Brighter Every Way
This is Emmbi

From humble beginnings when we started with one small polymer extrusion plant in the relatively distant Silvassa in 1994, Emmbi Industries has grown to one of India’s largest specialty polymer processing company. And what an exhilarating journey it has been! In two short decades, Emmbi Industries has metamorphosed from a small operation with less than ten team members and a handful of customers to a company that supports over 2,000 families and one that’s trusted by over 180 customers in 50 countries around the world. If there is one thing that has stood us in good stead in this journey, it is our steadfast belief in the principles that guide us.

As individuals.
As a team.
And as a movement.
**Question Convention.** At Emmbi, we seldom take “no” for an answer. And we question everything. After all, just because someone says, “that’s the way it always has been” need not mean that it's the way it should be. It is this attitude that has led us to push our limits in delivering superior value to our customers, partners, shareholders and employees alike.

**Listen.** And then, listen some more. There’s a difference between hearing and listening. And while everyone hears what the customer says, we go a step forward. We anticipate the customer’s problems, sometimes even before the customer knows that they might come up. So when they do, we’ve got a solution ready. Just like that.

**Quality is the best business strategy.** Quite simply, good quality has no substitute. And while competing on cost is the easiest thing to do, we prefer competing on value instead. So, you will find our team ever ready to work at cutting costs. But never, corners.

**Respect begets respect.** Yes, our customers are important. But we hold the nation, the environment and the society at large in equally high regard. You’ll find this reflected in the initiatives that we undertake in the villages surrounding our factories, the methods that we use in manufacturing our products and the attitude of our employees when they deal with our customers and partners.

Indeed, we believe that these principles that have stood us in good stead over the last two decades, will lead us to greater glory in the next twenty. Our vision, ultimately, is to be a global leader in the field of woven polymer-based products in multi-faceted applications. We believe that we can achieve this through our in-depth knowledge of polymer processing, and employing the best manufacturing processes, which we will augment with innovative product applications to increase the nation’s sustainability and growth. Of course, our commitment to precious environmental resources is evident in the fact that we constantly work towards achieving the highest yield per kg polymer used in our products.
Innovation.
At the heart of everything we do.

At Emmbi, we realize that every problem is slightly different from the one before it, as is every customer’s requirement. Which is why, we never offer a “one size fits all” solution to our customers. Every customer and indeed, every order, is preceded by a thorough understanding of the customer’s needs, problems and the limitations with the current approach to solving those problems. Perhaps it is this consultative approach that has led us to think up solutions that are innovative, flexible and tailor-made for a customer and the situation at hand.

The Whizz
A symbol that embodies the Emmbi spirit

These two traits – innovation and flexibility – are embodied in our new brand identity. Our symbol (which we call the “Whizz”) is made up of three ribbons in an upward, swirling motion. The ribbons embody the freedom and the flexibility to take on any shape and any form and to fit in any situation, quite like our flexible approach when designing products for your requirement. The upward slant of the three ribbons represents our ambition and vision to become one of the world’s foremost specialty polymer processing company. At the same time, the ribbons are in a constant circular motion, representative of our global reach and the belief that “what goes around, comes around”. The colors of our symbol represent the traits we as an organization are proud of. Golden Yellow stands for the optimism and the energy that we bring to the table while working on your problem. The green embodies freshness in our thoughts and ideas. It also stands for the responsibility we feel towards the environment and our planet. Finally, the blue represents the loyalty that we bring to our customers, partners, shareholders and employees alike.

The name Emmbi is derived from the initials M and B from our founder’s father’s name, Mr M B Apparao. It is our enduring mark of respect to the role of our elders in our success today. After all, if it were not for their support, Emmbi would have remained but a distant gleam in our founder’s eye.
Teamwork.
Because one of us is never as good as all of us.

Great ideas remain just ideas unless they have a critical mass of people behind them, moving heaven and earth to make them a reality. At Emmbi, we believe in putting the collective might of all our able team members behind a solution. So, we’re able to offer you products and services that do the job better, cost less and cause little or no damage to the environment. At Emmbi, we have a team of the best and the brightest minds in business, working together to provide you the best solutions for your problems.

Commitment is our middle name
Great ideas remain just ideas unless there’s a committed team of people behind them, bent upon making them a reality. And that is exactly what you’ll find at Emmbi. Whether it is the sheer dint of hard work on our founding team’s part that saw Emmbi Industries grow from a small-scale enterprise to a force to reckon with, or the out-of-the-box thinking on the part of our R&D team’s part that constantly works at creating innovative solutions. Or, the belief and the ownership that our large team of workers in our factory takes on, while working on your problem.
At Emmbi, we think of ourselves as one big family with one common goal that binds us all - giving you a product or service that best solves your problem.
Infrastructure.

