

SARVESH ENGINEERING



PRESENTATION ON WOOD PLASTIC COMPOSITE PROJECT.

An effective way to minimize the pollution caused by burning Agricultural by products, and converting them in to high value finish products.

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We aim at

- Helping business to use scarce resources carefully, effectively and efficiently,
- Minimize waste,
- To use more recycled materials, recycle more and often,

Our role

To minimize the production of waste by consumers and maximize the recycling of materials.

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WOOD PLASTIC COMPOSITE

As indicated by name WOOD PLASTIC COMPOSITE (WPC) is a combination of wood and plastic extruded together or moulded together in different forms. Agricultural waste like Rice husk, Straw, Bugasse etc can also be blended with Plastics for making WPC.

WPC is relatively new materials specially for Indian markets, where as it is widely used in other parts of world.

WPC is weather proof, rigid, can be machined and screwed for fabrication purpose, and recycled at least 5 times. WPC uses up to 70% composite materials and 30% of plastics.

WPC can be used for heat and sound insulation, In-door and outdoor applications, Furniture, low cost housing, decking purpose, in building and construction use etc.

WPC is free from Formaldehyde, benzene and other harmful substances.

WPC is non radioactive materials.

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PROCESS OF WPC.

WPC is processed in three stages –

- 1) Blending the composite materials with plastic to form a materials for WPC.
- 2) Extruding or Moulding the WPC in to the desired shape.
- 3) Post finishing operation.

The WPC can be used without post finishing operation, however in the post finishing sanding, skinning, lamination etc is done to make the product appealing.

Special additives are used in the manufacturing process to blend the materials.

Different additives at varying quantities are used so that the WPC compound/Product being made can be customised according to weather which it will face and the durability desired in there.

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WPC is made of

Wood flour,
Wood chips,
Saw dust,
Rice husk,
Cotton,
Plant stalk powder,
Bagasse,
Bamboo,
Scrap/Recycled thermos plastics – HDPE,
LDPE, PP, PVC etc.

What comes out as a WPC?

Outdoor floor decking, railings, Fences, park benches, roofing, sheds, Portable cabins, Pallettes, window & door frames, Indoor panels, Furniture, Flooring, Stair case, High way construction, Railway sleepers, Play areas, Portable toilets, temporary housings, pre-fab housing, play ground equipment, site & leisure furniture, insulation and finish systems, Chicken coops, Automotive industry products, building and building construction products etc.

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WPC MAIN USE

Interior decoration, furniture, falls sealing etc.

Outdoor use, decking, railing, garden furniture etc.

Construction lumber & boards,

Industrial use, low level heat and sound proofing partitioning, cabine dividers, mazine flooring etc.

WPC ADVANTAGES

Natural materials are used

Various colours possible.

Anti surge, anti mil-dew, anti decay,

Heat and sound insulation,

Anti aging, fire retardant

Non radio active materials

Green materials, as no harmful gases or substances.

Can be recycled 100% after life.

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WPC MARKET IN INDIA.

Currently in India, the market mainly exist for exterior finishing.

Majority of the star hotels, restaurants, swimming pools, and fitness clubs use WPC for exterior decking and wall cladding.

The furniture industry is increasing use of WPC for chairs, shelves, kitchen cabinets, book shelves, wardrobe etc.

So far WPC is not used for shuttering purpose in India, although it is used extensively in overseas.

Castings with WPC gives very good finish and does not require further surface treatment like plastering, saving huge labour, materials and cost.

There is huge scope for WPC in costal area where exterior items degrade easily due to extreme climates. WPC is touted as good option as it is highly durable and requires least maintenance.

WPC is very popular in Middle east, Australian, European and American market.

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With more than 2 million tons of plastic being processed every year in India, and India's forest cover being 21% instead of an ideal 33%, WPC is the most ideal materials that can substitute wood for durability and that can substitute plastic for flexibility.

From manufacturers perspective it is 100% clean business, with no by products or pollution.

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SCOPE OF SUPPLY.

Techno commercial report and feasibility study.
Capacity planning,
Equipment selection,
Negotiation with suppliers,
Order preparation,
Supply of plant layout, & utility layout,
Equipment testing prior shipment,
Assistance in installation & commissioning by service engineer,
Product optimization,
Training,
Systems for control
Follow up.

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OUR PROFILE

MR. Nandkishor Sarolkar is a Mechanical engineer, backed up with post graduation in Management (Production and Marketing management, two principle subjects), having wide experience of about 40 years in industry of repute (20 years over seas experience).

Mr. Sarolkar is well aware of Mechanical, Hydraulic, Pneumatic and electrical systems. Having hands on experience in power generation and power distribution (LT side).

Mr. Sarolkar was nominated member of Kenya Bureau of standards.

Last designation as a CEO/Managing director of Bericap India Pvt. Ltd., MNC with head quarters at Germany, having 21 manufacturing plants world wide, with in house tool development and R & D centres. “Bericap” is well known name in plastics caps and closures. “Bericap” is preferred supplier of major brand owners.

Mr. Sarolkar is owner of eight no of design registration (IP) in India.

Mr. Sarolkar has successfully executed a strategic alliance of European business house with Pune based company for manufacturing Solar Modules in Pune.

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CONTACT DETAILS.

PL. Feel free to contact us, should you require additional information on the subject.

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