

## **F.B.M. Technologies Limited**

*Technology for Mankind*



### ***Who We Are?***

FBM Technologies Limited is the turnkey solution provider for food processing, agro-based, , supermarket and commercial kitchen industries in Bangladesh. Along with our extensive link-up with the global technology solution providers, we are equipped with highly qualified professionals experienced in the industrial solutions. If you are thinking about launching any of the above industrial projects, your business is our business. When you choose FBM, you will get more than the freshest ideas, technology, strategies and solutions. You will get a group who can leverage their considerable knowledge and expertise and put it to work for you. Let us become a part of your team.

❖ **Food Processing Industry Solutions**

❖ **Agro-based Industry Solutions**

❖ **Retail (supermarkets) Industry Solutions**

❖ **Commercial Kitchen Solutions**

## Contact details

Please call us to our hotline (88)-0174 23 96 97 5 any time  
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Our team is always ready to serve you and answer your queries.

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## *Food Processing Industry Solutions*

### *Details of Services we are offering*

-  **Feasibility report preparation**
-  **Equipment sourcing**
-  **Technology solutions**
-  **Project Engineering**
-  **Project Management**
-  **Food Formulas, Product and Package Design for**
-  **Special Export Market**
-  **Financing Sources**
-  **Product export market**
-  **Quality Control**
-  **Internet Strategy**
-  **Industry automation**

## **Feasibility report preparation**

We have already developed a set of feasibility reports for wide range of demanding projects. We will just redesign and remodel it for your special customized requirements. We have extensive database of agro-based industries and food products market. We are continuously updating all the inputs required for preparing a feasibility reports.

To get the financing you need to present your lenders (internal or external) a Financing Pre-feasibility Report showing what your project's cash flow projections and possible return on investment are. You complete our client's information sheets containing capital investment range, location, valued of land, expected production capacity, target market, expected equipment source etc, and these information will be then plugged into our special software.

The correlation program then generates complete feasibility calculation ( both financial and economic) including cash flow projections, pay back period, break even analysis, sensitivity analysis and other important parameters as specially required by financing institutes. Our technical team for that particular industry sector will prepare the technical aspects of the document. We then complete the market oriented pre-feasibility document.

## **Equipment sourcing**

One of the major inputs for developing an Agro-based or Food Processing Project is the source for equipment. It is essential when developing profit making food production projects that you have the right equipment and supplies. Nothing can delay your project quicker than wrongly selected tools, equipment or supplies. You need to know what you need an at t the right time. We offer a full line of production plants to meet your budget and your target market.

Our service include machinery selection, standard selection, plant equipment sourcing, contracts between equipment supplier and the second party including terms and condition fixing for warranty, availability of spare parts and its future price, technicians costs, upgrading strategy, erection, commissioning and trial operation.

## **Technology solutions**

We will help you for the selection of primary product type, packaging material design, product design, and other related technical aspects. What will the production line? What additives need to be added and when? What are the best additives and production methods. This consultancy is designed to enable you to select the most useful system for us in your valued project. We will provide technical services with local and foreign international standard core technical experts during construction and trial production phase.

We will source technical experts from home and abroad for real time production and negotiating contract between the client and technical experts. We help in the area of market searching and feedback agencies for local exporters as well foreign buyers. We are acting as local representative of foreign importers for the qualitative & quantities matter of the products to be imported.

## **Project Engineering**

### **Know-how & Basic Engineering**

- Preparation of Process Description
- Preparation of Process Flow Diagram
- Preparation of Equipment List
- Preparation of Line List
- Preparation of Instrument List
- Preparation of Sequence Diagrams
- Specification for the ambient atmosphere at production house
- Specification for Insulation
- Specification for Painting
- Loading data
- Operation & Maintenance Manual

## **Detailed Engineering**

***Supervision and guideline for the following jobs as project manager coordinating with the local contractors***

### **Civil Engineering**

- Preparation of Architectural and Civil Design drawings including foundation layout & details, Architectural drawings of all buildings
- Preparation of Structural analysis & design
- Preparation of working drawings for RCC & Masonry structures
- Preparation of design drawings for Steel Structure & Pipe Racks
- Design of foundations and loading data
- Preparation of Tender Document with specifications & bill of quantities

### **Mechanical Engineering**

- Elaboration of the specifications of all equipment in such details that they can be procured/fabricated from experienced suppliers.
- Checking & approval of all vendors' drawings

- Details & locations of pipe supports
- Preparation of Tender /Contract Documents for fabrication and Installation of equipment & piping at site

### **Instrumentation Engineering**

- Typical information of Engineering & Construction of Instruments
- Completing the Instrument data sheets & specifications
- Arrangement plan for control panel and junction boxes
- List of control room connections for electrical & pneumatic instruments
- Documentation with all essential technical details of the instrumentation
- Preparation of Bill of Material for instrumentation items
- Preparation of Tender/Contract Documents for Instrument installation