This strategic location is complemented perfectly with the best of manufacturing equipment:

Because good ideas need the proper environment to flourish.

When innovation and teamwork meet world-class infrastructure, the good ideas begin to morph into great solutions. Solutions that are tailor-made for your requirement. So, when we set up our manufacturing facilities in the Union Territory of Dadra and Nagar Haveli, we ensured that each piece of equipment that went in there was state-of-the-art.

Emmobi Industries has a fully equipped manufacturing facility that’s spread over 200,000 square feet of space on a lush green 7-acre campus. The location of our manufacturing facility, about 180 KM from Mumbai, puts it at a comfortable 4-hour distance to the JNPT Port near Mumbai, and an 8-10 hour distance to the Mundra and Pipavav ports. The nearest airport at Mumbai is a mere 3 hours away while the closest railhead at Vapi is hardly 30 minutes away. This strategic location translates into smoother and quicker deliveries to our customers - both, global and national.

Extrusion:

The first stage in woven polymer processing is achieved with a 1,500 MT per month capacity on world-class Raffia extrusion lines. Equipped with the best-in-class equipment from Koksile, Lohia and Starlinger, our extrusion feature all the necessary features like melt pumps, static mixers, capacitance gauging of film, automatic dosing mixing and low shrinkage conditioning. In fact, Emmobi has one of the few fully integrated plants in the world, which gives us the advantage of retaining a superior degree of control, and allows us to customize our products to your requirements.
Weaving:
The state-of-the-art extrusion lines are complemented perfectly by a range of 4-shuttle and 8-shuttle circular looms that are capable of weaving fabric in every possible size – from as small as 14" diameter to as large as 82" diameter (both tubular). Of course, should the need arise, we’re perfectly capable of weaving up to 164" lay-flat fabric. And all of this in a range that extends from 7x7 to 18x18 mesh. In fact, we operate over 108 weaving machines every day!

Webbing:
With an eye on customization of solutions, we’ve augmented our extrusion and weaving capabilities with 90 heads of webbing machines that can weave webbing from 6mm to 90mm in size, and 60KGF to 3,000KGF in strength. Needless to say, this webbing can be completely customized in terms of patterns, colors and textures.
Infrastructure

Liner Development:
We realized the need for providing weather-resistant transportation solutions early on. Which is why, we went ahead and put up India’s largest liner blowing machine at our factory, with a liner-making capacity of 300 MT per month. This machine is capable of producing up to 5.2 meters lay-flat sheets, from 20 to 400 microns in thickness. Should your requirement demand it, we can make “form fit” liners that are fitted with the FIBCs either as a loose tab fitting, or glued to it. In fact, we can also make Anti-static, ALfoil and even uncontaminated food-grade liners with the best possible barrier properties for your FIBCs, at the optimal cost.

Extrusion Coating:
When your situation demands a coated product we’re able to deliver, thanks to our extrusion coating machinery. With an installed capacity of 180 MT/month, our machinery can deliver coated product solutions up to 2.2 meters wide, with an added capability of sandwich-coating that’s used for BOPP film coated bags and HDPE/PP coated bags. Our coating plants are fitted with automatic laser sensing and edge-trimming devices that allow for narrow edge trim cutting. Pre-heating for heavy gauge FIBC fabric and post lamination perforation / gusseting is a standard fitment.

Printing Section
Over 300 stitching machines from Juki (Japan), Union Special (USA), Orson (Turkey) and Gabber (India) provide the widest possible stitching capabilities – miracle + safety pattern, single and two-needle lock stitch, two-needle chain stitch, single, double and triple-shift proofing etc. The printing section, on the other hand, uses one 6-color automatic cutting and printing machine to deliver a variety of printing requirements. This machine has the capability for corona treatment of up to 42 dyne with infrared heating elements, resulting in quicker drying of ink as also, better ink anchorage to prevent scuffing during transit. The automatic machine is complemented with five manual machines that are capable in printing from one to three colors in ranges up to 60” wide and 80” in length. Where required, we use the services of our printing associates to print up to 8 colors on rotogravure machines (especially for BOPP coated bags).
Twisting and Filler Cords:
At Emmbi, we believe that a complete control on the entire manufacturing process is necessary if we are to provide our customers with totally customized solutions. Which is why, we have an in-house facility for fibrillating and twisting our own stitching yarn. Our twisting section can produce 2,000 kg of stitching yarn, from 200 to 8,000 Deniers in strength, every day. Similarly, our in-house filler cord section can manufacture cords from 2 to 6 mm in diameter.

