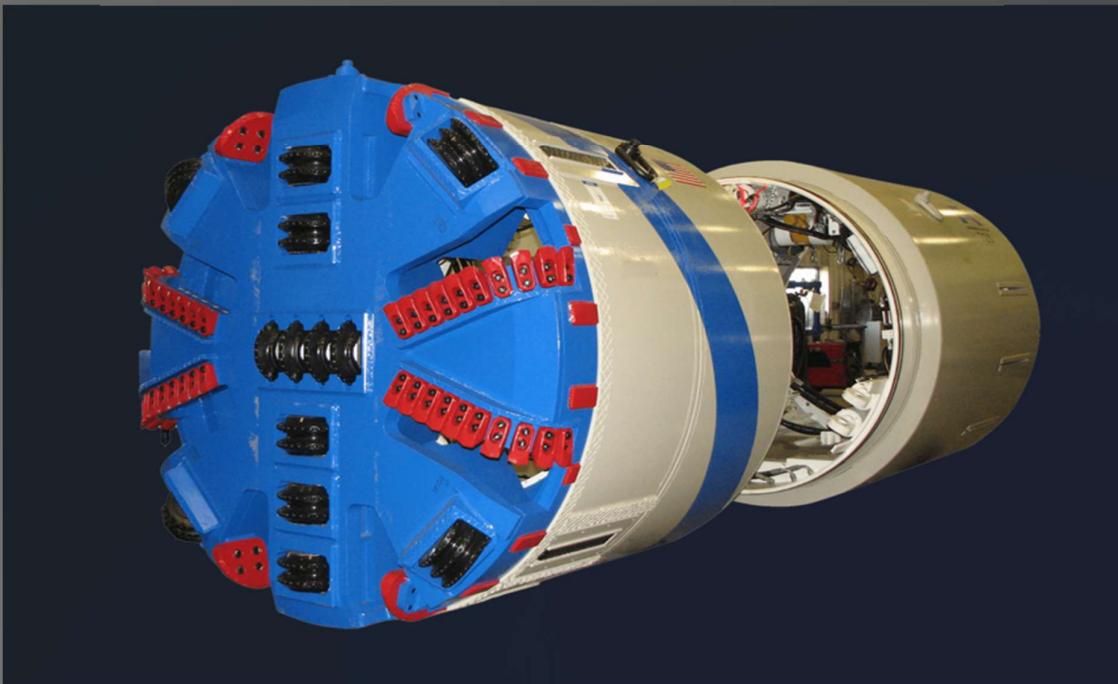


## **Detailed Project Report**

# **M T B**



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### **Manufacturing of TBM (Tunnel Boring Machine) Spares and Machinery.**

#### **Proposed Project Site**

The proposed project is located at Plot No. 43, admeasuring 1011.5 Sq. mtrs, Industrial Park Phase-II, in Sy. No. 644, Dandumalkapur (V), Choutuppal (M), Yadadri-Bhuvanagiri District, Telangana.

#### **Submitted By**

MD. Yaseen Baba (Managing Partner )  
Abdur Rahman ( Partner )

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## Project Synopsis

<b>Particulars</b>	<b>Details</b>
Name of the Company	M T B
Date of Incorporation	17-11-2025
Constitution	Partnership Firm
UDYAM Registration	UDYAM-TS-02-0291161
Address for Communication	12-10-590/35, Indra Nagar Colony, Seethafalmandi, Secunderabad – 500061, Telangana
GST No.	—
Promoters / Partners	1. Md. Yaseen Baba ( Managing Partner ) 2. Abdur Rahman ( Partner )
Category	General
Mobile No.	8985377589
Email ID	<a href="mailto:yaseen_md99@yahoo.com">yaseen_md99@yahoo.com</a>
Line of Activity	Manufacturing of TBM (Tunnel Boring Machinery) Spares and Machines
Proposed Project Location	Dandumalkapur Industrial Park, Phase-2
Plot No.	43
Area Required	1011.5 Sq. Mtrs
Project Cost	522.77 Lakhs
Means of finance	Equity 25% - 130.69 Lakhs Bank Loan 75% - 392.07 Lakhs
Power Requirement	75 HP
Water Requirement	1000 KLPD
Employment Requirement	Direct: 18 Nos. Indirect: 20 Nos.

