



उन्नत भारत अभियान
राष्ट्रीय समन्वय संस्थान
भारतीय प्रौद्योगिकी संस्थान दिल्ली
हौज़ खास, नई दिल्ली-११००१६



UNNAT BHARAT ABHIYAN
NATIONAL COORDINATING INSTITUTE
INDIAN INSTITUTE OF TECHNOLOGY DELHI
Hauz Khas, New Delhi - 110016
Website : <http://unnat.iitd.ac.in>

Prof. Virendra K. Vijay
National Coordinator, UBA
Professor CRDT, IITD

Tel. : +91-11-2659 1121/1157 (O)
Fax : +91-11-2659 1121
Email : unnatbharatabhiyaniitd@gmail.com
vkvijay@rdat.iitd.ac.in

Dear Sir/Madam,

Congratulations to all the Participating Institutions (PIs) selected under Unnat Bharat Abhiyan, a flagship program of Ministry of Human Resource Development (MHRD) Government of India through a challenge mode application. The Mission of Unnat Bharat Abhiyan is to enable participating higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the development needs of rural India.


As per the programme, educational institutions is primarily to develop linkage with selective rural clusters (preferably of five villages), to get involved in the planning process and to promote the requisite S&T interventions to improvise and expedite the developmental efforts in those clusters. The approach is a departure from the grant oriented method and would see the participation and commitment of faculty and students in this endeavour.

We shall be processing release of Rs. 10000/- per village under the UBA program. The funds are mainly meant for assistance for awareness, Gram Panchayat Development Plan (GPDP) study, need assessment, and contingency expenditure. There are provision of Rs 1.0 lakh for technological intervention/ solution and Rs 0.50/- lakh for customization of a technological solution under the program. Which you can avail of afterwards by submitting proposals with ratification of the Gramsabha. A two-way channel between PIs and National Coordinating Institute (NCI) as well as Subject Expert Groups (SEGs) for project proposal submission and evaluation has been developed and functional on UBA portal. You can use your login credential for uploading proposals on UBA website '**FINANCIAL AIDS**'. The login credentials are same as your registration login credentials.

You are also requested to keep IIT Delhi, the National Coordinating Institute updated about your activities so that the same can be uploaded on the website of UBA.

Regards and best wishes for your institution for contributing to India's development.

With regards

Your Sincerely, 
Prof. Virendra K Vijay
National Coordinator,
Unnat Bharat Abhiyan



एक कदम स्वच्छता की ओर



सूचना का
अधिकार

Dr N Saravana Kumar, IAS
Joint Secretary (ICC/P)
Tel.: +91-11-23071486
Fax: +91-11-23071487
E-mail: saravana.kumar@gov.in

भारत सरकार
मानव संसाधन विकास मंत्रालय
उच्चतर शिक्षा विभाग
शास्त्री भवन
नई दिल्ली - 110 115
GOVERNMENT OF INDIA
MINISTRY OF HUMAN RESOURCE DEVELOPMENT
DEPARTMENT OF HIGHER EDUCATION
SHASTRI BHAVAN
NEW DELHI-110 115

D.O. No.5-1/2016-UBA

Dated: 20th July, 2018

Dear District Collector,

As you may be aware, UNNAT BHARAT ABHIYAAN is a flagship programme initiated by Government of India with the objective to engage reputed Higher Educational Institutions (both central and state; public and private) to understand and work in rural areas. As of now, 750 reputed institutions have been selected on a challenge mode. With the intention of enriching rural India, these selected Institutions are expected to customise the available technologies or develop new technologies as per the local needs and also to improve the implementation of existing government programmes.

The details of the selected Higher Educational Institute(s) in your district, along with the selected 5 villages and also the contact details of Project Coordinator of the said institute(s) are attached herewith.

I request you to facilitate the works of the selected Institute(s) in the identified villages, through following interventions:

1. Facilitate meeting of Project Coordinator with all concerned stakeholders like Gram Panchayats, BDOs, District Development Authority etc.
2. Your guidance to the selected Institute(s), with regard to the needs of the district/ selected villages;
3. Mobilisation of funds from district administration or other sources to the Institute, if possible, in accordance with the activities under UBA.
4. Time to Time review under your leadership.

In this regard Secretary, Higher Education has also requested for facilitation vide D.O. No 5-1/2016-UBA dated 16-4-2018.

IIT, Delhi is the National Coordinating Institute for the implementation of Unnat Bharat Abhiyan. For any clarification, your office may contact IIT Delhi (unnatbharatabhiyaniitd@gmail.com) / 011-26591157/26596451 or the undersigned.

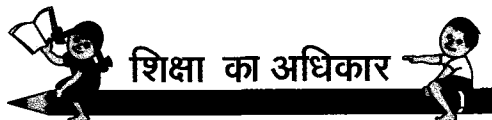
Thanking you,

Yours sincerely,

(N Saravana Kumar)

Enclosed: As above

Copy To :- Secretary, Higher Education of all States/UT's.



शिक्षा का अधिकार

सर्व शिक्षा अभियान

सब पढ़ें सब बढ़ें



S. J. P. N. Trust's
Hirasugar Institute of Technology,
Nidasoshi - 591 236

Dist. : Belagavi, Karnataka.



"INCULCATING VALUES, PROMOTING PROSPERITY"

(Affiliated to Visvesvaraya Technological University, Belagavi, and Approved by All India Council for Technical Education, New Delhi.)

Accredited at "A" Grade by NAAC
Programs Accredited by NBA : CSE, ECE, EEE & ME.

Prof. S. C. Kamate
Principal Ph.D.

Ref. : HIT/NDS/UBA/2020-21/80

Date : 08/07/2020

To,
District Collector
Belgaum
Karnataka State

Sub: Identification of villages under the UBA Program.

Dear Sir,

Ministry of Human Resources Development (MHRD), Government of India has launched the national program called Unnat Bharat Abhiyan (UBA), with the vision to involve professional and higher educational institutions in the development process of rural areas in the country to achieve sustainable development and better quality of life. Indian Institute of Technology, Hauz Khas, New Delhi has been designated to be the National Coordinating Institute by the Ministry.

Our Institution **Hirasugar Institute of Technology, Nidasoshi** and AISHE Code C-1409 has agreed to participate in UBA as a Participating Institute (PI). Dr. S.N.Topannavar, Associate Professor, Mechanical Engineering Department, Mobile No. 9482440235, E-mail: sntopannavar.mech@hsit.ac.in has been duly authorized in this regard from our side to carry on the activities of UBA in our organization as Project Coordinator.

Under the UBA program every Participating Institute is to adopt a cluster of five villages in consultation with the District Collector. This is to bring to your kind notice that we have proposed the following villages in the Belgaum District.

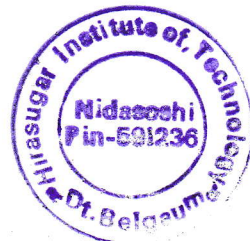
1. Nidasoshi
2. Ammanagi
3. Boragal
4. Kesti
5. Hattarawat


In view of the above the Project Coordinator may contact your officer for the purpose. We request you to please help and cooperate in the matter.

With regards,

Your Sincerely,

Copy to UBA IIT Delhi




Dr. S.C.Kamate
Principal

MANDATE FORM/ AGREEMENT

ELECTRONIC CLEARING SERVICE (CREDIT CLEARING)/ REAL TIME
GROSS
SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS

Details of Account Holder(Institutional only not personal)

| | |
|---|---|
| Name of Account(Designation/Institution Name) | The Principal and Chairman Hirasugar Institute of Technology |
| Institute AISHE Code | C-1409 |
| Type of Institute | Technical |
| Complete Contact Address | At/Post:Nidasoshi Tal:Hukkeri Dist:Belagavi PIN:591236 |
| Contact No. | 9535666217 |
| Email | principal@hsit.ac.in |

Bank Account Details(Institutional only not personal)

| | |
|--------------------------------|--|
| Bank name | State Bank of India ✓ (01727) Sankeshwar Post Box |
| Complete Address | No.15, Sankeshwar, Gokak Road Hukkeri Taluka Sankeshwar Dist:Belagavi Karnataka-591313 ✓ |
| Whether branch is computerized | Yes ✓ |
| Branch's RTGS CODE | SBIN0001727 ✓ |
| Branch's IFSC CODE | SBIN0001727 ✓ |
| If this branch NEFT enable | Yes ✓ |
| Type of Bank Account | Current ✓ |
| Complete bank Account no. | 31868488488 ✓ |
| MICR Code of Bank | 591002533 ✓ |
| PAN Card Number | AACTS0452Q ✓ |
| TIN/TAN Number | BLRH02273F ✓ |

Declaration



I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information I would not hold the user Institution responsible. I have read the option invitation letter and agree to discharge responsibility expected of me as a particular under the Scheme. The Utilization Certificate for the funds received shall be submitted as when required.

[Handwritten Signature]
08/07/2020

Seal/Signature of UBA Coordinator of PI

(Dr. S.N. Topannaval)

Certified that the particulars furnished above are correct as per records.

[Handwritten Signature]
08/07/20

PRINCIPAL

Nidasoshi Institute of Technology

NIDASOSHI - 591 238

Seal/Signature of Authorized Person of Institute



MANDATE FORM/ AGREEMENT

ELECTRONIC CLEARING SERVICE (CREDIT CLEARING)/ REAL TIME
GROSS
SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS

Details of Account Holder(Institutional only not personal)

| | |
|---|---|
| Name of Account(Designation/Institution Name) | The Principal and Chairman Hirasugar Institute of Technology |
| Institute AISHE Code | C-1409 |
| Type of Institute | Technical |
| Complete Contact Address | At/Post:Nidasoshi Tal:Hukkeri Dist:Belagavi PIN:591236 |
| Contact No. | 9535666217 |
| Email | principal@hsit.ac.in |

Bank Account Details(Institutional only not personal)

| | |
|--------------------------------|--|
| Bank name | State Bank of India ✓ (01727) Sankeshwar Post Box |
| Complete Address | No.15, Sankeshwar, Gokak Road Hukkeri Taluka Sankeshwar Dist:Belagavi Karnataka-591313 ✓ |
| Whether branch is computerized | Yes ✓ |
| Branch's RTGS CODE | SBIN0001727 ✓ |
| Branch's IFSC CODE | SBIN0001727 ✓ |
| If this branch NEFT enable | Yes ✓ |
| Type of Bank Account | Current ✓ |
| Complete bank Account no. | 31868488488 ✓ |
| MICR Code of Bank | 591002533 ✓ |
| PAN Card Number | AACTS0452Q ✓ |
| TIN/TAN Number | BLRH02273F ✓ |

Declaration



I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information I would not hold the user Institution responsible. I have read the option invitation letter and agree to discharge responsibility expected of me as a particular under the Scheme. The Utilization Certificate for the funds received shall be submitted as when required.

[Handwritten Signature]
08/07/2020

Seal/Signature of UBA Coordinator of PI

(Dr. S.N. Topannavar)

Certified that the particulars furnished above are correct as per records.

[Handwritten Signature]
08/07/20

PRINCIPAL

Kissugar Institute of Technology

NIDASOSHI - 591 238

Seal/Signature of Authorized Person of Institute





S.N Topannavar <sntopannavar.mech@hsit.ac.in>

Seed Money Fund Transfer Details

3 messages

Unnat Bharat Abhiyan <unnatbharatabhiyaniitd@gmail.com>

Tue, Apr 13, 2021 at 4:49 PM

To: Virendra kumar Vijay <vkvijay14@gmail.com>, Vivek Kumar <vivekk@rdat.iitd.ac.in>, Priyanka Kaushal

<priyankak@rdat.iitd.ac.in>, Virendra Kumar Vijay <vkvijay@rdat.iitd.ac.in>

Cc: meeta bolia <meeta.uba@gmail.com>, manishdsp009@gmail.com

Bcc: sntopannavar.mech@hsit.ac.in

Dear Sir/Madam,

Namaskar!**With Due Respect,**

Your fund has been released please find the attached document for UTR detail.

