of invention for the proposed work is for cleaning the fan blades of a ceiling fan. Cleaning devices of many shapes and sizes have been created for handling a variety of needs. Currently, there are no devices that allow a user to clean ceiling fan blades without the use of a ladder, step stool, or other elevating devices. This project is having a wide scope in an organization like colleges, schools, corporate offices, government offices, hospitals, restaurants, hotels and households etc. Almost everywhere when cleanliness is required. Since our idea is to clean a ceiling fan, which is a new concept in the market. Hence, there are no competitors.</p>
<p>2.7 Name and details of Mentors</p>	<p>Prof. D. Y. Shahare, Asst. Professor, Department of Mechanical Engineering Yeshwantrao Chavan College of Engineering, Nagpur, Maharashtra</p>	<p>2.8 Experience and Qualification of Mentors</p>	<p>Experience - 11 Years, Qualification - M.Tech, B.E.</p>
<p>2.9 Contact Details of Mentors</p>	<p>Yeshwantrao Chavan College of Engineering, Wanadongari, Hingana Road, Nagpur, Maharashtra, Pin - 441110, Mobile No. - 7620490270, Email - devshahare0501gmail.com</p>	<p>2.10 Current Development Status of innovation</p>	<p>The idea is at the proof of concept level. The prototyping is in the process which will further lead to a minimum viable product.</p>
<p>2.11 Expected time of completion of idea</p>	<p>The prototyping will be completed in the next 6 months and MVP will be developed within the next 6 months. In total, a maximum of 12 months are required for the completion of the idea in terms of reaching up to MVP.</p>	<p>2.12 Idea Sector</p>	<p>Services, Education, Hospitality, Media, Publishing, Entertainment, Design, Wellness, Logistics, Sports and any related sub-sector</p>

3. Financial requirements:

3.1 Activity-wise break

Particular/Item	Total idea project cost (Rs. In lakh)	Amount GOI assistance (Rs. In lakh)	Incubatee share (Rs. In lakh)
Technology related Expenditure towards machine usage charges etc., Electricity charges, Procurement of raw material , testing/Calibration charges, other charges essential for development of idea Max (10.00) lakh.	5.410	4.598	0.812
Charges for mentor/handholding supporting team Max (3.00) lakh.	2.000	1.700	0.300
Travelling Expenses or any other item not covered as above may be allowed as per need for development of the idea Max (2.00) lakh.	2.000	1.700	0.300
Total	9.410	7.998	1.412

Approved Activity-wise break

Approved By	Approved Date
PMAC	23/07/2022

Particular/Item	Total idea project cost (Rs. In lakh)	Amount GOI assistance (Rs. In lakh)	Incubatee share (Rs. In lakh)
Technology related Expenditure towards machine usage charges etc., Electricity charges, Procurement of raw material , testing/Calibration charges, other charges essential for development of idea Max (10.00) lakh.	5.410	4.598	0.812
Charges for mentor/handholding supporting team Max (3.00) lakh.	2.000	1.700	0.300
Travelling Expenses or any other item not covered as above may be allowed as per need for development of the idea Max (2.00) lakh.	2.000	1.700	0.300
Total	9.410	7.998	1.412

4. Other students/Entrepreneurs associated with this project/idea

Name	Aadhar No/Udhyog Aadhar No/Udyam Registration
Mr. Surendra Nagpure	239693135786
Uploaded Proposal	View/Download
Uploaded Minutes of the Selection Committee	View/Download
Uploaded Name and signature of the BI incharge	View/Download

Application Remarks			
Action	Date	Status	Remark
PMAC	23/Jul/2022 09:03:56 PM	Approved By PAMC	The financial sanction is as approved by the committee in the 2nd PMAC meeting. Check your mail and do the needful as instructed on priority basis. This maybe treated as most urgent. View/Download

I declare that:

1. I have read the entire scheme guidelines and shall abide by all the requirements stipulated therein for seeking financial assistance.
2. I hereby declare that information given above is true to the best of my Knowledge and that I have not withheld/distorted any material fact.
3. Any information/ documents that may be required to be verified shall be provided immediately before the concerned authority.
4. I hereby declare that I have not availed any financial assistance for this purpose from any other scheme from any Central/ State govt. agency.
5. In case the Idea is approved, Host Institute would undertake to make facilities available to carry out the development arrange for the submission of periodic progress reports and other information that may be required by the Ministry.
6. I certify that the accounts of the funds received and spent will be kept and made available on demand, as per scheme guidelines
7. I certify that the funds will be used only for Idea development as per activities defined in Scheme Guidelines & no funds out of this grant will be utilized for any other activity/production purposes.



Yeshwantrao Chavan College of Engineering

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

Hingna Road, Wanadongri, Nagpur - 441 110

Ph: 07104 237019, 234623, 329249, 329250 Fax: 07104 232376, Website: www.ycce.edu

Research and Development Cell

YCCE/R and D Cell/2022-23/ 172

Date: 15 March 2023

To
[Redacted]
Dr. Y. A. Suryawanshi
Department of Electronics Engineering

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

Dear Dr. Y. A. Suryawanshi

We are pleased to inform you that your proposal titled "Microcontroller Based Automatic water level detection and controlling water flow" is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 12,000/-**.

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

Dr. Yogita Chitriv
Assistant Dean, FPD, R and D

Dr. Ujwala Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

Copy To

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





Research and Development Cell

YCCE/R and D Cell/2022-23/ 173

Date: 15 March 2023

To

M. S. Tufail

Department Mechanical Engineering

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

Dear M. S. Tufail

We are pleased to inform you that your proposal titled "EDM Process Duration Measurement" is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 9,300/-**.

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

Dr. Yogita Chitriv
Assistant Dean, FPD, R and D

Dr. Ujwala Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

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





Nagpur Yeshwantrao Chavan

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, 229249, 229250 Fax: 07104 232376, Website: www.ycce.edu

Research and Development Cell

YCCE/R and D Cell/2022-23/ 174

Date: 15 March 2023

To

Charuta S Waghmare

Department of Civil Engineering

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

Dear Charuta S Waghmare

We are pleased to inform you that your proposal titled "Modified Roughing Filter" is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 15,000/-**.

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

Dr. Yogita Chitriv
Assistant Dean, FPD, R and D

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

Copy To

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





Research and Development Cell

YCCE/R and D Cell/2022-23/475

Date: 15 March 2023

To

Dr. Bharati Masram

Department of Electronics and Telecommunication Engineering

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

Dear Dr. Bharati Masram

We are pleased to inform you that your proposal titled "To Perform various interfacing with the development board of Microcontroller 8051" is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 21,600/-**.

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

Dr. Yogita Chitriv
Assistant Dean, FPD, R and D

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

Copy To

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





Research and Development Cell

YCCE/R and D Cell/2022-23/ *A76*

Date: 15 March 2023

To
Kanchan Kamble
Department of Electronics and Telecommunication Engineering

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

Dear Kanchan Kamble

We are pleased to inform you that your proposal titled "To study and verify the operation of various types of waveform generator using IC 741" is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 7,000/-**.

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

Dr. Yogita Chitriv
Assistant Dean, FPD, R and D

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

Copy To

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





Research and Development Cell

YCCE/R and D Cell/2022-23/ 177

Date: 15 March 2023

To
Swati Nitnaware
Department of Electronics and Telecommunication Engineering

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

Dear Swati Nitnaware

We are pleased to inform you that your proposal titled "To design the logic circuit to control a motorized device that moves by signal from photocell sensors" is recommended by the committee for approval and the proposal is approved for financial assistance of Rs. 10,000/-.

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

Dr. Yogita Chitriv
Assistant Dean, FPD, R and D

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

Copy To

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





Research and Development Cell

YCCE/R and D Cell/2022-23/478

Date: 15 March 2023

To
Prasad Hatwalne
Department of Mechanical Engineering

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

Dear Prasad Hatwalne

We are pleased to inform you that your proposal titled "Determination of Metacentric Height" is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 1900/-**.

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

Dr. Yogita Chitriv
Assistant Dean, FPD, R and D

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

Copy To

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





Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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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/2022-23/464

Date: 15 March 2023

To

Prof. Prachi Gawande

Department of Electronics Engineering

Prof. Yogesh Kale

Department of Electronics & Telecommunication

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

Dear Prof. Prachi Gawande / Prof. Yogesh Kale

We are pleased to inform you that your proposal titled "True Water Power Saver for Common Washroom" is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 17470/-**.

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

Dr. Nita D. Rehpade
Assistant Dean,
IPR

Dr. Ujwala Gawande
Dean, R and D

Dr. U. P. Waghe
Principal
Principal
Yeshwantrao Chavan
College of Engineering
Wanadongri Hingna Road,
NAGPUR-441110

Copy To

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





Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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Research and Development Cell

YCCE/R and D Cell/2022-23/ 465

Date: 15 March 2023

To
Prof. V. B. Niranjane
Department of Electronics & Telecommunication


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


Dear Prof. V. B. Niranjane

We are pleased to inform you that your proposal titled "Canal Water Data Monitoring System" is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 15539/-**.