Packing & Coding Section
We have State of the Art Packaging facility for making bales with pallet or without pallet. We have 8 bale presses from capacity of 10 tonnes to 110 tonnes. These machines produce the bales of Exactly Same Sizes and dimensions. This improves the stackability of the Bales while in storage area. We have two Coding Docks where the forklift can drive inside the container and place the bales in optimal pattern. We also have a USFDA approved fumigation facility.
Garden Waste Bags, Pallet-less FIBCs, Woven and Film-type Container Liners, Geo Textiles, VCI Fabrics, Ground Covers, Specialty FIBCs, and many more PP products are made in these facilities, with over 300 stitching machines and other support machinery working 24x7x365! Our automatic cutting machines with online spout cutting devices are capable of delivering 2,000 cuts per machine per day. All this makes our FIBC facility one of the best in India – and indeed, the world.

FIBC Assembly:
Here’s where the fabric we weave and the webbing we make comes together in the final product. Emmbi Industries operates three facilities for FIBCs at Silvassa. These three facilities allow us to make virtually every kind of FIBC that you might require – circular as well as U+2 panel bags. The entire range – Type A, Type B, Type C Conductive FIBCs, Q-Bags/Baffle Bags, Single- and Two- and Four-loop bags.
Quality.
There’s simply no better business strategy.
At Emmbi we have a simple philosophy that guides our marketing effort – give the customer a great product at an acceptable cost and he’ll not only keep coming back but he’ll spread the good word around. So, while we keep striving hard to cut costs (and hence, the price to our customers), we never cut corners.
Making certified products with the lowest fabric weight (GSM) and the highest safe working load rating is a goal that we’ve constantly aimed for. And to help us achieve those standards, we’ve put in place a comprehensive quality management system that ensures complete traceability. Our facilities have completely updated test labs with a range of equipment like a Tensile Testing Rig, Automatic Irradiance Control Weatherometer, Dart Impact Tester and Light-selective Color Matching Booths to ensure the best quality and consistency in our products.

Universal Testing Rig with individual load cell for each loop. This helps exact pinpointing in the design parameter. Also, it is capable of doing companion test.
Tailor-made Products
There’s one for every need.

Whether you’re a maker of consumer goods or an importer/exporter of large consignments of commodities, at Emmbi your requirements are neither too big, nor too small for us. And we have a product in our portfolio that meets your exact needs.

Maker of corrosive chemicals? No problem! Our VCI packaging solutions let you transport your wares safely and efficiently. Looking for specialty Geo Textiles for road-building and similar applications? We’ve got just the thing for you. In fact, we also make a range of products that aid in water conservation and the efficient, hygienic and cost-effective transportation of water!

From FIBC Bags to Sacks, Container Liners to Specialty Fabrics, VCI Packaging to AquaSave - each of our products is customized to your needs, while putting in our best to make them strong, reliable and eco-friendly.

We are producing around six hundred thousand FIBCS per month. Apart from U-2 & Circular design bags, we specialize in Baffle bag, UN certified Bags, Single & Two Loop bags. In addition to standard FIBCS, we take pride in offering proprietary technology, modified carbon graphite polymer chain compound type “C” bags and chopped strand technology based static dissipative type “D” bags.

Under the brand BOX we specialize in Container Liners for 20’ & 40’ containers. We produce the liners made out of woven PP, woven PE and PE Film. These liners are suitable for carrying dry bulk cargo such as polymers, cement, fertilizers, and various other granular materials. We have world class technology to produce PE film based liquid container liners. Some of the other products we produce under this brand are Garden waste bags, Rectangular bale covers & Automobile covers.

Many buildings contain asbestos, which was used in spray-applied flame retardant, thermal system insulation, and in a variety of other materials. Only a special Packaging product that’s designed for asbestos containment (class I) can be safely used when cleaning up during and after asbestos removal.

We are producing more than one hundred thousand Sacks per day of different quality from 14 to 90 inch tubular width, from 500 to 1200 denier. Bags can be of different texture such as uncoated, extrusion coated and multi-color BOPP coated.

Understanding its responsibility towards Mother Nature, Emmbi is happy to offer its eco friendly brand AquaSave. The AQUA SAVE range of products, helps in conservation transportations & storage of water and various other liquids.