## Project Introduction

M T B proposes to establish a dedicated manufacturing unit for TBM (Tunnel Boring Machinery) Spares and Machines to cater to the growing infrastructure and tunneling industry in India. The project aims to produce high-precision components, assemblies, and essential spare parts required for the efficient operation and maintenance of TBM systems used in metro rail, water supply tunnels, mining, and other large-scale civil engineering projects.

The proposed unit is planned at Plot No. 43, Industrial Park Phase-II, Dandumalkapur, with a total land requirement of 1011.5 Sq. mtrs. The facility will be equipped with advanced machinery, fabrication systems, and quality testing infrastructure to ensure reliable and durable TBM components. The project is strategically located to leverage excellent industrial infrastructure, connectivity, and access to skilled manpower.

This initiative positions M T B to contribute to India's expanding tunneling and infrastructure development sector while generating employment and supporting local industrial growth.

## Project Purpose & Scope

The primary purpose of the proposed project by M T B is to establish a specialized manufacturing unit for TBM (Tunnel Boring Machinery) Spares and Machines, addressing the increasing demand for high-quality components in India's rapidly expanding tunneling and infrastructure development sector. The project aims to support metro rail projects, water tunnels, mining operations, and other civil engineering applications that rely on precision-engineered TBM systems.

The scope of the project includes the manufacturing, fabrication, assembly, and supply of critical TBM spares, machine parts, and associated components. The unit will also focus on ensuring consistent quality, precision machining, adherence to industry standards, and timely delivery to OEMs, contractors, and infrastructure companies.

The proposed facility, located at Plot No. 43, Industrial Park Phase-II, Dandumalkapur, spread across 1011.75 Sq. mtrs, will be equipped with modern machinery, material handling systems, and quality testing infrastructure. The project scope further extends to establishing a streamlined production workflow, implementing safety and environmental measures, and creating skilled employment opportunities.

This initiative positions M T B as a reliable supplier in the TBM components segment while contributing to the broader growth of national infrastructure.

## Company Details

**M T B** is a newly established partnership firm formed with the objective of setting up a specialized manufacturing unit for TBM (Tunnel Boring Machinery) Spares and Machines. The company aims to cater to the growing needs of metro rail, water supply tunnels, mining, and large-scale civil infrastructure projects across India. With increasing demand for precision-engineered TBM components, M T B seeks to emerge as a reliable and quality-focused supplier in this niche engineering sector.

The firm is promoted by Mr. Md. Yaseen Baba and Mr. Abdur Rahman, who bring strong competency in industrial operations, fabrication activities, and business management. Their combined experience, commitment to quality, and understanding of market requirements position the company for sustainable growth. The company intends to install advanced machinery, follow stringent quality standards, and adopt efficient production practices to meet customer expectations.

Driven by a commitment to precision, reliability, and service excellence, M T B aims to contribute to India's tunneling and infrastructure development sector by supplying robust and high-performance TBM components.

### VISION

To become a trusted and technologically advanced manufacturer of TBM (Tunnel Boring Machine) spares and machinery in India, known for precision engineering, innovation, and reliability in supporting the nation's infrastructure development.

### MISSION

- To deliver high-quality TBM spares and components through advanced manufacturing systems and strict quality control.
- To build long-term partnerships with OEMs, contractors, and infrastructure companies by ensuring timely supply and superior performance.
- To continuously upgrade technical capabilities and adopt modern engineering practices for enhanced efficiency and product life.
- To create a safe, productive, and skill-oriented workplace that promotes innovation and craftsmanship.

### CORE VALUES

## 1. Quality & Precision

Delivering products with high dimensional accuracy, durability, and adherence to industry standards.

## 2. Innovation & Technology Adoption

Embracing modern engineering tools, CNC-based systems, and advanced fabrication techniques.

## 3. Trust & Integrity

Ensuring transparency, ethical manufacturing, and long-term relationships with customers and suppliers.

## 4. Reliability

Providing consistent performance through robust systems, dependable service, and customer support.

## 5. Safety & Responsibility

Maintaining strict safety protocols and environmentally conscious manufacturing practices.

## 6. Customer Commitment

Understanding project needs and offering tailored solutions for MBTM spare parts, machinery, and assemblies.

## 7. Teamwork & Skill Development

Cultivating a collaborative environment where employees grow through training and innovation.

