

A HEARTLY WELCOME

CII -GREENCO FORUM —BANGALORE 31st Aug-2016



Pen & Pencil Unit, Attibele, Bangalore



Power Plant, Gadag

PoinTec*



Pointec Pens and Energy Private Limited formerly known as Pointec Pens Private Limited was established in the year 1995. The factory is situated in Attibele Industrial Area, Bangalore. On an industrial plot measuring about 6456 Sq meter and has a

built up area of 3347.97 Sq meters.



Pointec is a 2 Start Export House with a capacity to manufacture and export nearly 2 million pens and 0.5 million mechanical pencils per day. Pointec is exporting to almost 45 Countries



Company Profile

Name: Pointec Pens and Energy Private Limited & Pointec Writing Instruments Pvt. Ltd.,

Business: Manufacturing of Pens, Mechanical pencils and Electricity

No of Employees: 464

Male: 270 Female: 175 PWD: 19

No of Units manufactured per annum:

Paper mate Ball Pens: 250 million

Paper mate Pencil: 100 million

Target Pen: 20 millionGel Pens: 25 millionITC Pencil: 12 million

Total Turnover: \$ 20 million

Business volume Newell Rubbermaid ITC To Unison/Target





Renowned Global Customers

Newell Rubbermaid Inc – Newell Rubbermaid USA.

Brands That Matter

Wal-Mart

K-Mart

Unison

Target – USA

Domestic Customers

ITC

Hindustan Pencils

and LINC

Presently company's major supplies about 80% to export and balance 20% to domestic

supplies













New Customers:













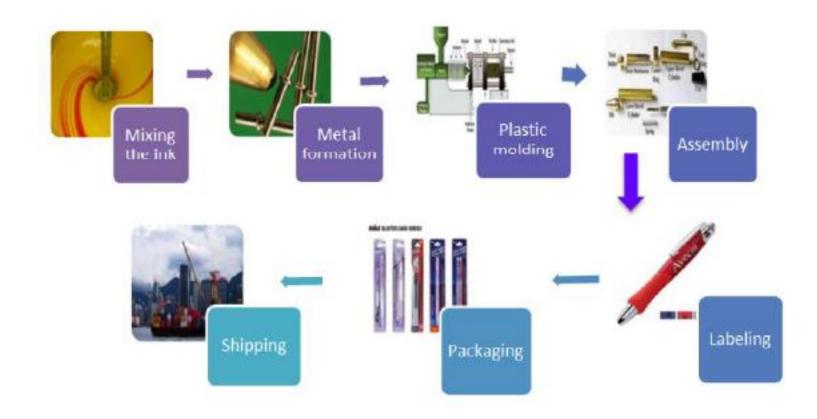


SHIPPING DESTINATIONS





Manufacturing Process-Pens





Strengths & Capabilities

TIPS & REFILL MANUFACTURING

MOLDING, EXTRUSION,
DESIGN OF MOLD, MOLD MAKING & MAINTENANCE



PEN AND MECHANICAL
PENCIL MANUFACTURING

ASSEMBLY, PRINTING & MACHINE BUILDING







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Sustainability !

- Aims to achieve self dependence on power generation
- Reduce carbon foot print
- Reduce wastages
- Work on self sustaining systems
- Provide environmental friendly solutions
- Provide employment for rural folks and improve rural economy
- Promote large scale afforestation program
- Promote Organic fertilizers



• To achieve self dependence in power generation





Mundargi Power Plant

Pointec has been working on Biomass based Renewable Energy Solutions for the past 5 yrs.

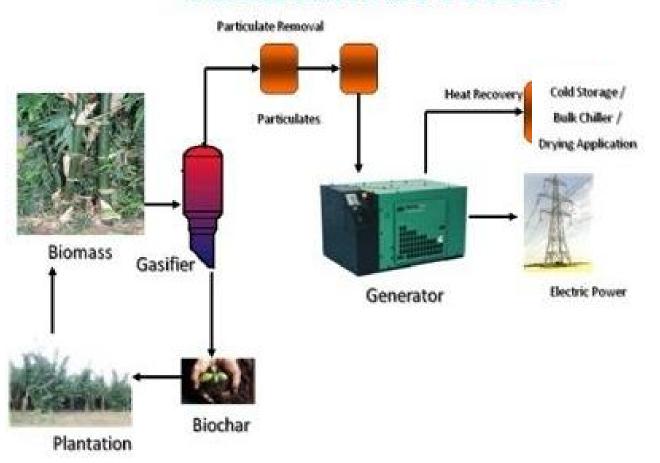
300 Kg Gasifier has been established and is in operation at Hosur for last 5 years

Has establishment a 2MW Power Plant in Gadag, North Karnataka again by using biomass gasification technology.