For any query feel free to contact me.

With Regards,**Manish Kumar****Jr. Project Assistant(Tech)****Unnat Bharat Abhiyan(UBA)****Contact Number:9650050887**

On behalf of

Prof. Virendra K Vijay**National Coordinator - Unnat Bharat Abhiyan****IREDA Chair Professor**

Centre for Rural Development and Technology,

Indian Institute of Technology Delhi

Hauz Khas, New Delhi - 110016

Phone: +91-11-26591157, 26596351

Email: unnatbharatabhiyaniitd@gmail.com,vkvijay@rdat.iitd.ac.inWebsite: <http://unnatbharatabhiyan.gov.in>**GEN21560.xls**

18K

Principal HIT, Nidasoshi(Belagavi) <principal@hsit.ac.in>

Wed, Apr 14, 2021 at 11:27 AM

To: "S.N Topannavar" <sntopannavar.mech@hsit.ac.in>

With Regards**Dr. S. C. Kamate****Principal****Hirasugar Institute of Technology****NIDASOSHI - 591236****Belgaum Dist, Karnataka, INDIA**

Cell: 9480849331; Phone: 08333-278887; Fax: 08333-278886

[Quoted text hidden]

**GEN21560.xls**

18K

S.N Topannavar <sntopannavar.mech@hsit.ac.in>
To: "Principal HIT, Nidasoshi(Belagavi)" <principal@hsit.ac.in>

Wed, Apr 14, 2021 at 4:30 PM

Respected sir,
I have initiated related activities in discussion with Mr.Manish Kumar.
[Quoted text hidden]

IRD IIT Delhi
IIT CAMPUS,HAUZ KHAS

PAYMENT ADVICE

To
THE PRINCIPAL AND CHAIRMAN HIRASUGAR INSTITUTE OF TECHNOLOGY

Dear Sir/Madam,

Details of the transactions initiated through SBI CMP in favour of you are

| PAYMENT_INVOICE_FIELDS | VALUES |
|-------------------------------|--|
| JOURNAL_NUMBER | 218444850 |
| AMOUNT | 50,000.00 |
| DATE | 30-03-2021 |
| LINKAGE_FIELD | |
| AMOUNT | 50000 |
| TAX DEDUCTED | |
| PROJECT NO | |
| OUT REF NO | |
| DATE | |
| GROSS AMOUNT | 50000 |
| TOWARDS | PAYMENT TO PARTICIPATE INSTITUTES WORKING UNDER UBA VIDE GEN21560 |
| BANK NAME | SBI |
| ACCOUNT NO | 31868488488 |
| IFSC CODE | SBIN0001727 |

Your Bank Account No: 31868488488

Your Bank IFSC Code: SBIN0001727

Please acknowledge receipt of the payment
For IRD IIT Delhi

Authorised Signatory

This is Computer generated advice and does not require any Signature



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Programmes Accredited by NBA: CSE, ECE, EEE & ME

Unnat Bharat Abhiyan
(UBA)

Village & Household
Survey

AY:2020-21

Unnat Bharat Abhiyan (UBA)-Village and Baseline Household Survey

(Ref: Volunteer Participation through Google form, Awareness Program and constituted STT)

With reference to the above Survey Teams for 5 adopted villages have been constituted to complete UBA-Village Survey and UBA-Baseline Household Survey.

List of Staff Members for the village Nidasoshi

| S.N. | Name | Designation | Department | Mobile Number | Signature |
|------|-------------------------|--------------------------------|------------|---------------|-----------|
| 1 | Mahantesh Tanodi | Assistant Professor & Convenor | ME | 9611998812 | |
| 2 | S.I.Itannavar | Assistant Professor & Convenor | ECE | 9964299498 | |
| 3 | Rajendra S Bardol | Instructor & Convenor | EEE | 8277010328 | |
| 4 | Maheshwar A Hipparagi | Assistant Professor | ME | 7411507405 | |
| 5 | Sujata Huddar | Assistant Professor | EEE | 9742066852 | |
| 6 | M.M.Shivashimpi | Assistant professor | ME | 9742197173 | |
| 7 | Mohan Futane | Assistant Professor | ME | 9164105035 | |
| 8 | Sunita Malaj | Assistant Professor | ECE | 8073529095 | |
| 9 | Manjunath S Hanagadakar | Associate Professor | 1st Year | 8310768223 | |
| 10 | Ravindra Patil | Assistant Professor | CSE | 9845455422 | |
| 11 | Keshav Negalur | Assistant professor | EE | 7619165884 | |
| 12 | Shivanand Hirekodi | Assistant Professor | EEE | 8073543248 | |
| 13 | K.B. Manwade | Associate professor | CSE | 8412968254 | |
| 14 | Amit Nesti | Assistant Professor | EEE | 9606703174 | |
| 15 | Pratima Khot | Assistant Professor | ECE | 9964019501 | |
| 16 | Mohan A. Gholap | Assistant Professor | CSE | 8660535525 | |
| 17 | Aruna Anil Daptardar | Assistant Professor | CSE | 9620851002 | |
| 18 | Annappa R Bhiste | Instructor | CSE | 9538170337 | |
| 19 | Anand K Badakar | Assistant Programmer | CSE | 9980283608 | |
| 20 | Manojkumar Chitale | Assistant professor | CSE | 9480787474 | |
| 21 | N.K.Honnagoudar | Assistant Professor | CSE | 9449495302 | |

List of Staff Members for the village Ammanagi

| S.N. | Name | Designation | Department | Mobile Number | Signature |
|------|--------------------------|--------------------------------|------------|---------------|-----------|
| 1 | K. M. Akkoli | Associate Professor & Convener | ME | 9739114856 | |
| 2 | Shivanand V Manjaragi | Assistant Professor & Convener | CSE | 9986658309 | |
| 3 | V.G.Badiger | Forman & Convener | ME | 9739114857 | |
| 4 | G.B.Dodagoudar | Instructor & Convener | 1st Year | 9886361216 | |
| 5 | Darshan N Inamdar | Assistant professor | ME | 9591208980 | |
| 6 | Nyamatulla M Patel | T & P Officer | CSE | 9739619661 | |
| 7 | Virupakshi M Bhumannavar | Assistant Professor | 1st Year | 9448526988 | |
| 8 | Chandrakant R Belavi | Assistant Professor | CSE | 7829241219 | |



S J P N Trust's
Hirasugar Institute of Technology, Nidasoshi.

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Unnat Bharat Abhiyan
(UBA)

Village & Household
Survey

AY:2020-21

| | | | | | |
|----|-------------------|---------------------|-----|------------|--|
| 9 | Maresh Huddar | Assistant Professor | CSE | 7411043272 | |
| 10 | Maresh Yenagimath | Assistant Professor | EEE | 9341449466 | |

List of Staff Members for the village Borgal

| S.N. | Name | Designation | Department | Mobile Number | Signature |
|------|----------------|--------------------------------|------------|---------------|-----------|
| 1 | S.A.Goudadi | Assistant Professor & Convener | ME | 9448876682 | |
| 2 | M.G.Huddar | Assistant Professor & Convener | CSE | 7411043272 | |
| 3 | Pramod Desai | Forman & Convener | ECE | 9620024724 | |
| 4 | Chetan Jodatti | Instructor | T & P | 9535421165 | |
| 5. | K.R.Zinage | Asst-Prof | EEE | 8073512609 | |

List of Staff Members for the village Hattarwat

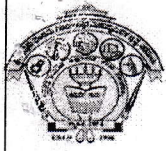
| S.N. | Name | Designation | Department | Mobile Number | Signature |
|------|---------------|------------------------------|------------|---------------|-----------|
| 1 | S.B.Sarwadi | Physical Director & Convener | Sports | 9739109383 | |
| 2 | Ashok Bennoli | Instructor & Convener | CSE | 7829847451 | |

List of Staff Members for the village Kesti

| S.N. | Name | Designation | Department | Mobile Number | Signature |
|------|---------------------|--------------------------------|------------|---------------|-----------|
| 1 | D. B. Madihalli | Assistant Professor & Convener | ECE | 9902854324 | |
| 2 | G.S.Solabannavar | Librarian & Convener | Other | 7204183589 | |
| 3 | Pramod Murari | Assistant Professor | EEE | 9739733021 | |
| 4 | Sujata S. Kamate | Assistant Professor | ECE | 9008696825 | |
| 5 | Dattatray M Kumbhar | Assistant professor | ECE | 7353545488 | |
| 6. | O.B.Heddurshetti | Asst. Prof. | EEE | 9448420509 | |



PRINCIPAL
Hirasugar Institute of Technology
Nidasoshi- 591 236



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Unnat Bharat Abhiyan
(UBA)

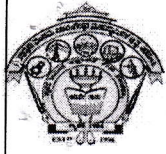
Village & Household
Survey

AY:2020-21

List of Student Volunteers for all 5 Adopted Villages

| S.N. | Name | USN | Sem | Mobile | Native | Signature |
|------|-------------------------------|------------|------|------------|-----------------|-------------|
| 1. | Mahantesh Hiremath | 2HN19ME407 | VI | 7026797668 | Ilkal | [Signature] |
| 2. | Vivekananda C Kambi | 2HN18ME048 | VI | 7406124053 | Mamadapur | [Signature] |
| 3. | Nikita M. Hattarki | 2HN19EC013 | IV | 7558606474 | Daddi | [Signature] |
| 4. | Priyanka Dattawade | 2HN19EC014 | IV | 9972036805 | Mekhali | [Signature] |
| 5. | Maruti A Magadum | 2HN19EC011 | IV | 9986095368 | Madamakkanal | [Signature] |
| 6. | Sharanabasapp M Chalikar | 2HN19CS038 | IV | 8088505552 | Bhairamadagi | [Signature] |
| 7. | Prasad Hiremath | 2HN19CS027 | IV | 9448163822 | Belgaum | [Signature] |
| 8. | Nagadarshan Kopparad | 2HN19EE009 | IV | 7259290709 | Ilkal | [Signature] |
| 9. | Sohail Yargatti | 2hn17me050 | VI | 7996227934 | Belgaum | [Signature] |
| 10. | Apoorva Magadum | 2HN19EC003 | IV | 9632562486 | Hukkeri | [Signature] |
| 11. | Divya Karigar | 2HN19EC005 | IV | 8310452546 | Sankeshwar | [Signature] |
| 12. | Aishwarya Gundoli | 2HN18CS001 | VIII | 7259550923 | Sunadholi | [Signature] |
| 13. | Suraj S Drakshe | 2HN19EE012 | IV | 9513794305 | Hirekodi | [Signature] |
| 14. | Rutuja Shetti | 2HN19EC019 | IV | 8431728625 | Raibag | [Signature] |
| 15. | Laxmi Bedage | 2HN19EC010 | IV | 9740832840 | Yadurwadi | [Signature] |
| 16. | Kallappa Ningappa Chikodi | 2HN19EC009 | IV | 7619154326 | Donwad | [Signature] |
| 17. | Nivedita L Udupudi | 2HN19CS020 | IV | 8073723423 | Gokak | [Signature] |
| 18. | Ajinkaykumar Sambhaji Bhosale | 2HN18ME005 | VI | 6360103570 | Nipani | [Signature] |
| 19. | Anupriya B Mugalkhod | 2HN20CS400 | IV | 9148364195 | Terdal | [Signature] |
| 20. | Nihal Siraj Shaikh | 2HN19CS037 | IV | 9307937437 | Miraj | [Signature] |
| 21. | Pradeep Raghannavar | 2HN19CS023 | IV | 8431640988 | Junnur | [Signature] |
| 22. | Vineet Gandolli | 2HN19CS048 | IV | 8951612633 | Gokak | [Signature] |
| 23. | Sneha S Hirekodi | 2HN19CS040 | IV | 9606783195 | Kanagala | [Signature] |
| 24. | Kartik Kumbar | 2HN19CS015 | IV | 6364328002 | Chikodi | [Signature] |
| 25. | Rohit Mali | 2HN19CS030 | IV | 7406462547 | Mangasuli | [Signature] |
| 26. | Solapure Amrut Basavaraj | 2HN19CS042 | IV | 7620836378 | Nilagi | [Signature] |
| 27. | Ashwini Maled | 2HN18CS005 | IV | 8105762541 | Lokapur | [Signature] |
| 28. | Harfa I Mujawar | 2HN19CS014 | IV | 8105561244 | Gokak | [Signature] |
| 29. | Sahana Naik | 2HN19CS031 | IV | 9731518120 | Radderahatti | [Signature] |
| 30. | Soumya Kadam | 2HN19CS043 | IV | 9380204414 | Athani, | [Signature] |
| 31. | Amruta Gudimani | 2HN19CS005 | IV | 8722913597 | Hirekodi, | [Signature] |
| 32. | Padma Borannvar | 2HN19CS021 | IV | 8105158323 | Bellad bagewadi | [Signature] |
| 33. | Akshata K M | 2HN19CS004 | IV | 6361736284 | Janawad | [Signature] |
| 34. | Keerti C Chajagoud | 2HN19CS016 | IV | 8660163381 | Karoshi | [Signature] |
| 35. | Muzammil Patel | 2HN19CS019 | IV | 7204947143 | Bijapur | [Signature] |
| 36. | Suprita Sindhur | 2HN19CS045 | IV | 9743634531 | Kakamari | [Signature] |
| 37. | Akshay Salagare | 2HN19EC001 | IV | 7026375395 | Nilaji | [Signature] |
| 38. | Ganesh Managuli | 2HN19EC006 | IV | 8073373098 | Nagarmunnoli | [Signature] |