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


Dr. Nita D. Rehpade
Assistant Dean,
IPR


Dr. Ujwala Gawande
Dean, R and D


Dr. U. P. Waghe
Principal
Principal
Yeshwantrao Chavan
College of Engineering
Wanadongri Hingna Road,
NAGPUR-441110

Copy To

- HoD, Department of Electronics & Telecommunication, YCCE
- A/C Section, YCCE





Research and Development Cell

YCCE/R and D Cell/2022-23/466

Date: 15 March 2023

To

Prof. S. A. Desai/ Dr. M. M. Mushrif/ Dr. C. S. Gode
Department of Electronics & Telecommunication

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

Dear Prof. S. A. Desai/ Dr. M. M. Mushrif/ Dr. C. S. Gode

We are pleased to inform you that your proposal titled "IOT based Electrical energy monitoring system" is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 27550/-**.

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

Dr. Nita D. Rehpade
Assistant Dean,
IPR

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

Copy To

- HoD, Department of Electronics & Telecommunication, YCCE
- A/C Section, YCCE





Research and Development Cell

YCCE/R and D Cell/2022-23/ 469

Date: 15 March 2023

To
Prof. Prasad Hatwalne
Department of Mechanical Engineering

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

Dear Prof. Prasad Hatwalne

We are pleased to inform you that your proposal titled "Development of a device for slowing or stopping a moving human powered carts" is recommended by the committee for approval and the proposal is approved for financial assistance of **Rs. 19500/-**.

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

Dr. Nita D. Rehpade
Assistant Dean,
IPR

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

Copy To

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





Research and Development Cell

YCCE/R and D Cell/2022-23/470

Date: 15 March 2023

To

Prof. M.S. Tufail / Prof. C. A. Mahatme
Department of Mechanical Engineering

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

Dear Prof. M.S. Tufail / Prof. C.A. Mahatme

We are pleased to inform you that your proposal titled "Analysis of Plastic Molding Clamp By Using Additive Manufacturing" is recommended by the committee for approval and the proposal is approved for financial assistance of Rs. 13900/-.

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

Dr. Nita D. Rehpade
Assistant Dean,
IPR

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

Copy To

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





Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

Research and Development Cell

YCCE/R and D Cell/2022-23/ 468

Date: 15 March 2023

To
Prof. Vivek Jayale
Department of Civil Engineering

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

Dear Prof. Vivek Jayale

We are pleased to inform you that your proposal titled "Horizon -X1" is recommended by the committee for approval and the proposal is approved for financial assistance of Rs. 26800/-.

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

Dr. Nita D. Rehpade
Assistant Dean,
IPR

Dr. Ujwala Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

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

Copy To

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





Research and Development Cell

YCCE/R and D Cell/2022-23/ 467

Date: 15 March 2023

To
Prof. Prashant Pande
Department of Civil Engineering

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

Dear Prof. Prashant Pande

We are pleased to inform you that your proposal titled "Light Weight Bricks" is recommended by the committee for approval and the proposal is approved for financial assistance of Rs. 24350/-.

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

Dr. Nita D. Rehpade
Assistant Dean,
IPR

Dr. Ujwalla Gawande
Dean, R and D

Dr. U. P. Waghe
Principal

Principal
Yeshwantrao Chavan
College of Engineering
Hingna Road, Nagpur

Copy To

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



Yeshwantrao Chavan College of Engineering

Hingna Road Wanadongri,
N A G P U R - 441110

Student Project Expenses
Ledger Account

1-Apr-2022 to 6-Sep-2023

Date	Particulars	Vch Type	Vch No	Debit	Page 1 Credit
5-7-2022	Cr Moharil R.M	JOURNAL_	YCCE/ JV- 389	6,447.00	
	Primary Cost Category				
	Electrical Engg[E L]			6,447.00 Cr	
	Primary Cost Category				
	Electrical Engg[E L]			6,447.00 Dr	
	<i>being amount of Provision for Project Expenses submitted by Dept of Electrical - Project Titled-Hybrid Power Generation & Storage MGMT - Material Purchase from Engineers Lab of Inv No. EL-03-24.04.2022 Student Name- Aninrose Mulla, Devyani Yadav, Janhavi Ambadkar, Rutuja Ingole, Pranay Kothale, Prathmesh Thabhane] Guide Name - DR R Moharil]</i>				
				<u>6,447.00</u>	
	Dr Closing Balance				<u>6,447.00</u>
				<u>6,447.00</u>	<u>6,447.00</u>
1-4-2023	Cr Opening Balance			6,447.00	
14-8-2023	Cr Doifode V. R.	JOURNAL_	YCCE/ JV- 656	41,493.00	
	Primary Cost Category				
	Electrical Engg[E L]			24,463.00 Dr	
	5 nos				
	<i>being amount of Project Expenses submitted by Dept of Electrical [Rs. 24463/- Topics To Generate Electcity by suign Smarts Speed Breakers- Student Name - Aditya Jaillly, Neahl Wande, Nikki Singh & Janhavai katey & Rs. 17030/- Topics-Design of Pumped Storage Hydro Prower Plant- Student Name- Suresh Patane, Prathhamesh Chitode, Bhargawi Wagh, Chaitnay Khati & Pratiksha Raut]</i>				
				<u>47,940.00</u>	
	Dr Closing Balance				<u>47,940.00</u>
				<u>47,940.00</u>	<u>47,940.00</u>

Yeshwantrao Chavan College of Engineering

Hingna Road Wanadongri,

NAGPUR - 441110

Student Project Expenses

Ledger Account

1-Apr-2022 to 4-Sep-2023

Page 1

Date	Particulars	Vch Type	Vch No.	Debit	Credit
10-9-2022	Cr Thote Dhiraj K Primary Cost Category Electronics & Telecomm. [E & T] 2,838.00 Cr	JOURNAL_	YCCE/ JV- 716	2,838.00	
	Primary Cost Category Electronics & Telecomm. [E & T] 2,838.00 Dr <i>being expenses submitted by student of dept of E & T [Project Name- Moedm e-trolley for good purchase with inventory management using android application] student name-Shantanu Kasale, Manjeet thakur, Parth Chinchalkar] Amazon in-Rs. 1199/- +419& Sarvana Electronics-1220/</i>				
	Cr Madankar A A Primary Cost Category Electronics & Telecomm. [E & T] 12,440.00 Cr	JOURNAL_	YCCE/ JV- 717	12,440.00	
	Primary Cost Category Electronics & Telecomm. [E & T] 12,440.00 Dr <i>being expenses submitted by student of dept of E & T [Project Name-Accident detecting and prevation systems integrated in electric Pole] student Name - Ritesh Gokhe, Harshal Dharmik, Nikita Borate] - Novelty Electronics of /bill No. 159 dt. 03.10.2021</i>				
24-9-2022	Cr Desai Sandip A. Primary Cost Category Electronics & Telecomm [E & T] 910.00 Dr	JOURNAL_	YCCE/ JV- 803	3,331.00	
	<i>ANUKSHA SAKALKAR, PRERANA MESHRAM, ABHILASHA WALKE being expenses incurred for Project expenses submitted by dept of E & T [Project Name- Plant Water Systems for Rs. 910/- & Automatic Plant Watering Systems for Rs. 690/- & Water level Indicator for Rs. 408/- & Bluetooth Controlled door lock for Rs. 733/- & Automatic Visitor Counter for Hospita for Rs. 590/-]</i>				

yes **wantrao Chavan College of Engineering**
Student Project Expenses Ledger Account : 1-Apr-2022 to 4-Sep-2023

Date	Particulars	Vch Type	Vch No.	Debit	
	Brought Forward			18,609.00	
24-9-2022	Cr MASRAM BHARATI Primary Cost Category Electronics & Telecomm. [E & T] 596.00 Dr BHARGAV SABLE, NIKHIL TATATULE, OM GATUWAR <i>being expenses incurred for Project expenses submitted by dept of E & T [Project Name- Automatic plant irrigation systems using, microcontroller 8051 for Rs. 596/- & Water level indicator using 8051 microcontrollrer for Rs. 638/- & Automaic room Light Controller for Rs. 548/- & Automatic Railway Gate for Rs. 537/- & Automatic visitor Counter for Rs. 844/- & Automatic Hand sanitisation Systems]</i>	JOURNAL_	YCCE/ JV- 804	3,730.00	
	Cr Choudhari Anagha V Primary Cost Category Electronics & Telecomm. [E & T] 1,587.00 Dr SHSHRUT PANTAONE <i>being expenses incurred for Project expenses submitted by dept of E & T [Project Name- Automatic hand sanitisation machine for Rs. 1587/-Fastage finger First , Led Togglng for Rs. 1103/- & To Check the LPG Gas Leakage for Rs. 802/-]</i>	JOURNAL_	YCCE/ JV- 805	3,492.00	
	Cr MASRAM BHARATI Primary Cost Category Electronics & Telecomm. [E & T] 590.00 Dr AYUSH MISHRA, AYUSH GAWANDE, NAKSHATRA SHINEKER <i>being expenses incurred for Project expenses submitted by dept of E & T [Project Name- Voling Machine using 8051 Micro Controller for Rs. 590/- & Automaic Plant Watering Systems for Rs. 672/- & Bluthooth Controlled door lock system for Rs. 1309/-]</i>	JOURNAL_	YCCE/ JV- 806	2,571.00	
	Cr Choudhari Anagha V Primary Cost Category Electronics & Telecomm. [E & T] 1,864.00 Dr RITESH UCHITKAR, LATIKA DHABALE, ATHANRVA DANI <i>being expenses incurred for Project expenses submitted by dept of E & T [Project Name- Automtic Plant watering systems , led blinking for Rs. 1864/- & Gasleakage idenfification & Led Togglng for Rs. 761/- & Automatic watering system, led Togglng for Rs. 1675/-]</i>	JOURNAL_	YCCE/ JV- 807	4,300.00	
				32,702.00	
Dr	Closing Balance				32,702.00
				32,702.00	32,702.00

