



AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgaoli)

Date: 02-03-2023

Report on "Project Code Unnati Start-Up Challenge"

The students from 7th Semester, Department of Electronics and Communication Engineering Swasthik Kamath, Hardik Rai, Seema J Rai have got a funding for the project entitled "Advancing throat Disease detection through video laryngoscopy" under the guidance of Dr. Gnane Swarnadh Sathapathy in Project Code Unnati Start-Up Challenge, 2023 – Idea Presentation held at A.J. Institute of Engineering and Technology, Mangalore on 9/07/2023.

The following courses were discussed by the participants

Following quests were discussed

The practicality of implementing video laryngoscopes in airway management projects directly benefits clinicians by providing clearer views of the glottis and aiding in endotracheal intubation, particularly in challenging scenarios. By reducing intubation attempts and enhancing teaching capabilities, these tools address significant challenges faced by critical care clinicians, potentially minimizing complications and the need for general anesthesia. However, challenges in implementing such technology may include cost, training requirements, and equipment availability. Moving forward, a comprehensive plan for the development of the project could involve targeted training programs, cost-effective procurement strategies, and ongoing research to optimize utilization and outcomes in advanced airway management.

Objectives:

Improved Visualization: Video laryngoscopes provide a clearer and wider view of the airway, which can make the intubation process easier and more efficient, particularly in patients with difficult airways

Reduced Risk of Complications: The use of video laryngoscopes has been associated with a lower risk of airway trauma and bleeding, as the device provides a more controlled and gentle approach to intubation.

Increased Patient Comfort: Video laryngoscopes can help reduce the discomfort associated with traditional intubation techniques, particularly in patients with reduced mouth opening, as they require less manipulation of the mouth and throat.

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➤ **Compatibility with Various Intubation Techniques:** Video laryngoscopes are versatile devices that can be used with a range of intubation techniques, including direct and indirect methods, making them suitable for different patient needs and clinical situations.

Outcomes:

Video laryngoscopes revolutionize airway management, offering clear views of the glottis and aiding in endotracheal intubation, particularly in challenging cases. Their advantages include improved visualization, reduced intubation attempts, and enhanced teaching capabilities. Despite lacking superiority evidence in unselected or ICU patients, their efficacy in difficult airway management makes them valuable for critical care clinicians. They facilitate navigation through complex anatomies, potentially reducing complications and the need for general anesthesia. Overall, video laryngoscopes are essential tools in advanced airway management, warranting consideration for inclusion in critical care clinicians' armamentarium. Their utilization should be tailored based on patient condition, operator skill, and equipment availability..

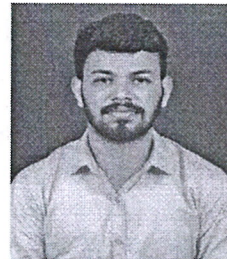
Photos:



Seema J Rai





Hardik Rai



Swasthik Kamath

Dr. Gnane Swarnadh Satapathi
Coordinator
(Ass. Professor, Dept. of ECE)


Dr. Kiran Kumar VG
Vice- Principal & HOD-ECE


Dr. Santharama Rai C
Principal

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UTILIZATION REPORT

Project idea:

Advancing throat Disease detection through video laryngoscopy Team members:

Swasthik Kamath

Seema j rai


Hardik rai

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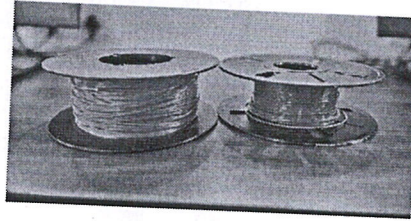
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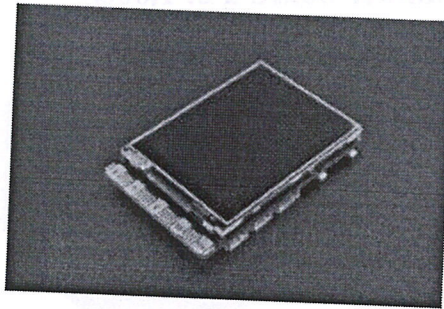