As the name suggests, “Shield” is a highly sophisticated Vapor Corrosion Inhibitor Anti-corrosive packaging material. VCI chemical with very high surface tension is impregnated in different types of polymer substrates to get perfect anti corrosive property. This material is available in the form of Woven PE bags, PE Sheets, PE Films & Bags.

FLAT—A wide width Specialty fabric brand under which we offer various PE and PP woven fabric based products, such as Ground covers, Geo textiles, silt fencing, Fire retardant scaffolding, and roofing underlayments.

Emmibi Dunnage bags provide convenient and cost-effective cargo stabilization in ISO sea containers, closed railcars, trucks, and ocean-going vessels. An improperly secured cargo is a safety hazard. Emmibi Dunnage bags improve road safety.
We are producing around six hundred thousand FIBCs per month. Apart from U+2 & Circular design bags, we specialize in Baffle bag, UN certified Bags, Single & Two Loop bags. In addition to standard FIBCs, we take pride in offering proprietary technology, modified carbon graphite polymer chain compound type “C” bags and chopped strand technology based static deceitive type “D” bags.
Emmbi Type “C” (E-Conduct) bags are based on well-established carbon conductor technology. All the components such as loops, filler cords, fabric, are specially woven to be conductive. E-conduct is specially certified by Labordata “International Materials testing institute”.

Features

- E-Conduct is provided with a grounding point to which all conductive panels, threads or filaments are electrically bonded.
- The lift Loops of e-Conduct also contain conductive threads or filaments with a resistance to the grounding point of Less than 108.

De-Watering Bag

This bag is used to remove water or any other liquid mixed with sand or clay.
Pallet-less FIBCS

Emmbi’s new environment-friendly, pallet-less bulk bags, designed for the safe, efficient and secure packaging, storage and transportation of dry, loose and bulk products. This innovative pallet-less bulk bag (FIBC) design integrates plastic sleeves into the bag, replacing the conventional wooden pallet with a totally recyclable design.

It was developed in response to demand from the logistics industry for a cost-effective, safe, efficient and environment-friendly packaging alternative to the conventional heavy and expensive wooden pallet and bulk bag design.

Features

- Dual Top – Lift arrangement - lifting tunnels and loops provided on the top substitute & are alternate to the conventional pallets, this arrangement is also friendly to all existing filling stations
- No hard bottom - this improves the number of empty bags per container
- No cut, notch, slot - there are no cuts, notches or slots at the bottom to replace the pallet, this makes our FIBC’s absolutely stable and easily stackable
- Shape - these FIBC’s have a typical shape i.e. tapering from the top that gives a perfect forklift
- Material used - 100% homogenous polypropylene used, which is fully recyclable
- Customization - this design can serve for all FIBC’s like Top & Bottom Spout, Baffle Bag etc.

‘UN’ Certified FIBCS

Reliable Transport for Dangerous Goods

The transport of dangerous goods is regulated in order to prevent injury to people, harm to the environment and material damages. Emmbi has trained staff and advanced technical equipment to design and produce quality UN FIBCs according to international regulations for transport by sea, rail and road. Our technicians are well trained in the procedures and regulations regarding transportation of dangerous goods. Emmbi UN FIBCs are tested with Safe Working Loads (SWL) ranging from 500 kgs to 2000 kgs.

UN Regulations

UN recommendations on the transport of dangerous goods

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UN Code for type of FIBCS

- 13 Flexible IBC for solids, filled or discharged by gravity (liquids and solids under pressure [>0.1bar] are not permitted)
- H Woven PP fabric without coating or inner liner
- H2 Woven PP fabric, coated
- H3 Woven PP fabric, coated and with inner liner
- Y Flexible IBC approved for packaging groups I and II
- Z Flexible IBC approved for packaging groups II and III
We specialize in Container Liners for 20' & 40' containers. We produce the liners made out of woven PP, woven PE and PE Film. These liners are suitable for carrying dry bulk cargo such as polymers, cement, fertilizers, and various other granular materials. We have world class technology to produce PE film based liquid container liners. Some of the other products we produce under this brand are Garden waste bags, Rectangular bale covers & Automobile covers.