Reduce Carbon Foot print

Gasification Process



- Gasification is a process that converts carbonaceous materials, such as coal or biomass, into carbon monoxide and hydrogen by reacting the raw material at high temperatures with a controlled amount of oxygen.
- The resulting gas mixture is called Producer Gas and is itself a fuel.

Advantage of biomass based power system vs other technologies

- Gasification is the only system which is carbon negative in nature.
- Biomass used in gasification is the CO₂ trapped from the atmosphere.
- Extremely efficient method of extracting energy from biomass.
- Energy Efficiency more than 75%.
- Carbon generated in the form of Biochar can be sequestered and used as soil amendment for improving soil productivity.
- Small Plants of 25 KW using local resources can be set up using indigenous technologies.
- Continuous supply of power can be achieved using local resources.
- It not only helps industries but also contribute to rural development, employment, carbon sequestration, reduces foreign exchange and is sustainable.



Social and Other Benefits

- Green Energy Project
- Provides Much Needed Power
- Inclusive Project and Develops Rural Economy
- Reduces the role of non-renewable fossil fuels
- Devices such as Furnaces, Hot Air Dryers, Kilns, Boilers and thermic Fluid Heaters can be retrofitted, for cost effective generation of Thermal Energy
- Tri-Generation Capabilities for Generation of Power, Heat and Refrigeration

Power Plant at Hosur





300 Kgs/ Hour Gasifier



240 Kw Cummins Engine



2 MW power plant at Mundargi, Gadag.



Work on self-sustaining systems

- PoinTec implemented a policy to refrain dependency on forest produce for biomass and develop a self sustaining CAPTIVE ENERGY PLANTATION
- Developed Energy Plantations of fast growing, high yielding biomass trees like; Bamboo, Casuarina junghuniana and Melia dubia etc.
- To ensure continuous supply of quality planting material, a plant tissue culture lab for producing 10,000 bamboo saplings / day and Nursery with 5000 saplings per day was developed



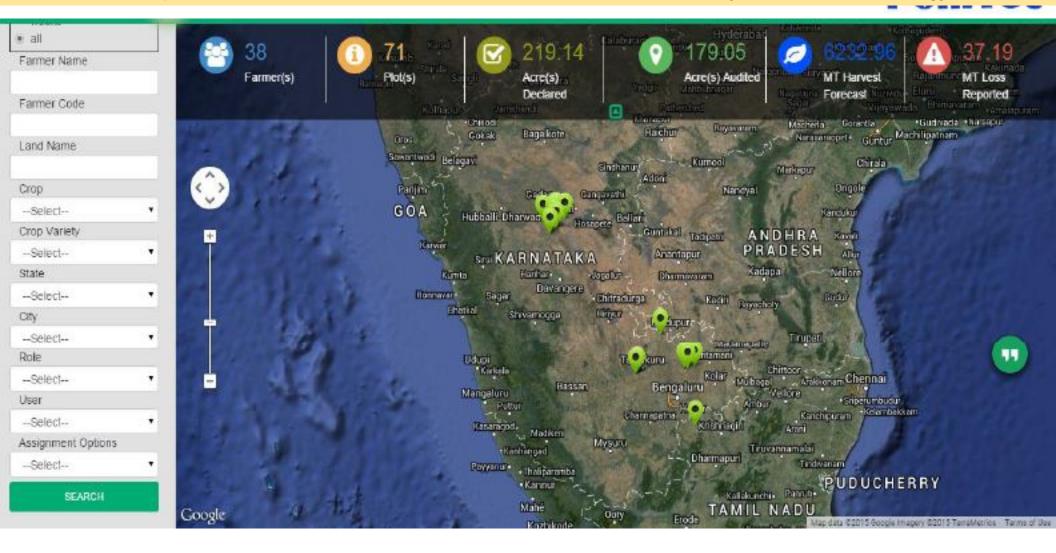
TissueCulture lab for Bamboo Production at Hosur

