

Build World Class Food Factories

A presentation by PMG Engineering Private Limited

Most Important Takeaway

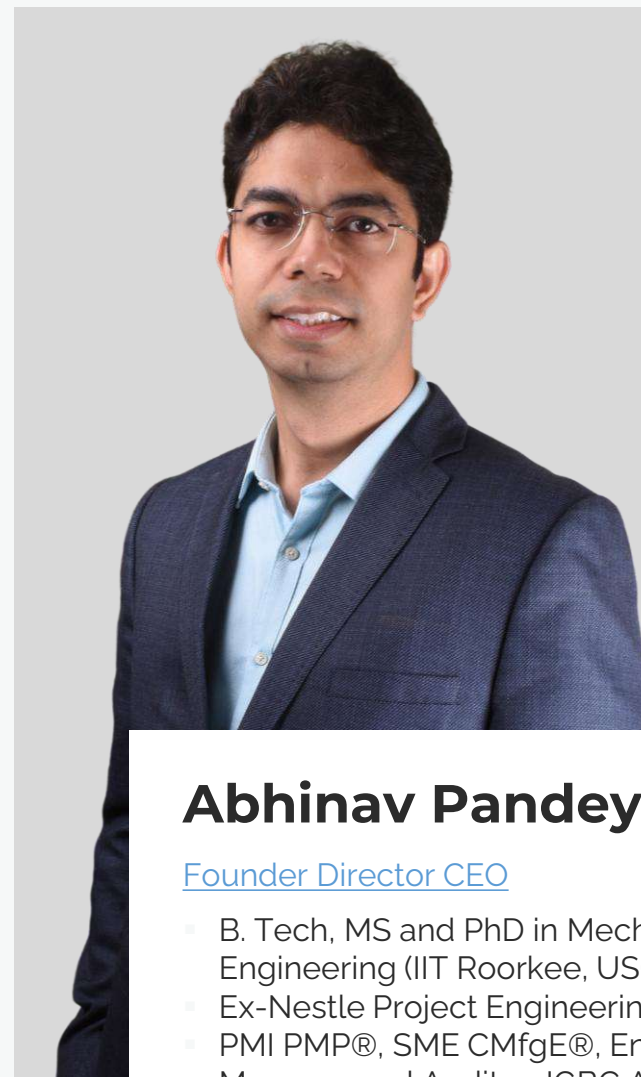
Good Engineering is the difference between Chaos and Excellence

It is not optional but essential to a profitable food factory

It saves money, in both project cost and operational expenses

The real question isn't, do I need Engineering?

Rather, am I ready to risk ~95% of my investment to save the ~5% cost of Engineering?



Abhinav Pandey

[Founder Director CEO](#)

- B. Tech, MS and PhD in Mechanical Engineering (IIT Roorkee, USC USA)
- Ex-Nestle Project Engineering Manager
- PMI PMP®, SME CMfgE®, Energy Manager and Auditor, IGBC Accredited Professional

Contents

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Why PMG

We save your money and time, build sustainable state-of-the-art factories which you can be proud of

2

What We Do

End-to-End Engineering Design and Project Management to build world-class food factories

3

How

Safe-by-Choice. First Time Quality. Maximize Value. Objectivity. Ownership. Reliable and Trustworthy Business.

4

Success Stories

Reference projects. Our contribution to clients, consumers, and environment

5

About PMG

Expert Engineers, working towards business growth of our clients and well-being of end-customers

6

Initiatives

Digital Transformation, Food Literacy, Safety, Sustainability, and Diversity



Why PMG

We work as if it is our money which is getting spent on the project and therefore be spent wisely.



A good food factory

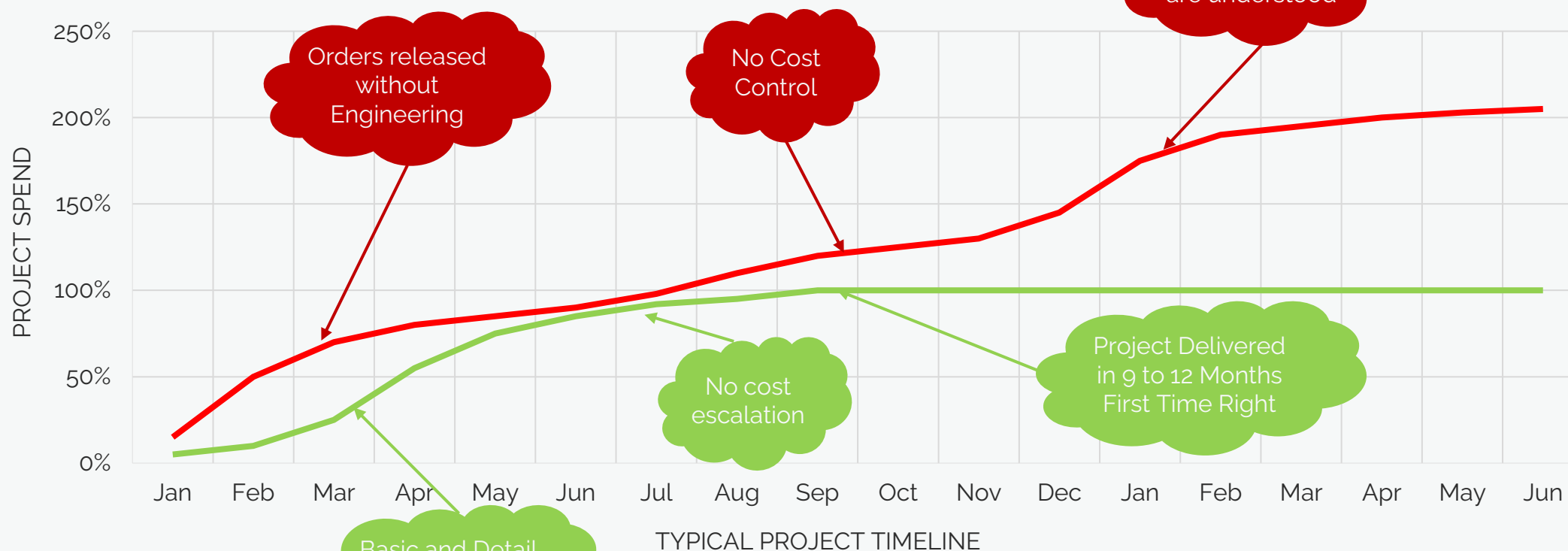
- ✓ Sustainable production of safe, reliable and consistent products
- ✓ Factory is run via fool-proof and fail-safe systems, monitored by operators
- ✓ Meets food safety compliances and exceeds the quality of competition brands
- ✓ Management focus on improvement of productivity, innovation and growth
- ✓ Recognized as industry leader for 15-25 years in operation, easily upgradable
- ✓ 0 Waste. 1 Team. 100% Engagement. Inspirational work culture.