Container Liner
- Used in the containerized bulk shipment of dry free-flowing cargos.
- Mass produced.
- Provide a range of benefits and cost efficient savings for the shipping of bulk raw materials, chemicals, and foodstuffs in grain, pellet, granule or powder form.
- Quick and simple to install.
- Enable bulk cargos to be shipped door to door with a minimum of handling.
- Made from virgin polyethylene (film or woven polyolefin). Thus agricultural produce and high value chemicals can be transported safely in an enclosed chamber.
- Avoid cargo contamination from pollutants and salt air.
- Minimize cargo spillage and waste. Maximize container utilization by enabling return loads of a different nature to be carried.

Garden Waste Bags
These bags are used by the household mainly in the European countries and Australia for collecting, disposing and recycling bio-degradable garden waste. These bags are specialized for the collection of green waste. Durable and easy to store these bags score high as opposed to wheeled bins. They allow the green waste to breathe, owing to the perforated weaves typically found in such bags. Garden waste bags are available in various sizes ranging from 50 liters up to 200 litres, the standard being between 90 and 120 liter bags. these bags are made from thick green ultraviolet treated fabrics and come with the option of printing your text details or any other information that you require. Our bags can also incorporate document pockets & different configurations of lifting and tipping handles. These bags can be completely customised as per your requirement. These bags are used by the household mainly in the European countries and Australia for collecting, disposing and recycling bio-degradable garden waste.
Automobile Covers

This is a multilayer packaging with combination of woven PP/PE coated with soft feel non woven material. Impregnated with VCI chemical are specialty packaging material with anti corrosive treatment given in the inner layer. A specialty VCI chemical is impregnated while coating it from inside it from inside. These can be supplied in normal or fine wool texture.

Bale Wrap

- Bale Cover are wrapping made of woven polypropylene.
- They are used in automatic hydraulic or pneumatic bale press.
- They are very strong and elastic
- They prevent bale from dust and corrosion.
Small Sacks for Asbestos

FIBCS for Asbestos

Container Liners for Asbestos

PE bags for Asbestos

Many buildings contain asbestos, which was used in spray-applied flame retardant, thermal system insulation, and in a variety of other materials. Only a special packaging product that's designed for asbestos containment (class H) can be safely used when cleaning up during and after asbestos removal.

Packaging & removal

Emmbi is specialized in making the FWS (Plastic Woven Sacks) of different sizes, denier, mesh & texture. We have the ability to produce sacks from 600 deniers, from 6x6 mesh to 14x14 mesh. Emmbi has a specialty in producing FWS with gusset and valve. The gusset can be printed to get better visibility of brand.

Emmbi Hazardous good packing categories:

- UN Approved FIBCS
- UN Approved Bulk Bags - Hazardous Goods
- Emmbi’s UN approved FIBCS are manufactured to contain and transport hazardous goods to comply with United Nations Recommendations on the Transportation of Dangerous Materials.
- Packaging Groups
  - Packaging Group I - high danger
  - Packaging Group II - medium danger
  - Packaging Group III - low danger
- X = acceptable for Packing Groups I, II, and III substances only
- Z = acceptable for Packing Group IV - substances only

There are six categories of Packaging. This includes four types of FIBCS, constituting the majority of FIBCS, which are:

13 H1 = PP FIBCS woven, without coating
13 H2 = PP FIBCS woven, coated without liner
13 H3 = PP FIBCS without coating with liner
13 H4 = PP FIBCS coated with liner

Tests for the verifications

UN tests. Several tests are applied to UN Certified FIBCS in order to verify UN requirements such as:
- Top lift test
- Tear test
- Blocking test
- Drop test
- Topple test
- Righting test

Packaging & removal

For the safe removal of asbestos we can supply lined FIBCS that are UN Certified and printed with the relevant hazardous warning labels that are government controlled.

Small Sacks for Asbestos

PP Mini Asbestos Bag
Sizes: 70x110 cms, 80x120 cms, with Liner

PE Mini Asbestos Bag
Sizes: 70x110 cms, 80x120 cms, with Liner

Container Liners for Asbestos

Container Liner with Left & Right doors attached by velcro
Container Liner with Skirt (Outflap & Inner Liner
Container Liner with Skirt (Outflap) & Cover
Container Liner with Back Door
Dust proof Mini container Liner for Asbestos sheets
Laminated & Unlaminated Sacks

PP Film Coated Woven Sacks

Pre-paper Pre-recoated Composite Bags

Valve Mouth Woven Sacks

Sacks

Slings

We are producing more than one hundred thousand Sacks per day of different quality from 14 to 36 inch tubular-width, from 500 to 1200 denier. Bags can be of different texture such as uncoated, extrusion coated and multi-color BOPP coated.