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(UBA)

Village & Household
Survey

AY:2020-21

| | | | | | | |
|-----|-------------------------|------------|------|------------|---------------------|-----|
| 39. | Ramakrshna K. Magadum | 2HN18ME031 | VIII | 9844519754 | Kamatanur | (P) |
| 40. | Ramesh Manjaragi | 2HN20ME403 | IV | 6362315826 | Ammanagi | (P) |
| 41. | Hasansab S. Yaragatti | 2HN18ME013 | VIII | 9380648988 | Gokak | (P) |
| 42. | Sudharani B Kurani | 2HN18CS037 | VI | 7676839549 | Teerth | (P) |
| 43. | Ashwathraj Nerli | 2HN19CS007 | IV | 9902535217 | Chikodi | (P) |
| 44. | Seema Tugadalli | 2HN19CS036 | IV | 9663234355 | Mugalkhod | (P) |
| 45. | Pranav Gaddi | 2HN19CS026 | IV | 8861909177 | Sankeshwar | (P) |
| 46. | Sunil Sutar | 2HN20CS403 | IV | 9535164295 | Sankeshwar | (P) |
| 47. | Sneha Shitole | 2HN19CS039 | IV | 9535554899 | Borgaon | (P) |
| 48. | Swati Patil | 2HN18CS039 | VI | 9611870374 | Hukeri | (P) |
| 49. | Daneshwari J Sultanpure | 2HN19CS011 | IV | 7899707537 | Sankeshwar | (P) |
| 50. | Meenaxi Baad | 2HN20CS401 | IV | 7090513882 | Nidasoshi | (P) |
| 51. | Sneha Patil | 2HN19CS400 | VI | 9071654955 | Sankeshwar | (P) |
| 52. | Tehamim.M.Rehamanbhai | 2HN19EE013 | IV | 8971095318 | Chikodi | (P) |
| 53. | Sneha V Ganachari | 2HN19CS041 | IV | 7996010238 | Hukkeri | (P) |
| 54. | Smita Manoli | 2HN18CS033 | VI | 8971885532 | Nidasoshi | (P) |
| 55. | Vishakha Vijay Nesari | 2HN18CS045 | VI | 7019631053 | Sankeshwar | (P) |
| 56. | Rajat Naganur | 2HN18EE015 | VI | 6361907448 | Bailhongal | (P) |
| 57. | Chinna Yashawant | 2HN18EE005 | VI | 8867487798 | Borgal | (P) |
| 58. | Shashidhar Gurav | 2HN19ME010 | IV | 7337853480 | Borgal | (P) |
| 59. | Shivaprasad Amnagi | 2HN18ME036 | VI | 7022403970 | Nandagao (savalagi) | (P) |
| 60. | Chetan Karigar | 2HN16ME017 | VI | 8073789383 | Chikodi | (P) |
| 61. | Mahadev Rama Gulli | 2HN19ME007 | IV | 9686755257 | Bidrewadi, | (P) |
| 62. | Vimarsha Pujari | 2hn20ec044 | II | 8217664206 | | (P) |
| 63. | Swati Kupati | 2HN20EC041 | II | 7483898619 | Nattargi | (P) |
| 64. | Sushmita Tanodi | 2HN20EC040 | II | 7204944241 | Nidasoshi | (P) |
| 65. | Nayana Patil | 2HN20CV002 | II | 7411013397 | | (P) |
| 66. | Sneha Sadalagi | 2HN20EC038 | II | 6360136267 | Hebbal | (P) |
| 67. | Shravana Bastwadi | 2HN20EC033 | II | 6361231755 | Kochasi | (P) |
| 68. | Gouri Mathapati | 2HN20EC010 | II | 7483554619 | Ammanagi | (P) |
| 69. | Sapna Naik | 2HN20EC031 | II | 7019411717 | Beniwad | (P) |
| 70. | Nilambari Arakeri | 2HN20ec019 | II | 8904021345 | | (P) |
| 71. | Aishwarya Dudaganvi | 2HN20ec004 | II | 9529879633 | Vanlamuri | (P) |
| 72. | Samrudhi Kulkarni | 2HN20EC029 | II | 9740984467 | Nipani | (P) |
| 73. | Poornima Shindhe | 2HN20EC023 | II | 7975748665 | Shedbal | (P) |
| 74. | Neha Bhujagoudar | 2HN20EC018 | II | 8951603108 | Shedbal | (P) |
| 75. | Priyanka Gharagude | 2HN20EC025 | II | 7676376867 | Jainapur | (P) |
| 76. | Madhuja Khot | 2HN20EC014 | II | 8792682039 | Borgaonwadi | (P) |
| 77. | Komal Chavan | 2HN20EC012 | II | 9741945017 | Yadur | (P) |
| 78. | Saraswati Baldoal | 2HN20EC032 | | 9591492134 | Gokak | (P) |





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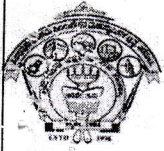
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Programmes Accredited by NBA: CSE, ECE, EEE & ME

Unnat Bharat Abhiyan
(UBA)

Village & Household
Survey

AY:2020-21

| | | | | | | |
|------|----------------------------|------------|----|------------|-------------|------------|
| 79. | Arati Bugadikatti | 2HN20EC007 | II | 8867043539 | Ingall | Arati |
| 80. | Neelambika Govindapuramath | 2HN20EC017 | II | 7022017720 | Mudhol | Neelambika |
| 81. | Ashwini Patil | 2HN20EC008 | II | 8867446947 | Belgavi | Ashwini |
| 82. | Tejashri Patil | 2HN20EC042 | II | 7975123008 | Bhivashi | Tejashri |
| 83. | Shweta Mangasole | 2HN20EC036 | II | 8880875484 | Shamanewadi | Shweta |
| 84. | Shrutika Dhang | 2HN20EC035 | II | 8277303726 | Ugar.Kh | Shrutika |
| 85. | Sanika Patil | 2HN20EC030 | II | 988059561 | Shiroadwad | Sanika |
| 86. | Sneha Belagali | 2HN20EC037 | II | 7892380575 | Yadur | Sneha |
| 87. | Shruti Magadam | 2HN20EC034 | II | 7338240933 | Kesti | Shruti |
| 88. | Sneha Munnoli | 2HN20EC039 | II | 9591353167 | Kesti | Sneha |
| 89. | Veena Magadam | 2HN20EC043 | II | 7975788522 | Nasalapur | Veena |
| 90. | Jyoti Benawadi | 2HN20ee007 | II | 9591553515 | Waganur km. | Jyoti |
| 91. | Rashmi Malagoudnavar | 2HN20ee013 | II | 9964188688 | Yalimuroli | Rashmi |
| 92. | Saniya Choudhari | 2HN20ee014 | II | 8073773604 | Hukkeri | Saniya |
| 93. | Swati Padipatil | 2HN20EE018 | II | 9353981399 | | Swati |
| 94. | Simran Attar | 2HN20EE016 | II | 8147059773 | Kagwad | Simran |
| 95. | Saraswati Bolabala | 2HN20EC032 | II | 9591492134 | Gohak | Saraswati |
| 96. | Nikita Hattaski | 2HN19EC013 | II | 7558606474 | Daddi | Nikita |
| 97. | Sneha Sadalagi | 2HN20EC038 | II | 6360136267 | Hubhal | Sneha |
| 98. | Shravan Bastawadi | 2HN20EC033 | II | 6361231755 | Kochari | Shravan |
| 99. | Kallappa Chikodi | 2HN19EC007 | IV | 7619154326 | Donwad | Kallappa |
| 100. | Maruti Magadam | 2HN19EC011 | IV | 9986095368 | Madammakund | Maruti |
| 101. | Ganesh Managuli | 2HN19EC006 | IV | 8073373098 | Nagarmunali | Ganesh |
| 102. | Rohit Mali | 2HN19CS030 | IV | 7406462547 | mangoli | Rohit |
| 103. | Gouri Mathapati | 2HN20EC010 | II | 7483554619 | Ammawagi | Gouri |
| 104. | Sushank Hawaldar | 2HN18EE023 | | 7483124693 | | Sushank |
| 105. | Akhilesh Patil | 2HN18EE001 | | 9449127367 | | Akhilesh |
| 106. | Ashwat Karadigudd | 2HN18EE003 | | 7760406281 | | Ashwat |
| 107. | Sanjay Mannikeri | 2HN18EE019 | | 7204688187 | | Sanjay |
| 108. | Sourabh Sannakki | 2HN19EE403 | IV | 7349377508 | | Sourabh |
| 109. | Shashikant Ningangoudar | 2HN18EE021 | | 9606509925 | | Shashikant |
| 110. | Naeenkumar Gokanvi | 2HN19EE401 | IV | 8095424048 | | Naeenkumar |
| 111. | Rajat Naganur | 2HN18EE015 | | 6361907448 | | Rajat |
| 112. | Nikhil Nandigon | 2HN18ME020 | II | 6361913612 | Samakhardi | Nikhil |
| 113. | Akash B V | 2HN18ME006 | | | | Akash |
| 114. | Ganesh Managanvi | | | | | Ganesh |
| 115. | Rohit Mali | | | | | Rohit |
| 116. | Archana Mgulli | 2HN19ME003 | IV | | | Archana |
| 117. | Ayesha Sayyad | 2HN18ME001 | | | | Ayesha |
| 118. | Shweta Manyare | 2HN20EC036 | II | 8880875484 | Shamnewadi | Shweta |



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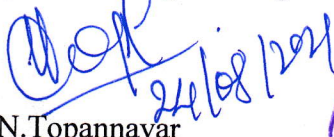
Village & Household
Survey

AY:2020-21


| | | | | | | |
|-----|----------------|------------|----|------------|-------------|---------------------|
| 119 | Shrutika Dhang | 2HN20EC035 | II | 8277303726 | Ugar. Kh | MAH |
| 120 | Tejashri Patil | 2HN20EC042 | II | 7975123008 | Bhivashi | Patil |
| 121 | Madhuja Khot | 2HN20EC014 | II | 8792682039 | Borgaonwadi | MAH |
| 122 | Sneha Belagali | 2HN20EC037 | II | 7892380575 | Yadara | Belagali |
| 123 | Sanika Munnoli | 2HN20EC030 | II | 9880594561 | Shindawad | Patil |
| 124 | Sneha Munnoli | 2HN20EC039 | II | 9591353167 | Kesti | Sneha |
| 125 | Shruti Magadum | 2HN20EC034 | II | 7338240933 | Kesti | Shruti |

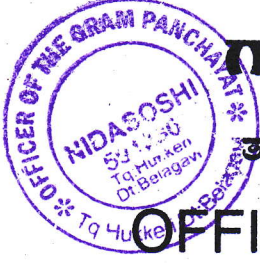
126 Nikhil Ushettanavar 2HN18ME021 VII 7996168131 Chikodi ~~MAH~~

The above staff And student volunteers are requested to conduct & complete House-hold & Village Surveys 1st and 2nd week of September 2021 in the all 5 adopted villages in the UBA-prescribed format. All are also requested to submit the Analysis, Summary, Attendance and Special observations/recommendations for holistic development of respective village in consultation with key persons of the respective village in the prescribed format.