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USAGE OF FIRST TRANCHE

- Finding retailers and purchasing ABS 3D filament for 3D Printing x 5kg: 6500/-



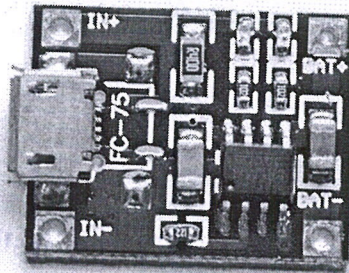
- Unihiker board x 2 :24,000 /-



- Lithium ion battery x 2 : 1,500/-

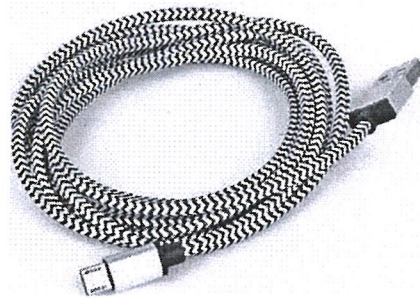


- Charging circuit x 2 :1000 /-



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- USB cable x 2 : 1,000/-



- Silicon case for Unihiker board x 2: 1,000/-




- Camera x 2: 3,000/-



- 3D Printing charges :10,000 /-

- Miscellaneous: 2,000/-



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FINANCIAL PROJECTION OF SECOND TRANCHE


SL NO.	DESCRIPTION	PRICE
1.	Website purchase and consultation charges	10,000
2.	Marketing team	5,000
3.	Ethical committee fees per college	15,000
4.	Travelling allowance for medical college	5,000
5.	Design patent	15,000
	GRAND TOTAL	50,000

USAGE OF SECOND TRANCHE

- we will purchase a website for our product where it will contain information about our product and this website will be used for marketing.
- We plan to mobilise a team of five to ten people for marketing, promote our product online, and visit various hospitals.


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- For making use our products in different hospitals we must go through different ethical checks of our product and also get approval of Medical Council of India.
- We must submit our items to various ethical reviews before using them in various hospitals.
- For marketing as well for ethical review of our product we must travel regularly.
- Few are planning for applying design patent for our product so this amount will be used for the same


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BUSINESS IDEA

During corona, the rate of incubation was increased to 50% and the sterilization of video laryngoscope would take 15-20minutes.

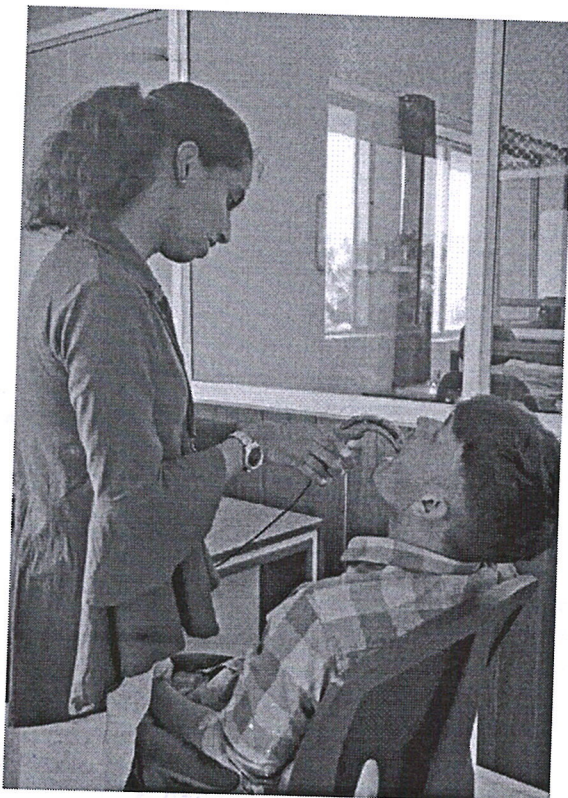
But at epidemic time, time was insufficient as the patients joining ICU are being increased.

