



Koneru Lakshmaiah Education Foundation

(Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

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Solid waste Management and Technology at Vellaturu

DT: 15/11/2019

Solid waste management was done and Vermicompost was started by the waste generated in the village at Vellaturu and Mylavaram by KLEF – SVR team and with the help of Panchayat secretary. Now they are using that for their fields and they are generating income also.

It was conducted from 3/09/2019 – 15/11/2019.

Participants:

S.No.	Name	Department
1.	Susmitha Sambaraju	Civil Department
2.	Kone Venkatesh (Asst.Prof)	Civil Department
3.	Darsi Girish	Civil Department
4.	Manasa Alapati	CSE
5.	D Rama Charan Teja	ECE
6	M. Gopi chand	KLEF – SVR
7	PV. Satyanarayana	KLEF - SVR

S. No.	Register No.	Name of the student
1	180020117	Abishek Risal
2	182021002	ADDEPALLI L S K S V D GUPTA
3	182022030	AGARWAL AMAN
4	182022001	ALAPATI LEELA KRISHNA SIVA PRASAD
5	182022028	ALLA SAI VARDHAN REDDY
6	180020082	ALULA ARVIND KUMAR
7	180020033	AMMISSETTY SIVA SANKAR
8	182021046	ANUGURU VENU GOPAL REDDY
9	182022002	AVVA VENKATASESIRAMAKANTH
10	182021043	AYINAMPUDI KAVYA
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13	182021057	BALAM PAVAN VENKATA NAGA SAI
14	180020042	BALE BHUVANA SREE
15	180020013	BANDI VENKATA NARASIMHA BALAJI
16	182021003	BANGLA GAYAZ BASHA

17	182021004	BANTUMILLI SATYA SAI VISALAKSHI
18	180020102	BANURI BODHENDRA VIKRAM
19	180020094	BATHULA VAMSI KRISHNA REDDY
20	182022004	BATTULA VENU GOPAL REDDY
21	180020006	BEZAWADA DHANUSH GOUD
22	180020021	BHADRA SAI TARUN MEDIBOINA
23	180020009	BIJJAM ASHOK KUMAR REDDY
24	180020027	BOJJA VISHNU

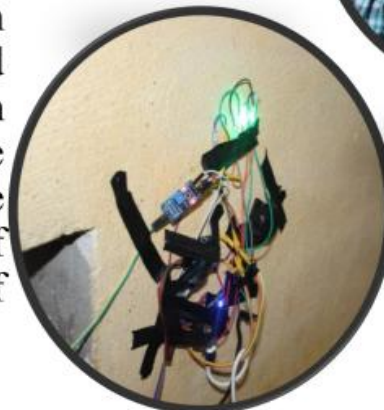
- Vermicompost contains water-soluble nutrients and is an excellent, nutrient-rich organic fertilizer and soil conditioner. It is used in farming and small scale sustainable, organic farming.
- In Andhra Pradesh, around 10,000 constructed Vermicompost sheds are not in functional, worth of 600 crores capital cost. The Reason Behind it effective care is required to sustain earthworms and also more manpower.
- We solved the issue by installing a sensor connected with sprinklers. When ever water needed, sensor will notify with buzzer sound and sprinkler will also turn on automatically and stopped if it sufficient



Sensor monitoring soil moisture

Sprinkler System

It has a sensor-based monitoring system, it will manage the right environmental factors to the earthworms and automatic sprinkler system, to maintain moisture content and temperature. This new system connected with mobile applications to resolve the challenges in the collection of waste and the marketing of organic fertilizer.



Impact of the proposed solution

1. We spend only 15,000/- for deploying this system and to make organic fertilizer manufacture from a storage shed.
2. Now, its producing **120 Tonnes** of vermicompost worth of **20,00,000/-** annually and **250 Tonnes of wet waste** has been treated.
3. And, also 10 types organic fertilizers like Panchagavya, Agnasthram, Neemasthram, Avilakukashayam, Acalypha indica kashayam, Datura kashayam, etc are sold to the near farmers.
4. Annual income from the organic fertilizer expect vermicompost is **Rs 2,00,000/-** and it will increase by increasing of organic agriculture land.



Before



Now



Organic fertilizer stall at market yard

Project Coordinator
M. Padmavathy

Project Head
Mr. P. Sai Vijay.

Signature of the Student Dean