## LONG-TERM GOALS

- To establish M T B as a preferred supplier of TBM spares across India.
- To expand the product range to include complete TBM assemblies and specialized tunneling equipment.
- To build an R&D capability for developing high-performance, cost-effective components.
- To scale up production capacity in alignment with national metro rail and tunneling project demand.
- To achieve certifications such as ISO for quality and process excellence.

## Promoters Profile

### 1. MD. YASEEN BABA

Particulars	Details
<b>Name</b>	MD. YASEEN BABA
<b>Designation</b>	Managing Partner
<b>Qualification</b>	MBA
<b>Residence Address</b>	12-10-590/35, Indira Nagar, Seethafal Mandi, Secunderabad, Telangana – 500061
<b>PAN</b>	BFFPB9000L
<b>Work Experience</b>	17 Years
<b>Net Worth</b>	₹271 Lakhs

Mr. Md. Yaseen Baba, the Managing Partner of M T B, brings 17 years of rich experience in industrial operations, business management, and strategic planning. With an MBA qualification and strong leadership abilities, he oversees overall business development, financial planning, and operational management of the proposed TBM spares and machinery manufacturing unit. His expertise and long-standing industry exposure position the company for sustainable and structured growth.

### 2. ABDUR RAHMAN

Particulars	Details
<b>Name</b>	ABDUR RAHMAN
<b>Designation</b>	Partner
<b>Qualification</b>	M. Pharm
<b>Residence Address</b>	2-6-7/G/122/P/MR/201, Meher Residency, Flat No. 201, Golden Heights Colony, Road No. 8, Rajendranagar, Ranga Reddy District – 500030
<b>PAN</b>	BASPA5824R
<b>Work Experience</b>	3 Years
<b>Net Worth</b>	₹297 Lakhs

Mr. Abdur Rahman, Partner at M T B, is a qualified M. Pharm professional with 3 years of experience. He contributes to administrative management, procurement coordination, and operational support for the manufacturing unit. His academic

background, analytical approach, and commitment to organizational development complement the company's long-term objectives.

## **OWNERSHIP STRUCTURE**

The company M T B is a partnership firm with the following ownership and profit-sharing arrangement:

Partner Name	Designation	Share in Capital / Profit
<b>MD. Yaseen Baba</b>	Managing Partner	50%
<b>Abdur Rahman</b>	Partner	50%

Both partners hold equal ownership and profit-sharing rights of 50% each. Decisions regarding the company's operations, financial management, and strategic direction will be made jointly in accordance with the partnership agreement.

## **Products & Components**

The proposed unit will manufacture **Tunnel Boring Machines (TBMs)** and their associated critical spares. TBMs are sophisticated machines designed to excavate tunnels through a variety of soil and rock strata with high precision, safety, and efficiency. They are extensively used in urban infrastructure projects such as metro rail tunnels, underground utility tunnels, sewage tunnels, and hydroelectric projects.

The manufacturing of TBMs and spares will focus on delivering high-performance, durable, and reliable components to meet domestic and international standards, thereby supporting modern infrastructure development and underground construction projects in India.

### **TBM Machines**

The TBM machines produced will cater to various tunnel diameters and geological conditions. Key features include:

- **Cutter Heads:** Designed for efficient excavation of soft soil, mixed ground, and hard rock. Equipped with disc cutters, scrapers, and ripper tools.
- **Shield & Gripper Systems:** Ensures tunnel stability during excavation, suitable for both earth pressure balance (EPB) and slurry shield operations.

- **Hydraulic Systems:** High-efficiency hydraulic cylinders, pumps, and motors for cutter rotation, thrust, and steering operations.
- **Guidance & Control Systems:** Advanced navigation and control units for precise tunneling operations, including laser guidance, inclinometer, and sensor-based monitoring.
- **Conveyor & Muck Removal Systems:** Integrated mechanisms to remove excavated material efficiently and maintain continuous operations.
- **Support Systems:** Includes slurry treatment systems, segment erectors, and temporary lining systems for operational safety and efficiency.

These TBMs are designed to comply with international standards such as ISO, EN, and ASTM, ensuring long service life, operational safety, and low maintenance requirements.