Yeshwantrao Chavan College of Engineering

Hingna Road Wanadongri,

NAGPUR - 441110

Student Project Expenses

Ledger Account

1-Apr-2022 to 31-Jul-2023

Page 1

Date	Particulars	Vch Type	Vch No.	Debit	Credit
24-9-2022	Cr Ambekar S.V. Primary Cost Category Civil Department [C E] 3,260.00 Cr SRUSHTI DEWANAND CHINDHALOR	JOURNAL_	YCCE/ JV- 808	3,260.00	
	Primary Cost Category Civil Department [C E] 3,260.00 Dr M-TECH <i>being expenses incurred for Project expenses submitted by dept of Civil [Project Name-Performance evaluation of Micorlage for treatment of Industrial Waster Water-1770+720+300+100+170+200]P G PROJECT]</i>				
	Cr Meshram V.G. Primary Cost Category Civil Department [C E] 5,510.00 Cr SHUBHAM ATRAM,GAGAN PAL, AKANSHA LALWANI, SHAILESH DHONGI, SAMIKSHA BHITADE	JOURNAL_	YCCE/ JV- 809	5,510.00	
	Primary Cost Category Civil Department [C E] 5,510.00 Dr <i>being expenses incurred for Project expenses submitted by dept of Civil [Project Name-Light weight Concrete containing recycled Plastic - 1510/+4000/-]</i>				
	Cr Gajbhiye A . R. Primary Cost Category Civil Department [C E] 5,590.00 Cr MOHD ASHADULLAH ANSARI	JOURNAL_	YCCE/ JV- 810	5,590.00	
	Primary Cost Category Civil Department [C E] 5,590.00 Dr <i>being expenses incurred for Project expenses submitted by dept of Civil [Project Name-Utilisation of Waste Plastic in manufacturing of Bricks using Cement - 2100+1200+400+1890]</i>				
	Cr Nandurkar Bhupesh Primary Cost Category Civil Department [C E] 7,690.00 Cr RUPESH NARKHEDE, NISHANT MASKE, SIDDHESH MUDDOMWAR	JOURNAL_	YCCE/ JV- 811	7,690.00	
	Primary Cost Category Civil Department [C E] 7,690.00 Dr ESHAN GHARPURE, SIDDHANT WARADE, ADITI HARDE <i>being expenses incurred for Project expenses submitted by dept of Civil [Project Name-Utilisation of Water Glass in Concrete - 3600+1380+2160+550]</i>				
	Carried Over				
				22,050.00	

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			22,050.00	
24-9-2022	Cr Raut Sanjay Padmakar Primary Cost Category Civil Department [C E] 11,895.00 Cr SWAPNIL RAIPUR, TANMAY *AMBUDE, TEKESDRA SANDIYE	JOURNAL_	YCCE/ JV- 812	11,895.00	
	Primary Cost Category Civil Department [C E] 11,895.00 Dr ATHARVA YERNE, RUTUJA RATHOD, SUMIT NANORE <i>being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Development of sustainable concrete using Textile effluent sludge - 11800+95]</i>				
	Cr Mendhe Vaishali N Primary Cost Category Civil Department [C E] 9,356.00 Cr GAURAV BHAKTE, DATTA DESHMUKH, PIPRANTNA PATIL	JOURNAL_	YCCE/ JV- 813	9,356.00	
	Primary Cost Category Civil Department [C E] 9,356.00 Dr SUSHANT NIMBALKAR, SARTHK RAMTEKE, RAJESH MADAVI <i>being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Experimental Study of Concrete by Partial replacement with Fly Ash and Fine aggregate with by copper Slag - 2970+500 +5886]</i>				
	Cr ANSARI KHALID SHAMIM Primary Cost Category Civil Department [C E] 25,032.00 Cr AMATYA PAHANPATE, KAMLESH BIIOND, SHUBHAM AKHARE	JOURNAL_	YCCE/ JV- 814	25,032.00	
	Primary Cost Category Civil Department [C E] 25,032.00 Dr ISHA JIWANE, NIKHITA UPRE, VAIDEHI WAGALWAR <i>being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Experimental analysis of grey water treatment by hybrid process of solar based electrocoagulation and semi-membrane process - 12844.30+12188.22]</i>				

Carried Over

68,333.00

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			68,333.00	
24-9-2022	Cr Agrawal Dhiraj G	JOURNAL_	YCCE/ JV- 815	16,837.00	
	Primary Cost Category				
	Civil Department [C E] 16,837.00 Cr				
	ANIKET KOPARKAR, SARANG BHIMANWAR, TEJAS TIPALE				
	Primary Cost Category				
	Civil Department [C E] 16,837.00 Dr				
	JANVI SARODI, SHIVANI NAMOJWAR, VAIDEHI BANSODE				
	being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Static and dynamic behavior of regulensed concrete - 1025+7232+150 +3630+4800]				
	Cr Hinge Pawan	JOURNAL_	YCCE/ JV- 816	2,460.00	
	Primary Cost Category				
	Civil Department [C E] 2,460.00 Cr				
	ANIKET NAGE, VAIBHAV TUMALE, RUSHIKESH HIWANJ				
	Primary Cost Category				
	Civil Department [C E] 2,460.00 Dr				
	ATHARVA KASLIKAR, PRANAY RAHATE, SUYUESH RAKHUNDE				
	being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Insvestigation of E Waste as Replacement of Concrete agg in M S Concrete - 360+1400+700]				
	Cr Yadav Amruta A	JOURNAL_	YCCE/ JV- 817	2,138.00	
	Primary Cost Category				
	Civil Department [C E] 2,138.00 Cr				
	KARTIK INGLE, AHMED RAZA KHAN, RISHIKESH KARALE				
	Primary Cost Category				
	Civil Department [C E] 2,138.00 Dr				
	SAURABH MADANKAR, MANTHAN PARTEKI, BHUSHAN MADAVI				
	being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Effect on strength Concrete using metakaolin & Copper slag - 2138]				
	Cr Meshram Sangita S	JOURNAL_	YCCE/ JV- 818	5,094.00	
	Primary Cost Category				
	Civil Department [C E] 5,094.00 Cr				
	DHIRAJ RATHOD, SAHIL JAGTAP, RITESH DHUMNE				
	Primary Cost Category				
	Civil Department [C E] 5,094.00 Dr				
	SHAILESH BIND, SUBODH GAIKWAD, RAHIL INGLE				
	being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Development of Building Block using capola slag as inéol granular material -5094/-]				
	Carried Over			94,862.00	

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	.Brought Forward			94,862.00	
24-9-2022	Cr WAGH Monali R Primary Cost Category - Civil Department [C E] 15,282.00 Cr YASH PISE, YASH KENE, YASH BHAWATKAR, Primary Cost Category Civil Department [C E] 15,282.00 Dr AYUSH THAKRE, DIGUJAY DASTURE, OM JIRAPURE being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Study of soil compacting concrete using bagasse ash & Molakaalin -3540+944 +7788+3010]	JOURNAL_	YCCE/ JV- 810	15,282.00	
	Cr Kalamkar Sanket G Primary Cost Category Civil Department [C E] 7,340.00 Cr AMAY TINKHIDE, ANIKET NAGIRKAR, KINSHEK KARMARKAR Primary Cost Category Civil Department [C E] 7,340.00 Dr AACHAL GADIYALE, YASH NETKE, DIVYA CHIMURKER being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Reduction of surface rain water by developing previous concrete using waste material -640+6700]	JOURNAL_	YCCE/ JV- 820	7,340.00	
	Cr RAJESH M BHAGAT Primary Cost Category Civil Department [C E] 13,452.00 Cr VEDIKA KAMDI, UTKARSHA GOHETRE, PRATIK JASWANTI Primary Cost Category Civil Department [C E] 13,452.00 Dr AASHITA PARBUDE, MEENAL KOTPALLIWAR, RACHNA BOKSE being expenses incurred for Project expenses submitted by dept of Civil [Project Name -Evaluation of Adsorption capacity of Adsorbents prepared fro Waste -5310+1416 +5310+1416]	JOURNAL_	YCCE/ JV- 821	13,452.00	
	Cr Khandeshwar S.R. Primary Cost Category Civil Department [C E] 43,359.00 Cr M-TECH Primary Cost Category Civil Department [C E] 43,359.00 Dr ANUJA RAVINDRA GANGTHADE being expenses incurred for Project expenses submitted by dept of Civil [Project Name -Study membrane Bioreactor & to check the performance of Ceramic membrane Bio reaction -8390+43359]P G PROJECT]	JOURNAL_	YCCE/ JV- 822	43,359.00	
	Carried Over				1,74,295.00

