



FROM WOOD SCIENCE TO WASTE MANAGEMENT

Nothing goes waste on the campus of the Institute of Wood Science and Technology. Garbage from residences is segregated and disposed, while garden waste is composted

Bharat A Patel
bunfeedback@indiatimes.com

Waste management is a theme which resonates on the campus of the Institute of Wood Science and Technology (IWST) Bangalore. Until recently, waste was either burnt or handed over to garbage contractors for dumping. Over the last year, however, the institute has put in place an eco-friendly method of disposal and what's more, they are reaping the benefits.

The institute is spread over 25 acres, a large part of it comprising thick, woody vegetation. There are also about 100 residential quarters on the campus, apart from a guest house and a hostel for scientists. The management of the institute was plagued with the problem of disposal of waste generated by the thick vegetation such as twigs, leaf litter etc., and waste from residential quarters. Leaf litter and other wood waste were usually burnt and although garbage contractors frequently collected waste from residences, it still created a problem, besides causing foul smell and littering leading to unhygienic and untidy conditions in the campus, the waste



TOP: Dr Meenakshi Bharat and S C Joshi inspecting compost. BELOW LEFT: Dry waste being sorted before disposal

invariably drew dogs and monkeys. To deal with the problem in an eco-friendly and sustainable manner, the institute conducted research, following which a holistic programme to

deal with all types of waste was put in place. The programme, launched at the start of the year, comprised strategies for the three major types of waste — wood waste, dry waste and

wet waste from residences. The institute decided to rope in an expert organisation to deal with the wood or lignocellulosic waste. The other waste was to be segregated and while

dry waste was to be sold or given away to collectors, wet waste would be converted into biogas. With this general scheme in mind, earnest steps were taken since March 2012.

The institute invited Malleswaram Matters, an NGO spearheaded by environmentalist Dr Meenakshi Bharat, to conduct awareness programmes, aimed at spreading awareness. Officers and staff were identified and were given charge of ensuring waste was effectively managed. Since then, garden waste such as leaves, flowers, grass etc., is being collected and converted into compost. The process of composting began in mid April 2012. The waste is collected, mixed with cow dung and heaped for composting. Malleswaram Matters lends a hand with the process of composting. The first load of bio-compost was ready earlier this month and the facility was inaugurated by Dr Meenakshi Bharat of Malleswaram Matters and S C Joshi, director IWST.

In tune with the plan, waste from residences is being segregated and disposed off effectively.

"Each residence in the campus has been provided with two bags, one for plastic and other for waste paper, to segregate the recyclable waste in the house itself," said Joshi. "This waste is collected from each house once a week and stored in a centralised place. From there, it is either sold or given away for recycling and scientific disposal. At present, wet waste is handed over to contractors as we do not have the facility to convert it to biogas. We would need about Rs 3.5 lakh to install the facility and we hope the Indian Council of Forestry Research & Education (ICFRE) headquarters sanctions this amount. Or else we hope to raise the money through sale of bio-compost. Once this facility is developed, biogas generated will be used for cooking and other purposes in IWST Guest House and campus."

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WHERE SEGREGATION COMES EASY

While the BBMP is struggling to make waste segregation mandatory in the entire city, an institute campus in Malleshwaram which has more than 100 families has been managing waste at the source for six months now. On October 5, a new bio-compost unit was also inaugurated at the premises.



Continued on page 4 >> EFFECTIVE MANAGEMENT: The new bio-compost plant at the Institute of Wood Science and Technology

INSIDE >>

PAGE 2
The 8th Main Road from 5th Cross to Yeswanthpur Junction has a new name now, Carnar (Delish Road)

PAGE 5
A chartered accountant by profession, Srikrupa has made quite a name in the musical circles

WHERE SEGREGATION COMES...