## TBM Spares and Components

The unit will manufacture a wide range of critical spare parts essential for the operation, maintenance, and repair of TBMs. These include:

- **Cutter and Cutting Tools:** Disc cutters, scrapers, cutting knives, and ripping tools for the cutter head.
- **Hydraulic & Mechanical Components:** Hydraulic cylinders, seals, couplings, bearings, shafts, pipe clamps, and hydraulic hoses.

- Guidance & Control Systems Components: Laser sensors, electrical control panels, servo motors, and monitoring modules.
- Separation and Jacking Equipment Parts: Jacking cylinders, thrust pads, hydraulic hoses, and fittings.
- Conveyor and Muck Removal Components: Conveyor chains, rollers, sprockets, and drive units.
- Miscellaneous Spares: Lubrication units, gearboxes, fasteners, and auxiliary equipment for smooth operation.

All components will be manufactured using high-grade steel, alloy materials, and precision engineering techniques to ensure durability, wear resistance, and high performance under challenging operational conditions.

### Market Position and Applications

The TBM and spares manufactured will serve:

- Metro rail and underground transportation projects.
- Road and highway tunnel construction.
- Hydroelectric and water conveyance projects.
- Urban utility tunnels for sewage, gas, and water pipelines.

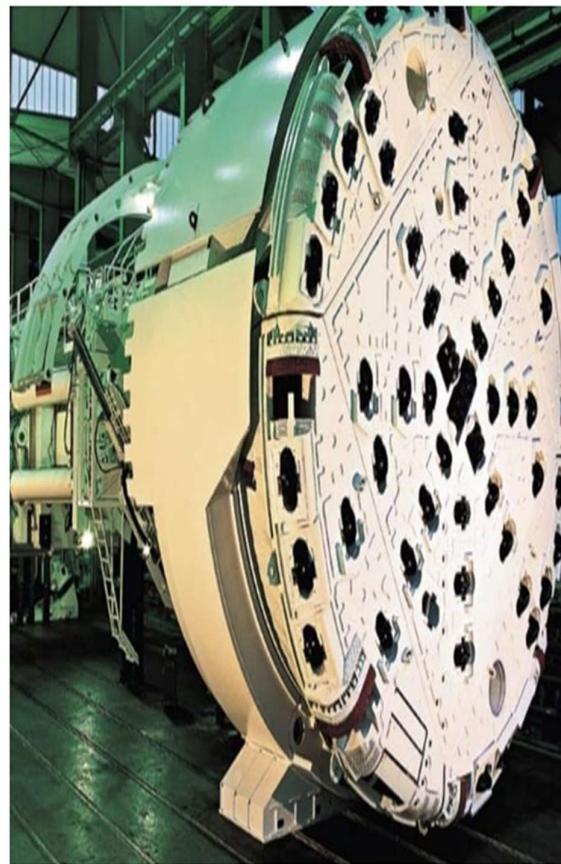
The unit aims to provide end-to-end solutions, including on-site installation, commissioning, and technical support, positioning itself as a reliable domestic supplier for both government and private infrastructure projects.

### Quality Assurance & Standards

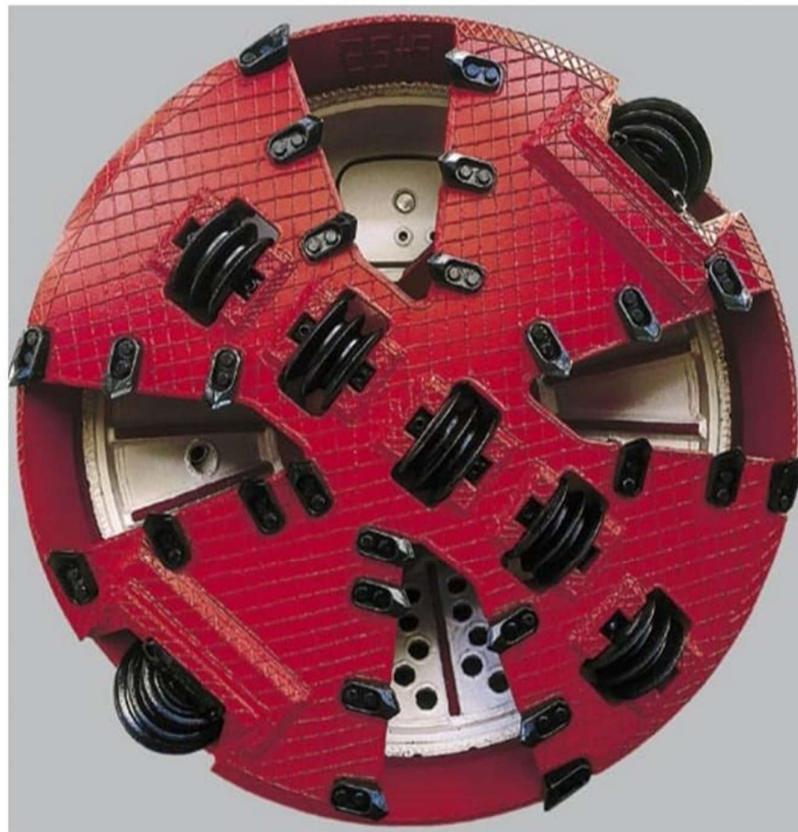
- All products will undergo strict quality control measures including dimensional inspection, material testing, and operational trials.
- Manufacturing processes will adhere to ISO 9001:2015 standards for quality management.
- Spares and components will be designed to international standards, ensuring compatibility with imported TBMs and supporting maintenance operations.