Plastic Woven Sacks

Emmbi is specialized in making the PWS (Plastic Woven Sacks) of different sizes, denier, mesh & texture. We have the ability to produce sacks from 800 deniers to 1200 deniers, from 6x6 mesh to 14x14 mesh. EMMBI has a specialty in producing PWS with gusset and valve. The gusset can be printed to get better visibility of brand.

We can offer sacks in transparent, white and various other colors. We have facility to offer PWS with BOPP film coating. The printing on the BOPP film can be made up to 6 colors including half tones. We can also offer anti-slip sacks, sacks with liners and sacks with perforation.

Generally PWS bags can be used for carrying sand, they can also be used to hold food grains, grass seeds, fertilizers, sugar, beans, rice, gravel & coal in the construction, chemical, agriculture, mining and building material industry.

Other Uses

- Trucks or Cans
- Erosion control
- Levee construction
- Flood control and protection
- Redirect storm and debris flows
- Reinforcing existing like structures
- Extra weight for winter traction for pickup
- Providing extra weight for traffic / road signs
**Liner**

**Wide Width PE Films and Liners**
Emmbi has a state-of-the-art manufacturing facility to produce 3 layer co-ex and single layer liner. We can produce the Liner up to 5.2 meters lay flat width from 25 microns to 400 microns. The 3 layer extrusion gives us ease to use the right type of Resin in the engineered layer.

We can also extrude food grade liner using white as inside color and black as outside color for specific purpose. We are also able to provide PE-AL-PE liners for a material single barrier equivalent. Emmbi has the ability to produce PE-nylon-PE liners for the high temperature applications.

- Tubular Film
- Gusset PE Film
- Form Fit
- Aluminium Foil
- Nylon Composite

**Geo Textile**
Geo-Textiles are permeable fabrics which, when used in association with soil, have the ability to separate, filter, reinforce, protect and drain. Typically made from polypropylene or polyester.

**Types Of Geo-textile**
- WOVEN GEO-TEXTILE
- PE FILM COMPOSITE GEO-TEXTILE

**Primary use of Geo-Textile**
There are four primary uses of geo-textiles in roadway construction & maintenance:

- Separation or Stabilization
- Drainage
- Erosion control
- Re-inforcement
Ground Cover and Weed Mat
As the name suggest “groundcover” is a black woven polypropylene fabric used under the ground for weed control. It is highly used in agriculture and horticulture industry. Ground cover which is also known as weed control fabric is manufactured from uv stabilized polypropylene flat tapes. The polypropylene ground cover/ weed control fabric is available with green marker lines at 12 inches (30cms) intervals. The ground cover/ weed control fabric prevent weed growth and allow air circulation. The fabric protects the roots from the spread of fungus and bacteria. It is permeable to air and water and is resistant to mildew and rotting.Ground cover I weed control fabric is used in various applications such as landscaping, green houses, nurseries, shade structures, etc.

Silt Fence
“Siltfence” is a black color woven fabric used in construction industry in USA and Europe. Regular widths available are 24", 36", 48". We can produce siltfence on circular and guarantee “no fraying” on the selvedges either it is circular or Sulzer loom fabric. We give 1000 hours of UV so that siltfence thus made lasts long when exposed to UV.

Emmbi sandwich fabrics have a very good appearance and are used for packaging costlier products like pesticides, seeds, wheat flour, high-end chemicals etc. They are also used for secondary packaging of smaller 1-50 kg bags. This range also includes paper/nonwoven laminated along with PP/ HDPE fabric with LDPE/ PP material.

Emmbi composite fabric results in a balance of properties that combine lightweight and recyclability with good mechanical performance and excellent impact strength. Emmbi nonwoven composites are widely used in dam, traffic tunnel, road, airport, drainage, housing environmental protection and other fields for waterproof protection, reinforcement etc.

Emmbi Fire Retardant scaffolding products for various types of industries including domestic scaffolding and large scale commercial projects. Emmbi Fire Retardant Scaffolding have carried out various scaffolding projects including scaffolding for temporary roofs, access staircases, aluminum scaffold and scaffolding for confined spaces for everything from office buildings and churches to schools and factories.
As the name suggests, “Shield” is a highly sophisticated Vapor Corrosion Inhibitor anti-corrosive packaging material. VCI chemical with very high surface tension is impregnated in different types of polymer substrate to get perfect anticorrosive property. This material is available in the form of Woven PE bags, PE Sheets, PE Films & Bags.