Dr.S.N.Topannavar
UBA-Coordinator of PI




Dr.S.C.Kamate
PRINCIPAL
Hirasugar Institute of Technology
Nidasoshi- 591 236



ಗ್ರಾಮ ಪಂಚಾಯತ, ಕಾರ್ಯಾಲಯ,

ತಾಲೂಕಾ : ಹುಕ್ಕೇರಿ, ನಿಡಸೋಸಿ. ಜಿಲ್ಲೆ : ಬೆಳಗಾವಿ

OFFICE OF GRAM PANCHAYAT NIDASOSHI
Tal.Hukkeri Dist:Belagavi.-591236 (Karnataka)

Ref. No. G.P.N:NI.25:2021-22

Date:16/02/2022

Appreciation Certificate

With reference to the UBA Meeting No.:HSIT/NDS/UBA-meeting-03/2021-22, Dated : 4th Feb. 2022, We are very much thankful to participating institute (PI) Hirasugar Institute of Technology, Nidasoshi for adopting our village Nidasoshi under Prime Minister Flagship program Unnat Bharat Abhyan. This is to certify that institute has been conducted collaborative village and household surveys of our village on 3rd-9th, September 2021 successfully.

We express our gratitude to the institute for considering our recommendations and findings of survey reports in the technology proposals of Subject Expert Groups (SEGs). We are happy to continue the same cooperation and coordination in future for the technology intervention of the institute for holistic development of our village.


PANCHAYAT DEVELOPMENT OFFICER
Gram Panchayat, NIDASOSHI
Tal. Hukkeri Dist. Belagavi



ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಜಿಲ್ಲಾ ಪಂಚಾಯತ ಬೆಳಗಾವಿ

ಗ್ರಾಮ ಪಂಚಾಯತ ಕಾರ್ಯಾಲಯ ಕೆಸ್ತಿ

ತಾ: ಹುಕ್ಕೇರಿ

591236

ಜಿ: ಬೆಳಗಾವಿ

Office Of Gram Panchayat Kesti

Tq-Hukkeri

591236

Di-Belgaum

Ref. No: RPK/2021.22

Date: 18/02/2022

Appreciation Certificate

With reference to the UBA Meeting No.:HSIT/NDS/UBA-meeting-03/2021-22, Dated : 4th Feb. 2022, We are very much thankful to participating institute (PI) Hirasugar Institute of Technology, Nidasoshi for adopting our village Kesti under Prime Minister Flagship program Unnat Bharat Abhyan. This is to certify that institute has been conducted collaborative village and household surveys of our village on 3rd-9th, September 2021 successfully.

We express our gratitude to the institute for considering our recommendations and findings of survey reports in the technology proposals of Subject Expert Groups (SEGs). We are happy to continue the same cooperation and coordination in future for the technology intervention of the institute for holistic development of our village.


PANCHAYAT DEVELOPMENT OFFICER
Gram Panchayat, KESTI
Tal Hukkeri, Dist:Belgaum

ಗ್ರಾಮ ಪಂಚಾಯತ ಕಾರ್ಯಾಲಯ ಹತ್ತರವಾಟ

ತಾ: ಚಿಕ್ಕೋಡಿ,

ಗ್ರಾ.ಸಂ.ಹ/ವಿವ/9/2021-22



ಜಿ: ಬೆಳಗಾವಿ.

ದಿನಾಂಕ:- 19 FEB 2022

Appreciation Certificate

With reference to the UBA Meeting No.:HSIT/NDS/UBA-meeting-03/2021-22, Dated : 4th Feb. 2022, We are very much thankful to participating institute (PI) Hirasugar Institute of Technology, Nidasoshi for adopting our village Nidasoshi/ Ammanagi/ Borgal/Kesti/Hattarwat under Prime Minister Flagship program Unnat Bharat Abhyan. This is to certify that institute has been conducted collaborative village and household surveys of our village on 3rd-9th, September 2021 successfully.

We express our gratitude to the institute for considering our recommendations and findings of survey reports in the technology proposals of Subject Expert Groups (SEGs). We are happy to continue the same cooperation and coordination in future for the technology intervention of the institute for holistic development of our village.

ಗ್ರಾಮ ಪಂಚಾಯತ ಅಭಿವೃದ್ಧಿ ಅಧಿಕಾರಿಗಳು
ಗ್ರಾಮ ಪಂಚಾಯತ, ಹತ್ತರವಾಟ.



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**Unnat Bharat Abhiyan-
 UBA**

Participation

AY:2020-21

Unnat Bharat Abhiyan

Volunteers' Participation in Village and Household Survey Conducted during 3rd – 9th September 2021

Adopted Village: Nidasoshi



Village and Household Survey of NIDASOSHI



Village and Household Survey of NIDASOSHI



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Unnat Bharat Abhiyan-
UBA

Participation

AY:2020-21



Village and Household Survey of NIDASOSHI



Village and Household Survey of NIDASOSHI



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Unnat Bharat Abhiyan-
UBA

Participation

AY:2020-21

Adopted Village: Ammanagi



Village and Household Survey
of AMMANAGI



Village and Household Survey
of AMMANAGI



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Unnat Bharat Abhiyan-
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Participation

AY:2020-21

Adopted Village: Kesti





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UBA

Participation

AY:2020-21

Adopted Village: Borgal





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Programmes Accredited by NBA: CSE, ECE, EEE & ME

Unnat Bharat Abhiyan-
UBA

Participation

AY:2020-21

Adopted Village: Hattarwat



Village and Household Survey
of HATTARWAT



Village and Household Survey
of HATTARWAT

| | |
|---------------------------------------|---|
| Applied for : | Technology Development |
| Name of the College/ Institution : | Hirasugar Institute of Technology, Nidasohsi |
| UBA Coordinator Name : | Dr.S.N.Topannavar |
| UBA Coordinator mail id : | sntopannavar.mech@hsit.ac.in |
| UBA Coordinator Contact No : | 9482440235 |
| State : | Taluka: Hukkeri Dist: Belagavi Karnataka PIN:591236 |

PROJECT TITLE: ADVANCED COMMUNITY SOLAR DRYER FOR AGRO PRODUCTS

Objectives:

- To eliminate the unwanted and unpredictable food spoilage of the agri products.
- To study the characteristics and performance of the solar dryer system with continuous feeding & outlet mechanism.
- To develop a solar dryer system for quality ensured products.
- To Design & Develop low cost & Product based Automated (Ardunio Controlled) Solar Cabinet Dryer for the welfare of Farmers & Food Processing Industries.
- To achieve favourable temperature for various agro-products with different wetness with the help of effective Solar Tracking system.

Justification for the project:

i) Problem Statement:

To study and develop a solar dryer in which the grains are dried continuously by circulating heated air from the solar air heater with the help of manual solar tracking system. The problem of low, medium & large scale processor could be alleviated, if the solar dryer is designed and constructed with the consideration of overcoming the limitation of direct & indirect type of solar dryer. So therefore, this work will be based on importance of a solar dryer which is reliable and economically viable, adoptive design. The controlled drying of the various agro products with the help of the Ardunio controlled parameters. The project will help the farmers to enhance their economy and drying problems of various agro products.

ii) Priority Needs:

1. The prime priority to the farmer for drying of grains, as they will receive benefit of this.
2. The Second Priority To Food Processing Industries To Increases The Food Quality.

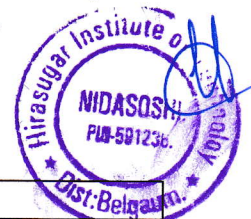
iii) Proposed approach/Technical Intervention/customization:

- Visited to farm and had conversation with farmers about what problems they are facing.
- And we pointed to main problem which they were facing that was drying of grains.
- We can to know about how farmers dry they grains. They use to dry the grains on road side.
- And then we listed the problems which they were facing Problems like: unpredictable food spoilage, more time consumption & unwanted thing mixing with grains.

iv) Brief plan of activities and implementation timeline:

Project starts from March, 2022 : .

| Month | Weeks | Tasks Completed |
|-----------|---------|--|
| March | 2 weeks | To figure out the problem of drying of grains |
| March | 2 weeks | Materials Selection & modelling |
| April | 3weeks | Design Thinking |
| April-May | 4 weeks | Fabrication Work |
| May-June | 5 weeks | Experimentation with Raw materials & Agro-Products |



| | | |
|-----------|---------|--------------------------------|
| June-July | 4 weeks | Analysis, Results & Discussion |
| August | 2 weeks | Conclusion |

Methodology, Materials and Financial Resources:

Methodology:

The stepwise methodology to complete our Project is as below.

- Step 01: Literature Survey
- Step 02: Defining problem statement of the Project (Title)
- Step 03: With the help scope defining objective
- Step 04: Materials selection and Modelling
- Step 05: Design Thinking
- Step 06: Fabrication work
- Step 07: Experimentation with raw material & Agro-Products
- Step 08: Result & Discussion
- Step 09: Analysis & Recommendation
- Step 10: Conclusion

Materials:

Fiber Glass Body, Solar Panel, Blower, Absorber Plate, Orifice meter, Glass Cover, Arduino UNO, Temperature Sensor(DHT11), Trays, Metal Beams For Body Fabrication & Fibre glass For Solar Air Heater.

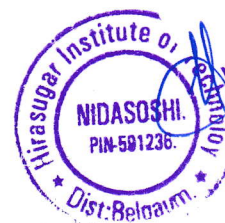
Financial Resources:

| Budget | Amount in Rs. |
|---|---------------|
| a) Materials, Design and Development of Fiber glass body, Solar Panel, Blower, Absorber Plate, Orifice meter, Glass cover, Arduino UNO, Temperature Sensor(DHT11), Trays, Metal Beams For Body Fabrication, Fiber glass For Solar Air Heater. | 70000.00 |
| b) Fabrication Labor Charge | 8000.00 |
| c) Travelling Expenses & Running cost | 20000.00 |
| d) Site preparation cost | 10000.00 |
| e) Miscellaneous | 10000.00 |
| Total cost of the Technology in Rs. | 118000.00 |

Outcome of the Project:

The expected outcomes of our project are as below:

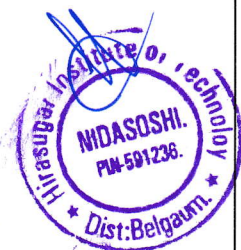
- Arduinio Controlled agro-product based drying.
- Affordable Cost agro-product Solar based Dryer.
- Increased farmer income by quality product.
- Automated & Product based controlled Drying.
- Quality ensured Products Portable & Movable Farmer Friendly Dryer.