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			1,74,295.00	
24-9-2022	Cr Ambekar S.V. Primary Cost Category Civil Department [C E] M-TECH	JOURNAL_	YCCE/ JV- 823	12,280.00	
	12,280.00 Cr				
	Primary Cost Category Civil Department [C E] PRADHINYA VIIHALRAO KOLHE being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Study the feasibility of Electro fenton Process-1500+350+195+500+1820+1500 +700+1000] P G PROJECT				
	12,280.00 Dr				
	Cr Waghmare Charuta S Primary Cost Category Civil Department [C E] BHABESH BASAK, DIGVIJAY DASTURE, PRATHAMESH URADE	JOURNAL_	YCCE/ JV- 824	7,887.00	
	7,887.00 Cr				
	Primary Cost Category Civil Department [C E] RAKSHA DHAKATE, REVATI KOKATE, SHEFALI MOHILE being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Development of Horizontal raughing filter for pretreatment of Grey Water - 382 +260+3000+300+1220+70+2655]				
	7,887.00 Dr				
	Cr Warade Harshal Primary Cost Category Civil Engg monika deoprasad TIWARI	JOURNAL_	YCCE/ JV- 825	12,450.00	
	12,450.00 Cr				
	Primary Cost Category Civil Department [C E] M-TECH being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Recirculation of Digoslate in C S T R - 2500+2200+1100+800+1600+500+250 +3500] P G PROJECT]				
	12,450.00 Dr				
	Cr RAJESH M BHAGAT Primary Cost Category Civil Department [C E] NEHAL GHARODE	JOURNAL_	YCCE/ JV- 826	10,746.00	
	10,746.00 Cr				
	Primary Cost Category Civil Department [C E] M-TECH being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Removal of Nichel from aquous soil using agricultural waste based composite addorbent - 4720+1062+2124+650+235 +480+220+1222- P G PROJECT]				
	10,746.00 Dr				
	Carried Over				
				2,17,658.00	

Yeshwantrao Chavan College of Engineering

Student Project Expenses Ledger Account : 1-Apr-2022 to 31-Jul-2023

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			2,17,658.00	
24-9-2022	Cr RAJESH M BHAGAT Primary Cost Category Civil Department [C E] 12,036.00 Cr ROSHAN R BHURSE Primary Cost Category Civil Department [C E] 12,036.00 Dr M-TECH <i>being expenses incurred for Project expenses submitted by dept of Civil [Project Name - Utilisation of Agricultural Waste based adsorbent for removal of Copper from waster water - 1416+5310+5310- P G PROJECT]</i>	JOURNAL_	YCCE/ JV- 827	12,036.00	
					2,29,694.00
Dr	Closing Balance				2,29,694.00
				2,29,694.00	2,29,694.00

First Page of Research Base Project Reports

HYBRID POWER GENERATION AND STORAGE MANAGEMENT FOR SMART STREET LIGHTING

This project report is submitted to

Yeshwantrao Chavan College of Engineering

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

In partial fulfilment of the requirement

For the award of the degree

of

Bachelor of Electrical Engineering

By

ARINAROSE MULLA

RUTUJA INGOLE

DEVYANI YADAV

PRANAY KOTHALE

JANHAVI AMBADKAR

PRATHMESH TABHANE

Under the guidance of

Dr. R. M. Moharil



DEPARTMENT OF ELECTRICAL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

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

NAGPUR – 441 110

2021-2022

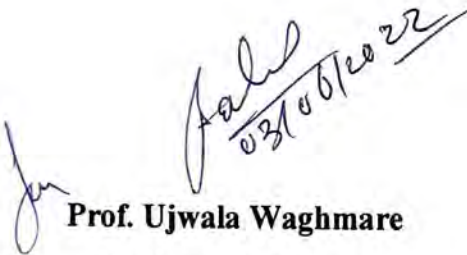
CERTIFICATE OF APPROVAL

Certified that the project report entitled “Hybrid Power Generation and Storage Management for Smart Street Lighting” has been successfully completed by Arinarose Mulla, Devyani Yadav, Janhavi Ambadkar, Rutuja Ingole, Pranay Kothale and Prathmesh Tabhane under the guidance of **Dr. R. M. Moharil** in recognition to the partial fulfilment for the award of the Degree of Bachelor of Electrical Engineering, YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University).



Dr. R. M. Moharil

(Project Guide)



03/06/2022

Prof. Ujwala Waghmare

(Project Coordinator)



Dr S. G. Kadwane

(Head of Department,
Electrical Engineering)



03/06/2022

Signature of External Examiner

Name: **Dr. V. S. Dhok**

Date of Examination:

**“PERFORMANCE EVALUATION OF MICROALGAE
FOR TREATMENT OF WASTEWATER”**

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

Master of Technology in Environmental Engineering

By

Srushti D. Chindhalore

Under the guidance of

(Guide)

Dr. S.V. Ambekar

(Professor, Department of civil Engineering)

(Co-Guide)

Dr. Prashant Dhorabe

(Director, Green Bee Resources Pvt. Ltd.)



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

*(An autonomous institution affiliated to Rashtrasant Tukdoji Maharaj Nagpur University,
Nagpur)*

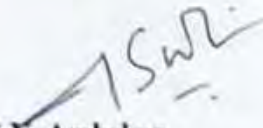
NAGPUR – 441 110

2021-2022


|

CERTIFICATE OF APPROVAL

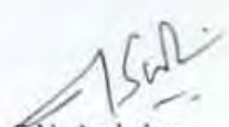
Certified that the project report entitled "**Performance evaluation of microalgae for treatment of wastewater**" has been successfully completed by **Srushti D. Chindhalore** under the guidance of **Dr. S.V. Ambekar** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Environmental Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



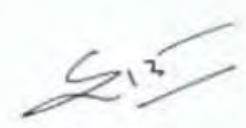
Dr. S.V. Ambekar
(Guide)



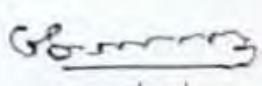
Dr. Peashant Dhorabe
(Co-Guide)



Dr. S.V. Ambekar
(Coordinator)



Dr. S.P. Raut
(HOD, CE Dept.)



Dr. U.P. Waghe
(Principal)

Prof. P.B. Kulkarni
Signature of External Examiner:

Name:

**“Lightweight Concrete Containing Recycled Plastic
Aggregates”**

*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 Civil Engineering*

By
SHUBHAM ATRAM GAGAN PAL
SHAILESH DHONGE SAMIKSHA BHITADE
AAKANKSHA LALWANI

Under the guidance of
Dr. V. G. Meshram



DEPARTMENT OF CIVIL ENGINEERING
Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

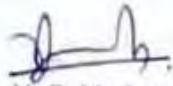
NAGPUR – 441 110

2021-22

i

CERTIFICATE OF APPROVAL

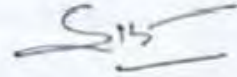
Certified that the project report entitled "Lightweight Concrete Containing Recycled Plastic Aggregates" has been successfully completed by Kunal Deshmukh ,Shubham Atram, Gagan Pal , Shailesh Dhonge , Samiksha Bhitade and Aakanksha Lalwani under the guidance of DR.VILAS GANUJI MESHRAM in recognition to the partial fulfilment for the award of the degree of Bachelor of Technology in Civil Engineering, Yeshwantrao Chavan College of Engineering(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



DR. V. G. Meshram
(Guide)



Ms. S.K.Kamble
(Coordinator)



DR. S.P.RAUT
(HOD)

Signature of External Examiner :

Name :

Date of Examination :

"UTILISATION OF WASTE PLASTIC IN MANUFACTURING OF BRICKS BY USING CEMENT"

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 Civil engineering

By

Ms. Akshari Sawant

Ms. Irish Shaikh

Ms. Sharayu Pohankar

Ms. Vaishnavi khawse

Mr. Mohd Ashadullah Ansari

Mr. Siddharth Jain

Under the guidance of

Dr. A. R. GAJBHIYE

(Guide)



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sansta's

Yeshwantrao Chavan College of Engineering

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

NAGPUR-441 110

2021-2022

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Utilization of Waste Plastic In Manufacturing of Bricks By Using Cement" has been successfully completed by Ms. Akshari Sawant, Ms. Irish Shaikh, Ms. Sharayu Pohankar, Ms. Vaishnavi Khawse, Mr. Mohd Ashadullah Ansari and Siddharth Jain under the guidance of Dr. A. R. Gajbhiye in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



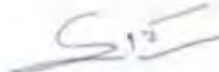
Dr. A. R. Gajbhiye

(Guide)
Signature




Ms. S. K. Kamble

(Coordinator)
Signature



Dr. S. P. Raut

(HOD)
Signature

Name and Signature of External:  Prof. P. S. Bhandari
Examiner: Date of Examination: 30-5-2022

**UTILISATION OF WASTE GLASS IN CONCRETE:
GLASS CONCRETE**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

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

In partial fulfilment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Civil Engineering

By

DEEPESH NARKHEDE

SIDDHANT HARDE

ESHAN GHARPURE

SIDDHESH MUDDAMWAR

NISHANT MASKE

ADITI HARDE

Under the guidance of

Dr. B.P. NANDURKAR



DEPARATMENT OF CIVIL ENGINEERING

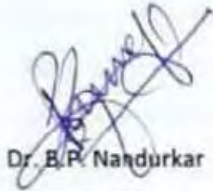
**YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
NAGPUR – 441110**

2021-2022

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CERTIFICATE OF APPROVAL

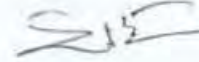
Certified that the project report entitled "UTILISATION OF WASTE GLASS IN CONCRETE: GLASS CONCRETE" has been successfully completed under the guidance of DR. BHUPESH P. NANDURKAR in recognition to the partial fulfillment for the award of the degree of Bachelor of Technology in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Dr. B.P. Nandurkar
(Guide)



Prof. S. Kamble
(Coordinator)



Dr. S. P. Raut
(HOD, CE Dept.)

