

Why Manufacturing Services?



- While this comes with a lot of opportunity, 6.8 lakh+ manufacturing organizations means that there is an even greater amount of competition.
- In this market, those who evolve and develop a sharper competitive edge are the ones that ultimately gain the fruit of a larger market.
- They are the ones that not only survive Industrial Revolution 4.0 but thrive and will be the ones who will start Industrial Revolution 5.0 as the market leaders.



A competent **Business Consultant** serves as an enabler in **executing** your **objectives** and aspirations.

We are proud to say that we have some of the finest Business Consultants in the country in *Manufacturing*.

Bottlenecks



Quality Management

- 1. Customer complaints risk
- 2. Market returns and risk of disruption
- 3. Rejections and Rework during Production
- 4. No ownership for Quality
- 5. Cost increase

Safety Management

- 1. Risk of Fatality and serious injury
- 2. Reputation risk
- 3. Statutory violations leading to disruptions in operations
- 4. Poor morale of employees
- 5. Damage to assets

Production Management

- 1. Inefficient production lines & underutilization of capacity
- 2. Poor manpower productivity
- 3. High energy cost & greenhouse emissions affecting ESG/sustainability score
- 4. Elevated costs impacting the P&L of the business



Maintenance Management

- 1. Frequent breakdowns of equipment
- 2. Reactive maintenance
- 3. Lack of ownership among the operators
- 4.Low MTBF(Mean time between failures) and High MTTR(Mean time to repair)
- 5. High maintenance cost

Logistics Management

- 1. Sales decline due to inadequate planning
- 2. Elevated inventory holding costs & write-offs
- from expired or obsolete stock
- 3. Inefficient warehouse space utilization & absence of product traceability
- 4. High transportation costs and inefficient route planning

Cornerstones of our offerings



Zero Accident: Safety management system



Zero Wastage: Production management



Zero Failure in Delivery:
Logistics
management



Zero Defect:
Quality
management
systems



Zero
Breakdown:
Maintenance
management



Action-Oriented Approach

We are **NOT** a run-of-the-mill manufacturing consultancy.

- The outcome of our interaction will **NOT** be a glorified document with a to-do list.
- We are action-oriented and help you achieve your goals through 90-day deliverables.
- We take an Execution Focused approach which contains both what and how aspects of deliverables.



USP #1 We Specialize in taking you from Strategy to Execution



Best Value For Money (By Far!)



- It is not easy to access the top business leaders in India. They are mostly in high-level positions at billion-dollar MNCs.
- Cost Effective Business professionals may lack the expertise required to truly solve your organization's challenges.
- This is the gap that Flipcarbon plugs. We provide access to some of the **Best Business Leaders** on a part-time basis.
- Obtain the best business strategy, drive sustainable highperformance, and implement suitable solutions within your budget.

USP #2 Engage Flipcarbon at 10% of the cost of a top-level Business Leader, obtain the same expertise and achieve an **exponential** and **sustainable** improvement in your growth agenda.

Bespoke Solutions

- When it comes to Business Consulting services tailored for Manufacturing Organizations, we stand head and shoulders above the rest.
- Our Business leaders possess a wealth of experience spanning various Industries, growth trajectories, business models, challenges, and company sizes.
- They have successfully navigated diverse environments and have a deep understanding of the complexities and business dynamics in Manufacturing Organizations.
- Our solutions are custom-made and implemented based on YOUR needs and aspirations.



USP #3 Solution that is specially **crafted** for **YOU**



Environmental Friendly



- For Manufacturing Organizations, **embracing ESG principles** is not just a feel-good exercise, it is a **strategic imperative**.
- By reducing energy consumption, resource efficiency, minimizing waste and sourcing sustainably you –

1. Increase profitability

2 . Reap cost-savings

3. Improve **brand reputation**

4 . Develop resilience to future legislation

- Our business leaders will ensure that your business is compliant withESG principles through baseline assessments on your carbon emissions, waste management, water neutrality and impact of products on the environment.
- We will then make a **future roadmap** for getting you to the desired/suggested levels.