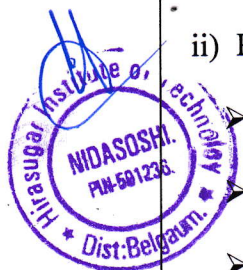
Proposal in Online Format

| | |
|---------------------------------------|---|
| Applied for : | Technology Development |
| Name of the College/ Institution : | Hirasugar Institute of Technology, Nidasohsi |
| UBA Coordinator Name : | Dr.S.N.Topannavar |
| UBA Coordinator mail id : | sntopannavar.mech@hsit.ac.in |
| UBA Coordinator Contact No. : | 9482440235 |
| State : | Taluka: Hukkeri Dist: Belagavi Karnataka PIN:591236 |
| SEG Name: | Expert Group (SEG) of IIT Delhi, Rural Energy Systems |

| | | |
|--|---|-----------|
| RCI: | IIT Bombay | |
| AISHE Code of the College: | C-1409 | |
| Adopted Villages are: | Nidasoshi, Ammanagi, Kesti, Borgal & Hattarwat | |
| Title: | ADVANCED COMMUNITY SOLAR DRYER FOR AGRO PRODUCTS | |
| Village where it is to be implemented: | Nidasoshi | |
| Why this technology is required (Objective of the project maximum 200 word): | <ul style="list-style-type: none"> ➤ To eliminate the unwanted and unpredictable food spoilage of the agro products. ➤ To study the characteristics and performance of the solar dryer system with continuous feeding & outlet mechanism. ➤ To develop a solar dryer system for quality ensured products. ➤ To Design & Develop low cost & Product based Automated (Arduinio_Controlled) Solar Cabinet Dryer for the welfare of Farmers & Food Processing Industries. ➤ To achieve favorable temperature for various agro-products with different wetness with the help of effective Solar Tracking system. | |
| Total Cost of the Product/Technology: | Budget | Amount |
| | a) Materials, Design and Development of Fiber glass body, Solar Panel, Blower, Absorber Plate, Orifice meter, Glass cover, Arduino UNO, Temperature Sensor(DHT11), Trays, Metal Beams For Body Fabrication, Fibre glass For Solar Air Heater. | 70000.00 |
| | b) Fabrication Labor Charge | 8000.00 |
| | c) Travelling Expenses & Running cost | 20000.00 |
| | d) Site preparation cost | 10000.00 |
| | e) Miscellaneous | 10000.00 |
| | Total Cost of the Technology | 118000.00 |
| Fund raised from: | NA | |
| Describe your role as PI at various stage of the project (max 500 words): | <p>The role of PI is to identify the needs of the village people by carrying out the survey in adopted villages. Based on the need analysis of village people, technically feasible and economically viable system design is proposed for technological development and implementation through procurement of materials and accessories. After designing, testing of the proposed system is done.</p> <p>For smooth and safe operation of the system, necessary awareness with all information related to the project is provided to the beneficiary.</p> <ol style="list-style-type: none"> 1. Design and Development Stage: Suitable Human resource mobilization and laboratory supports 2. Implementation Stage: Coordination between Gram Panchayat & SEG Members 3. Outcome Analysis Stage: Suitable human resource | |

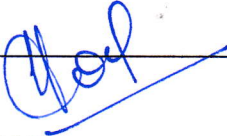


| | mobilization |
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| Process of execution of the project: | The stepwise methodology to complete our Project is as below. Step 01: Literature Survey Step 02: Defining problem statement of the Project(Title) Step 03: With the help scope defining objective Step 04: Materials selection and Modelling Step 05: Design Thinking Step 06: Fabrication work Step 07: Experimentation with raw material & Agro-Products Step 08: Result & Discussion Step 09: Analysis & Recommendation Step 10: Conclusion |
| Who are the beneficiaries (ST, SC, OBC, Tribal etc.) and potential impact of technology on the beneficiary and village : | Farmers having less farming land. The socio economic development of village farmers. |
| Duration of Project: | 06 Months |
| Role of stake holders in maintaining sustainability after the project duration (please mention point wise role of participating stake holders): | <ol style="list-style-type: none"> 1) Solar system related maintenance work 2) Acquiring skills to operate automated system 3) Suggesting to institute level SEGs for further improvement in design and development 4) Addressing the grievances of the farmers and resolving 5) Scaling of the project |
| Execution of the project along with role of all participating stakeholders (write point wise max 500 words) : | <p>i) Problem Statement:</p> <p>To study and develop a solar dryer in which the grains are dried continuously by circulating heated air from the solar air heater with the help of manual solar tracking system. The problem of low, medium & large scale processor could be alleviated, if the solar dryer is designed and constructed with the consideration of overcoming the limitation of direct & indirect type of solar dryer. So therefore, this work will be based on importance of a solar dryer which is reliable and economically viable, adoptive design. The controlled drying of the various agro products with the help of the Arduinio controlled parameters. The project will help the farmers to enhance their economy and drying problems of various agro products.</p> <p>ii) Priority Needs:</p> <ol style="list-style-type: none"> 1. The prime priority to the farmer for drying of grains, as they will receive benefit of this. 2. The Second Priority To Food Processing Industries To Increases The Food Quality. <p>ii) Proposed approach/Technical Intervention/customization:</p> <ul style="list-style-type: none"> ➤ Visited to farm and had conversation with farmers about what problems they are facing. ➤ And we pointed to main problem which they were facing that was drying of grains. ➤ We can to know about how farmers dry they grains. They |



| | |
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| | <p>use to dry the grains on road side.</p> <p>➤ And then we listed the problems which they were facing Problems like: unpredictable food spoilage, more time consumption & unwanted thing mixing with grains.</p> |
| Impact of this work on learning of students/ teachers: | Resolving the farmers' problems related to their agro products. Using of advanced technology to enhance the value of the agro products. Technology intervention in the agriculture. |
| Role of PI after completion of the project duration. | <ol style="list-style-type: none"> 1) Scaling of the project to reach all need people of the adopted villages 2) Preparing DPR to the district level 3) Automation for feeding and outlet mechanism to increase productivity 4) Steps to increase the performance and efficiency of the project 5) Design and development towards increasing the quality of the agro products for exporting. 6) Steps towards to add relevant values to the agro products. |
| Enter Name and Contact details of students involved in this project: | <p>1. AMIT.P.THORAT E-mail: amitandthorat19@gmail.com Mobile No.:7337722814</p> <p>2.SHWETA.M. KUMBAR Email id:shwetakumbar1999@gmail.com Mobile No.: 8296654234</p> <p>3. AJINKAYKUMAR.S.BHOSALE Email id: bhosaleajinkya41@gmail.com Mobile No.: 6360103570</p> <p>4. SHRIDHAR.B.MUDIGOUD Emailid:shridharmudigoud1198@gmail.com Mobile No.: 8105443562</p> |
| Enter Name and Contact details of peoples those will be involved in this project (From UBA connected / adopted village): | <ol style="list-style-type: none"> 1. Dr.M.M.Shivasimpi (Mobile no.:9742197173) 2. Prof,M,I,Tanodi (Mobile no.:9611998812) 3. Dr.K.M.Akkoli (Mobile no.:9739114856) 4. Prof.D.N.Inamdar (Mobile no.:9591208980) |

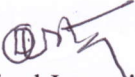

Dr. S.N.Topannavar
Principal Investigator


Dr.S.N.Topannavar
UBA Program Coordinator




| | |
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| Applied for : | Technology Development |
| Name of the College/ Institution : | Hirasugar Institute of Technology, Nidasohsi |
| UBA Coordinator Name : | Dr.S.N.Topannavar |
| UBA Coordinator mail id : | sntopannavar.mech@hsit.ac.in |
| UBA Coordinator Contact No : | 9482440235 |
| State : | Karnataka, Dist: Belagavi Block: Hukkeri |
| SEG Name: | Expert Group (SEG) of IIT Kharagpur & GSIT Indore |
| RCI: | IIT Bombay |
| AISHE Code of the College: | C-1409 |
| Adopted Villages are: | Nidasoshi, Ammanagi, Kesti, Borgal & Hattarwat |
| Title: | LAKE CLEANING MACHINE |
| Village where it is to be implemented: | Ammanagi |
| Why this technology is required (Objective of the project maximum 200 word): | In India water pollution is increasing day by day so this is becoming serious problem for rivers, ponds, lakes etc. These lakes or rivers etc mainly consist of impurities like waste water debris, plastics, garbage on floating water surface. Many species consume plastic debris as food by mistakenly while feeding or swimming. Once ingested, this debris can damage their digestive tract and interfere with an animal's ability to feed, leading to starvation or other negative health effects. Polluted water also causes many skin diseases to human kind. So that to reduce the water pollution we are trying to make lake cleaning machine. "Lake Cleaning Machine" a device which involves the collecting the waste debris from water surface through remote controller. |
| Total Cost of the Product/Technology: | Rs.1,00,000/- |
| Fund raised from: | Not Applicable |
| Describe your role as PI at various stage of the project (max 500 words): | The role of PI is to identify the needs of the village people by carrying out the survey in adopted villages. Based on the need analysis of village people, technically feasible and economically viable system design is proposed for technological development and implementation through procurement of materials and accessories. After designing, testing of the proposed system is done. For smooth and safe operation of the system, necessary awareness with all information related to the project is provided to the beneficiary. |
| Process of execution of the project: | A survey regarding the needs of the beneficiary villages is carried out with the help of the students. Collected survey information is analysed and a proposal is prepared based on the needs. A detailed schedule of implementation is prepared. The detailed proposal with all necessary information is submitted for approval. |

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| | <p>If the submitted proposal is approved and sanctioned, then all the materials will be procured through a proper process of quotation, comparison and placing order.</p> <p>After receiving all the required materials necessary structure is built, all the required components are assembled and then tested for its proper operation.</p> <p>The beneficiaries will be given awareness about its operation and maintenance.</p> <p>Necessary technical support will be provided as per the need.</p> |
| Who are the beneficiaries (ST, SC, OBC, Tribal etc.) and potential impact of technology on the beneficiary and village : | Society |
| Duration of Project: | 6 Months |
| Role of stake holders in maintaining sustainability after the project duration (please mention point wise role of participating stake holders): | <p>1) Routine maintenance of the system</p> <p>2) Safety checks on regular basis.</p> |
| Execution of the project along with role of all participating stakeholders (write point wise max 500 words) : | Survey, Need analysis, Material listing, Purchasing, Designing and Testing |
| Impact of this work on learning of students/ teachers: | Students/ teachers will be able to plan, schedule and implement the project in a team. |
| Role of PI after completion of the project duration. | <p>The role of PI is to identify the needs of the village people by carrying out survey in adopted villages. Based on the need analysis of village people, technically feasible and economically viable system design is proposed for technological development and implementation through procurement of materials and accessories. After successful installation, testing of the proposed system is done.</p> <p>For smooth and safe operation of the system, necessary awareness with all information related to the project is provided to the beneficiary.</p> |
| Enter Name and Contact details of students involved in this project: | <p>Mr.Kunal Mane, Mob: 9108753392,</p> <p>Mr.Vaibhav Mugale, Mob:7406041431</p> <p>Akhilesh Patil, Mob: 9449127367,</p> <p>Ashwat Karadigud, Mob: 7760406281,</p> <p>Akash Tukare, Mob: 8867737591</p> |
| Enter Name and Contact details of peoples those will be involved in this project (From UBA connected / adopted village): | <p>Prof. K. B. Negalur, Mobile:7619165884</p> <p>Prof. S. S Birade, Mobile: 9945105480</p> <p>Prof. S. G. Huddar, Mobile: 9742066852</p> <p>Mr. R. S. Bardol Mob: 8277010328,</p> <p>Mr. V. M. Mutalik, Mobile:7338327184</p> <p>Mr. S. B. Beelur, Mobile: 8105974422</p> |


Principal Investigator
Prof. K. B. Negalur


HOD
Dr. B. V. Madiggond
BE,ME,Ph.D
Prof. & Head
Dept. of Electrical & Electronics Engg.
NIT NIDASOSHI-501 236