Signature of External Examiner :

Name :

Date of Examination :

**DEVELOPMENT OF SUSTAINABLE CONCRETE USING TEXTILE EFFLUENT
SLUDGE**

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 Civil Engineering

BY

RUTUJA RATHOD

SWAPNIL RAIPURE

ATHARVA YERNE

TANMAY AMBADE

SUMIT NONARE

TEKENDRA SANODIYA

Under the guidance of

Guide: Dr. Sanjay P. Raut
Co-Guide: Prof. Udaysingh Patil



DEPARTMENT OF CIVIL ENGINEERING

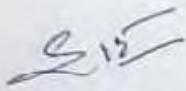
Nagar YuvakShikshan Sanstha

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)
NAGPUR – 441110

2021-22

CERTIFICATE OF APPROVAL

Certified that the project report entitled "DEVELOPMENT OF SUSTAINABLE CONCRETE USING TEXTILE EFFLUENT SLUDGE" has been successfully completed by Rutuja Vijay Rathod, Atharva Rajkumar Yerne, Sumit Ashok Nonare, Swapnil WarluRaipure, Tanmay Prakash Ambade and Tekendra Ishwar Prasad Sanodiya under the guidance of Dr. Sanjay P. Raut in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Dr. S. P. Raut
(Guide)



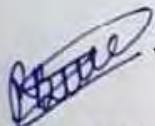
Prof. Uday Singh Patil
(Co-Guide)



Prof. S. K. Kamble
(Coordinator)



Dr. S. P. Raut
(HoD)



Signature of External Examiner

Name: R. S. Buse

Date of Examination: 31/05/22

**EXPERIMENTAL STUDY OF CONCRETE BY PARTIAL
REPLACEMENT OF CEMENT WITH FLY ASH AND
FINE AGGREGATE BY COPPER SLAG.**

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
Civil Engineering**

BY

Mr. Sarthak M. Ramteke

Mr. Dipratna U. Patil

Mr. Rajesh M. Madavi

Mr. Sushant D. Nimbalkar

Mr. Gaurav P. Bhakte

Mr. Datta P. Deshmukh

Under the guidance of

Mrs. Vaishali Mendhe



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

**(An autonomous institution affiliated to Rashtrasant Tukdoji Maharaj Nagpur University,
Nagpur)**

NAGPUR – 441110

2021-22

CERTIFICATE OF APPROVAL

Certified that the project report entitled "EXPERIMENTAL STUDY OF CONCRETE BY PARTIAL REPLACEMENT OF CEMENT WITH FLY ASH AND FINE AGGREGATE BY COPPER SLAG." has been successfully completed by DIPRATNA UDAYBHAN PATIL, SUSHANT DIGAMBAR NIMBALKAR, SARTHAK MADHUKAR RAMTEKE, RAJESH MAHADEO MADAVI, GAURAV PRAKASH BHAKTE AND DATTA PANDITRAO DESHMUKH under the guidance of Mrs. Vaishali Mendhe in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



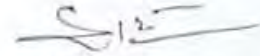
Signature

Mrs. Vaishali Mendhe
(Guide)



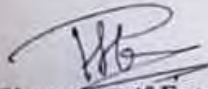
Signature

Prof. Snehal Kamble
(Co-Ordinator)



Signature

Dr Sanjay P. Raut
(HoD)



Signature of External

Examiner Name:- Prof. P. S. Bhandari

Date of Examination:- 31/05/2022

**EXPERIMENTAL ANALYSIS OF GREY WATER
TREATMENT BY HYBRID PROCESS OF SOLAR BASED
ELECTROCOAGULATION AND SEMI-MEMBRANE
PROCESS**

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 Civil Engineering

By

**NIKHITA UPARE, AMATYA PAHANPATE, SHUBHAM AKHARE,
VAIDEHI WASLWAR, ISHA JIWANE, KAMLESH BHOND**

Under the guidance of

Mr. Khalid S. Ansari



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Santa's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

NAGPUR – 441 110

2021-22

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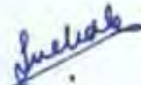
CERTIFICATE OF APPROVAL

Certified that the project report entitled "**Experimental Analysis of Grey Water Treatment by Hybrid Process of Solar Based Electrocoagulation and Semi-membrane Process**" has been successfully completed by Nikhita Upare, Amatya Pahanpate, Shubham Akhare, Vaidehi Wasalwar, Isha Jiwane, Kamlesh Bhond under the guidance Mr. Khalid S. Ansari in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, **Yeshwantrao Chavan College of Engineering** (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



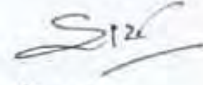
Signature

Mr. Khalid S. Ansari
(Guide)



Signature

Mrs. Snehal Kamble
(Coordinator)



Signature

Dr. S.P Raut
(HOD, CE Dept.)



Signature of External Examiner

Name

Date of Examination

STATIC & DYNAMIC BEHAVIOR OF RUBBERIZED CONCRETE

This project report is submitted to

Yeshwantrao Chavan College of Engineering
*[An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University]*

*In partial fulfilment of the requirement
For the award of the degree*

Of
Bachelor of Engineering in Civil Engineering

By
**Janvi Sarode
Shivani Namojwar
Vaidehi Bansod
Aniket Koparkar
Sarang Bhimanwar
Tejas Tipale**

Under the guidance of
Prof. D. G. Agrawal



DEPARTMENT OF CIVIL ENGINEERING
Nagar Yuvak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
NAGPUR - 441110
*(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University, Nagpur)*
2021-2022

CERTIFICATE OF APPROVAL


Certified that the project report entitled "STATIC & DYNAMIC BEHAVIOR OF RUBBERIZED CONCRETE" has been successfully completed by JANVI SARODE, SHIVANI NAMOJWAR, VAIDEHI BANSOD, ANIKET KOPARKAR, SARANG BHIMANWAR, TEJAS TIPALE, under the guidance of Prof. D. G. AGRAWAL in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature
Prof. D. G. Agrawal
(Project Guide)



Signature
Prof. S. K. Kamble
(Coordinator, CE Dept.)



Signature
Dr. S. P. Raut
(HOD, CE Dept.)

**INVESTIGATION OF ELECTRONIC WASTE AS A
REPLACEMENT OF COARSE
AGGREGATE IN M50 CONCRETE**

*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

Bachelor of Engineering in Civil Engineering

By

ATHARVA KASLIKAR

PRANAY RAHATE

SUYASH RAKHUNDE

RUSHIKESH HIWANJ

ANIKET NAGE

VAIBHAV JUMALE

Under the guidance of

Prof. P. K. Hinge



**DEPARTMENT OF CIVIL ENGINEERING
Nagar Yuwak Shikshan Santa's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur)
NAGPUR – 441 110
2021-22**

(i)

CERTIFICATE OF APPROVAL

Certified that the project report entitled **Investigation of Electronic waste as a replacement of coarse Aggregate in M 50 grade of Concrete.** has been successfully completed by **ATHARVA KASLIKAR, PRANAY RAHATE, SUYASH RAKHUNDE, ANIKET NAGE, VAIBHAV JUMALE** and **RUSHIKESH HIWANJ** under the guidance of **P.K. HINGE** sir in recognition to the partial fulfilment for the award of the degree of Bachelor of Technology in Civil Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



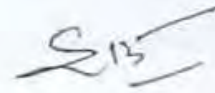
Signature

Prof.P.K.Hinge
(Guide)



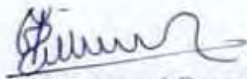
Signature

Snehal Kamble
(Co-ordinator)



Signature

Dr.Sanjay P. Raut
(HoD)



Signature of External Examiner :

Name : M.D. Pidurkuo

Date of Examination: 31/05/2022

(ii)

**EFFECT ON STRENGTH OF CONCRETE BY USING
METAKAOLIN AND COPPER SLAG.**

This project report is submitted to

Yeshwantrao Chavan College of Engineering

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

In partial fulfilment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Civil

Engineering

By

SAURABH MANDAOKAR

MANTHAN PARTETI

AHMEDRAZA KHAN

KARTIK INGLE

RISHIKESH KARALE

BHUSHAN MADAVI

Under the guidance of: **Ms. Amruta A. Yadav**



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Santa's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

**(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj
Nagpur University, Nagpur)**

NAGPUR – 441 110

2021-22

CERTIFICATE OF APPROVAL

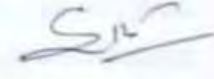
Certified that the project report entitled "EFFECT ON STRENGTH OF CONCRETE BY USING METAKAOLIN AND COPPER SLAG " has been successfully completed by Saurabh Mandaokar, Manthan Parteti, Ahmeadraza Khan, Kartik Ingle, Rishikesh Karale, Bhushan Madavi under the guidance of Ms. Amruta A. Yadav in recognition to the partial fulfilment for the award of the degree of Civil Engineering, **Yeshwantrao Chavan College of Engineering, Nagpur** (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)


Signature

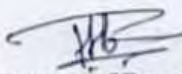
Name of Guide
(Ms. Amruta A. Yadav)


Signature

Name of co-ordinator
(Ms. Snehal Kamble)