Continued from page 1 >>
CITYPLUS NEWSDESK

THE entire city is chanting the segregation mantra after the garbage problem escalated in Bangalore. The BBMP on its part is trying to make bulk generators to take care of the waste; housing complex inside an institution at Malleshwaram has been segregating and recycling waste for six months now. The Institute of Wood Science and Technology (IWST) Malleshwaram which has more than hundred families in its campus has taken initiatives towards solid waste management and recently opened a new bio compost unit. To instill the importance of waste man-

agement, the institute is trying from the very beginning of this year. The institute had invited Dr. Meenakshi Bharath, a member of Solid-Waste Round Table.

She advised them to go for segregation and they have been following the system now. In March 2012, the awareness programme was conducted and in April 2012, the process of waste management began at IWST campus with the help of Dr. Meenakshi Bharath and her team members.

During this programme, the scientists and their family members learnt how to segregate waste. The purpose of the programmes was to create awareness among the people on making use of waste (house/garden) available in the campus to make compost.

"Our director SC Joshi has been the driving force behind this initiative and all the residents in the campus are putting their collective effort in making the campus waste free zone," said Ritesh Kumar, scientist, wood energy division, IWST.

There are around 100 quarters in IWST campus and every family staying in the quarters has been provided with two bags, one for plastic waste and other for paper. Recyclable waste is segregated in the house itself. Once in every week, the waste is being collected

from each house by the group 'D' workers and stored in a centralized place. From this central storage place, these wastes are being sent for recycling/scientific disposal through scrap dealers.

The waste generated from gardens such as leaves, flowers and grass are being collected and subjected to composting. The process of composting began on June 5, 2012 on the day of World Environment Day. All garden waste was collected, mixed with cow dung and piled for the process of composting. This is a natural cost efficient way of composting which just needs some lung space. The composting is done in the campus with the help of an NGO 'Malleshwaram Matters'. Now, there are three fully ripped bio-compost piles available for use in the nursery



HELPING HAND: Dr. Meenakshi Bharath, a member of Solid Waste Round Table helping residents of The Institute of Wood Science and Technology to segregate the waste in the campus.

and gardens. "We have kept dustbin at every block where residents can come and dump their kitchen waste," said SK Sharma, one of the officials at the institute.

Speaking to Cityplus, Dr. Meenakshi Bharath said, "Lots of leaf waste could be found at various places in the campus and we just needed a space where these leaves could be collected and mixed with water and cow dung which also includes natural biodegradable enzymes. We found a space and the compost has turned into very good manure. The response for the dry waste segregation is quite good but we need to gear up more for the wet waste segregation."

To make use of other wet waste, bio gas plant for all food/kitchen waste will be established soon and

generated biogas will be used for cooking and other purposes in IWST Guest House and campus.

Throwing some light on the issue, SK Sharma said, "We are just waiting for the budget from the institute fund to be passed for this bio fuel plant. Already, there is LPG crisis in the country and if we can use this fuel for our hostel and guest house in the campus, it would serve the purpose.

In case we generate more fuel than our need we can even sell it." After tasting the success from this bio compost plant, now the NGO Malleshwaram Matters is planning to create more awareness about this innovation. Dr. Meenakshi said, "We



would be conducting awareness programmes at different complexes and apartments on October 12 in Malleshwaram. To begin with, we are having an awareness camp at Pandurang Ashram Apartments at the 18th Cross, 8th Main."

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गार्डन सिटी में जहां एक ओर टोस कचरा निस्तारण की समस्या

कचरे के निस्तारण के साथ-साथ कृषि क्षेत्र में मृदा की उर्वरकता एवं उत्पादन बढ़ाने में सहायता मिलेगी।

इतना ही नहीं, संस्थान की ओर से तैयार जैविक खाद से संभवतः आय भी प्राप्त हो सकती है। बृहद रूप में खाद तैयार कर कृषि क्षेत्र में इसके उपयोग के लिए बेचा जा सकता है।