USP #4 Solutions to **future-proof** you against an increasingly environment-focused market



Our Crafted Solutions

Zero Accident - Safety Management System



□ Fundamentals and Frontline-Focused

- 1. LOTOTO and Machine Safety
- 2. Fall Protection/Working at Height Quality methods
- 3. Confined Space Incident Report
- 3. High-Risk Process Management
- 4. Hazardous substance(Chemicals)

Management Focused

- 1. Emergency Response
- 2. Contractor Management
- 3. Safety Monitoring and coaching
- 4. Operational Safety management

□ Integrated Approach

- 1. Behavioural Safety culture
- 2. SIF reporting



Zero Defects – Quality Management Systems



☐ Quality Foundation

- 1. Product technical specifications
- 2. Quality methods
- 3. Food safety
- 4. Process Hygiene
- 5. Non-conformances

□ Customer Satisfaction

- 1. Complaints handling
- 2. Quality culture
- 3. Product excellence

☐ SOQ: Standardization of quality

- 1. Process standardization
- 2. Supplier Quality
- 3. External quality



Companies implementing world-class quality management will progress towards a target of Six Sigma defects and hence increase customer satisfaction.

Zero Wastage - Production Management



☐ Key Pillars

- · Company Policies
- 5S
- · Process mapping
- Product and Process indicators
- Standards creation and execution
- Routine reviews of PIs and KPI's through (Interaction logs, SOPs & OWDs, Operator workstations and Team rooms)

☐ Key Objectives

- Target setting and cascading
- Problem-solving
- Project management
- Performance Review (Key objectives and results review OKR) -(TS&C, Improvement task forces, P DCA and much more)



Implementing lean manufacturing principles and waste reduction strategies can lead to significant reductions in materials, energy, and time waste, often reaching up to 20-30%

Zero Breakdowns – Maintenance Management

■ BasicManagement System:

- Preventive maintenance
- Planning & Scheduling
- Maintenance facilities, Tools and Spare parts management
- Autonomous operations/ JISHU HOZEN
- Technical skills

□ Advanced Management System:

- Predictive maintenance
- Cost of Maintenance
- Control and Automation
- Reliability engineering

Adopting predictive maintenance strategies can reduce equipment failures by 50 % and maintenance costs by 30%.





Zero delivery failure - Logistics management



□ Warehouse management

- Product costing
- Inventory Management
- Warehouse Layout
- Warehouse Operation

☐ SLAs and Reverse SLAs

- Material shelf life
- Scheduling and Planning
- Service levels

□ Inbound & Outbound Transportation

- Product costing
- Inventory Management
- Warehouse Layout
- Warehouse Operation

Up to 30% reduction in delivery failures: implementing efficient logistics strategies, such as route optimization, demand forecasting, Product costing and real-time tracking, can significantly reduce delivery failure



Business Impact



Scalability & Reliability



Operational Costs

Capacity growth must be accompanied by **robust quality systems** to prevent adverse effects on product quality. Establishing a **solid foundation** ensures:

- Guaranteed quality and enhanced reputation
- Expedited and seamless scale-up processes
- **Reduction in variables** affecting performance consistency

Implementing top-of-the-line standards in your manufacturing facility and systems can yield operational cost savings of 15%–25%.



Future Proofing - ESG



Growth

Aligning with ESG principles amid evolving government and global legislation is crucial. This ensures:

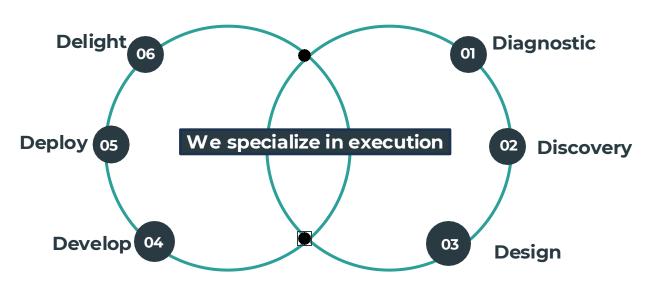
- Avoidance of constant changes to meet evolving standards.
- Attainment of a **first-mover advantage** while others catch up to future ESG principles.