A bad food factory

- ✗ Random variations in quality of products failing required norms and expectations
- ✗ Factory is run unsystematically by operators, without historical logging
- ✗ Typically fails food safety compliances and second choice to competition brands
- ✗ Management is always in firefighting mode to just keep the production running
- ✗ Recognized as poorly designed and constructed, upgradation is unviable
- ✗ High Waste. Lacking teamwork. Work culture resists any improvements

Project Cost Spend

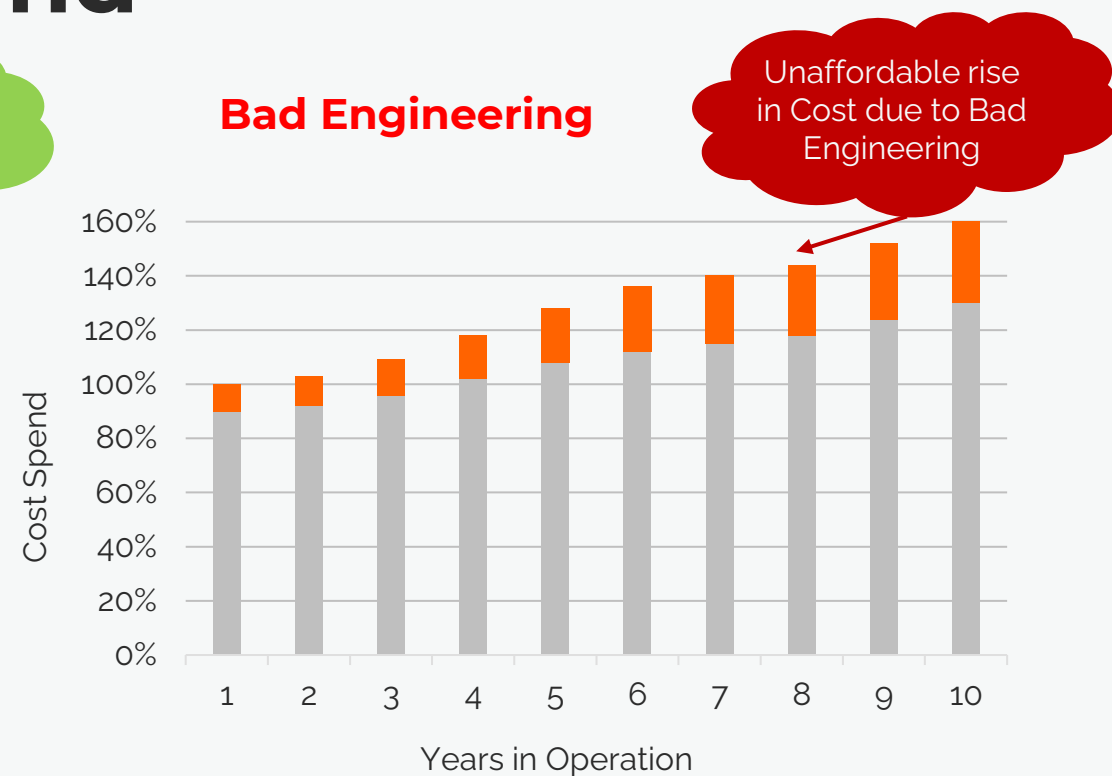
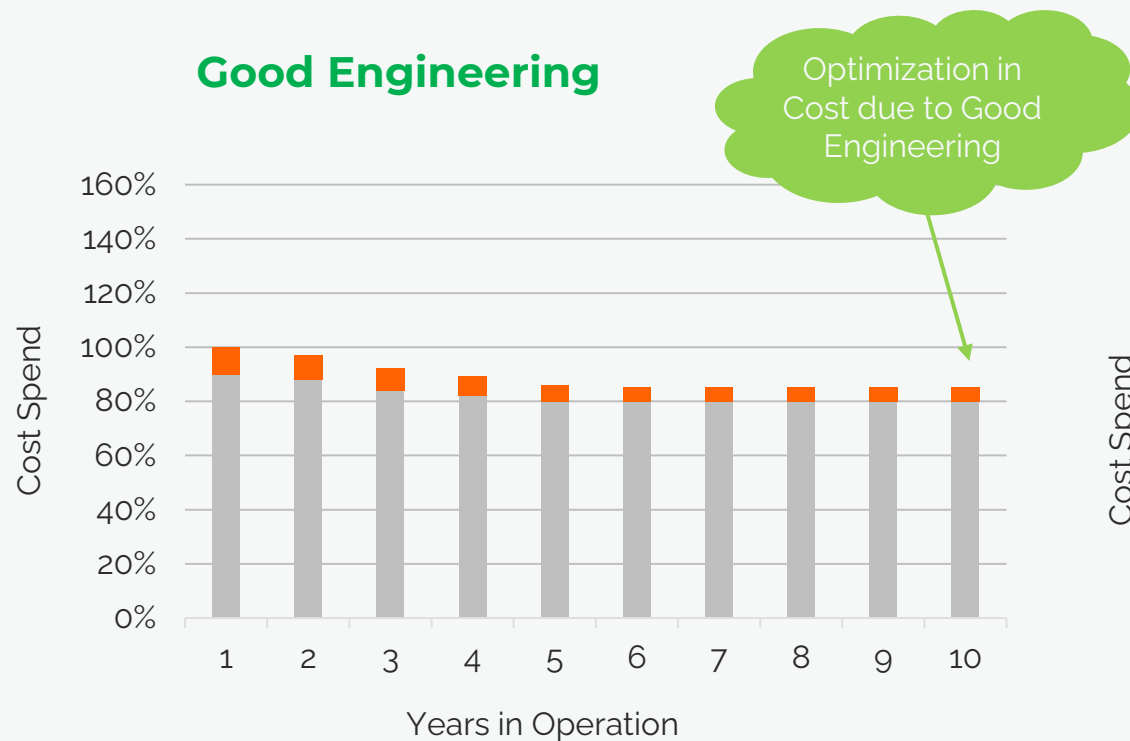


- **Good Engineering**
- **Bad Engineering**

Bad Engineering causes

- **100%** increase in Project Cost
- **100%** delay in Project Schedule

Operational Cost Spend



- Cost of Processing**
- Cost of Maintenance**

75% Savings in cost of Production and Maintenance is possible with **Good Engineering**

Design + Build your Food Factory for the Future

Meeting Global Food Safety and Hygienic Engineering Standards

Always worried despite having many consultants?

Beware! Consultancy is not Engineering.

Engineering is end-to-end capability for getting the job done.