CUTTER TOOLS	CUTTER SIZE	CUTTER TYPE
	19"	Single Disk
	17"	Twin Disk
	17"	Monoblock Double Disk
	17"	Twin Disk
	17"	Single Disk
	17"	Monoblock Single Disk
	17"	Monoblock Single Disk
	17"	Monoblock Single Disk
	14"	Monoblock Single Disk



MPA	MATERIAL	SPECIAL FEATURE
up to 350	hardened and tempered steel	
up to 350	high-alloy tool steel	
Single: up to 350 Double: up to 200	high-alloy tool steel	pressure compensation
up to 100	hardened and tempered steel	pressure compensation
Single: up to 350 Double: up to 250	high-alloy tool steel	
up to 200	high-alloy tool steel	
up to 350	high-alloy tool steel	
Single: up to 350 Double: up to 200	high-alloy tool steel	
up to 150	high-alloy tool steel	
up to 100	high-alloy tool steel	



**"Our Cutter Disks for every ground Condition"**

Our cutter discs are engineered to tackle even the toughest challenges in tunneling. Whether you're working in soft soils, mixed ground, abrasive rock, or hard rock formations, our discs are designed to deliver optimal performance across all geological conditions.

Built with advanced materials and customizable cutting edges, our cutter discs ensure maximum efficiency, durability, and reliability—making them the ideal choice for any ground type.