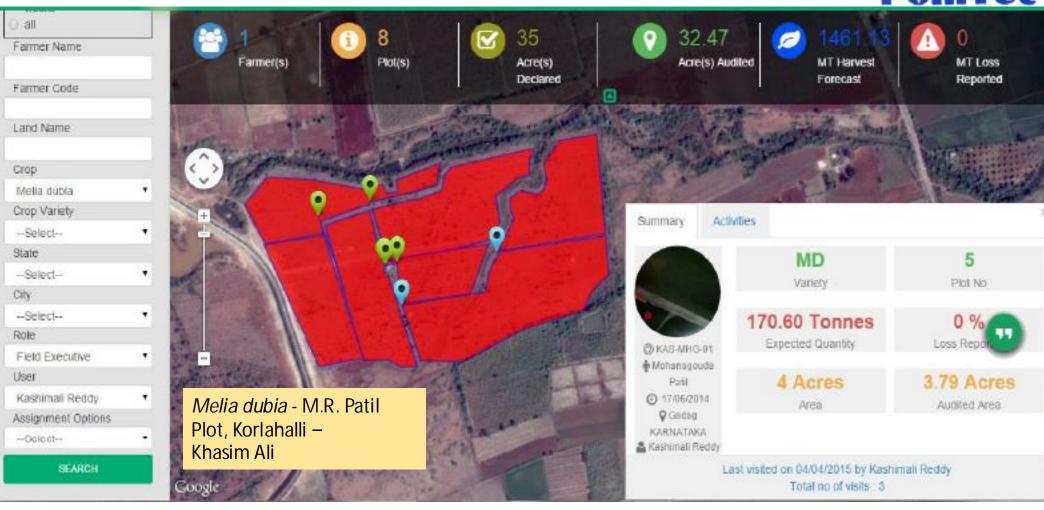






Overview of Captive Plantations and work sites at different locations in India by PoinTec Pens & Energy Pvt. Ltd.





Promote large scale afforestation programs

- CAPTIVE PLANTATION in the vicinity of power plant to ensure continuous supply of biomass
- Degraded land which was not being cultivated was taken on contract farming basis to cultivate both fuel and food crop using modern agricultural practices as well as to try out revolutionary concepts such as use of bio-char to enhance the soil quality.







Birds eye view of barren, degraded land in Shirol, Mundargi plots



308 acres of land reclaimed by Casuarina plantation at Shirol





Total Acreage under afforestation – 461.5 acres

| Area under plantation | | | | | |
|-----------------------|-----------|-------------|--------|-------|---------------|
| Location/ Species | Casuarina | Melia dubia | Bamboo | Mango | Total Acreage |
| Shirol | 136 | 4.5 | - | - | 140.5 |
| Byrapura | 10 | - | - | - | 10 |
| Kadkol | - | 40 | - | - | 40 |
| Kalkeri | 40 | - | - | - | 40 |
| Bidrahalli | - | - | 45 | - | 45 |
| Korlahalli | 2 | 32 | - | 32 | 66 |
| Gangapur | 120 | - | - | - | 120 |
| Total | 308 | 76.5 | 45 | 32 | 461.5 |

PRE PLANTING AND PLANTING OPERATIONS









Creating of water bodies – Rain water harvesting systems

Land leveling

Marking and Pitting

Scientific Planting Methods



Pre-planting Fertilizer Application



Imparting Training For The Laborers - Plantation Methodology



Laying of Drip Lines & Planting





Establishment of plants

1 Month Old Bamboo Plant





GROWTH

8 month Old Bamboo Plant



Bamboo Plantation



1 Year Old Bamboo Plantation intercropped with Banana











Present Status 25/8/2016



Present Status 25/8/2016



Land reclamation, afforestation & carbon sequestration





Land before reclamation

Land after Plantation

Production of Casuarina Quality Planting Material



SEEDLINGS



CUTTINGS



NURSERY

Casuarina Plantation Activities



Land Levelling and ploughing



Planting Activity

Field Establishment With Scientific Management







2 Month Old Plantation2.5 ft. height









8 Month OldPlantation8 ft. height





10 Month Old Plantation - 11 ft. height

PoinTec*



18 cm GBH in 12 months



20 cm Collar circumference in 12 months



















PoinTec*

Harvesting







Melia dubia



Sapling in a Polybag





4 months old 5ft. Melia dubia plantation at Gadag, Karnataka



9 months old 12ft. *Melia dubia* plantation at Gadag, Karnataka Tec



9 months old 12ft. *Melia dubia* plantation at Gadag, Karnataka



18 months — 20-25ft. Height; 12-16 inch GBH







30 Months old *Melia dubia* Tree



42 Months- 80 cm GBH

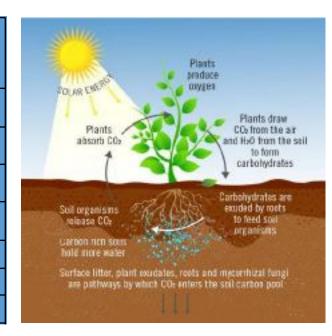






Carbon Sequestration Program

| | Acres | Plants / Acre | Weight in Kgs / Tree in 6 Years | Biomass / Acre in Kgs | Carbon / Acre in Kgs | Total Carbon Sequestered in Tons | CO2 Sequestered |
|-------------|-------|---|------------------------------------|--------------------------|-------------------------|--|--------------------|
| Casuarina | 308 | 1800 | 204.075 | 367335 | 220401 | 67,883.51 | 249,132.47 |
| Melia Dubia | 76.5 | 600 | 408.15 | 244890 | 146934 | 11,240.45 | 41,252.46 |
| Bamboo | 45 | 300 | 180 | 54000 | 32400 | 1,458.00 | 5,350.86 |
| Mango | 32 | 100 | 50 | 5000 | 3000 | 96.00 | 352.32 |
| | 461.5 | | | | | | 296,088.11 |
| | | | Average CO2 Sec | questered per | Year in Tons | | 49,348.02 |
| | | Average CO2 Sequestered per Acre per Year in Tons | | | | | 106.93 |