PMG vs Traditional Consultants

Key Differentiators	Traditional Consultants	PMG Engineering
Team Epertise	Limited expertise in food-specific domains	Multidisciplinary team across all food factory domains
Industry Experience	Generalized experience , not food-focused	Extensive hands-on experience in food processing
Innovation	Standard, conventional approaches	Visionary, first-of-its-kind designs
Transparency	Verbal instructions , unclear processes	100% transparency with formal documentation
In-House Design & Resources	Reliance on external or ad-hoc teams	Fully in-house design with dedicated resources
Client & Supplier Collaboration	Minimal guidance or involvement	Educates and supports clients and suppliers

Demonstrated Excellence

235+

PROJECTS
DELIVERED

70+

HAPPY
CUSTOMERS

12+

COUNTRIES IN
TOTAL

64+

FOOD
FACTORIES-
GREENFIELD

95+

FOOD
FACTORIES-
EXPANSION

86+

FOOD
FACTORIES-
UPGRADATION

17,452+

INR CRORE
CAPEX
DESIGNED

2,617+

INR CRORE
CAPEX
SUPERVISIED

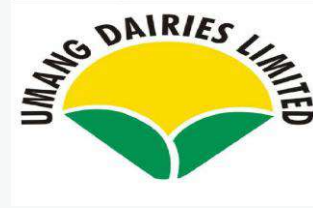
18,758+

TON PER DAY
PRODUCTION
ENABLED

Key Clients (1 of 3)



Key Clients (2 of 3)



Key Clients (3 of 3)



Tasty Dairy Specialities LTD.



Walko Food Company Private Limited





What We Do

End-to-end engineering to setup or upgrade food factories meeting global standards.



TRUST

Unbiased Engineering in the Best Interests of our Clients

■ Safe by Choice

■ First Time Quality

■ Maximize Value

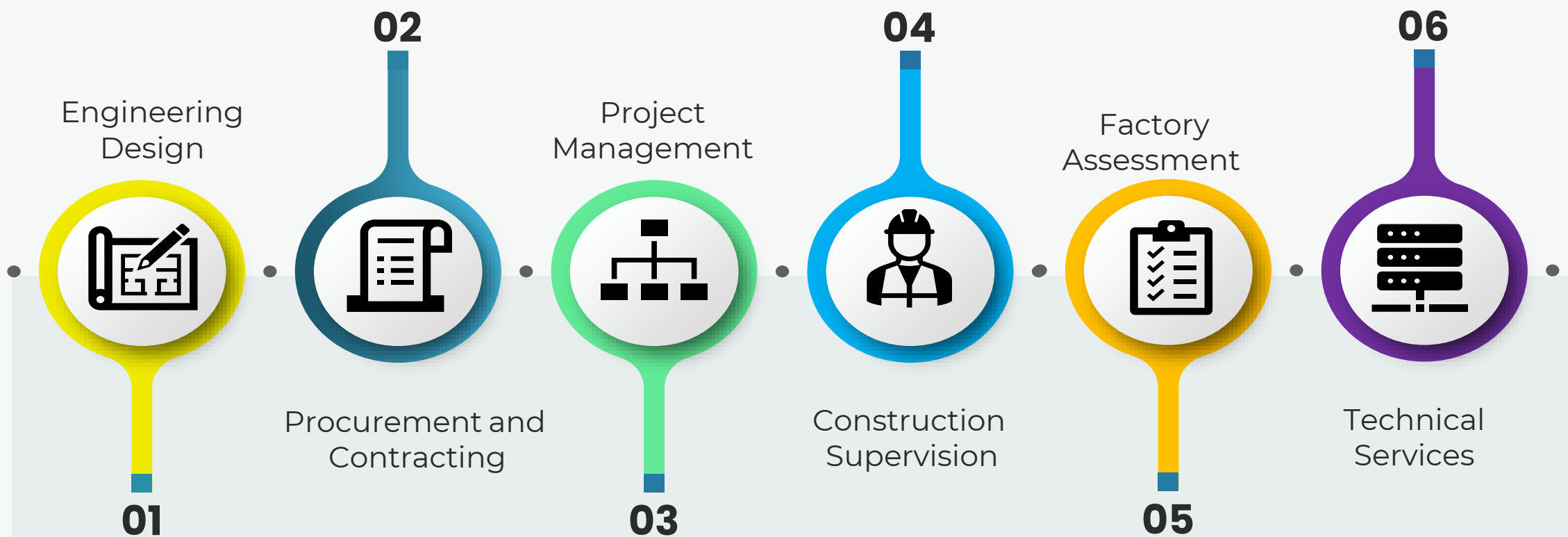
■ Ownership

■ Objectivity

■ Reliable and Trustworthy Business

One-Stop End-to-End Engineering Solution

Our expertise and services span all areas of engineering and management required to build best-in-class food factories. Our integrated offering enables a single-window solution with end-to-end responsibility.



1. Engineering Design

With an experience of 200+ projects in various food categories, we are experts in the design of food manufacturing facilities. We take care of all aspects of factory design in one place including Process, Building and Civil, Utilities, Electrical and Automation, Quality Assurance, and others.

Our design meets global standards on food safety and hygienic engineering. We can build new factories from ground-up, expand existing factories to add capacity and upgrade an old or non-compliant unit to best of standards.