Signature

Name of Head of deptt.
(Dr. S.P. Raut)


Signature of External Examiner :

Name: Prof. P.S. Bhandari

Date of Examination: 30-5-2022

**DEVELOPMENT OF BUILDING BLOCKS BY USING
CUPOLA SLAG AS AN INERT GRANULAR MATERIAL**

This project is submitted to

Yeshwantrao Chavan College of Engineering
(An Autonomous Institute Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

In Partial fulfillment of the requirement

For the award of the degree

Of

Bachelor of Engineering in Civil Engineering

By

Shailesh Bind Sahil Jagtap Rahi Ingale

Subodh Gaykwad Ritesh Dhumne Dhiranjay Rathod

Under the Guidance of

Prof. S.S. Meshram

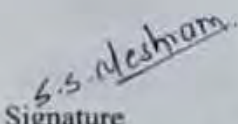
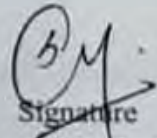

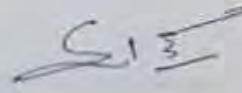


DEPARTMENT OF CIVIL ENGINEERING
Nagar Yuwak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
(An Autonomous institution affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur)
NAGPUR - 441 1100

2021 – 2022

CERTIFICATE OF APPROVAL

Certified that the project report entitled "DEVELOPMENT OF BUILDING BLOCKS BY USING CUPOLA SLAG AS AN INERT GRANULAR MATERIAL " has been successfully completed by Shailesh Bind, Sahil Jagtap, Rahi Ingale, Subodh Gaykwad, Ritesh Dhumne, Dhiranjay Rathod under the guidance of Prof. S.S. Meshram in recognition to the partial fulfillment for the award of the degree of Bachelors of Technology in Civil Engineering, Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)

 Signature	 Signature	 Signature	 Signature
Prof. S.S. Meshram (Guide)	Prof. S.N. Harinkhede (Co. Guide)	Prof. S.K. Kamble (Co.ordinator)	Dr. S.P. Raut (HOD ,Civil dept.)

Signature of External Examiner

Name

Date of Examination:

“STUDY ON SELF COMPACTING CONCRETE USING BAGASSE ASH AND METAKAOLIN”

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

In partial fulfilment of the requirement
For the award of the degree

Of

Bachelor of Engineering in Civil Engineering

By

AYUSH THAKARE	OM JIRAPURE
DIGVIJAY DASTURE	YASH PISE
YASH BHAGWATKAR	YASH KENE

Under the guidance of

Prof. M. R. Wagh



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
*(An autonomous institution affiliated to Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur)*
Nagpur - 441 110

2021-22

(i)

Certificate of Approval

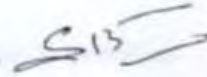
This is to Certified that the project report entitled "STUDY ON SELF COMPACTING CONCRETE USING BAGASSE ASH AND METAKAOLIN" has been successfully completed by Ayush Thakare, Om Jirapure, Digvijay Dasture, Yash Pise, Yash Bhagwatkar, Yash Kene under the guidance of Prof. Monali R. Wagh in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Civil Engineering, Yeshwantrao Chavan College of Engineering, Nagpur. (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)



Signature
Prof. Monali R. Wagh
(Guide)



Signature
Prof. Snehal Kamble
(Coordinator)



Signature
Dr. S. P. Raut
(Head of Department)

Signature of External Examiner:

Name:

Date of Examination:

(ii)

**Reduction of surface runoff by developing the pervious
concrete using waste materials.**

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 CIVIL ENGINEERING

By

**Aachal Gadpayle
Yash Netke
Divya Chimurkar**

**Amey Tinkhede
Aniket Nagarikar
Kinshuk Karmarkar**

Under the guidance of

Prof. S. G. Kalamkar



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

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

NAGPUR - 441 110

2021-22

CERTIFICATE OF APPROVAL

Certified that the project report entitled " REDUCTION OF SURFACE RUNOFF BY DEVELOPING THE PERVIOUS CONCRETE USING WASTE MATERIALS" has been successfully completed by AACHAL GADPAYLE, YASH NETKE, DIVYA CHIMURKAR, AMEY TINKHEDE, ANIKET NAGARIKAR, KINSHUK KARMARKAR under the guidance of PROF. S. G. KALAMKAR in recognition to the partial fulfilment for the award of the degree of Bachelors of Engineering in Civil Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University).**



Signature

Prof. S. G. Kalamkar

(Guide)



Signature

Prof. S. K. Kamble

(Coordinator)



Signature

Dr. S. P. Raut

(HoD, CE DEPT)

**“Evaluation of Adsorption Capacity of Adsorbents Prepared
from Agricultural & Industrial Waste”**

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 Civil Engineering

By

Ms. Aastha Panbude

Ms. Meenal Katpalliwar

Ms. Rachana Bokse

Ms. Vedika Kamdi

Mr. Pratik Jaswante

Mr. Utkarsh Gohatre

Under the guidance of

Prof. Rajesh Bhagat

(Guide)

Dr. Prakash T. Kosankar

(Co- Guide)



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University,

Nagpur)

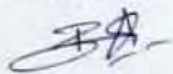
NAGPUR – 441 110

2021-2022

CERTIFICATE OF APPROVAL

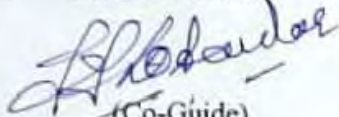
Certified that the project report entitled “**Evaluation of Adsorption Capacity of Adsorbents Prepared from Agricultural & Industrial Waste**” has been successfully completed by Ms. Aastha Panbude, Ms. Vedika Kamdi, Ms. Meenal Katpalliwar , Mr. Pratik Jaswante, Ms. Rachna Bokse and Mr. Utkarsh Gohatre under the guidance of Prof. Rajesh Bhagat and Dr. Prakash Kosankar in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering, **Yeshwantrao Chavan College of Engineering(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**

Prof. Rajesh Bhagat



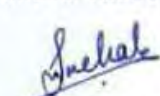
(Guide)
Signature

Dr. P.T. Kosankar



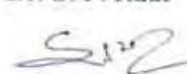
(Co-Guide)
Signature

Snehal Kamble



(Coordinator)
Signature

Dr. S. P. Raut



(HOD)
Signature

**“TO STUDY MEMBRANE BIOREACTOR AND TO CHECK
THE PERFORMANCE OF CERAMIC MEMBRANE
BIOREACTOR”**

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

Master of Technology in Environmental Engineering

By

Anuja R. Gangthade

Under the guidance of

Dr. Shantanu R. Khandeshwar

(Guide)

Er. Jagdish Lanjewar

(Director, Sun Enviro Technologies, Pvt. Ltd)

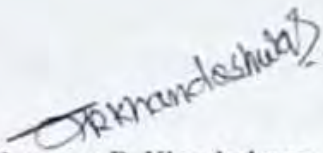
(Co-Guide)

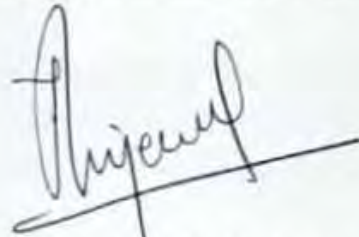


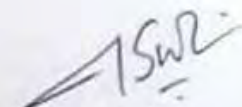
DEPARTMENT OF CIVIL ENGINEERING
Nagar Yuwak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)
NAGPUR – 441 110
2021-2022

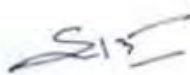
CERTIFICATE OF APPROVAL

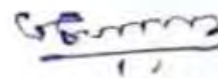
Certified that the project report entitled "To Study Membrane Bioreactor and To Check the Performance of Ceramic Membrane Bioreactor" has been successfully completed by **Anuja Ravindra Gangthade** under the guidance of **Dr. Shantanu Khandeshwar** and **Er. Jagdish Lanjewar** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Civil Engineering, **Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**

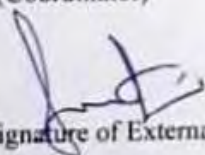

Dr. Shantanu R. Khandeshwar
(Guide)


Er. Jagdish Lanjewar
(Co-Guide)
(Director of Sun Enviro Technologies
Pvt Ltd., Nagpur)


Dr. S.V. Ambekar
(Coordinator)


Dr. S.P. Raut
(HOD, CE Dept.)


Dr. U.P. Waghe
(Principal)


Signature of External:
Examiner Name:

**Feasibility Study of Electro-Fenton Process for
Treatment of Wastewater**

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

Master of Technology in Environmental Engineering

By

Pradhnya .V. Kolhe

Under the guidance of

(Guide)

Dr. S.V.Ambekar

(Professor, Department of civil Engineering)

(Co-Guide)

Dr. Prashant Dhorabe

(Director Green Bee Resources Pvt. Ltd. Nagpur)



DEPARTMENT OF CIVIL 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


2021-2022


CERTIFICATE OF APPROVAL

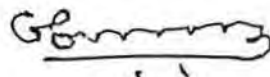
Certified that the project report entitled “Feasibility Study of Electro-Fenton Process for Treatment of Wastewater” has been successfully completed by Pradhnya .V. Kolhe under the guidance of Dr. S.V.Ambekar in recognition to the partial fulfillment for the award of the degree of Master of Technology in Mechanical Engineering, Yeshwantrao Chavan College of Engineering (*An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University*)


Dr. S.V.Ambekar
(Guide)


Dr. Prashant Dhorabe
(Co-Guide)


Dr. S.V.Ambekar
(Coordinator)


Dr. S.P.Raut
(HOD, CE Dept.)