कचरे से तैयार खाद

घरेलू कचरे और पेड़-पौधों के टूटे पत्ते और छोटी-छोटी शाखाओं का

पदार्थों का उपयोग किया जाना चाहिए। कचरे को खाद में परिवर्तित करने के लिए कचरे के ढेर को जमीन से लगभग एक फीट की ऊंचाई पर रखा जाए और कचरे को लगातार 45 दिनों तक गीला रखना होगा। ऊंचाई पर रखने के कारण इसमें से पानी निकलकर चला जाएगा और कचरा पूर्ण गीला रहेगा। 45 दिनों बाद इस कचरे को सुखा कर इसमें से खाद प्राप्त की जा सकती है।

प्राप्त किए जा सकते हैं। केंचुआ कृषि क्षेत्र में किसानों का मित्र कहा जा सकता है। केंचुआ भी भूमि में उत्पादन बढ़ाने में सहायक होता है।

ना दुर्गंध ना खर्च

कचरे और घरेलू गीले कचरे से जैव खाद तैयार करने में ना तो किसी तरह का अतिरिक्त भार पड़ेगा और ना ही किसी तरह की दुर्गंध फैलने के आसार हैं। डॉ. मीनाक्षी के अनुसार जमीन से एक फीट ऊंचे स्थान पर रखने से ना तो एक जगह पानी एकत्रित होगा, और ना ही बीमारियां फैलने की संभावना होगी। बल्कि राजधानी में कचरे जैसी समस्या का समाधान होगा।

वेस्ट फ्री परिसर होगा आईडब्ल्यूएसटी

संस्थान ने टोस कचरे का निस्तारण एवं उचित प्रबंधन करते हुए परिसर को कचरा फ्री बनाने का निर्णय किया है। संस्थान के निदेशक एस.सी. जोशी ने बताया कि संस्थान ने डॉ. मीनाक्षी के साथ मिलकर मार्च में कचरा प्रबंधन का कार्य शुरू किया। कार्यक्रम के तहत संस्थान परिसर में स्थित 100 मकानों से गीला कचरा संग्रहित कर परिसर में ही लगे पेड़-पौधों के सूखे कचरे का उपयोग जैविक खाद तैयार करने में किया है। उन्होंने बताया कि जैविक खाद तैयार करने का कार्य गैर सरकारी संस्था मल्लेश्वरम मेटर के सहयोग से पूर्ण किया गया। शुकवार को कचरे के ढेर से तैयार जैविक खाद का उपयोग परिसर स्थित वृक्षों के लिए किया गया। इस अवसर पर संस्थान के वैज्ञानिक (ई) पंकज अग्रवाल सहित कई अधिकारी गण उपस्थित थे।



निरीक्षण बंगलूरु में शुकवार को आईडब्ल्यूएसटी परिसर में जैविक खाद का निरीक्षण करते आईडब्ल्यूएसटी के निदेशक एस.सी. जोशी एवं सामाजिक कार्यकर्ता डॉ. मीनाक्षी भारत।

विकराल रूप लेती जा रही है, वहीं काष्ट विज्ञान एवं तकनीकी संस्थान (आईडब्ल्यूएसटी) में टोस कचरे का बेहतर उपयोग कर जैविक खाद तैयार की जा रही है। जैविक खाद से जहां गार्डन सिटी के गार्डनों को हरा-भरा करने में सहायता मिलेगी, वहीं

उपयोग कर जैविक खाद तैयार की जा सकती है। सामाजिक कार्यकर्ता मीनाक्षी भारत ने बताया कि कचरे के साथ पेड़-पौधों का कचरा और गोबर व पानी का मिलकर एक स्थान पर रखना होगा। लेकिन इस कचरे में ना ही प्लास्टिक और ना ही रिसाइकिलिंग

घरेलू कचरे से केंचुएं भी....