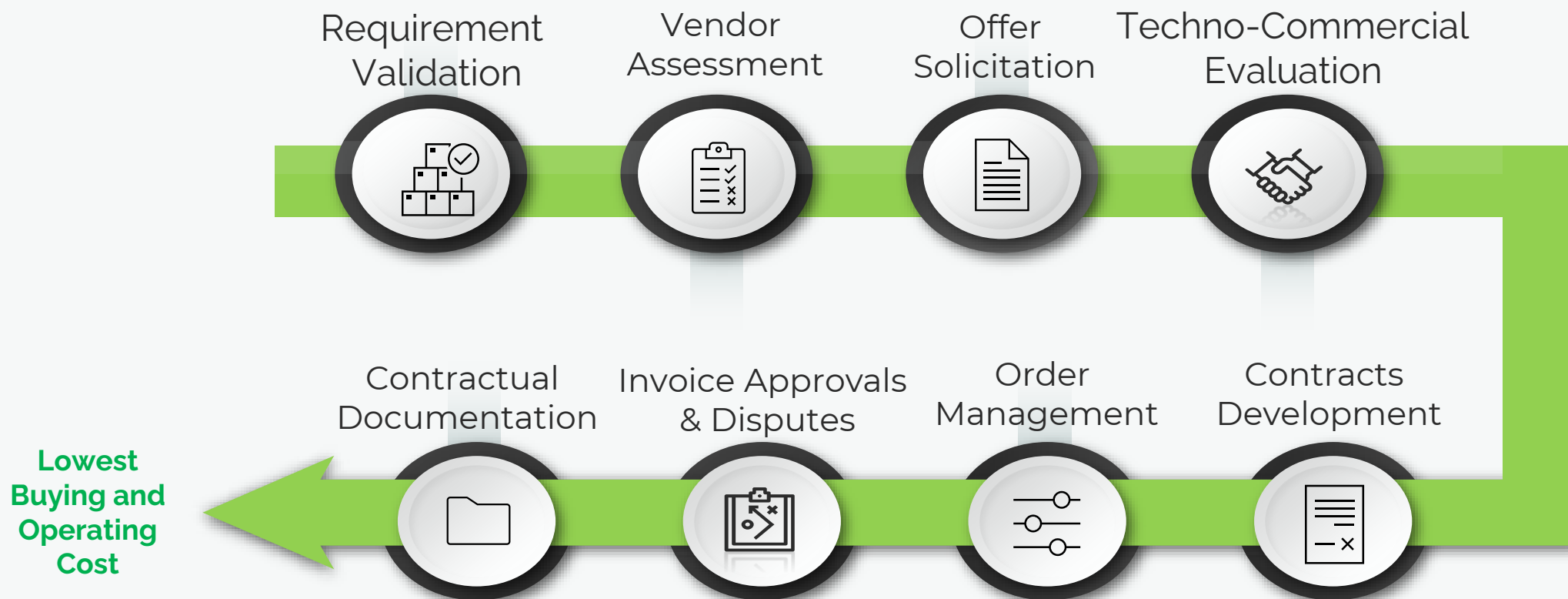
Solving a problem that does not exist, or which is not fully understood, or which is not aligned with business goals is simply bad engineering. We do not aim to build the world's best factory for you, as you may not need it. We are here to design and build as per the needs of your business.

Digital Operations
Engineering Documentation
Quality Assurance
Electrical & Automation
Building and Civil
Industrial Services
Process & Equipment
Value Engineering
Basic Design
Concept Design
Feasibility Study



2. Procurement and Contracting

We provide unbiased, state-of-the-art, and fast procurement and contracting support. We understand that a chain is as strong as it's weakest link. Therefore, we don't cut corners, select the very best suppliers and contractors, and ensure lowest total cost of ownership. Ultimately, we aspire to build something we can be proud of for the rest of our lives.



3. Project Management

We provide end-to-end project management services and support to handhold projects from concept to production, across its complete lifecycle, and take ownership of achieving the project objectives. With PMG onboard your project, you basically add a full-scale engineering team to your existing organization for the purpose of executing your project. We do not aim to build the world's best factory for you, as you may not need it. We are here to design and build as per the needs of your business.