UBA Coordinator
Dr.S.N. Topannavar

UNNATA BHARAT ABHIYAN

Project Proposal

2021-2022

| | |
|-------------------------------|---|
| Applied For: | TECHNOLOGY CUSTOMIZATION |
| Name of college/institute: | Hirasugar Institute Of Technology, Nidasoshi |
| UBA co-ordinator name: | Dr. S. N. Topannavar |
| UBA co-ordinator email: | sntopannavar.mech@hsit.ac.in |
| UBA co-ordinator contact no.: | 9482440235 |
| State: | Karnataka |
| District: | Belagavi |
| Block: | Nidasoshi- 591236 |
| SEG Name: | Rural Energy Systems(IIT-Delhi) |
| Select RCI: | IIT-Bombay |
| AISHE code of college: | C-1409 |
| Title Of the Technology: | "SAURA CHULA, Solar Powered GSM Based Multipurpose Wireless Smart cooking/Water Heating Device" |



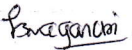

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| Village where it is to be adopted: | Nidasoshi, Ammanagi, Kesti, Borgal & Hattarwat | | | | |
| Why this technology required(Objective of the project): | Alternate source of energy is always a green approach of energy consumption, in the time of crises of energy and global warming. Use of solar energy for cooking as well as water heating is better solution, but still not established as user friendliness and economic aspect. Food is the basic need of human being. Food can be cooked with conventional fuels like wood, cow- dung, kerosene, Liquid Petroleum Gas (LPG) and electricity. Solar cooker is clean and eco-friendly energy device for cooking. | | | | |
| Total cost of the product/technology: | Materials / Consumables | Labor | Travel | Miscellaneous | |
| | 35,000 | 8000 | 3000 | 4000 | |
| Funds raised from: | NA | | | | |
| Details of the funds raised from any other agencies apart from above mentioned: | NA | | | | |
| Describe your role as PI at various stages of project: | Take the survey at villages. Implementation and development of project according to the requirements. Take the feedback from the peoples. | | | | |

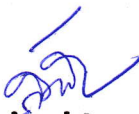
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| Process of execution of the project: | Continuous monitoring of project at Household. Providing support after installation. |
| Who are the beneficiaries(ST,S C, OBC)and potential impact of the technology on the beneficiary & village: | <p>01. Now a days the LPG cylinder rate is becoming too high, so that we want to reduce a minimum usage of LPG cylinder.</p> <p>02. Implementation of this project will reduces air pollution.</p> <p>03. Solar water heating systems are very high in cost, so that poor people's can't be use.</p> <p>04. Voluntary migration can also improve food security both for migrants and the families left behind, particularly in rural areas.</p> |
| Duration of the project: | 8 Months |
| Role of stakeholders in maintaining sustainability after the project duration: | Department /Institute will provide support and monitor adopted villages on regular basis and solve the problems related to this project. |
| Execution of the project along with role of all participating stakeholders: | Department/Institute is providing necessary laboratory support. |


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| Impact of this work on learning of students /teachers: | It will enhance the technical skill, which include Adriano concept. It is also enhance the soft skill. |
| Role of PI after completion of the project duration: | Continuous monitoring of project. |
| Enter name & contact details involved in this project: | <p>1. Name: TEJU NINGANURE USN No.: 2HN18EC032 Email id: tejuninganure73529@gmail.com Mobile No: 7406397758</p> <p>2. Name: SNEHAL KAGI USN No.: 2HN19EC400 Email id: snehalkagi8@gmail.com Mobile No.: 7019424868</p> <p>3. Name: SUDHA NAGANURI USN No.: 2HN19EC401 Email id:naganurisudha@gmail.com Mobile No.: 8884945697</p> <p>4. Name: TANUJA KHARSHINGE USN No.: 2HN19EC402 Email id: tanuja.kharshinge9@gmail.com Mobile No.: 7090101643</p> |

| | | |
|--|---|--|
| Enter Name & contact details of peoples those will be involved in this project (From UBA connected / adopted): | Prof. Sachin. S. Patil Mobile: 9480422508 Sachinpatil.ece@gmail.com | Prof. D. B. Madihalli Mobile: 9902854324 dbmadhihalli@hsit.ac.in |
|--|---|--|

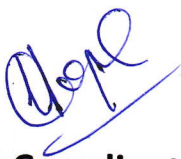
Name and sign of Team Members:


| Name | Sign |
|-------------------|---|
| Teju Ninganure |  |
| Snehal Kagi |  |
| Sudha Naganuri |  |
| Tanuja Kharshinge |  |


Principal Investigator
Prof. Sachin S. Patil


HOD
Dr. S. B. Akkole

HOD
Electronics & Commn. Engg. Dept.
HSIT NIDASOSHI


UBA Coordinator
Dr. S. N. Topannavar


Prof. D. B. Madihalli

| | |
|--|--|
| Applied for : | Technology Customisation |
| Name of the College/ Institution : | Hirasugar Institute of Technology, Nidasohsi |
| UBA Coordinator Name : | Dr.S.N.Topannavar |
| UBA Coordinator mail id : | sntopannavar.mech@hsit.ac.in |
| UBA Coordinator Contact No : | 9482440235 |
| State : | Karnataka, Dist: Belagavi Block: Hukkeri |
| SEG Name: | Expert Group (SEG) of IIT Delhi, Rural Energy Systems |
| RCI: | IIT Bombay |
| AISHE Code of the College: | C-1409 |
| Adopted Villages are: | Nidasoshi, Ammanagi, Kesti, Borgal & Hattarwat |
| Title: | Solar Multipurpose Portable Emergency Lamp |
| Village where it is to be implemented: | Nidasoshi, Ammanagi, Kesti, Borgal & Hattarwat 2 units at every adopted village |
| Why this technology is required (Objective of the project maximum 200 word): | <p>Need for light during power cut is essential for leading life of any one. The life of the farmer is always engaged with cleaning of land, growing of crops, spraying of pesticide to protect the crop and harvesting. Recently, there are many developments in the pesticide sprayer which is automated and helping the farmer in spraying of pesticides. This sprayer works on electricity i.e. energy is stored in battery.</p> <p>The battery of pesticide sprayer is required to be charged from the supply mains. However, power cut is quite common in rural areas. To address this problem of power cut renewable energy source is used to charge the battery.</p> |
| Total Cost of the Product/Technology: | Rs.50000.00/- |
| Fund raised from: | Not applicable |
| Describe your role as PI at various stage of the project (max 500 words): | <p>The role of PI is to identify the needs of the beneficiary. Then site survey is carried out in adopted villages for the implementation of the project. Based on the need analysis of beneficiary, technically feasible and economically viable system design is proposed for technological development and implementation through procuring of materials and accessories. After successful installation, testing of the proposed system is done.</p> <p>For smooth and safe operation of the system, necessary awareness with all information related to the project is provided to the beneficiary.</p> |
| Process of execution of the project: | <p>A survey regarding the needs of the beneficiary villages is carried out with the help of the students. Collected survey information is analysed and a proposal is prepared based on the needs.</p> <p>A detailed schedule of implementation is prepared. The detailed proposal with all necessary information is submitted for approval.</p> <p>If the submitted proposal is approved and sanctioned,</p> |

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|---|---|
| | <p>then all the materials will be procured through a proper process of quotation, comparison and placing order.</p> <p>After receiving all the required materials necessary structure is built, all the required components are assembled and then tested for its proper operation.</p> <p>The beneficiaries will be given awareness about its operation and maintenance.</p> <p>Necessary technical support will be provided as per the need.</p> |
| Who are the beneficiaries (ST, SC, OBC, Tribal etc.) and potential impact of technology on the beneficiary and village : | OBC |
| Duration of Project: | 8 Weeks |
| Role of stake holders in maintaining sustainability after the project duration (please mention point wise role of participating stake holders): | <p>1) Routine maintenance of the installed system</p> <p>2) Cleaning of the solar panels</p> <p>3) Safety checks on regular basis.</p> |
| Execution of the project along with role of all participating stakeholders (write point wise max 500 words) : | Survey, need analysis, material listing, purchasing, installing, and testing |
| Impact of this work on learning of students/ teachers: | Students/ teachers will be able to plan, schedule and implement the project in a team. |
| Role of PI after completion of the project duration. | <p>The role of PI is to identify the needs of the beneficiaries and by carrying out survey in adopted villages. Based on the need analysis of beneficiaries, technically feasible and economically viable system design is proposed for technological development and implementation through procurement of materials and accessories. After successful installation, testing of the proposed system is done.</p> <p>For smooth and safe operation of the system, necessary awareness with all information related to the project is provided to the beneficiaries.</p> |
| Enter Name and Contact details of students involved in this project: | <p>Mr.Kunal Mane Mob: 9108753392,</p> <p>Nagadarshan Kopparad Mob: 7259290709,</p> <p>Akhilesh Patil Mob: 9449127367,</p> <p>Ashwat Karadigud Mob: 7760406281,</p> <p>Naveenkumar Gokanvi Mob:8095424048</p> |
| Enter Name and Contact details of peoples those will be involved in this project (From UBA connected / adopted village): | <p>Dr.B.V.Madiggond Mob: 9343454993, Prof.S.D.Hirekodi Mob: 9480849338, Prof.M.P.Yenagimath Mob:9341449466,</p> <p>Mr.R.S.Bardol Mob: 8277010328,</p> <p>Mr.S.B.Beelur Mob: 8105974422,</p> <p>Mr.B.S.Sooji Mob:9480849343,</p> <p>Mr.A.A.Patil Mob:9449498248,</p> <p>Mr.S.N.Biranagaddi Mob:7219803176</p> |



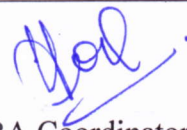
Principal Investigator
Dr. B.V.Madiggond



HOD

Dr. B. V. Madiggond

Prof. & Head BE,ME,Ph.D.
Dept. of Electrical & Electronics Engg.
HIT NIBASOSHI-501 236



UBA Coordinator
Dr.S.N. Topannavar

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|--|--|
| Applied for : | Technology Development |
| Name of the College/ Institution : | Hirasugar Institute of Technology, Nidasohsi |
| UBA Coordinator Name : | Dr.S.N.Topannavar |
| UBA Coordinator mail id : | sntopannavar.mech@hsit.ac.in |
| UBA Coordinator Contact No : | 9482440235 |
| State : | Karnataka, Dist: Belagavi Block: Hukkeri |
| SEG Name: | Expert Group (SEG) of IIT Delhi, Rural Energy Systems |
| RCI: | IIT Bombay |
| AISHE Code of the College: | C-1409 |
| Adopted Villages are: | Nidasoshi, Ammanagi, Kesti, Borgal & Hattarwat |
| Title: | Solar water pump for Irrigation |
| Village where it is to be implemented: | Nidasoshi |
| Why this technology is required (Objective of the project maximum 200 word): | Rural income largely depends on agriculture, especially farmers growing vegetables, flowers suffer due to power cuts. At present 3 phase power availability is only for few hours in rural areas usually, after midnight. This problem is addressed in our proposal, wherein the power supply is available during day time for irrigation purpose helping farmers to schedule their other activities such as sowing, spraying, harvesting etc. In the evening they are sorting and packing their crops. Early morning they are busy with marketing of vegetables/ flowers etc. Hence, it is feasible to irrigate during day by utilizing solar energy. |
| Total Cost of the Product/Technology: | Site Preparation: 5000/- Equipment/Machinery cost: 95,000/- Running cost/Manpower cost Electricity cost: -Nil- |
| Fund raised from: | Not Applicable |
| Describe your role as PI at various stage of the project (max 500 words): | The role of PI is to identify the needs of the farmer and by carrying out survey in adopted villages. Based on the need analysis of farmers, technically feasible and economically viable system design is proposed for technological development and implementation through procurement of materials and accessories. After successful installation, testing of the proposed system is done. For smooth and safe operation of the system, necessary awareness with all information related to the project is provided to the beneficiary. |
| Process of execution of the project: | A survey regarding the needs of the beneficiary villages is carried out with the help of the students. Collected survey information is analysed and a proposal is prepared based on the needs. A detailed schedule of implementation is prepared. The detailed proposal with all necessary information is submitted for approval. If the submitted proposal is approved and sanctioned, then all the materials will be procured through a proper process of quotation, comparison and placing order. After receiving all the required materials necessary structure is |