### **Electrical Engineering**

- Design & preparation of Power distribution for the motors, finalizing Single line Diagram, wiring & control schemes for various drives etc.
- Preparing specifications for all electrical equipment viz. Rectifier-transformer, MCC, local control station, LT Motors etc.
- Selection of cable sizes, preparation of cable layouts, Local push buttons control locations etc.
- Design of Lighting System
- Design of earthing & lightening protection system
- Preparation of Tender/Contract Documents for Electrical installation work at site

### **Project Management Services**

**FBMTL will provide services as turnkey solution provider for the project.**

**Project management will be our one of the principal job which includes**

- Preparing the Gantt Chart detailing all the activities of the project Monitoring of the activities
- Finalization of the vendors' list for various indigenous/imported equipment in consultation with client
- Coordination with Client & Vendors during the progress of Detailed Engineering
- Preparation of Weekly Progress Reports containing progress curve and comments
- Identification of Critical activities, long delivery items and taking timely measures during the execution of the contract
- Procurement and delivery progress control
- Planning to ensure timely completion of project

### **Supervision**

- Supervision during Construction and Erection of the plant
- Providing assistance in Pre-commissioning, Commissioning, Start-up & Performance Guarantee Runs



## **Food Formulas, Product and Package Design for Special Export Market**

Export food marketplace has many requirements and regulations about the ingredients that go into food products. You may need assistance to make sure the products you produce are the right flavor, color and package size/color, design. In addition, packaging and labeling are vital part of the food producers are involved in. Your product must meet international environmental standards, have only the approved additives and still be packaged to compete in the foreign marketplace

## **Financing Sources**

Sometimes potential or active Entrepreneurs have everything they need for their project except the money. How do you get the financial sources. We can help you guide finding a good financial source and help you prepare for that.

*Disclaimer: We do not provide guarantee or confirmation for getting loan and fund for the project. We only help you for this purpose.*

## **Product export market**

In the age of information super way, you will need up-to-date market information. And perhaps you are interested in developing a large scale export business with good price. We can help you find potential export market and link between buyers and sellers. For special products, we have buy back sourcing.

Whatever you plan to do in export of your products you'll need the know how to share in the coming explosive growth in exporting. There may be such an explosion of demand in your target market areas today that you may not have all the necessary information and contacts to meet your export po alone. And when you miss an export opportunity, your competitors that do enter these growing markets gain control of the

markets. Even when you may try to get involved in export on your own, you don't have the necessary contacts to make it pay off. We help you provide information about potential export market places.

We represent foreign companies in Bangladesh as their local representative for growth of import & export of products. We are representing number of agro based and food processing industries from Bangladesh to find challenging foreign markets.

## **Quality Control**

Fixation for criteria for quality control methods and guide achieving for certification for standardizations like BSTI (primarily), ISO 2200 with HACCP, HALAL certification ands EUREPGAP, and help designing a strategic plan for achieving the desired standards.

Guide line for set up of laboratory for product sanitation including physical, chemical and microbiological analysis or arrange the services from third party institute/(s)/ commercial laboratories.

Our teams will devise and supervise your systems and prepare your plant for accreditation

### **Internet Strategy**

We will design your web portal targeting the potential market of the products. We will help to develop new and effective internet strategies to give the right level of web presence within overall marketing plan including potential overseas market searching for export. Promote products in international online business portals.

### **Industry automation**

System analysis and designing for integrated software system for full automation of product and raw materials inventory, sales tracking, supply and demand forecasting, integrated accounts systems, supply chain management and customer relation management. After the deployment of the software it will be an integrated ERP (Enterprise Resource Planning) software for the industry.

## We are providing turnkey solution for the following industries

- ✓ Turnkey projects for Snacks production line
- ✓ Automatic confectionery production line including
- ✓ Automatic Biscuit manufacturing plant including
- ✓ Automatic and semi automatic complete bakery production line including
- ✓ Frozen Processed Meat Products like Nuggets, Meat Balls, Sausage etc
- ✓ Noodle manufacturing plant
- ✓ Beverage lines
- ✓ Canning of fruits and vegetables
- ✓ Dry Formulation
- ✓ Ready Meals
- ✓ Dehydration of fruits and vegetables
- ✓ Other Important Food Processing Projects

### ❖ Turnkey projects for Snacks production line:

- *Fresh Potato Chips production line like Lays*
- *Expanded snacks production line like Kurkure*
- *Extruded Potato Chips Production Line like Bombay Potato Crackers*
- *Coated and Roasted Nuts processing line*
- *Wafer and core filling snacks*
- *Banana Chips Production line*
- *Jack fruit Chips Production Line*
- *French Fry Production line (pre-fried and frozen)*
- *Automatic export oriented Chanachoor, Bhujia and other Savory snacks production line*
- *Automatic puffed rice ( Muri) production line*
- *Multi head weighing and packing lines for all kinds of snacks*