Project Integration

Project Reporting

Procurement Management

Risk Management

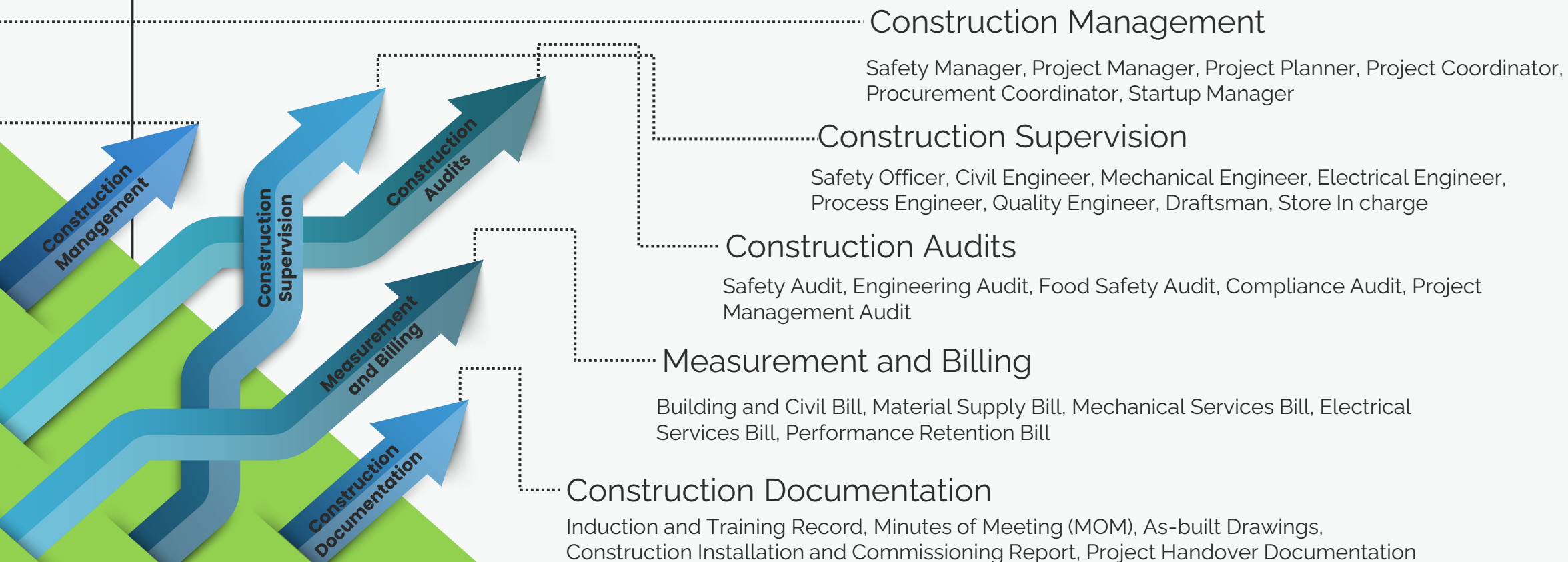
Quality Management

Scope, Schedule, and Cost

Safety & Health Management

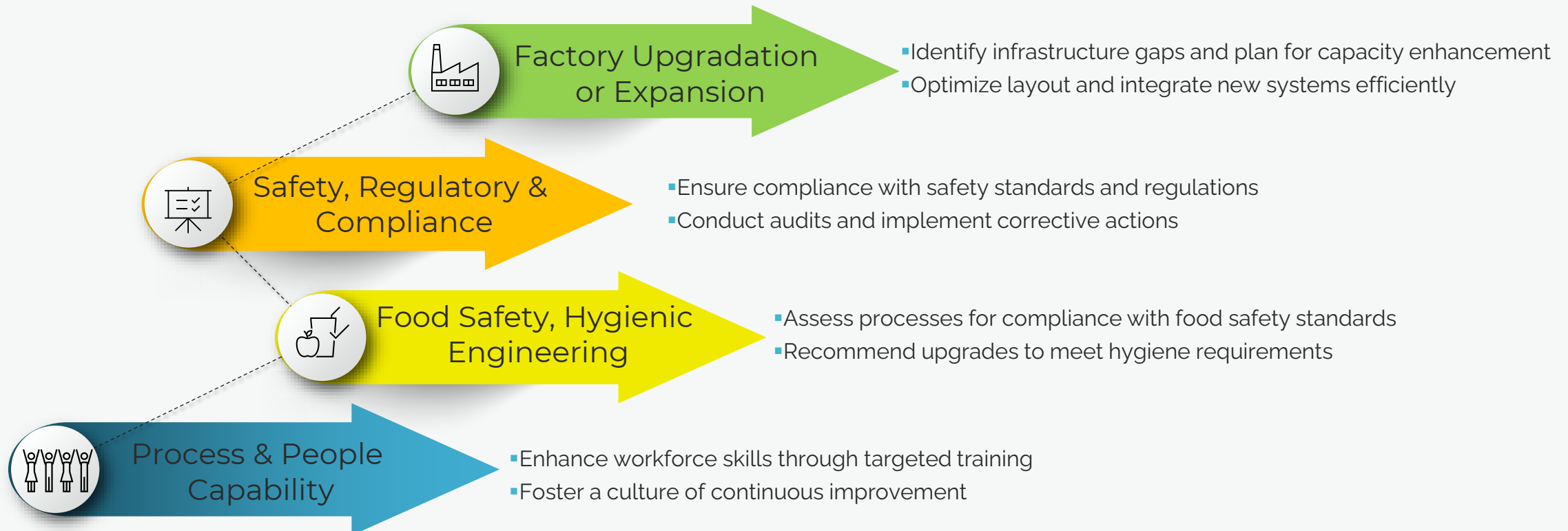
4. Construction Supervision

Our supervision services can achieve project objectives, avoid delays and rework, and ensure adherence to food safety requirements in construction and installation. Our expertise makes-up for any deficiencies in design documents or contractor workmanship. We enable quick decisions by early escalation and resolution of issues.



5. Factory Assessment

We are experts in upgrading existing factories to comply with and qualify the requirements of Food Safety standards, Institutional/ MNC customers, and others including Nestle, Mondelez, Abbott, and similar MNCs while strengthening their own brands. We begin with a factory audit to identify gaps, followed by engineering to develop solutions with scope, cost, time, benefit, procurement support to onboard right vendors, and site supervision to ensure first-time-right implementation.



6. Technical Services

Engineering studies validate designs, ensure safety, optimize performance, and provide insights for informed decisions, such as NDT crack tests for equipments, land surveys, soil investigations, and structural stability checks.

A well-functioning factory relies on systems to operate efficiently, while people monitor and improve performance. System with SCADA, auto data logging and upgradation to achieve these.

Priority Assistance offers services such as prompt technical support, machinery breakdown assistance, and solutions for contractor-related issues, ensuring quick resolutions to minimize downtime and maintain smooth operations in critical situations.

We offers technical training to optimize food factory performance, with experienced trainers ensuring effective knowledge transfer for better outcomes in Projects, Operations, and Leadership.

Engineering
Studies



Process
Automation



Training and
Skill Building



Breakdown
Assistance





How

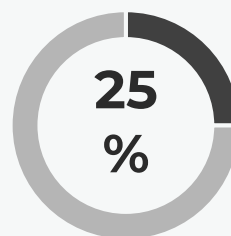
We customize the engineering process, aligning with the customer's vision before procurement or execution.

Tailored for you

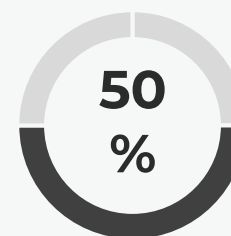
Customized Engineering for your unique needs

We spend considerable energies on deeply understanding our client needs, requirements and expectations.

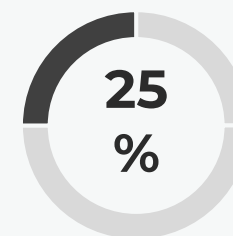
Solving a problem which does not exist, is not fully understood, or is not aligned with business goals is simply unacceptable engineering.



Needs



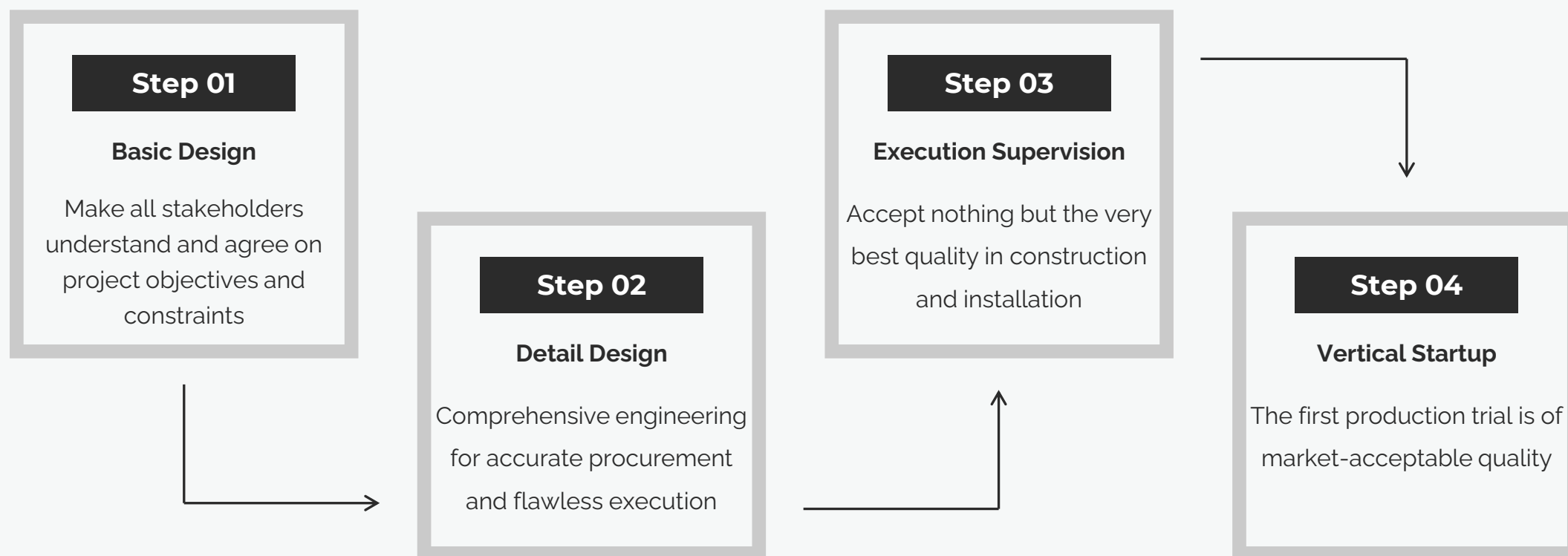
Requirements



Expectations

We handhold clients in clearly articulating their needs, requirements and expectations are unclear, before solving them.