लगातार छह सप्ताह तक गीला रखने और उसमें घरेलू कचरा डालने के कारण इसमें केंचुएं जैसे कीट भी

ಪ್ರಜಾವಾಣಿ

ಶನಿವಾರ
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ಗ್ರಾಹಕರ ಸಮಾವೇಶ

ಕ್ಯಾನ್ ಫಿನ್ ಹೋಮ್ಸ್ ಲಿಮಿಟೆಡ್ ಉತ್ಪಾದಕರ ಶಾಖೆಯಲ್ಲಿ ಈಚೆಗೆ ಆಯೋಜಿಸಿದ್ದ ಗ್ರಾಹಕರ ಸಮಾವೇಶದಲ್ಲಿ ಕಾರ್ಪೊರೇಷನ್ ವ್ಯವಸ್ಥಾಪಕ ಚಿತ್ರಾ ಶ್ರೀನಿವಾಸ್ ಭಾಷಿಸಿದರು. ಸಹಾಯಕ ವ್ಯವಸ್ಥಾಪಕ ಎಂ.ಕಮೀಶಾ, ಲಿಮಿಟೆಡ್‌ನ ವ್ಯವಸ್ಥಾಪಕ ದೀಪತ ಸಿ.ಇಳಂಗೊ ಚಿತ್ರದಲ್ಲಿದ್ದಾರೆ



ಆಯಿ

ನೇಮಂಗಲ ತಾಲ್ಲೂಕು ವ್ಯವಸಾಯೋತ್ಪನ್ನಗಳ ಸಹಕಾರ ಸಂಘದ (ಆರ್.ಪಿ.ಎಸ್.ಸಿ.ಎಂ.ಎಂ.ಬಿ.ಎಸ್.ಎಸ್.) ಅಧ್ಯಕ್ಷ ರಾಗಿ ಮನ್ಯ ಸಿ.ರಾಮಾಚಾರ್

PRAJA VANI, 6th October, 2012

**ಮರ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಸಂಸ್ಥೆ ಸಾಧನೆ
 ತ್ಯಾಜ್ಯದಿಂದ ಖರ್ಚಿಲ್ಲದೇ ಗೊಬ್ಬರ**

ಪ್ರಜಾವಾಣಿ ವಾರ್ತೆ

ಬೆಂಗಳೂರು: ಸ್ಥಳೀಯ ಪ್ರತಿಭಟನೆ ಯಿಂದ ನಗರದ ಹೊರಗಡೆ ಸಮರ್ಪಕ ತ್ಯಾಜ್ಯ ವಿಲೇವಾರಿ ಮಾಡಲು ಬರುವಂತೆ ಹೇಳಿಕೊಟ್ಟಿದ್ದಾರೆ. ನಗರದ ಮರ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಸಂಸ್ಥೆಯು ಯಾವುದೇ ಖರ್ಚು ಅಥವಾ ತಂತ್ರಜ್ಞಾನದ ನೆರವಿಲ್ಲದೆ ಕ್ಯಾಂಪೌನಲ್ಲಿನ ಮರಗಳಿಂದ ಉದ್ಭವಿಸುವ ಎಲೆ, ಕೆಎ-ಕೆಡಿ ಹಾಗೂ ನೌಕರರ ಮರಕಿಟ್ಟುಗಳ ಅಡಿಗೆ ಮನೆ ತ್ಯಾಜ್ಯದಿಂದಲೇ ಫಲವತ್ತಾದ ಗೊಬ್ಬರ ತಯಾರಿಸಿ ಇತರ ಸರ್ಕಾರ ಸಂಸ್ಥೆಗಳಿಗೆ ಮಾರಾಟ ಮಾಡಿದೆ.

'ಮಲ್ಲೇಶ್ವರಂ ಮ್ಯಾಟರ್' ಸ್ವಯಂ ಸೇವಾ ಸಂಸ್ಥೆಯ ಸಹಯೋಗದಲ್ಲಿ ತಯಾರಿಸಿರುವ ಗೊಬ್ಬರವನ್ನು ಇಂದಿಗೂ ಅನುಕ್ರಮವಾಗಿ ಕಡಿಮೆ ದರದಲ್ಲಿ ಮಾರಾಟ ಮಾಡಲು ಕೂಡ ಸಂಸ್ಥೆಯು ಚಿಂತನೆ ನಡೆಸಿದೆ.