Moreover, the cost of video laryngoscope was something around ₹1,20,000 ,so we came out with an idea to develop a video laryngoscope which is of low cost and with no sterilization time.

For this we used a 3D printed material for blade of laryngoscope and a microcontroller for displaying the larynx of the person.

Moreover the same can be connected to the mobile phones either android or ios where in for android the app is already been created and for ios we are creating the application.


SUPPORTING IMAGE




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Business Registration

11/2/2023, 4:07 PM Print : Udyam Registration Certificate



भारत सरकार
Government of India
महान, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises



UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER UDYAM-KR-26-0029966

NAME OF ENTERPRISE SWASTHIK KAMATH

TYPE OF ENTERPRISE *

S.No.	Classification Year	Enterprise Type	Classification Date
1	2023-24	Micro	21/11/2023

MAJOR ACTIVITY **MANUFACTURING**

SOCIAL CATEGORY OF ENTREPRENEUR GENERAL

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	Videa Laryngoscope

OFFICIAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	I-100/I Padhyar Camp	Name of Premises/ Building	I-100/I
Village/Town	Belman	Block	Karkala
Road/Street/Lane	Padhyar Road	City	Karkala
State	KARNATAKA	District	UDUPI, Pin-576111
Mobile	8495095440	Email:	swasthikamath@gmail.com

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE 10/11/2023

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS 10/11/2023

NATIONAL INDUSTRY CLASSIFICATION CODE(S)

S.No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	72 - Scientific research and development	7220 - Research and experimental development on social sciences and humanities	72200 - Research and experimental development on social sciences and humanities	Services

DATE OF UDYAM REGISTRATION 21/11/2023

* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the Min MSME.
Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing: 26/11/2023

For any assistance, you may contact:

https://udyamregistration.gov.in/Udyam_User/Udyam_FormApplication.aspx 1/4


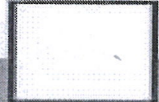
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1. District Industries Centre: UDUPI (KARNATAKA)

2. MSME-DFD: BANGALORE (KARNATAKA)

Visit : www.msme.gov.in ; www.dcmsme.gov.in ; www.udyamregistration.gov.in

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Credited to your A/c No XX4835
on 29/11/2023 through NEFT with
UTR/ 3452070385IDC by
SEVENTH SENSE PEOPLE,
INFO:UNDP
Phase2SeedMoneyWinner-
Tranche1Pa-SBI

Gmail Search mail

Compose

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Labels

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Fwd: Project Code Unnati Beneficiaries Placement/Internship Information

Hardik Rai <hardikrai@gmail.com>

13:16 (11 minutes ago)

----- Forwarded message -----
From: UNDP Seventh Sense EDP <undpss_info@seventhsense talent.com>
Date: Wed, 13 Dec 2023 at 8:10 PM
Subject: Project Code Unnati Beneficiaries Placement/Internship Information
To: UNDP Seventh Sense EDP <undpss_info@seventhsense talent.com>

Dear Students,

Greetings from Seventh Sense Talent Solutions!

Seventh Sense Talent Solutions provides placement opportunities for Code Unnati students who have completed the Entrepreneurship Development Programme (EDP). Our EDP Programme trainers are as follows:

Raichur: Mr. Ravi Raj & Mr. Venkatesh
Dakshina Kannada: Mr. Shrikanth P & Ms. Sheethal S K
Bengaluru Rural: Mr. Sanjay B Soglar & Mr. Mahanth G V

We are thrilled to announce that over 2,400 students have enrolled in the EDP programme. If you are one of the participants who attended the EDP programme and secured a placement or internship in a company, we would love to know which company you joined.

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