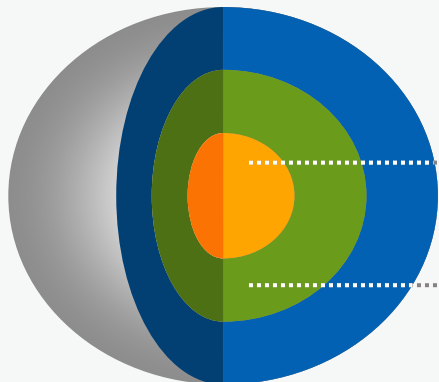
The Proper Way to Engineering



Integrated Engineering

Our team comprises engineers from all domains—including process, civil, mechanical, electrical, automation, quality, safety, design, and execution supervision—ensuring seamless project support with a single point of responsibility.

With these full-time, in-house expert team, we avoid outsourced activities, and hence bringing all engineering disciplines together under one roof, providing more concurrent engineering ensuring collaboration among cross-functional teams, reduces development time, and improves efficiency by identifying and resolving issues early in the process.



All engineering disciplines under one roof

Full-time, in-house expertise—no outsourcing

Concurrent engineering approach



Hygienic Engineering

Hygienic Engineering captures many concepts, from simple to complex, but ultimately is use of “common sense” towards ensuring production of “safe, reliable and consistent products”.

Hygienic Engineering (HE) in essence is knowledge & procedures developed over time. Therefore, the most efficient way towards HE in projects is to refer to lessons learnt documents of previous similar projects.

We work only in food and beverage-based project; hence all our engineers have expert knowledge about food safety. We understand what is not Hygienic Engineering! i.e., over-designing systems & processes, buying the costliest equipment and services, buying imported equipment, turnkey supply/ solution instead of Individual packages etc.



We cannot eliminate all risks, it is just not possible. What is possible is to minimize the risk and manage the residual risk- with Good Engineering.

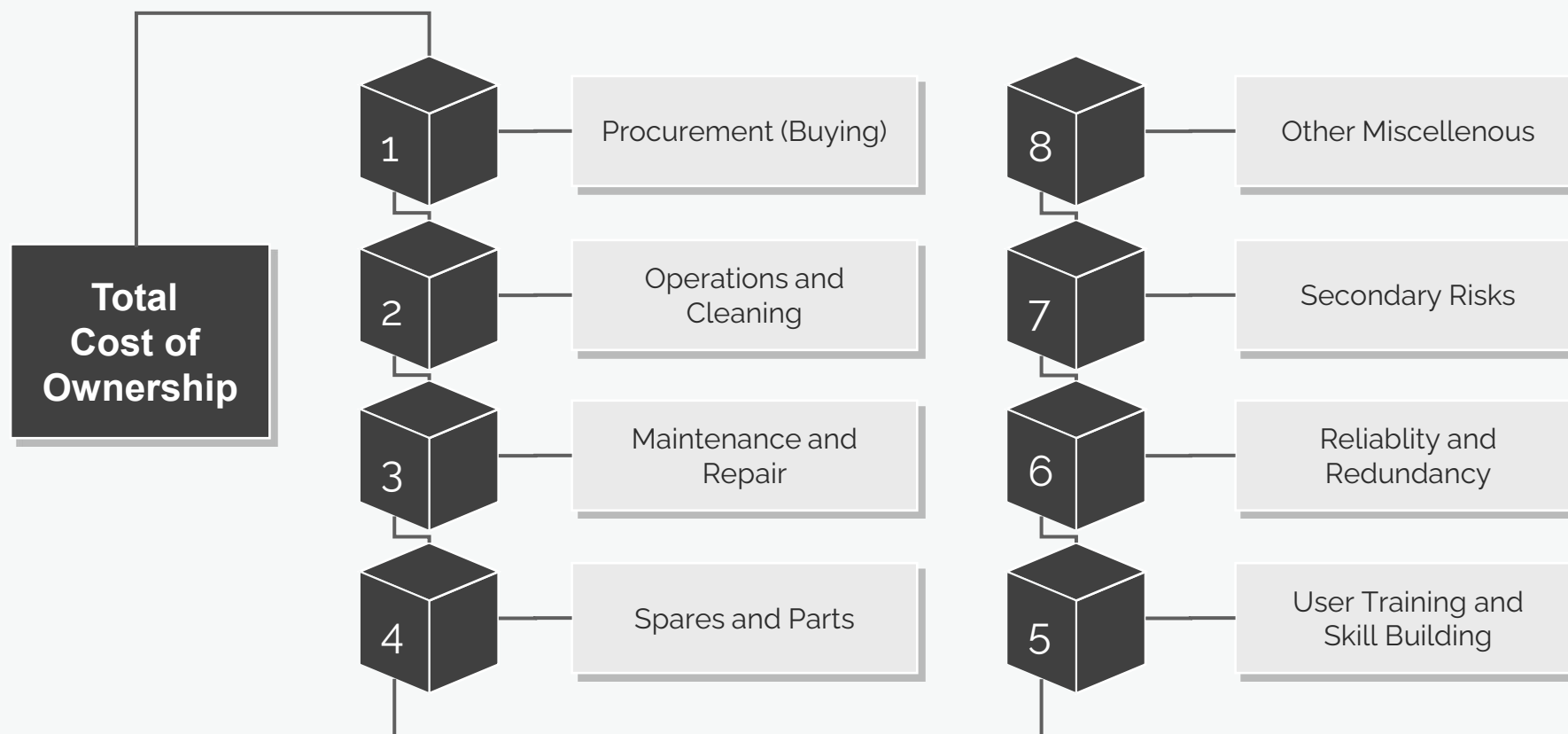
Design + Supervision

For clients who are looking for nothing but the very best in design, procurement and execution to set new benchmarks, we offer single window turnkey solutions. We understand that a chain is as strong as it's weakest link. Therefore, we don't cut corners, select the very best suppliers and contractors, and ensure quality project management. We take a balanced approach to adhere to industry best practices with improvisations to create new benchmarks. Ultimately, we aspire to build something we can be proud of for the rest of our lives.



- ❑ We support a project from conceptual design to production and take care of both design and execution.
- ❑ We have unparalleled knowledge and experience in doing projects, while supported by team members with operations experience.
- ❑ Our expertise in Process Design, Industrial Design, Layout Engineering, and Hygienic Engineering, coupled seamlessly with civil, utility, electrical, and other key aspects of factory design provides our clients single window solution to all engineering needs for a food industry project.