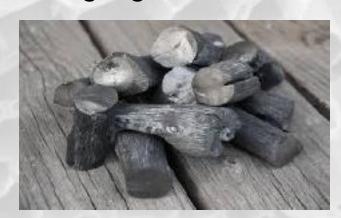




Develop environmental friendly solutions

Bio-char: a byproduct produced through gasification

- Biochar is the carbonaceous matter generated by partial combustion of biomass in controlled condition.
- Bio-char has a mean residence time in soils in the order of 1300–4000 years (Cheng et al. 2008, Liang et al. 2008).
- Carbon is stored in Biochar and not returned to the atmosphere. It can potentially be stored in Biochar for centuries, even millennia.



- There is one way we could save ourselves and that is through the massive burial of charcoal

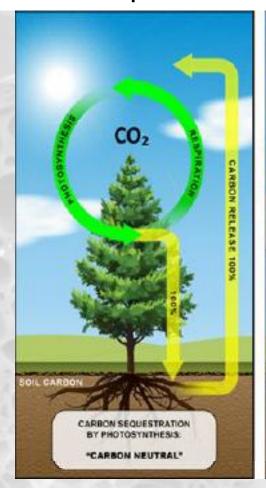
 James Lovelock, CH, CBE, FRS. (James Hansen, head of the NASA Goddard Institute for Space Studies)
- · The best solution for soil amendments and to enhancement of soil productivity

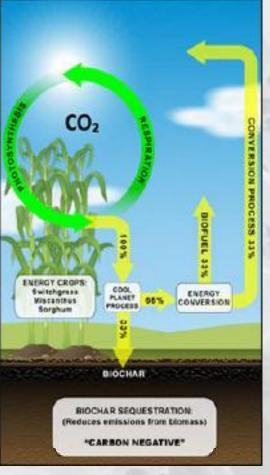


Bio-char: Solution for carbon sequestration

 Bio-char generation has the potential to reduce current global carbon emission by as much as 10 percent (Woolf et al. 2010).

 Growing of trees is carbon neutral, whereas, production of Biochar coupled with tree growing is carbon negative cycle

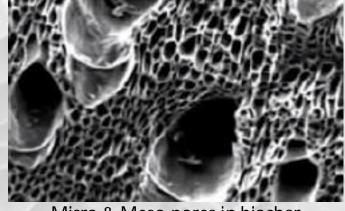






Biochar properties

- It has a very high surface area of 2000-3000m²/g.
- The large surface area of biochar can attract and hold all mineral ions - not only catio (+) such as ammonium, calcium, magnesium and potassium, but also anions (-) such as nitrogen, phosphorus, sulfur, and boron.
- These loosely-held nutrients are bio-available to microbes and plant roots in the complex root zone.
- Increases the soil organic matter.
- Helps as catalyst for uptake of nutrition and water for plants
- Provides large area for growth of beneficial micro organisms



Micro & Meso pores in biochar







Microbial colonization in micro and meso pores of biochar



PoinTec*

Develop environmental friendly solutions
 Novel & simple products developed



Charcoal –Residue from Gasification plant



Beneficial Microbes for composting



Coco Peat/Leaf Litter



Carbon rich organic compost



Gasification



Plantation



BCXFulvic Acid based Foliar Solution



&

Humic Acid based Rooting Solution

Patent filed for biochar compost, foliar and rooting solutions

PATENT OFFICE INTELLECTUAL PROPERTY RULLDING





INTELLECTE AL PROPERTY BUILDIN





No. Bak Yalid

Userid: girijasram

Bate/Time 2016/06/25 21:45:09

MS. GIRLIA

Docket No 33810

N. 203, Innovative Natura, Vineyaka Layont, Yelahanka

CER Detail:

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| N-8000201878 | Online Bank Transfer | R2004342598381850627 | 1490,00 | Hand of ALC NA. |
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Total Amount : * 1600

Amount in Words: Rupees One Thousand Six Hundred Only

Received from MS. GIRUA the sum of ²⁷ 1600 on account of Payment of the for above mentioned Application/Forms.

"This is a computer generated receipt, hecroe no signature required.