| | |
|---|---|
| | built, all the required components are assembled and then tested for its proper operation. The beneficiaries will be given awareness about its operation and maintenance. Necessary technical support will be provided as per the need. |
| Who are the beneficiaries (ST, SC, OBC, Tribal etc.) and potential impact of technology on the beneficiary and village : | OBC |
| Duration of Project: | 8 Weeks |
| Role of stake holders in maintaining sustainability after the project duration (please mention point wise role of participating stake holders): | 1) Routine maintenance of the installed system 2) Cleaning of the solar panels 3) Safety checks on regular basis. |
| Execution of the project along with role of all participating stakeholders (write point wise max 500 words) : | Survey, need analysis, material listing, purchasing, installing, and testing |
| Impact of this work on learning of students/ teachers: | Students/ teachers will be able to plan, schedule and implement the project in a team. |
| Role of PI after completion of the project duration. | The role of PI is to identify the needs of the farmer and by carrying out survey in adopted villages. Based on the need analysis of farmers, technically feasible and economically viable system design is proposed for technological development and implementation through procurement of materials and accessories. After successful installation, testing of the proposed system is done. For smooth and safe operation of the system, necessary awareness with all information related to the project is provided to the beneficiary. |
| Enter Name and Contact details of students involved in this project: | Mr.Kunal Mane Mob: 9108753392, Nagadarshan Koppard Mob: 7259290709, Akhilesh Patil Mob: 9449127367, Ashwat Karadigud Mob: 7760406281, Naveenkumar Gokanvi Mob:8095424048 |
| Enter Name and Contact details of peoples those will be involved in this project (From UBA connected / adopted village): | Dr.B.V.Madiggond Mob: 9343454993, Prof.S.D.Hirekodi Mob: 9480849338, Prof.M.P.Yenagimath Mob: 9341449466, Mr.R.S.Bardol Mob: 8277010328, Mr.S.B.Beelur Mob: 8105974422, Mr.B.S.Sooji Mob:9480849343, Mr.A.A.Patil Mob:9449498248, Mr.S.N.Biranagaddi Mob:7219803176 |



Principal Investigator
Dr. B.V.Madiggond




HOD

Dr. B. V. Madiggond

BE, ME, PE
Prof. & Head
Dept. of Electrical & Electronics Engg
HIT NIBASOSHI-591 208



UBA Coordinator
Dr.S.N. Topannavar

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|---|---|-----------------------------|
|  | S J P N Trust's Hirasugar Institute of Technology, Nidasoshi <i>Inculcating Values, Promoting Prosperity</i> Approved by AICTE, Recognized by Govt. of Karnataka and Permanently Affiliated to VTU Belagavi. Accredited at 'A' Grade by NAAC Programmes Accredited by NBA: CSE, ECE, EEE & ME. | CSE |
| | | Unnat Bharat Abhiyan |
| | | Project Proposal |
| | | 2021-22 |

Unnat Bharat Abhiyan Project Proposal

| | |
|--|--|
| Applied For: | Technology Development |
| Name of College/Institution: | Hirasugar Institute of Technology, Nidasoshi |
| Coordinator Name: | Dr. S. N. Topannavar |
| UBA Coordinator Email: | sntopannavar.mech@hsit.ac.in |
| UBA Coordinator Contact No: | 9482440235 |
| State: | Karnataka |
| District: | Belagavi |
| Select your SEG Name: | Ethos in Technical Education IIT Bombay |
| Select your RCI: | Select IIT Bombay |
| AISHE Code of the College: | C-1409 |
| Title of the technology: | Artificial Intelligence based Android application to automatically Detect Plant Leaf Disease |
| Village where it is to be implemented: | Nidasoshi, Ammanagi, Kesti, Borgal & Hattarwat |

Why this technology required (Objective of the project maximum 200 word):

The external appearance is the most important quality character of agriculture. This outer appearance greatly affects the sale value and consumer behavior in buying any product. Therefore, the inspection of quality and grading system is essential in agriculture field to cultivate good healthy plants. Agriculture industry can go through a major production and economic losses which is caused by the plant diseases. This disease management is a challenging task. Usually, the diseases or its symptoms such as colored spots or streaks can be seen on the leaves or on the stem of the plants. In plants, most of the leaf diseases are caused by fungi, bacteria, and viruses. The disease caused due to these organisms is characterized by different visual symptoms that could be observed in the leaves or stem of a plant. Usually, these symptoms are detected manually. Automatic detection of various diseases can be detected with the help of machine learning and


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|  | S J P N Trust's Hirasugar Institute of Technology, Nidasoshi <i>Inculcating Values, Promoting Prosperity</i> Approved by AICTE, Recognized by Govt. of Karnataka and Permanently Affiliated to VTU Belagavi. Accredited at 'A' Grade by NAAC Programmes Accredited by NBA: CSE, ECE, EEE & ME. | CSE |
| | | Unnat Bharat Abhiyan |
| | | Project Proposal |
| | | 2021-22 |

image processing. A crucial role is played by the machine learning and image processing in detection of plant disease since it provides best results and reduces the human efforts.

Total cost of the product/technology:

Site preparation cost: 15000/-

Equipment/ Machinery cost: 15000/-

Running cost, Manpower cost, Electricity cost, etc.: 10000/-

Miscellaneous expense: 10000/-

Details of the funds raised from any other agencies apart from above-mentioned:

Not Applicable

Describe your role as PI at various stage of the project (Max 500 words):

Following are the list of roles and responsibilities of PI:


1. Collection of data set by visiting the farmers of adopted village.
2. Labeling the data set by considering the view of farmers and expert persons.
3. Data preprocessing to remove the redundancy, missing values, and errors.
4. Building an AI model to automatically detect the plant leaf disease.
5. Validating the model from the farmers and expert persons.
6. Deploying the validated model on cloud platform.

Process of execution of the project

The methodology followed in the proposed project is,

Training and validating the model:

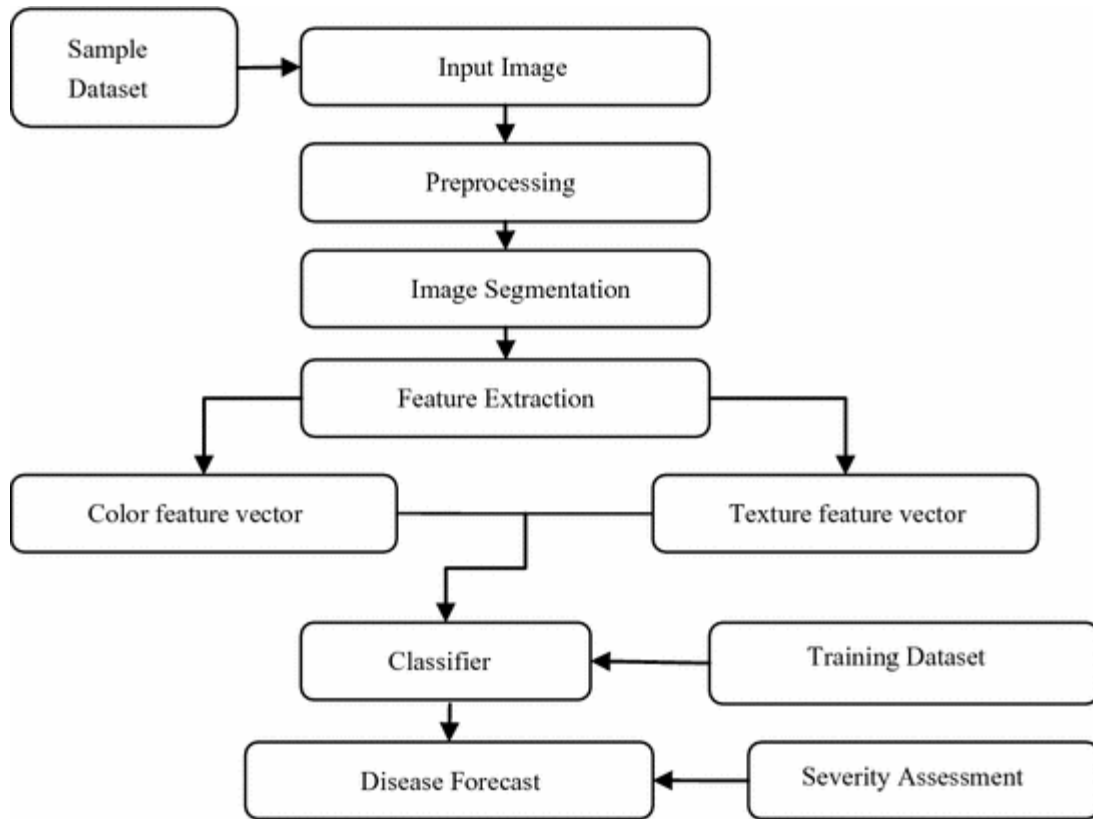
1. Collection of data set by visiting the farmers of adopted village.
2. Labeling the data set by considering the view of farmers and expert persons.
3. Data preprocessing to remove the redundancy, missing values, and errors.
4. Extract the features from the dataset.
5. Building an AI model to automatically detect the plant leaf disease.

| | | |
|---|---|----------------------------|
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| | | Project Poposal |
| | | 2021-22 |

6. Deploying the validated model on cloud platform.

Use of model in real world:


1. The new input image is given as an input to the validated model.
2. The model classifies the image based on the features of the new image.



Who are the beneficiaries (ST, SC, OBC, Tribal, etc.) and potential impact of the technology on the beneficiary & village

The farmers of the adopted village are the beneficiaries of the proposed project. The proposed AI based android project automatically detects the plant leaf disease which in turn reduces the human efforts and increases the productivity.

Role of stakeholders in maintaining sustainability after the project duration (please mention point wise role of participating stakeholders)

| | | |
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| | | 2021-22 |

Stakeholders can add new diseases as and when detected in the farm to improve the efficiency of the proposed project.

Execution of the project along with role of all participating stakeholders (write point wise maximum 500 words):

Initially with the help of stakeholders and expert persons data set will be collected. The dataset will be divided into different classes of disease. The data set will be used to build the model. Performance of the model is evaluated with help of stakeholders and expert persons. Finally, the evaluated model will be deployed into cloud environment.

Impact of this work on learning of students/teachers:

The students will learn

1. The process of data acquisition required for machine learning and artificial intelligence-based projects.
2. The process of data preprocessing
3. How to build AI based model and validating the model from different stake holders.
4. Deploying the model on cloud environment

Role of PI after completion of the project duration:

Collecting the new diseases detected in the farm from the stakeholders and updating the model to incorporate the new diseases. Also, tune the model to improve the overall accuracy of the system.


Enter Name and Contact details of students involved in this project:

Kashim Jakati – 9620295085

Aishwarya Gundoli – 7259550923

Mohammedakram Mujawar – 6364359803

Shruti Khot – 8722372755

| | | |
|---|---|-------------------------------|
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| | | UnnatBhart Abhiyan |
| | | Project Poposal |
| | | 2021-22 |


Shruti Khot – 8722372755

**Enter Name and Contact details of peoples those will be involved in this project (Form
UBA connected / adopted village):**

Dr. Mahesh Huddar

Prof. C. R. Belavi

Prof. N. M. Patel



Project Coordinator:

Dr. Mahesh Huddar

Associate Professor, Computer Science and Engineering

Hirasugar Institute of Technology, Nidasoshi

E-Mail: mghuddar.cse@hsit.ac.in


 Prof. S. V. Majaragi
HOD
Computer Science & Engg.
HIT, Nidasoshi.