❖ Automatic confectionery production line including

- Deposited candy and lollipop with advanced SERVO technology
- Die cut candy and lollipop
- Soft and Jelly candy and Toffee
- Chocolate bar and Chocolate Enrobing (Coating)
- Chewing gum and bubble gum of different kinds
- Whole Plant Equipment for Pudding and Jelly in mini cup, like Elson Litchi

❖ Automatic Biscuit manufacturing plant including

- Hard and soft biscuits
- Vegetable crackers
- Soda crackers
- Wafers production
- Wire Cut, Sliced and Deposited Cookies

❖ Automatic and semi automatic complete bakery production line including

- Complete Bakery Production Facility Design
- Chapatti making plant
- Frozen **Roti Paratha**, Pastry Sheet, Samosa and Spring plant
- Deposited shelf stable custard cake production l

❖ Noodle manufacturing plant

- Hard / dried stick Noodles
- *Pasta noodles*
- *Instant Noodles Production*
- *Cup Noodles*
- *Quick Cooking Noodles*
- *Rice Noodles (Vermicelli)*
- *Macaroni Noodles*

Spices, Seasoning and Dry Formulations

- ***Export Oriented Spices Processing Plant as powder and paste form***
- ***Sterilization of Spices Products***
- Instant Dry Soup and Gravy Mix in four side sealed packs and sachets
- All kinds of seasonings (spices blends) for snacks and noodles including custom blending and co-packing

## Ready Meals

- ❖ Ready Meals (like Airlines Meal, frozen to be oven heated, and non frozen) in convenient packs solutions like aluminum trays and thermo formed trays
- ❖ Turnkey project for Export Oriented Ready To Eat Meals in Shelf Stable Retort Pouches

## Beverage lines

- Ready To Serve Beverages (RTS) (Juice) and flavoured drinks in Different packing as paperboard ( like Tetra pack) and PET bottles
- Carbonated beverage complete lines
- Concentrated Juice and Cordials of Mango, Lemon, Guava, Pineapple
- Sports drinks bottling lines
- Industrial and commercial water purification system with mineral water bottling line
- Complete Plant Equipment for PET/ PP Bottle Production
- Integrated turnkey project for flavored drinks, carbonate drinks, mineral water with own water purification and PET bottle production line including the brand establishment
- Integrated dairy milk production, UHT processing and shelf stable aseptic filling in HDPE or Paper Carton (Like Tetra Pack) packaging













## Canning and Retort Pouch for Fruits and Vegetables

- Food grade metal canning plant
- Canned of Fruit Slices in Syrup (pineapple, jack fruit etc).
- Canned vegetables processing line
- Can making plant
- Integrated Retort Pouch Food Products Line (as an alternate packing options for canning)

## Dehydration of fruits and vegetables

- Mango bar and other fruit bar production line
- Osmo -dehydrated fruits like pineapple, mango in PP/ PET bag or boxes for export market
- Dehydrated fruits and vegetables processing line
- Dehydrated mushrooms production project

### **Other Important Food Processing Projects**

-  **Controlled Atmosphere Prefabricated Cold Storage for fruits and vegetables for local and export market**
-  **Fresh cut fruits and vegetables processing plant in MAP (Modified Atmosphere Packing)**
-  **Individually Quick Frozen (IQF) fruits and vegetables for export market**
-  **Integrated export oriented slaughtering house to produce fresh and frozen meat packed in vacuum and MAP trays (for cattle and poultry)**
-  **Frozen Processed Meat Products like Nuggets, Meat Balls, Sausage etc**
-  **Integrated Fish Processing plant with IQF facilities**
-  **Automatic Sugar and Salt Refinery Plant**
-  **Export Oriented Honey Processing**
-  **Whole Plant Equipment for Ice Cream**
-  **Integrated Tomato Processing plant for tomato paste, tomato puree, sauce and ketchup production**
-  **Jam, Jelly and Marmalade Production Line**
-  **Pickles and Chutneys Production Line**

***All kinds of packing solution for Food Industry***

***All common Ingredients solutions for Food Industry***

### ***Agro-based Industries and Production Projects***

- Complete solution for animal feed production (Fish Feed, Poultry Feed and cattle feed)
- Municipal waste recycling plant
- Mixed Fertilizer plant (NPKS)
- Turnkey solution for Organic fertilizer production
- Turnkey solution for bio-fertilizer production
- Contract growing of all kind of vegetables and seeds
- Tissue culture laboratory setup and management
- Contract growing of tissue culture seedlings
- Green house and shade house design and construction
- Hydroponics design and setup
- Seed Industry setup and contract growing plan for Hybrid Seed production
- Integrated cattle and goat fattening project

**And any kind of challenging Agro based Industry Projects**