**Vapor Corrosion Inhibitor**

**Introduction**
EMMBI’s has now introduced VCI (Vapor Corrosion Inhibitor) coated polyethylene fabric and a range of anticorrosive bags made from this fabric for metals, specially designed to preserve and protect metals against corrosion during transport and storage.

**How Does it Work**
EMMBI’s VCI works by emitting VCI molecules into the surrounding area, within an enclosure, until it is completely saturated. These VCI molecules are safe, invisible and odorless. When the VCI molecules come into contact with the air in the enclosure, an ionic reaction takes place between the VCI molecules and the water molecules in the air. The VCI molecules in the surrounding enclosure are hydrolyzed into VCI ions, which form a molecular corrosion protective barrier on the metal surface. This occurs through polarization, and thus passivates the substrate from atmospheric corrosion.

**EMMBI’s VCI (Vapor Corrosion Inhibitor)**
- VCI vaporizes and ionizes
- VCI ions dissolve in the electrolyte (Moisture)
- VCI ions always travel towards the metal
- VCI migrates to recessed areas and cavities
- VCI ions form a thin monomolecular protective film on the metal surface
- VCI re-heals and self-replenishes
Advantages

EMMBI VCI replaces the old methods of applying oil and grease, highly impractical and polluting, thus reducing or even eliminating the use of oil, grease and wax. With EMMBI VCI you can obtain anti-corrosion packing simply integrating your traditional packing or you can wrap the product to be protected with a sheet or bag of EMMBI VCI range. EMMBI VCI is resilient and durable with good tensile properties, Abrasion resistant. EMMBI VCI is environment-friendly, non-polluting, nitrite-free and non-hazardous. On opening your package the product will be immediately ready to use, without any need of cleaning it from dirt, polluting oil or grease. Customizable with your own brand identity. The result will be sure, simple and clean protection.

Fields of Protection

- IRON
- STEEL
- CAST IRON
- CHROME
- COPPER
- BRASS
- BRONZE
- ALUMINIUM
- LEAD
- TUNGSTEN
- ZINC CADMIUM
- SILVER
- NICKEL
- MAGNESIUM
- TIN

Industries that can use Emmbi VCI

- Automobile and Ancillaries
- Light units manufacturing parts such as forgings, valves, castings, etc...
- Equipment manufacturers – light and heavy.
- Electrical & Electronic Industry
- Defence - Manufacturing and Servicing Units of Army, Navy and Air Force
- Steel Mills – both HR and CR
- Bearing Industry
- Process Industries such as Power, Refineries, Chemicals, etc
- Packaging and Export Industries

Emmbi VCI Products

- Polyethylene Woven Sheets VCI coated
- Polyethylene Woven Sacks
- Polyethylene FIBC
- Polyethylene non woven film bags (In desired shapes and sizes)
Understanding its responsibility towards Mother Nature, Emmib is happy to offer its eco friendly brand AquaSave The AQUA SAVE range of products, helps in conservation transportations & storage of water and various other liquids.

**Introduc**

EmmibLiqiadLiqiad handled liquid handling liquid without pallet

**Emmbi flexi liquid can be used for Handling and transporting-**

- Liquid fertilizers
- Oil
- Cosmetics
- Additives
- Juices and much more.

**Handles Liquid Safely and Conveniently**

EmmibLiqiadLiqiad can be folded and the liner inside can be changed after every use, if needed.

**Easy To Handle Linea Replacement Easy Fold**

High tenacity polypropylene High tenacity corrugated board

First comes SAFETY
Liner Valve

1) Emmbi has specialized valve designs as per the requirement of Liner fittings and Liquid Discharge. 2) The outlet size can be 0.5 inch 1 inch 1.5 inch and 2 inch.

Canal Liner

There is a demand for vast amount of water in agricultural areas where water does not naturally exist at the level needed. To mitigate this problem, canals have been constructed to transport water from the source to where it is needed. Earthen canals, even though relatively inexpensive to construct, lose 50 percent or more of the water they transport to seepage and the concrete veneer may still crack over the time. More recently, flexible lining materials such as LDPE and HDPE have been gaining popularity as the most cost-effective lining solution for a number of applications, including irrigation and potable water. LDPE / HDPE Liners, either alone or in conjunction with a concrete veneer, can greatly increase the effectiveness of a canal lining system. Not only are erosion and vegetative intrusion mitigated, but also leakage is greatly reduced as compared to earthen or concrete alone systems. While the concrete veneer may still crack over time, the geo-membrane remains in place underneath the veneer to prevent seepage until the concrete can be repaired.