Total Cost of Ownership (TCO) Method



Bad suppliers, consultants, project teams tend to focus ONLY on the "buying" cost, to achieve objectives of low initial project cost, etc. sacrificing the long-term benefits.

Sometimes the equipment with highest quality and cost, has the minimum TCO. Almost all the times, an equipment or contractor with lowest cost, has the highest TCO.

Success Stories

A few proud memories of our work and happy customers. For us, there is no greater feeling in retrospect than to handhold a project from concept to commissioning.

Our Works



**Owners and
Stakeholders**



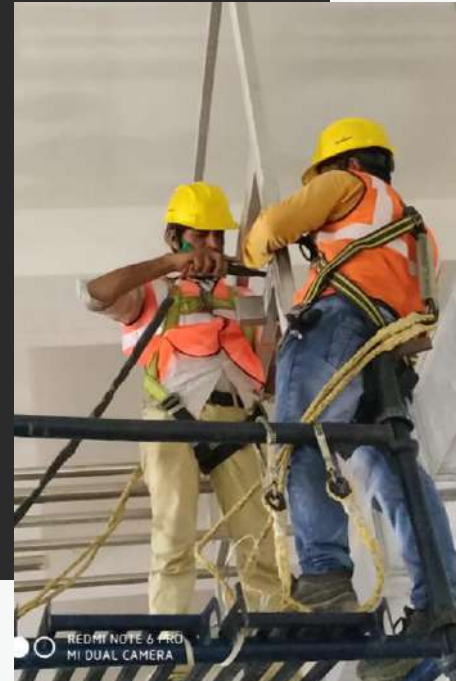
**Project teams &
Operation staff**



■ Safety isn't expensive, it's priceless.

2,000,000+ Safe Work Man Hours

by PMG Safety Officers



Reference Project 1

Completed

Client

Benni Foods Limited, Uganda, Africa

Project

600 KLPD Milk By-Products Factory - Casein, Lactose & Whey

Highlights

A greenfield venture aimed at creating a state-of-the-art dairy processing plant, with eco-friendly utilities including a coffee husk-fired boiler

Value Created

The facility adhered to the specified quality and compliance standards. Strategic time management ensured that key milestones were achieved on schedule, while effective collaboration between all stakeholders



Reference Project 2

In progress

Client

Seba Foods Zambia Ltd, Zambia, Africa

Project

60 TPD Soy Products Manufacturing

Highlights

Focusing on increasing production capacity, diversifying product offerings, and enhancing competitive position, the expansion envisages production in phase wise manner.

Value Created

A substantial increase in production capacity, aligned with a long-term growth strategy by strategically planning for both immediate production boosts and future capacity needs, while maintaining flexibility for future expansions.



Reference Project 3

Completed

Client

Schreiber Dynamix Dairies Ltd, Fazilka, India

Project

UHT Juices – 4 No. Tetrapak Lines

Highlights

4 No. Tetrapak production lines with high quality sugar dissolving, pulp unloading, processing, and CIP sections. Box-in-box factory with scalable and modular design.

Value Created

Supported in land plot finalization, design, construction supervision and vertical startup. Our work brought savings in Capex, optimized Opex and maintenance costs.



Reference Project 4

Completed

Client

Nestle Lanka PLC, Kurunegala, Sri Lanka

Project

30 TPD Coconut Milk Powder

Highlights

World's largest coconut milk powder manufacturing facility. Planned in the center of an operational facility, the project design and execution was very challenging.

Value Created

Value engineering in all aspects of project to produce deliverables with high level of food safety and hygienic engineering. Site supervision to handhold contractors.



Reference Project 5

Completed

Client

Sepoy Drinks Pvt Ltd., Uttarakhand, India

Project

200 BPM Carbonated Flavored Drink Factory

Highlights

Collaborating closely with vendors to source high-quality equipment suitable for tonic water production by meeting the specific product requirement for small and uniformed sized bubbles for the fizz.

Value Created

Implementation of lean principles with uniform flow of materials without any risk of cross-contamination. Supported the project from budgeting to production.



Reference Project 6

Completed

Client

AAK India Private Limited, Maharashtra, India

Project

Edible Oil Processing Factory - Factory Expansion

Highlights

Completion of design ensured robust infrastructure, work included a comprehensive assessment and upgrade of existing utilities infrastructure, such as buildings infrastructure and electrical systems.

Value Created

Essential infrastructure upgrade needs identified with preliminary audit and accommodated resolution of existing infrastructure design in expansion design ensuring stability and durability.



Reference Project 7

Completed

Client

Pernod Ricard India Pvt. Ltd, Haryana, India

Project

400 BPM Alcoholic Beverage Bottle Washing Factory

Highlights

This facility stands as a testament to PMG's engineering excellence and commitment to sustainability and a benchmark for environmentally conscious production in India.

Value Created

By enabling bottle reuse, the project significantly reduced waste, water usage, and energy consumption, directly contributing to Sustainable Development Goal (SDG) targets



Reference Project 8

Completed

Client

Elven Agri Company Ltd, Tanzania

Project

15 TPD Dried Fruits – Mango, Banana, Papaya, Pineapple

Highlights

Facility is certified by BRC, USDA Organic, Organic & Rainforest Alliance, and others. Well designed factory masterplan and layout for smooth material movement.

Value Created

In addition to 24x7 remote design and supervision, recommendations on the best equipment suppliers to build an exemplary facility within budget and timelines.



Reference Project 9

Completed

Client

Big Muscles Nutrition Pvt Ltd, Faridabad, India

Project

1 TPH High Quality Nutraceuticals

Highlights

World's best powder mixers, fillers, tipping systems, high hygiene building and environment, compliance to GMP and food safety, advanced process automation.

Value Created

Handholding the client from concept to execution towards becoming the industry leader while respecting project budget constraints and high diversity of products.





About PMG

Competent People. Smarter Work-systems.
Exceptional Customer Interactions.



#1 End-to-End Engineering Company in Food Industry

PMG
ENGINEERING

About PMG

PMG stands for Projects Management Group. It was started in 2015 with a vision to provide world-class Engineering Services to build great food processing factories. PMG is known for its competent people, smarter work systems and exceptional customer interactions.



Engineering for a Better World

We are experts in all engineering domains related to the food industry including process, civil, mechanical, electrical, automation, plant design, quality assurance, and others.

We have systematic offerings for each stage of an engineering project: basic design, detail design, execution, and commissioning.

Vision & Mission

To demonstrate the highest order of human behaviors in everyday work.
We aspire to be an organization you can trust and empower to design and manage your project from conceptual design to production.



Our Vision

To be the customer's first choice worldwide in Engineering of food factories.

Our Mission

To be the world's leading engineering group, providing solutions for food and beverage industries.

Our Core Values

Safe by Choice. First Time Quality. Maximize Value.
Objectivity. Ownership. Reliable & Trustworthy Business.