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Date/Time 2016/08/25 21:51:27

MS. GIRSIA

Docket No 33811

Userld: girijasram

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CBR Detail:

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Tetal Services - T. 12011

Amount in Words: Rupers Three Thousand Two Hundred Only

Received from MS, GIRIJA the sum of T 3200 on account of Payment of fee for above mentioned Application Forms.

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"BIOCAR - THE BLACK GOLD" WILL DOUBLE YOUR YIELDOWN Tec" REDUCE 50% FERTILIZER DEPENDENCY

Scientists explore biochar to nourish soil, reduce carbon emission

Dipankar Chakraborty bmfeedback@gmail.com

TWEETS @BangaloreMirror

ince plants first made their appearance on earth, they have been instrumental in creation of plant biomass by absorbing carbon dioxide from air through the process of photosynthesis using sun light. This biomass, once broken down by microorganisms or burnt, is released back to the earth's atmosphere in the form of carbon dioxide, one of the major Green House Gases (GHGs). Scientists now see hope in converting this carbon into a soil enriching, non-polluting product called biochar, to partially deal with the problem of carbon emission from agriculture soils through its long term storage or carbon sequestration.

Scientists in India and other parts of the globe have been worksion of carbon dioxide into the earth's atmosphere during the process of decomposition of plant biomass by subjecting it to a thermo-chemical conversion process or pyrolysis, at a low temperature in an oxygen-minus condition.



Bamboo clump before biochar compost application in Koppa in 2014

biochar, a fine-grained, carbonconverting carbon dioxide into biochar is a fool-proof way of protecting the earth against its refentless emission is still under investigation by scientists. But the biochar's usefulness in improving the soil's productive potentials by

The end product of this process is mixing it with organic compost is fast gaining currency. Bangaloreing on ways to contain the emis-rich and porous product. Whether based scientist. Dr Syam Viswanath, have been spearheading research in this direction.

> "Sustainable biochar systems can be carbon negative by transforming the carbon in the biomass into stable carbon structures in biochar, which can remain



Fully emerged culms in the bamboo clump in November 2015

WHAT IS BIOCHAR

It is charcoal produced from plant matter and stored in the soil as a means of removing carbon dioxide from the atmosphere.

sequestered in soils for hundreds or thousands of years. The main quality of biochar that makes it an attractive soil amendment is its ate electricity to run the Pen manhighly porous structure, considered responsible for improving the water retention capacity of the soil and increased surface area. of the biochar, a nanomaterial," Dr Viswanth told Bangalore bamboo species. Mirror, One gram of biochar has a surface area equivalent to 400 square metre, the size of a football

Scientific experiments aimed at establishing the efficacy of biochar as a soil nourishing agent growth of culms almost doubled," being conducted under the aegis said Dr Viswanath. of the Institute of Wood Science and Technology (IWST) have, so Rathore, said numerous studies far, vielded encouraging results. across the world have established Working in tandem with a citybased commercial biochar pro- cultural productivity and mitiduction company (Pointec Pens and Energy, Attebele), a team of

IWST scientists have been able to establish the efficacy of the product in developing better quality bamboo shoots.

The compost is made by mixing biochar with microbial and compost enriched with effective microorganism. For experiment purposes, scientists procured biochar compost from the company. Biochar is a by-product of the gasification process used to generufacturing factory in Attebele. Inorganic fertilizers, compost and biochar were mixed in different combinations for speeding up shoot production in six different

"The inputs were applied on six-year old clumps developed at the IWST Gottipura-based field station in Hosakote. The results have been impressive in Koppa. Chikmangalore, where the

Director of the IWSE, Dr T S that use of biochar increases agrigates GHG emissions from agricultural soils.

PoinTec*

Report on "Effect of BCX products on growth, yield and fruit composition in grapes" – carried out by Indian Institute of Horticulture Research, (ICAR)



Effect of BCX products on growth, yield and fruit composition parameters of grape vc. Flame Seedless

This experiment was conducted in 12 year old vineyard of Flame Seedless grapes. The vines were planted at 10 X 6 spacing and trained on Y trellises at ICAR-IIHR, Bengaluru during 2015-16. The treatment details are as follows:

After pruning, the BCX Biochar compost was applied @ 5 kg per vine. When the shoots attained the 5 leaf stage, the first BCX rooting solution was drenched to soil @ 5 ml/litre and it was repeated every week for 10 times. Similarly about 12 sprays of BCX foliar solution was sprayed to vines @ 5ml / litre every week. The last spray was given about 2 weeks before harvesting. The results of the parameters studied were compared with the untreated control vines.