We prioritize a growth approach, executing a strategy to:

- Boost your bottom line.
- Increase your revenue.
- Secure a **higher market share**.



What Execution Looks Like?



A 90-day plan

This will have the details on the solution we are going to deliver over the course of 90 days and how we are going to deliver it.

Our execution is driven by our series of evolving 90-day plans.



Technical Capability Development



Process improvement training:

- 5S
- 5-Y analysis
- PDCA/SDCA
- 7 QC tools
- CAPA
- Line balancing
- Small improvements or Kaizen

Certifications:

- ISO 9001-Quality management
- systems
- ISO 14001 Environmental
- management systems
- ISO 22000 Food safety management
- systems
- ISO 45001 Occupational Health and Safety management system
- FSSAI

Technical training:

- Failure mode effect
- analysis(FMEA)
- Statistical Process
 Control (SPC)
- Measurement systems analysis
- (MSA)
- Autonomous maintenance
- Lean manufacturing techniques
- Energy conservation
- Inventory management
- 6 Sigma

Our Dream

Our leadership - some of the best leaders in the Business Consulting Space came together with the dream to help India and its citizens like YOU, fulfil their dreams.

OUR BUSINESS IS TO MAKE YOUR BUSINESS GROW

India has nurtured

countless TALENTED

professionals who have

excelled in their

respective fields.

As a result, many small and medium-sized businesses (SMBs) in India face challenges in accessing and leveraging top-notch talent to realize their aspirations.



A SIGNIFICANT number of these exceptional individuals either work for multinational corporations worth billions of dollars or seek opportunities abroad.

Our Leadership





ALOK RANJAN

Chief Executive Officer
Business Transformation & Resilience
Expert



PRABHASH NIRBHAY

Partner & Founder Business Transformation & Resilience Expert





SURANJAN DASS

Associate Partner
Manufacturing, Supply & Operations Expert



DEEPAK KEWALRAMANI

Partner & Co-Founder Corporate Finance & Strategy Expert



BHASKAR BANERJEE

Associate Partner
Corporate Finance & Strategy Expert



ASHUTOSH BHATTACHARYA

Principal consultant, business Consulting

Ex-associate engineer, Collins Aerospace, UTC Aerospace System



RAJESH SAHAY

Partner
Business Transformation & Resilience Expert



NIYATI RAO

Business Head – Western India Organization & People Strategy Expert







Case Studies

Our Successful Projects



Case Study #1

SITUATION

Leading food manufacture, from Nigeria had set up a fully automated Cashew processing unit and wanted to increase the production from 40 Tons/Day to 80 Tons/Day

ACTION

- Identification of minor and major losses in the entire production line
- Formulation and implementation of a
 Maintenance management system covering
 Autonomous maintenance by Operators and
 Preventive/Predictive maintenance by
 Technicians
- Identification of KPIs including manpower productivity and implementation of Routine review mechanism to track daily productivity.
- Identification, tracking and control of process parameters critical to Productivity

PROBLEM STATEMENT



Deficient Problem solving skills



Absence of a Formalized Maintenance System



Ineffective Review
Process

SOLUTION

Phase 1

Maintenance management system and tracking of MTBF and MTTR

Phase 2

Maintenance management Expertise of Operators/Technicians in using Problem-solving methods