Dr. U.P.Waghe
(Principal)

Signature of External Examiner:
Name: Prof. P. B. Kulkarni.

DEVELOPMENT OF HORIZONTAL ROUGHING FILTER FOR PRE-TREATMENT OF WATER

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 Civil Engineering

By

*Raksha Dhakate
Revati Kokate
Shefali Mohile
Bhabesh Basak
Digvijay Dasture
Prathamesh Urade*

Under the guidance of

Prof. Charuta S. Waghmare



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVHAN COLLEGE OF ENGINEERING,

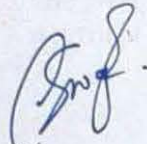
**(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur
University, Nagpur)**

NAGPUR – 441 110

2021-2022

CERTIFICATE OF APPROVAL

Certified that project report entitled " **DEVELOPMENT OF HORIZONTAL ROUGHING FILTER FOR PRE-TREATMENT OF WATER** " has been successfully completed by **RAKSHA DHAKATE, REVATI KOKATE, SHEFALI MOHILE, BHABESH BASAK, DIGVIJAY DASTURE, PRATHAMESH URADE**, under the guidance of **PROF. C. S. WAGHMARE** in recognition to the partial fulfilment for the award of the degree of Bachelor of Engineering in Civil Engineering, **Yeshwantrao Chavhan College of Engineering (An Autonomus Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Signature

Prof. C. S. Waghmare

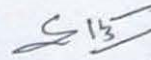
(Project Guide)



Signature

S. K. Kamble

(Dept. Co-ordinator)



Signature

Dr. S.P. Raut

(HOD, CE Dept.)

Signature of External Examiner

Name :

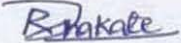
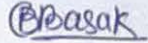
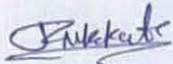

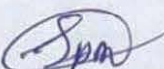
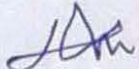
Date of Examination :

DECLARATION

We certify that,

- The work contained in this project has been done by us under the guidance of our supervisor.
- The work has not been submitted to any other Institute for any degree or diploma.
- We have followed the guidelines provided by the Institute in preparing the project report.
- We have conformed to the norms and guidelines given in the Ethical Code of Conduct of the Institute.
- Whenever we have used materials (data, theoretical analysis, figures, and text) from other sources, we have given due credit to them by citing them in the text of the report and giving their details in the references. Further, we have taken permission from the copyright owners of the sources, whenever necessary.

Signature of students

Name of the student	Signature of the Student	Name of the student	Signature of the Student
Raksha Dhakate		Bhabesh Basak	
Revati Kokate		Digvijay Dasture	
Shefali Mohile		Prathamesh Urade	

**ASSESSMENT OF BIOGAS PRODUCTION BY
EXPERIMENTAL AND THEORETICAL METHODS
USING REPOSENSE SURFACE METHODOLOGY**

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

Master of Technology in Environmental Engineering

By

Monika Devpratap Tiwari

Under the guidance of

Dr. Harshal M Warade

(Guide)

Prof. Khalid Ansari

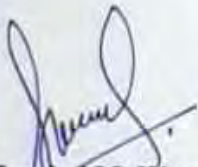
(Co-Guide)



DEPARTMENT OF CIVIL ENGINEERING
Nagar Yuwak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)
NAGPUR – 441 110
2021-2022

CERTIFICATE OF APPROVAL

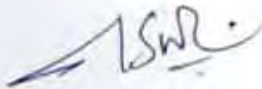
Certified that the project report entitled " Assessment of Biogas Production by Experimental and Theoretical Methods using Response Surface Methodology " has been successfully completed by **Monika Devpratap Tiwari** under the guidance of **Dr. Harshal M Warade and Prof. Khalid Ansari** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Civil Engineering, **Yeshwantrao Chavan College of Engineering, Nagpur (An Autonomous Institution Affiliated to Rashtrasant Tukdoji MaharajNagpur University)**



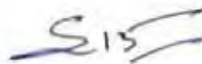
Dr. Harshal M. Warade
(Guide)



Prof. Khalid Ansari
(Co-Guide)

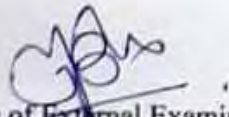


Dr. S.V. Ambekar
(Coordinator)



Dr. S.P. Raut
(HOD, CE Dept.)

Dr. U.P. Waghe
(Principal)



Signature of External Examiner

Name:

Date of Examination:

**REMOVAL OF NICKEL FROM AQUEOUS SOLUTION
USING AGRICULTURAL WASTE BASED COMPOSITE
ADSORBENTS**

This project report is submitted to

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, NAGPUR

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

In partial fulfillment of the requirement

For the award of the degree

Of

Master of Technology in Environmental Engineering

By

Mr. Nehal Gharde

Under the guidance of

Prof. Rajesh Bhagat (Guide)

Dr. Prashant Dhorabe (Co-Guide)



DEPARTMENT OF CIVIL ENGINEERING

Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, NAGPUR

(An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur

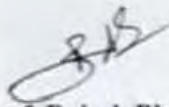
University, Nagpur)

NAGPUR – 441 110

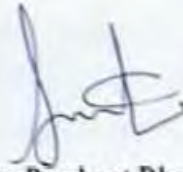
2021-2022

CERTIFICATE OF APPROVAL

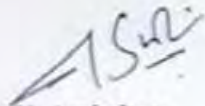
Certified that the project report entitled "**Removal of Nickel from aqueous solution using agricultural waste based composite adsorbent**" has been successfully completed by and **Nehal N. Gharde** under the guidance of **Prof. Rajesh Bhagat** and **Dr. Prashant Dhorabe** in recognition to the partial fulfillment for the award of the degree of Master of Technology in Environmental Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Prof. Rajesh Bhagat
(Guide)



Dr. Prashant Dhorabe
(Director, Green Bee
Resources Pvt. Ltd)
(Co-Guide)



Dr. S. V. Ambekar
(Coordinator)



Dr. S.P. Raut
(HOD, CE Dept)

**“UTILIZATION OF AGRICULTURAL WASTE-BASED
ADSORBENT FOR REMOVAL OF COPPER FROM
WASTEWATER”**

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

Master of Technology in Environmental Engineering

By

Roshan Ramesh Bhurse

Under the guidance of

Prof. Rajesh M. Bhagat

(Guide)

Dr. Ratnakumar Mudliar

(Co-Guide)



DEPARTMENT OF CIVIL ENGINEERING

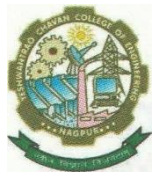
Nagar Yuwak Shikshan Sanstha's

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING,

*(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur
University, Nagpur)*

NAGPUR – 441 110

2021-2022



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

Summary of 3.2.1

Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

Year	2022-2023
(INR in Lakhs)	14.99

Name of the Project /Endowment / Chair	A Scheme for Promotion of Innovation, Entrepreneurship and Rural Industries (Phase II)
Funding Agency	Ministry of Micro Small Medium Enterprises, Govt. of India.
Name of the Principal Investigator	Dr. Uday P. Waghe
Department of the Principal Investigator	Civil Engineering Department
Month and Year of Award	June - 2023
Duration of the Project	5 Years
Funds provided	14.99 Lakhs

Supporting Documents:

1. Sanction Letter from ministry of MSME, Govt. of India.
2. Bank Statement
3. Balance Sheet



Dr. U. P. Waghe
(Principal)

A Scheme for Promotion of Innovation

No. G-27017/10/2018-KVI Div./446-450
Government of India
Ministry of Micro, Small & Medium Enterprises
KVI-1 Section

Udyog Bhawan, New Delhi-110011

Dated 17.10.2018

To

Pay & Accounts Officer,
Pay & Accounts office,
Ministry of Micro, Small & Medium Enterprises,
Nirman Bhawan, New Delhi.

Sub: Release of funds of Rs. 14,99,900/- (Rupees fourteen lakh ninety nine thousand nine hundred only) to Yashwantrao Chavan College of Engineering (YCCE), Nagpur for the financial year 2018-19 under A Scheme for Promotion of Innovation, Rural Industry and Entrepreneurship (ASPIRE).

Sir,

I am directed to convey the sanction of the President of India to the release of Rs. 14,99,900/- (Rupees fourteen lakh ninety nine thousand nine hundred only) to Yashwantrao Chavan College of Engineering (YCCE), Nagpur for meeting the expenditure for setting up of a Technical Business Incubation Center (TBI) at District-Nagpur (Maharashtra) being a 1st instalment during the current financial year 2018-19 under A Scheme for Promotion of Innovation, Rural Industry and Entrepreneurship (ASPIRE).