Pond Liner

Underneath the beautiful foliage and active aquatic life of your pond lies the product that keeps it functioning effectively. Pond liners. These products are the true foundation of your pond; Emmbi Pond liners are great for garden fish ponds. By installing permanent pond liners that will withstand a variety of weather and water conditions, you can avoid the hassle of regularly replacing this integral part of garden fish ponds. Emmbi pond liners are highly recommended for garden fish ponds because they are the most flexible type of liner.

Loading in container

Emmbi Flexi- Liquid can be properly placed in 20’ & 40’ containers, and handled conveniently.
Emmbi Industries Limited, Indian FIBC major has gone a step further in the UV testing of its products. Emmbi has come up with state-of-the-art Natural Testing Site. The site is located at their Silvassa Plant. The geographical locations of the Test Site are as under:

Latitude: +20.27 (20°16’12”N)
Longitude: +73.01 (73°00’36”E)
Time zone: UTC+6:30 hours
Country: India
Continent: Asia

Conventional FIBC Testing By Accelerated Weathering

Conventionally most of the producers are dependent on the accelerated UV testing in the various UV testing Chambers. These chambers are either using Xenon Ark Lamps. Most commonly used lamps are UVA 340 or 351 and UV B 313 Lamps for generating the UV light at the typical irradiance used are ranging between 0.49W/m²/nm with the wavelength ranging between 310 to 340 nm.

This artificial generation could only replicate the part of the Natural Solar UV Spectrum and hence the Accelerated weathering tests are near perfect. Not exact as the natural sunlight. Important aspect is the performance of the test object while under the “Stress”. The testing chambers have no ability to accommodate the filled FIBCs.

FIBC Testing With Actual Filled In Products:

We have observed that the performance of UV Stabilizer also depends on the type material of which the FIBC is being used. Even the moisture in the vicinity of the filled up FIBC decides the performance of the product. We have plans to create some of the vapour testing chambers in the near future.

It is not possible to monitor these types of situations in the accelerated weathering equipment’s. We have created a space of 6 FIBCs which is being used for testing various types of material. The present test in progress is being conducted on Chemical Fertilizer, Calcium Carbonate, Recycled Polyethylene, Bentonite, Sand and Common Salt. These Six materials represent different chemical structures and chemical polarities. These materials are also some of the most commonly filled materials in FIBC.

Location of Emmbi Test Site in the Globe:

The availability of Direct for around 10 Hrs. per Day makes Silvassa a perfect Test Site Location in the Northern Hemisphere. This is the part of the world which enjoys maximum luminous intensity of the visible light throughout the year. With dense forest in the surrounding there is almost a 90 days of direct precipitation at the location of the site. The sea cost is around 30 Km away from the test site.

Solar energy and surface meteorology at the Emmbi Test Site:

You will observe that there is substantially high temperature across the year and also the precipitation is spread for more than 5 months. This gives abundant chances for the test samples to weather.

Emmbi will be testing the Samples on the monthly basis. The results will be analyzed on the regular intervals. We will be glad to answer your queries if you need any further help in this.

Emmbi Industries Limited
Our facility is located 180 km north of Mumbai approx. 3 hrs travel time on National Express Highway from Mumbai to Delhi.

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<th>Nearest Port:</th>
<th>Jawaharlal Nehru Port Trust (JNPT)</th>
<th>4 Hrs.</th>
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<td>Alternate Ports:</td>
<td>Mundra Port &amp; Pipavav Port</td>
<td>8 to 10 Hrs</td>
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<tr>
<td>Nearest Int. Airport:</td>
<td>CST (Mumbai)</td>
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<tr>
<td>Nearest Railway Station:</td>
<td>Vapi</td>
<td>30 Mins.</td>
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Emmbi Global Footprint
Credentials

“Leading Women in Manufacturing” Category on 18th April 2013 presented to Ms. Rinku Appalwar CFO Emmbi Industries, by Amee Yajnik (All India President of Lawyers Association).

Ms. Rinku Appalwar CFO Emmbi Industries receiving award for “Women Leadership & Innovation” Category on 25th April, 2013. Award Initiated by International Women Leaders Association & presented by Ms. Nidhi Maheshwari Senior Director - Markets, Grant Thornton - India.

Ms. Rinku Appalwar CFO Emmbi Industries receiving 1st Inc. India Innovative 100 Club Award as “Innovator” on 20th Dec, 2013.

ET Now presents India Mart National Award to Mr. Makrand Appalwar CMD Emmbi Industries, as “Leaders of Tomorrow Awards 2013”