Phase 3

SOPs and Systems Implementation

OUTCOME



Capacity doubled and manufacturing cost/ton was reduced by 45%



Skill development of Operators



Cross learnings to the similar unit at Ivory
Coast

Case Study #2

SITUATION

Leading FMC G company had acquired a hair care brand in Egypt with a manufacturing facility in Cairo. The objective was to **reduce consumer complaints** and **eliminate market returns**

ACTION

- Analysis of 12 months of Consumer complaints/ Market returns and solutions based on Root cause analysis and CAPA.
- Implementation of Total Quality
 Management (TQM) across the entire
 process including Procurement to
 Finished goods covering Product
 specifications, Quality methods, Process
 Hygiene and Non- conformances.
- Formulation and implementation of SOPs across the manufacturing process and training of the entire team.

PROBLEM STATEMENT



No Inspection and testing procedures for incoming material



Non-Standardised process



No analysis and problem solving of Customer complaints

SOLUTION

Phase 1

Phase 2

Identification of critical to

Customer complaints redressal mechanism

Phase 3

Implementation of a Total Quality Management system to ensure Zero defects

OUTCOME

quality process parameters

and training of

operators/supervisors



Reduction in cost of rework and rejections



93% reduction in Consumer complaints



Increased confidence among the distributors and retailers

Case Study #3

SITUATION

Leading Alco Beverage manufacturer, The effluents generated from the process have a TDS of around 2000ppm. The rejects from the Wastewater treatment RO plant have a TDS of around 5000 PPM and cannot be treated in conventional methods nor let into the ground as it can damage the environment.

ACTION

- Data collection of 12 months of the total effluent generated from the process, post the Effluent treatment plant(UASBR and Aeration) and post the Waste water treatment plant (RO).
- Benchmarking done for best practices across the industry and project of Zero liquid discharge finalised comprising EDR(Electro-Dialysis reversal) and MEE(Multi effect evaporator)
- Fresh water consumption reduced as quantity of recycled water with less 250 ppm increased and is being used for cleaning and plantation purpose.

PROBLEM STATEMENT



Generation of high TDS water post treatment leading to a potential environmental and statutory compliance issue



High consumption of fresh water impacts the organization's goal of Water neutrality



Reputational riskamong the neighbourhood community.

SOLUTION

Phase 1

Phase 2

Phase 3

Installation of two batteries of EDR to treat waste water treatment rejects with TDS of 5000 to 6000 ppm Installation of Multi effect evaporator under vaccum to treat rejects from EDR with TDS of around 20000 ppm Disposal of salts generated from MEE to an authorised agency and hence ensure zero impact to the environment

OUTCOME



Fresh water consumption reduced to 2.73 hl/hl from 3.2 hl/hl



Improved Water recycling capability and increase in Green space



ZLD shows commitment to CSR through sustainability and minimal environmental impact.

Case Study#4

SITUATION

For a leading Heat Treatment equipment manufacturer, inventory management and production planning were a challenge. In the absence of tracking processes and SOPs, scaling up became difficult.

ACTION

- Designed a New Factory Layout and secured inventory with standardized processes.
- Created automated Material Planning Workflow for the client. This involved the creation of BOM, Sales Order Trackers, Standardized Item IDs, and Vendor Details Tracker, then linking them together with Javascript.
- Curated the Inventory Norms for all Materials used in the production process by using historical sales and sales forecasts.

PROBLEM STATEMENT



Inefficient production planning led to personnel overtime and attrition



Lack of Inventory Norms led to panic material purchases, and nonmoving materials in the warehouse



Risk of non-scalability and losing customers to competitors

SOLUTION

Phase 1

Securing the Current Stock in the Warehouse with standard processes Phase 2

Production and Procurement
Planning by curating SOPs,
Inventory Norms, and
Material Planning Workflow

Phase 3

Tracking Key Indicators at the factory to showcase improvement of Process Indicators.

OUTCOME



Inventory Loss reduction by 30%



Servicing the market better



Working Capital Management by having better inventory Norms





Connect to Create

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