2. The Grant-in-Aid will be regulated in accordance with the provisions contained in the Scheme/Guidelines. The Grant-in-Aid is also subject to the provisions contained in Chapter (9) of the General Financial Rules, 2017, as amended from time to time, read with the Government of India's decisions incorporated there under, any other guidelines which may be issued in this regard and in particular to the following conditions: -

(i) The funds shall be utilized for setting up a TBI at District-Nagpur (Maharashtra) approved in the 9th Meeting of SSC held on 01.08.2018. The Financial Summary of the TBI is as follows:-

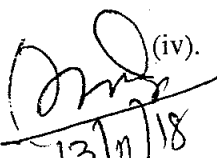
Sr. No.	Area of Opreation	Financial Assistance Approved by 9 th Scheme Steering Committee held on 01.08.2018	1 st installment of 50% of Financial Assistance Sanctioned as per Scheme Guidelines	Funds earmarked for Gen.
1.	District-Nagpur (Maharashtra)	Rs. 29,99,845/-	Rs. 14,99,900/-	Rs. 14,99,900/-

(ii). The funds released will be utilized subject to the condition that actual utilization of funds will be carried out as per detailed scheme guidelines to be operationalized.

(iii). The grantee institution shall maintain separate subsidiary bank accounts for the Government Grants received and utilized. In addition a separate Bank Account shall be maintained for the Government Grants. The bank account should be the same which was authorized for operation at the time of registration under the 'Public Finance Management System' (PFMS) of the Ministry of Finance.


(iv). YCCE should mandatorily use Expenditure, Advance and Transfer (EAT) Module of PFMS as per D/o Expenditure's instructions. Further, release of funds will be processed with the expenditure/balance details available in PFMS.

Conti—p/2


13/11/18
जे. के. साहू / J.K. SAHU
अवर सचिव / Under Secretary
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

- (v). The funds released will be utilized by YCCE for the purpose indicated in Para 2(i) above.
- (vi). YCCE shall furnish performance-cum-achievement report on or before 31.12.2018 to the Sanctioning Authority (Secretary, MSME).
- (vii). YCCE should maintain a register of permanent and semi-permanent assets acquired wholly or mainly out of the above grant in the prescribed format and copy thereof should be furnished to the Ministry.
- (viii). Assets acquired wholly or substantially out of Government Grant shall not be disposed of without obtaining the prior approval of the sanctioning authority Grants.
- (ix). The accounts of YCCE shall be opened for inspection by the sanctioning authority and audit, both by the Comptroller & Auditor General (CAG) of India under the provision of C&AG (DPC) Act, 1971 in accordance with the provisions laid down in Section 14 of the C&AG (DPC 1971) as amended from time to time and Internal Audit by the Principal Accounts Office of the Ministry of MSME, whenever it is called upon to do so.
- (x). YCCE shall furnish the Utilization Certificate in the prescribed form GFR 12A duly signed by the Head of Institution/Grantee latest by 31.12.2018. The Utilization Certificate in respect of grants should also disclose whether the specified, quantified and qualitative targets that should have been reached against the amount utilized were in fact reached, and if not, the reasons there for. YCCE shall contain an output based performance assessment instead of input based performance assessment.
- (xi). YCCE shall also furnish an audited statement of account of the financial year as early as possible.
- (xii). Funds shall be utilized subject to the Economy and other Instructions issued from time to time by the M/o Finance or by the Competent Authority.
- (xiii). YCCE should certify that no Grants-in-Aid for this purpose or activities have been applied for or obtained from any other Ministry or Department of Government of India or State Government.
- (xiv). YCCE shall adhere to all the relevant provisions of GFR and any other instructions/ guidelines issued by the Government from time to time, while making procurement/ purchases of goods and services including compliance to GFR provisions in case of outsourcing of services and engagement of consultants.
- (xv). YCCE has to execute the bond. YCCE shall furnish an undertaking that it will comply with all the terms and conditions stipulated in the sanction order.
- (xvi). YCCE should send a pre-receipted bill to this office for release of funds against this sanction.
- (xvii). In no case the grant released under this sanction will be utilized for any purpose other than those indicated in the sanction. The grantee shall not divert the grants and entrust execution of the Scheme or work concerned to another Institution or Organization and shall abide by the terms & conditions of the grant and follow/ adhere to all the relevant provisions of GFR regarding Grants in aid. If the grantee fails to utilize the grant for the purpose for which the same has been sanctioned or does not adhere to the terms & conditions of Grant and GFR provisions, the grantee/ Institution shall be required to refund the grant with interest @10% per annum.
- (xviii). YCCE shall not utilize the interest earned on the recurring / Non recurring Grants-in-Aid released to the YCCE for any purpose. The interest earned shall be indicated in UC which should be refunded to GOI after finalization of accounts under section 230(8).
- (xix). Shri R.R. Meena, Dy. Secretary, Ministry of MSME in accordance with the Ministry's Memorandum No. G-21017/2/2010-Cash dated 15.01.2013 will act as drawing and disbursing officer for the purpose of grant in aid in respect of this sanction.
- (xx). Being a 1st release for New TBI cluster, no unspent balance has been taken in the current sanction.

Conti—p/3


जे. के. साहू / J.K. SAHU
अवर सचिव / Under Secretary
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

3. The total release under this object head, including the present sanction of Rs. 14.999 lakh would be Rs. 15091.299 lakh for Grant- in-aid (General) as against the Budget Provision (BE) of Rs. 17095.00 lakh for (Gen.) under A Scheme for Promotion of Innovation, Rural Industry and Entrepreneurship (ASPIRE) during the current financial year 2018-19. The component wise cumulative release including the present sanction is as below:-

(Rs. in Lakh)

Non-NER					NER	Total
	<u>2851.00.105</u> <u>.16.01.31</u> Grants – in – aid (General)	2851.00.10 5.16.01.20 OAE	<u>2851.00.789.</u> <u>63.01.31</u> Grants – in – aid (SCSP)	<u>2851.00.7</u> <u>96.62.01.3</u> 1 Grants – in –aid (TSP)	Total	<u>2552.00.</u> <u>232.</u> <u>15.01.31</u>
BE-2018-19	17095.00	5.00	2300.00	1400.00	20800.00	2400.00
Funds already sanctioned/ released	15076.30	1.28	2300.00	1400.00	18777.58	-
Funds sanction for release in current Proposal	14.999	-	-	-	14.999	-
Total	15091.299	1.28	2300.00	1400	18792.579	-

4. **Demand No. 64 Ministry of Micro, Small & Medium Enterprises for the year 2018-19.**

'2851' : Village and Small Industries (Major Head)
00.105 : Khadi & Village Industries (Minor Head)
16 : Technology Upgradation and Quality Certificate
16.01 : A Scheme for Promotion of Innovation, Rural Industry and Entrepreneurship (ASPIRE)
16.01.31 : Grant-in-Aid of Rs. 14,99,900/- (Rupees fourteen lakh ninety nine thousand nine hundred only).

5. The details of Bank Account of to Yashwantrao Chavan College of Engineering (YCCE), Nagpur is as under:

Name of the beneficiary	Name of Bank where A/c of Org Held	Address/ Code of Bank Branch	A/c No.	MICR Code and IFSC Code
Yashwantrao Chavan College of Engineering (YCCE), Nagpur	Bank of India	Branch- Hingna, Nagpur(Maharashtra)	876620110000226	MICR Code 440013038 IFSC Code BKID0008766

6. This letter issued with the concurrence of the Integrated Finance Wing vide their Diary No. 272/US(Fin-I)/2018 dated 13.09.2018.

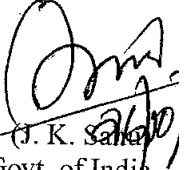
Yours Faithfully,


(J. K. Sahu)

Under Secretary to the Govt. of India
ज. क. साह / J. K. Sahu
अवर सचिव / Under Secretary
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Copy to:

1. The Principal, Yashwantrao Chavan College of Engineering (YCCE), Hingna Road, Wanadongri, Nagpur-441110, Maharashtra.
2. Director of Audit (Central), Audit Bhawan, Bandra Kurla Complex, Bandra (East), Mumbai - 51
3. Principal Director of Audit, Economic & Service Ministries, IP Estate, AGCR Building, New Delhi.
4. Finance-I/B&A
5. Sanction/Guard File.



Under Secretary to the Govt. of India

Tel. No.23062573

जे. के. साह / J.K. SAHU

अवर सचिव / Under Secretary

सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय

Ministry of Micro, Small and Medium Enterprises

भारत सरकार, नई दिल्ली

Govt. of India, New Delhi

CERTIFICATE OF APPROVAL

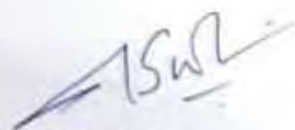
Certified that the project report entitled "UTILIZATION OF AGRICULTURAL WASTE BASED ADSORBENT FOR REMOVAL OF COPPER FROM WASTEWATER" has been successfully completed by **Roshan R. Bhurse** under the guidance of **Prof. Rajesh M. Bhagat** and **Dr. Ratnakumar Mudliar** in recognition to the partial fulfilment for the award of the degree of Master of Technology in Environmental Engineering, **Yeshwantrao Chavan College of Engineering (An Autonomous Institution Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)**



Prof Rajesh M Bhagat
(Guide)



Dr. Ratnakumar Mudliar
(Co- Guide)
(Chief Advisor,
Indian Environment Consultancy
and research services)



Dr. S. V. Ambekar
(Coordinator)



Dr. S.P. Raut
(HOD, CE Dept)



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

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NAAC Accredited with 'A++' Grade

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Declaration by the Head of the Institution

I hereby declare that the data, information and support documents attached herewith are genuine and correct to my knowledge.

Dr. U.P. Waghe

Principal

Principal

Yeshwantrao Chavan
College of Engineering
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NAGPUR-441110