ಸುಮಾರು 25 ಎಕರೆಯಷ್ಟು ಮೈಕರಗಡೆ ಮರ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಸಂಸ್ಥೆಯ ಕ್ಯಾಂಪೌನಲ್ಲಿ ಅರಣ್ಯ ರೀತಿಯಲ್ಲಿ ಸವೃದ್ಧವಾಗಿ ಬೆಳೆದ ಮರಗಳಿಂದ ಉದ್ಭವಿಸುವ ಎಲೆ, ಕೆಎ-ಕೆಡಿ ಹಾಗೂ ಇತರ ಹೂ ತ್ಯಾಜ್ಯದಿಂದಲೇ ಈ ಗೊಬ್ಬರ ತಯಾರಿಸುವುದು ವಿಶೇಷ.

ಹುದ್ದೆಗಳ ಬಗ್ಗೆ ಮಾಹಿಯ ತಿಳಿಗಲು: ಸಾಮಾನ್ಯವಾಗಿ ಗ್ರಾಮಾಂತರ ಪ್ರದೇಶದಲ್ಲಿ ರೈತರು ಹುದ್ದೆಗಳ ಬಗ್ಗೆ ಹಾಕುವ ಮಾದರಿಯಲ್ಲಿ ಈ ಸಂಸ್ಥೆಯ ಕ್ಯಾಂಪೌನಲ್ಲಿ ಗೊಬ್ಬರ ತಿಳಿಗಲು ಎಲ್ಲಾ ಕಾರಣಗಳಿವೆ. ಈ ಕಾರಣದಿಂದಲೇ ಇವು ಹುದ್ದೆಗಳಲ್ಲಿನ ತಿಳಿಗಲಿನ ವಿಧಾನವಾಗಿದೆ ಎನ್ನಬಹುದು.

ಗ್ರಾಮೀಣ ಭಾಗದ ಹೊಲ ಹಾಗೂ ತಿಳಿಗಲಲ್ಲಿ ಕಾಣಿಸುವ 'ರೈತನ ಮಿತ್ರ' ಎರೆಯು ಕೂಡ ತಿಳಿಗಲಲ್ಲಿ ಸಾಕಷ್ಟು ಸಂಸ್ಥೆಯಲ್ಲಿ ಕಾಣಿಸುವುದು ವಿಶೇಷ.



ನಗರದ ಮಲ್ಲೇಶ್ವರಂ ದಡದಲ್ಲಿರುವ ಮರ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಸಂಸ್ಥೆಯ ನಿರ್ದೇಶಕರು ಹುಕ್ಕವಾರ ತ್ಯಾಜ್ಯದಿಂದ ಗೊಬ್ಬರ ತಯಾರಿಸುವ ಬಗ್ಗೆ ಪ್ರಾತ್ಯಕ್ಷಿಕೆ ನಡೆಸಿದರು - ಪ್ರಜಾವಾಣಿ ಚಿತ್ರ

ಗೊಬ್ಬರ ತಯಾರಿಕೆ ಹೇಗೆ?

ಕ್ಯಾಂಪೌನಲ್ಲಿ ಸಂಗ್ರಹವಾದ ಕುಮಾರು ಸಾಗಿಸಿ ಬೆರೆಸಿದ ನೀರಿನಲ್ಲಿ ತೊಳೆದು ತಿಳಿ ರೀತಿಯಲ್ಲಿ ರಾಶಿ ಹಾಕಲಾಗುತ್ತದೆ. ಹುದ್ದೆಗಳ ಬಗ್ಗೆ ರೀತಿಯಲ್ಲಿ ಕೆಳಗೆ ಇರಿಸುವುದು ಅವಕಾಶ ಕಲ್ಪಿಸಲಾಗಿದೆ. ನಂತರ ಪ್ರತಿ ದಿನ ತಿಳಿಗಲಿಗೆ ಸುರಿಯುವ ಹೂ ತ್ಯಾಜ್ಯದ ಮೇಲೆ ನೀರು ಹಾಕಿ ತೇವಾಂಶ ಕಾಯ್ದುಕೊಳ್ಳಲಾಗುತ್ತದೆ. 45 ದಿನಗಳ ನಂತರ ಈ ರಾಶಿ ಫಲವತ್ತಾದ ಗೊಬ್ಬರವಾಗಿ ಮಾರ್ಪಡುತ್ತದೆ.