UNNAT BHARAT ABHIYAN

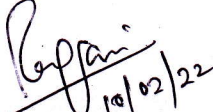
Project proposal

2021-2022

| | | | | |
|---|--|---------------------------|---|-----------------------|
| Applied For | TECHNOLOGY DEVELOPMENT | | | |
| Name Of the College/Institution | Hirasugar Institute of Technology, Nidasoshi | | | |
| Coordinator Name | Dr. S. N. Topannavar | | | |
| UBA Coordinator Email | sntopannavar.mech@hsit.ac.in | | | |
| UBA Coordinator Contact No | 9482440235 | | | |
| State | Karnataka | | | |
| District | Belagavi | | | |
| Block | | | | |
| Select your SEG Name | Rural Energy systems (IIT-Delhi) | | | |
| Select your RCI | IIT-Bombay | | | |
| AISHE Code of the College | C-1409 | | | |
| Title of the technology | Smart Motor for Agriculture | | | |
| Village where it is to be implemented | Nidasoshi, Ammanagi, Kesti, Borgal & Hattarwat | | | |
| Why this technology required (Objective of the project maximum 200 word) | <p>Objectives of the project is to:</p> <ol style="list-style-type: none"> 1. Develop a GSM based cost effective solution that will provide remote access of motor through mobile Application 2. Develop low-cost water pump dry run protection for which insufficient water conditions inside an underground tank can be sensed and thus preventing any possibility of motor dry running 3. Incorporate soil moisture sensor into the irrigation system aid in scheduling water supply and distribution much more efficiently. Such gauges help to enhance irrigation for optimum plant growth. 4. Design user friendly android application using open-source platform. 5. Incorporate power line status indictor in mobile application to notify former about power-cut schedule. | | | |
| Total cost of the product/technology | Site preparation cost | Equipment/ Machinery cost | Running cost, Manpower cost, Electricity cost, etc. | Miscellaneous expense |
| | 10,000/- | 75,000/- | 5,000/- | 10,000/- |
| Funds raised from | Not applicable | | | |
| Details of the funds raised from any other agencies apart from above-mentioned: | Not applicable | | | |
| Who are the beneficiaries (ST, SC, OBC, Tribal, etc.) And potential impact of the technology on the beneficiary & | <ol style="list-style-type: none"> 1. System reduces the burden on farmer for going to the farm field in order to check the water level in well for turning motor on/off. 2. Farmers are able to utilize highly detailed analytics to accelerate | | | |

| | |
|--|--|
| village. | productivity and gain from crops in the future. |
| Duration of Project | 12 months |
| Role of stakeholders in maintaining sustainability after the project duration (please mention point wise role of participating stakeholders) | Department /Institute will provide support and monitor adopted villages on regular basis and resolve the issues related to project at field. |
| Execution of the project along with role of all participating stakeholders (write point wise maximum 500 words): | Department /Institute is providing necessary laboratory support and testing procedure to be observed in extreme conditions in actual field. |
| Impact of this work on learning of students/teachers | Will enhance technical skill which include understanding of microcontroller concept, working of dry run protection, power devices, relay control mechanism, sensors and their response and programming analogy. It also helps to enhance soft skill. |
| Role of PI after completion of the project duration | Continuous monitoring of project at field, providing support after installation, resolve the issues after due discussion with farmers. |
| Enter Name and Contact details of students involved in this project | Not applicable |
| Enter Name and Contact details of peoples those will be involved in this project (Form UBA connected / adopted village) | Dr. R.R. Maggavi Mobile:9480275583 rrmaggavi.ece@hsit.ac.in Prof. D.B. Madihalli Mobile:9902854324 dbmadihalli@hsit.ac.in |

Principal Investigator

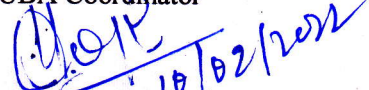

10/02/22
Dr. R.R. Maggavi
Prof. D.B. Madihalli


HOD

Dr. S. B. Akole

HOD
Electronics & Commn. Engg. Dep.
HSIT NIDASOSHI

UBA Coordinator


10/02/2022
Dr. S. N. Topannavar

Proposal By: Hirasugar Institute of Technology, Nidasoshi ()

Project Title: Smart System for Crop Prediction & Fertilizer Suggestion.

Project Objectives: The main objective of the project is

1. To develop a smart system for crop prediction and fertilizer suggestion using machine learning and IoT.
2. To develop an IOT based system which measures the collective data from the farm by monitoring the Rainfall, PH, NPK values, Temperature and Humidity.
3. To develop an intelligent crop suggestion system for farmers which utilizes the collective data from the farm related to weather and Soil to suggest the suitable crop for farmers using Machine Learning approach.
4. To Train a machine learning model using supervised learning approach capable of suggesting crops to farmers using the live dataset collected from the sensor data placed in farm.
5. To develop a software application which can be used by the farmers to check for the most suitable crops in that soil.
6. To Develop an Android application for farmers which will give updates regarding the soil NPK content and the fertilizers to be used for low NPK content. This will help farmers to test the soil by themselves without going to soil testing centers.
7. To make the entire system solar powered.

Project Justification:

- i) **Problem Statement:** The majority of farmers do not conduct soil testing and use the same agricultural cultivation methods and patterns, resulting in lower yields. There are currently no systems in place to track and analyze the data from farms itself in terms of temperature, humidity, and other key factors. A system is required that recommends different crops to farmers and warns them about replenishment.
- ii) **Priority Needs:** The only priority is given to the Farmers, to ultimately increase their yield and hence, the income.
- iii) **Proposed Approach / Technical Intervention / Customization:**

Due to the challenges that farmers experience, we are motivated to design a smart system based on IoT and machine learning that can provide farmers with in-field soil testing and planting suggestions, resulting in greater agricultural yields. This inspires us to create a system that can monitor data from the farm using various metrics, such as soil NPK values, and provide recommendations to the farmer on the best crops to produce in his farm based on the soil nutritional content and environmental parameters. An android application for remote parameter monitoring is also being developed, which will be used by farmers to display various farm parameters via IoT.

Brief Plan of Activities and Implementation Timeline:

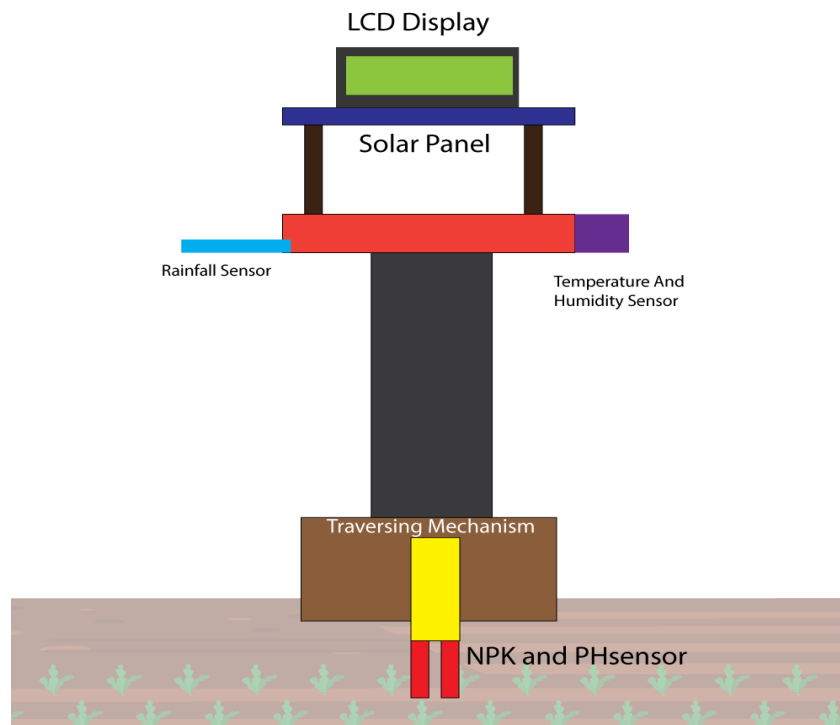
| S.no | Timeline | Plan Of Activities |
|-------------|---|--|
| 1. | March(1 st & 2 nd week) | Literature review and Material survey. |
| 2. | March(3 rd & 4 th week) | Development of IOT protocol. |
| 3. | April & May (Entire 2 months) | Development of different parameter system and data collection for testing. |
| 4. | June(1 st , 2 nd & 3 rd weeks) | Design of Hardware and PCB fabrication. |
| 5. | June (4 th week) & July (1 st week) | Software, Android App and Web Application development. |
| 6. | July(2 nd , 3 rd & 4 th weeks) | Programming and Optimization. |

- **Timeline For Work:** 5 Months

Methodology, Materials and Financial Resources:

As shown in the conceptual diagram the system consists of the smart system for crop prediction and fertilizer suggestion using machine learning and IOT. The proposed project consists of **two parts**, the smart device to be installed in the farms and the IOT portal to notify the farmers. Smart device monitors the NPK content of the soil to analyze the nutritional content and the fertilizer requirement. Sensor interfaced to the controller detects if the soil requires fertilizer and what type of the fertilizer. Data set obtained is used to train a machine learning model which can be used for crop prediction. The IOT based system consist of an android application which can

be used by farmers for monitoring the different parameters in the farm and also for visualizing the suggestions from the machine learning based system. The entire system is solar powered making it green eco-friendly and cost efficient to operate or afford for farmers.



- References used for adopting the methodology:
 - i. Jejurkar Siddhi, S.S. Bhosale Meghna, D. N. Wavhal, “Crop Predication and Diseases Detection Using Machine Learning”, International Journal of Scientific Research in Computer Science Engineering and Information Technology (2019).
 - ii. Kumar, Y. Jeevan Nagendra, V. Spandana, V. S. Vaishnavi, K. Neha, and R. R. Devi, “Supervised Machine learning Approach for Crop Yield Prediction in Agriculture Sector”, International Conference on Communication and Electronics Systems (ICCES), IEEE (2020).
 - iii. Archana Gupta, Dharmil Nagda, Pratiksha Nikhare, Atharva Sandbhor, “Smart Crop Prediction using IoT and Machine Learning”, International Research Journal of Engineering and Technology (IRJET) (2021).
- Materials/ Equipment Required:

Hardware:

 - Raspberry PI SBC
 - NPK sensor

- pH sensor
- LCD display
- Temperature Sensor
- Humidity Sensor
- Rainfall Sensor
- Buzzer
- DC motors
- CP2102 USB Serial Module
- L298N motor Driver
- Solar panel
- Charge controller
- Battery
- An Android Device with Android 5+ operating system
- A system with following specifications
 - 4 GB RAM (8 GB recommended)
 - Core i3/i5 processor
 - At least 3 GB of free disk Space
 - Operating system Windows/Mac/UBUNTU
 - 1280 x 800 minimum screen resolution

SOFTWARE:

- Thonny IDE
- Android Studio
- WAMP Server
- Serial Monitor

Budget Details:

| S.No. | Resources | Amount |
|-------|---------------------------|--------|
| 1. | Materials and Consumables | 80,000 |
| 2. | Travel and Labour | 15,500 |
| 3. | Miscellaneous | 5,500 |

Total: 1,01,000

- **Outcomes/ Impact of the Project:**

1. The system can help farmers automatically detect the nutritional content of the soil.
2. The system is internet controlled, hence no limitation of working range as it can be visualized from any part of the world.
3. There is no need for farmers to take the soil to soil testing centres as entire testing happens in the farm itself.
4. Fertilizer intimation system alerts the farmers with type of fertilizer to be given from time to time.
5. The system can be used ML based model for crop suggestion which suggests farmers with the best suitable crops for the field which can deliver maximum produce.
6. System is scalable as is uses machine learning.
7. The sensor nodes give all the live data to the farmer using internet.
8. System is solar powered hence cost free and easy to operate.

Thus, leading to a higher yield to the farmers.

Funding From Any Other Sources: NA