Some of the observations recorded and the changes in those parameters against control vines are as follows:

| Parameters | BCX treated | Control | % increase or decrease over control |
|---------------------------------|-------------|---------|---|
| Chlorophyll content (mg/g) | 0.0229 | 0.0192 | +16.05 |
| Leaf area (cm²) | 228.48 | 182.31 | +20.20 |
| 50 berry weight (g) | 191.84 | 175.34 | +8.60 |
| Average bunch weight (g) | 335.60 | 286.75 | +14.55 |
| Berry diameter (mm) | 18.21 | 17.75 | +2.52 |
| Berry length (mm) | 19.26 | 18.41 | +4.41 |
| TSS (°B) | 16.59 | 16.05 | +3.25 |
| Acidity (%) | 0.501 | 0.541 | -7.98 |
| Berry volume (cm ²) | 3.65 | 3.03 | +16.98 |
| Yield per vine (kg) | 10.30 | 9.30 | +9.70 |
| Yield per acre (t) | 7.45 | 6.75 | +9.39 |

From the table it is indicative that the vines treated with BCX products like compost, rooting solution and foliar sprays have influenced the above recorded parameters positively with increased yield per acre of Flame Seedless grapes by about 9.39 %.



dresmirstine....



Bamboo fiber composites



Plastic Waste Generation & Disposal

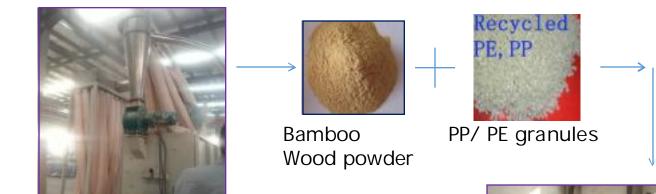
- ► India Generates 15,000 Tons of Plastic Waste Every Day
- ► Disposal of Plastic Waste is beset with problems
- Indiscriminate disposal of plastic waste on land makes the land infertile due to its barrier properties
- ► Burning of plastics generates toxic emissions such as Carbon Monoxide, Chlorine, Hydrochloric Acid, Dioxin, Furans, Amines, Nitrides, Styrene, Benzene, 1, 3-butadiene, CCl4, and Acetaldehyde.
- Recycling industries operating in non-conforming areas are posing threat to environment



Problems related to Wood & Bamboo

- ► Shrinkage and Swelling of Wood
- ► Deterioration of Wood due to Biotic and Abiotic agents
 - ► Biotic agents include decay and mold fungi, bacteria and insects.
 - ► Abiotic agents include sun, wind, water, certain chemicals and fire.
- **►** Moisture
- **►** Fungi
- ► Insect Attack





Bamboo Wood Pulverize

Additives +

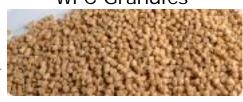
Granulating Extruder





MIXER

WPC Granules



WPC -PROCESS FLOW

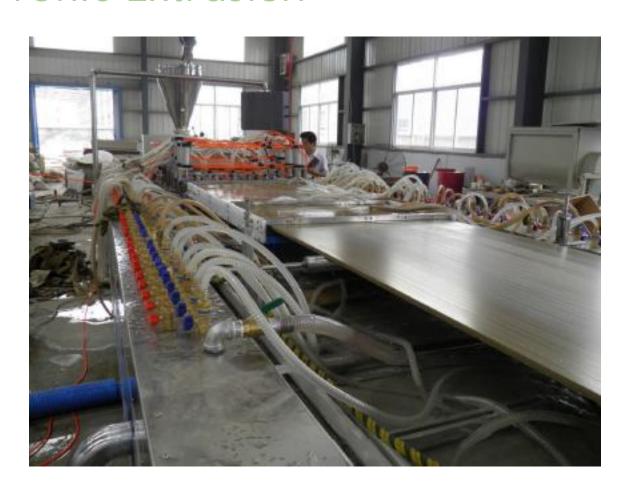


Bamboo Plastic Composite Granules



PoinTec*

Profile Extrusion





Bamboo Plastic Composites

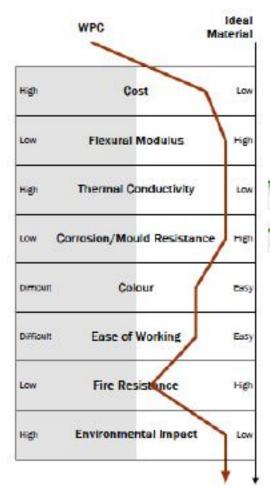
- ▶Bamboo-Plastics Composites (BPC) covers an extremely wide range of composite materials using plastics ranging from polypropylene to PVC, Binders and Bamboo Dust.
- ▶The most common types of the new BPCs are produced by mixing Bamboo flour and plastics to produce a material that can be processed just like a plastic but has the best features of wood and plastics.
- The recycling ethos is to use materials recovered from short life cycle applications in long life cycle applications



Bamboo Plastic Composites Benefits

- ▶BPCs combine the best features of wood and plastics.
- ▶BPCs can produce the final shape through extrusion or moulding process.
- ▶BPCs are weather, water and mould resistant for outdoor applications where untreated timber products are unsuitable.
- ▶BPCs are plastic products with exceptional environmental credential and performance.