ನಗರದ ಉದ್ಯಾನವನಗಳು, ಕ್ಯಾಂಪೌಗಳಿಂದಲೂ ಹೂ-ಕಾಳೆಗಳನ್ನು ಸರ್ಕಾರಿ ಕಚೇರಿಗಳ ಆವರಣದಲ್ಲಿ ಈ ರೀತಿ ಮತ್ತೆ ಸಂಗ್ರಹವಾಗುವ ಕೆಎ-ಕೆಡಿ, ಮರಗಳ ಎಲೆಗಳಿಂದಲೇ ಫಲವತ್ತಾದ ಗೊಬ್ಬರ ತಯಾರಿಸುವುದು. ಇದರಿಂದ ಹೂ ತ್ಯಾಜ್ಯವನ್ನು ಹೊರಗೆ ಸಾಗಿಸುವುದು ಕೂಡ ತಪ್ಪಲಿದೆ. ಅಲ್ಲದೆ, ನರ್ಸರಿ, ಕೃಷಿ ಕೊಠಡಿಗಳಿಗೆ ಈ ಗೊಬ್ಬರ ಬಳಸಿಕೊಳ್ಳಬಹುದು ಎಂದು ಸಾಮಾಜಿಕ ಕಾರ್ಯಕರ್ತೆ ಡಾ.ಮೀನಾಕ್ಷಿ ಭರತ್ ಹೇಳಿದರು.

'ಹೂ ತ್ಯಾಜ್ಯದಿಂದ ಗೊಬ್ಬರ ತಯಾರಿಸುವುದಕ್ಕೆ ಯಾವುದೇ ತಂತ್ರಜ್ಞಾನದ ಬಳಕೆ ಹಾಗೂ ಅಧಿಕ ಹಣದ ಅವಶ್ಯಕತೆಯಿಲ್ಲ. ನಗರದ ಉದ್ಯಾನಗಳಲ್ಲಿಯೂ ಇದೇ ಮಾದರಿ ಅನುಸರಿಸಿ ಗೊಬ್ಬರ ತಯಾರಿಸುವಂತೆ ಪಾಲಿಕೆಯನ್ನೂ ಕೋರಲಾಗಿದೆ' ಎಂದರು.

ಮರ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಸಂಸ್ಥೆಯ ನಿರ್ದೇಶಕ ಎಸ್.ಎ. ಕೋಟಿ ಮಾತನಾಡಿ, 'ಕ್ಯಾಂಪೌನಲ್ಲಿ ತಯಾರಿಸಿರುವ ಗೊಬ್ಬರವನ್ನು ರೈತರಿಗೆ ಕಡಿಮೆ ದರದಲ್ಲಿ ಮಾರಾಟ ಮಾಡಲಾಗುವುದು. ಹಣ ಮಾಡುವ ಯಾವುದೇ ಉದ್ದೇಶ ಸಂಸ್ಥೆಗಿಲ್ಲ. ಆದರೆ, ಈ ಹೆಜ್ಜೆಯನ್ನು ರೈತರಿಗೆ ಅನುಭವಿಸಿ ಸವೃದ್ಧ ಗೊಬ್ಬರ ತಯಾರಿಕೆಗೆ ಉತ್ತೇಜಿಸಲಾಗಿದೆ' ಎಂದು ಮಾಹಿತಿ ನೀಡಿದರು.