Strategy

Making customers the industry leaders

We help build world-class food processing infrastructure so that our customers can build world-class food brands. We understand that our customers are not only looking for the best design but also its successful implementation. Therefore, we handhold every aspect of engineering design and execution, with ownership, pragmatism, and excellence.

Engineering must create business value

We believe in any business, only two things are critical, Sales and Innovation. Everything else is a cost including Engineering. Therefore, we strive to produce engineering work which creates both tangible and intangible Business Value, which must be higher than incurred cost and sustainable in future.

Satisfy all stakeholders

We design and build factories which are not only optimal to the Engineer but also meets the expectation of every stakeholder of the project or business. We put immense emphasis on collecting and compiling the needs and requirements from all stakeholders to align the engineering deliverables at an early stage of the project.

Optimal Engineering

We believe "the better" is the enemy of "the good", and it doesn't have to be better, it just has to be good enough. Further, a chain is as strong as its weakest link. Therefore, instead of a bad mix of high quality (cost) equipment with poor quality components, we follow a balanced approach in design, procurement, and execution.

Core Values

Safe by Choice

Everything we do at PMG, begins with Safety. We have the utmost regard for the safety and well-being of people, environment, and natural resources. We strive to inculcate safety behavior, enable safe-work practices, and lead by example.

First Time Quality

We believe Rework, the primary reason for wastage, inefficiency and low quality, is simply unacceptable engineering. We believe in and strive for First Time Right delivery, Zero Rework and Stakeholder Alignment.

Maximize Value

We value client's capital as a one-time opportunity for a better world. We strive to derive the maximum value per unit capital, towards a profitable short-term and sustainable long term capital realization.

Objectivity

Every project is unique, with its opportunities and constraints. We deliver what is required, not what we can deliver or delivered in the past. We are sincere in identifying customer needs & functional requirements, before the design & execution process, to deliver viable, sustainable and result-oriented outcomes.

Ownership

We design and build projects as if they were our own. A good design is as strong as the weakest link. We are flexible, humble and pro-active to support our clients, across battery limits, to achieve the project objectives.

Reliable and Trustworthy Business

Credibility and Trust are fundamental to everything that we do to uphold the dignity and pride of Engineering and Engineers. We are honest, transparent, and fearless in our work and communications.



Initiatives

We believe that the viability of our business is a profound opportunity to make the world a better place. While good engineering is one way, we encourage our people to contribute, in their own way.

Sustainability

At the Core of PMG's Mission

Sustainability is a fundamental pillar of PMG's corporate ethos and an essential aspect of ensuring long-term growth and resilience. As a global leader in food factory engineering and design, sustainability drives every facet of our operations, from conceptualizing projects to delivering cutting-edge solutions. It aligns seamlessly with our commitment to creating food factories that meet the highest standards of hygiene, safety, and environmental responsibility.

Our commitment is further reflected in the progress we have made in recent years. PMG has been instrumental in developing solutions that reduce greenhouse gas emissions in food processing facilities, optimize water usage, and promote circular economy practices by prioritizing materials and designs that minimize waste.

Looking forward, PMG aims to drive innovation and sustainable growth in the food industry. With a roadmap aligned with the UN Sustainable Development Goals (SDGs), we are dedicated to creating resilient, environmentally responsible solutions that address the challenges of tomorrow.

MISSION 25-26

1. Sustainable Engineering & Design
2. Responsible Sourcing & Resource Management
3. Workforce Empowerment
4. Service Excellence
5. Community Impact & Collaboration

Knowledge Repository

**We are a knowledge company
And we believe in Sharing Knowledge**

Everyone has Data. The analytic can process Data into Information. The experienced one can gain Knowledge from Information.

PMG Knowledge repository strings together data, information and knowledge in digestible formats, for everyone, for free.

400+

**Technical
Papers**

250+

**Knowledge
Presentations**

100+

**Video
Lectures**

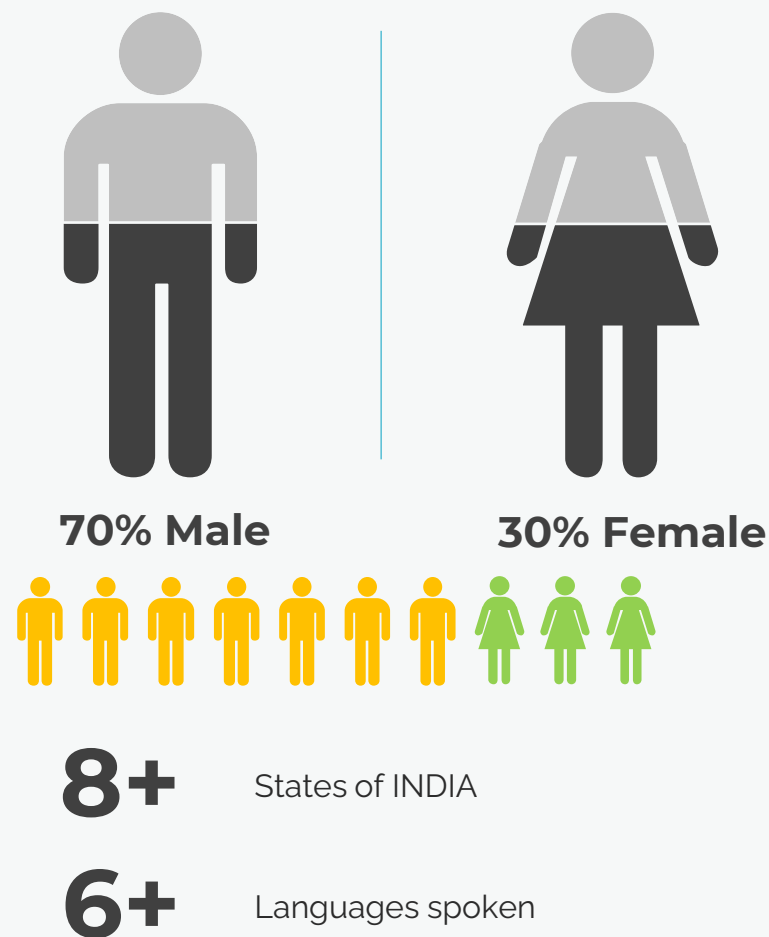


Responsible in Diversity

Equality of Opportunities

At PMG, we believe in equal opportunities for all. We are blessed with a diverse team of amazing people from all geographies, speaking multitude of languages, and unique traditions and cultures, that being from different academic/ engineering disciplines is an insignificant difference in totality.

We are proud of our uniqueness while respectful of alternate perspectives and beliefs, and that makes us true citizens of a civil society.



Build WORLD CLASS Food Factories

Reach us

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