Why BPC is Ideal Material for many applications?



BPC Applications



Decking

- Docks
- railings

Kitchen cabinets and work tops

- stairs
- Hand rails

Window frames and components

- fencing
- Fence posts











































PoinTec*

BPC Pens, Mechanical Pencils and Pen Stands









Opportunity to reach global demand

- According to Economic Times Feb 19, 2016,
- IKEA to make India global sourcing hub for bamboo products
- Furniture made from bamboo, accounts for about 1% of Ikea's global sales of EUR 30 billion (about Rs 2,28,600 crore), and is mainly sourced from Indonesia, China and other far east countries.
- Ikea has recently partnered with a bamboo grower in Bangalore and is looking at roping in at least a dozen suppliers from primarily north-eastern states. The firm is in talks with a few state governments to incentivise bamboo cultivation and supply. Ikea is responsible for approximately 1% of world commercial-product wood consumption, making it one of the largest users of wood in the retail sector.



1.0 REQUIREMENT OF CHOPPING BOARDS

BUTCHER'S BLOCK / ANNUM





a) APTITLIG BUTCHER'S BLOCK 60233431 APT 3:

32,000 PCS

b) APTITLIG CHOPPING BOARD 20233428 APT 2:

64,000 PCS

c) APTITLIG CHOPPING BOARD 40233427 APT 1:

89,000PCS

PoinTec*

Two species of bamboo for IKEA project

- 1. Bambusa balcooa a high biomass yielding bamboo
- 2. Dendrocalamus asper thicker culm wall, best for Edge glued bamboo boards

Ikea to make India global sourcing hub for bamboo products

By Meta Tyogi & Sagar Malviya, ET Bureau | Feb 19, 2016, 06:12 AM IST

Post a Comment

READ MORE ON a make in India [Ikea | global sourcing hub | bamboo products.

MUMBAI: Ikea, the world's largest furniture retailer, plans to make India its global sourcing hub for bamboo products as part of its strategy to increase bamboo product portfolio across its stores.

Furniture made from bamboo, one of the fastest-growing plants, accounts for about 1% of likea's global sales of EUR 30 billion (about Rs 2,28,600 crore), and is mainly sourced from Indonesia, China and other far east countries. The Swedish retailer known for its ready to assemble products now wants to change that.



Wee to make India global sourcing hub for hamboo products

"We believe India can be the game changer in the bamboo furniture industry. India can be the leading bamboo furniture producer in the world if they get it together," said Patrik. Antony, communications manager at like

Ikea has recently partnered with a bamboo grower in Bangalore and is looking at roping at least a dozen suppliers from primarily north-eastern states. The firm is in talks with a few state governments to incentivise bamboo cultivation and supply. Ikea is responsible for approximately 1% of world commercial-product wood consumption, making it one of the largest users of wood in the retail sector.

Ikea will open its first Indian store early next year in Hyderabad. It plans to open 25 store — each large enough to fit about four football fields — in the country by 2025.





Research Projects with Central Govt. Research Institutes

- Gasification systems with IISc.
- Field trials on yield improvements in horticulture crops with IIHR.
- Development of better wood drying systems with IWST.
- Field trials on control of pest and diseases in horticulture crops with IIHR.
- Identification of better *Melia dubia* clones for an all India coordinated progeny trail project IWST.
- Formulation of fertigation treatment in Melia dubia with IWST.



Further Plans/Opportunities

- To develop self sustaining gasifier based power generation systems in every taluks
- Popularise afforestation program
- Promote biochar based organic farming
- Improve agriculture productivity
- Provide employment for rural folks
- Provide better opportunity for upliftment of villages
- Provide cold storages systems at every gasification system for better ware house of farm produce

PoinTec*





After



Problem Description: 50 CFL bulbs used during day at unit-4 for production . Each 80 watt bulb Improvement Made:

Transparent sheets replaced at strategic location in unit-4 and used natural light. LED bulbs are being replaced in place of CFL

Benefit: 96 units saved per day

Sustenance: By following 5 S activity

PoinTec*

<u>Before</u>

not Exists

Problem Description: Old septic tank, once in 2 year needs to be cleaned, tedious process, bad smell will come frequently

Affec

Improvement Made: Sewage treatment plant set up purifies the water which can be recycled for garden

Benefit: More than 1 lakh liter water recycled

Sustenance: EHS audit







- 1. Women Empowerment through SELF HELP GROUPS
- 2. Supporting Persons with disability by employment program as well as SHG concept





SELF HELP GROUP(SHG)?

Self Help Group (SHG) is a group of 12 to 20 women of the same socio-economic background who come forward voluntarily to work together for their own up lift-ment. The unique feature of the SHG is its ability to inculcate among its members sound habits of thrift, savings and banking.







SUB ASSEMBLY OF PENS & MECHANICAL PENCILS WITH HELP OF SHG'S

- SUB ASSEMBLIES OF PEN'S PARTS
 MECHANICAL PENCIL ASSEMBLY
 LENDS ITSELF FOR MANUAL
 OPERATION
- SKILL LEVEL REQUIRED IS MINIMAL
- FLEXIBLE DEMAND CAN BE MET
- FULFILLMENT OF CORPORATE SOCIAL RESPONSIBILITY





WHY Self Help Groups?



Members engaged are unable to go out and work due to following reasons



Lack of educational qualifications , Skills etc



Young mothers who have to take care of infants and children



Non availability of transportation



Old infirm and unfit for physical activities

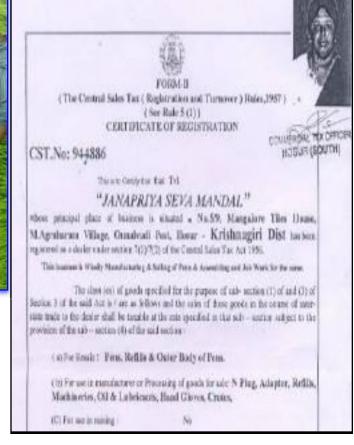


Social and Religious reasons





JANAPRIYA SEVA MANDALI



JSM is one such NGO registered with Tamilnadu Government which has an agreement to do assembly operations through SHGs associated with it.

Janapriya Seva Mandali has organized totally 20 such groups consisting of 15-20 members in each group.

Totally 400 nos of women members are associated with Janapriya Seva Mandali.





HOW POINTEC OPERATES SHG MEMBERS

- Pointec will get assembled pencils along with inspection report from each SHG.
- Pointec will give training to one special member in each SHG who will in turn inspect the pencils as per GIL -2 AQL -0.065
- Pointec will inspect all the pencils and keeps the record of rejections
 SHG wise as well as members wise.



How Assembly Of Pencils Take Place at SHG





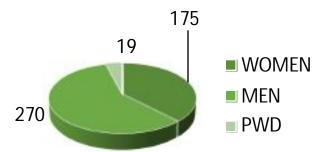
GROUPOF WOMEN DOING ASSEMLY





Employment to Special Abilities

NO OF EMPLOYEES







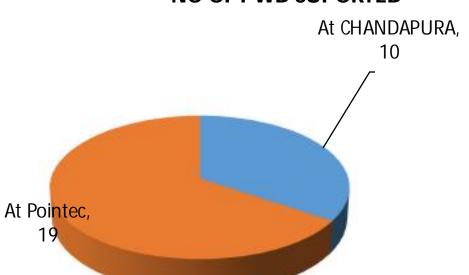




Total PWD's Supported



NO OF PWD SUPORTED







Women Empowerment- First among 150 Countries



HOME ABOUT IS THENE

Global Women's Economic Empowerment Initiative

To further the cause of empowering female garment factory workers to create a productive workforce, Swasti with the support of the Vol-Mart Foundation, has been implementing the Global. Worsel's Ensounic Empowerment initiative. By 2016, this program aims to reach \$0,000 women who work in factories that supply products to Vol-Mart and other retailers. The program will be implemented in 150 factories in India, Bangladesh, Hondurus, El-Salvador and China. In India, the program is Implemented by Swasti in 15 factories across the three states of Harnataka, Gujarot and Tornil Nadu and has so far reached to about 11,876 factory welders.



Swart, is the implementing partner for 1/si-Aurt Foundation in India. Swart's focus is on building capacities of women womens among natures to require their one sense, mere increases and continues as improving their practices and work culture necessary to enhance their productivity and career advancement leading to economic.





CORPORATE SOCIAL RESPONSIBILITY



















PoinTec is associated with premier institutes like Indian Institute of Science, Institute of Wood Science & Technology and NIST etc for technological upgrading and also recognized by Premier Institute like Essae Chandran Institute for TPM initiatives.







Pointec got "SHELL HELEN KELLER" award in 2011 by National Centre for Promotion of Employment for Disabled People



THANK YOU

We're running the most dangerous experiment in history right now, which is to see how much carbon dioxide the atmosphere... can handle before there is an environmental catastrophe. Elon Musk

"The best time to plant a tree was 20 years ago.
The second best time is now." – Chinese Proverb