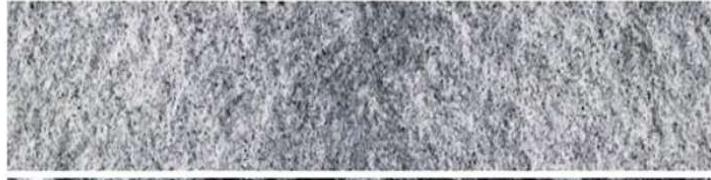
Soft Ground



Mixed Ground



Hard Rock



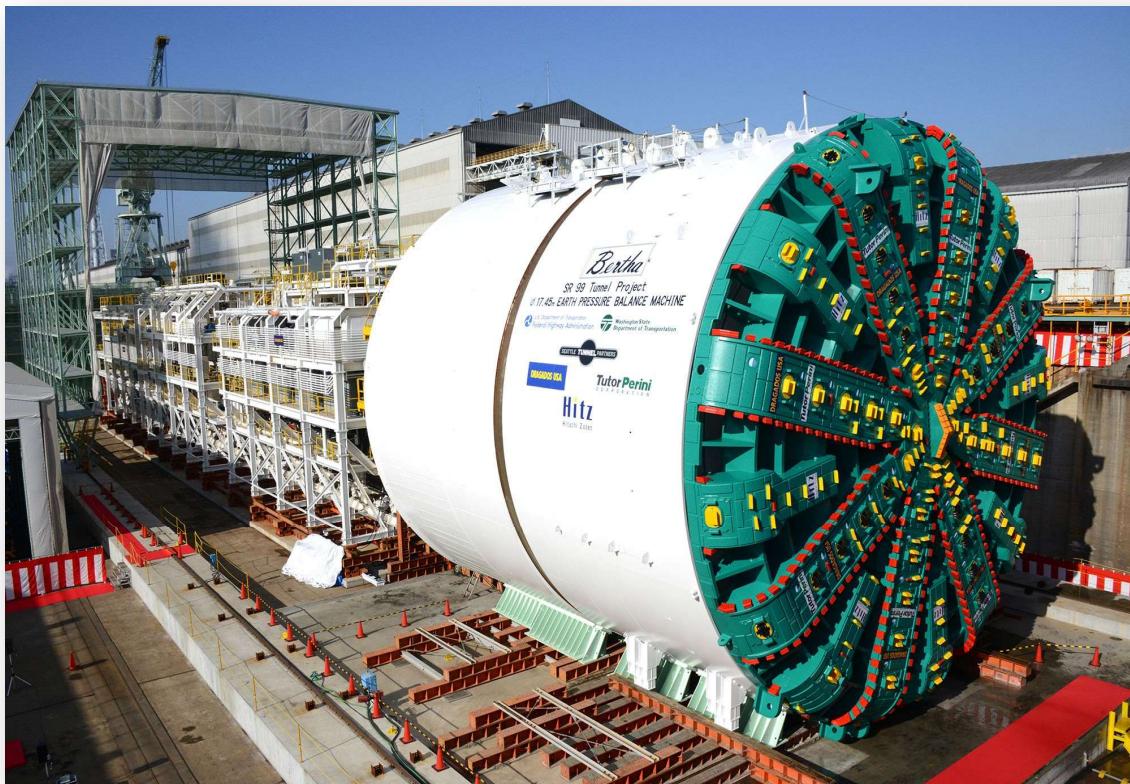
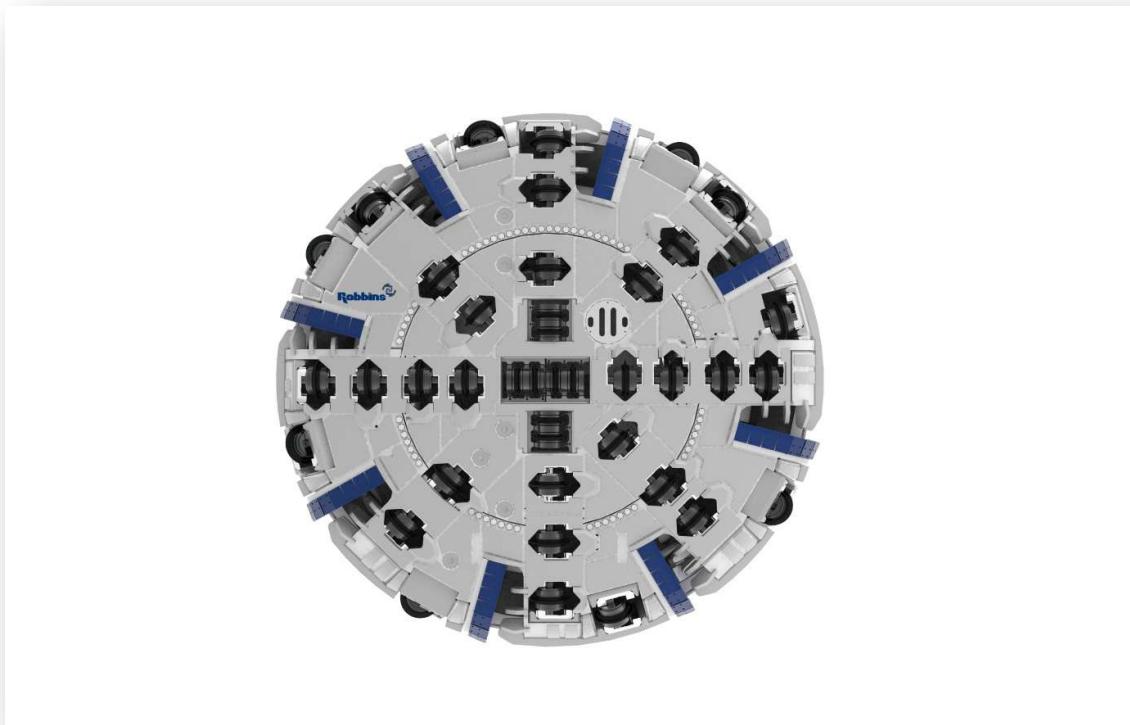
### UTILITY TUNNELLING

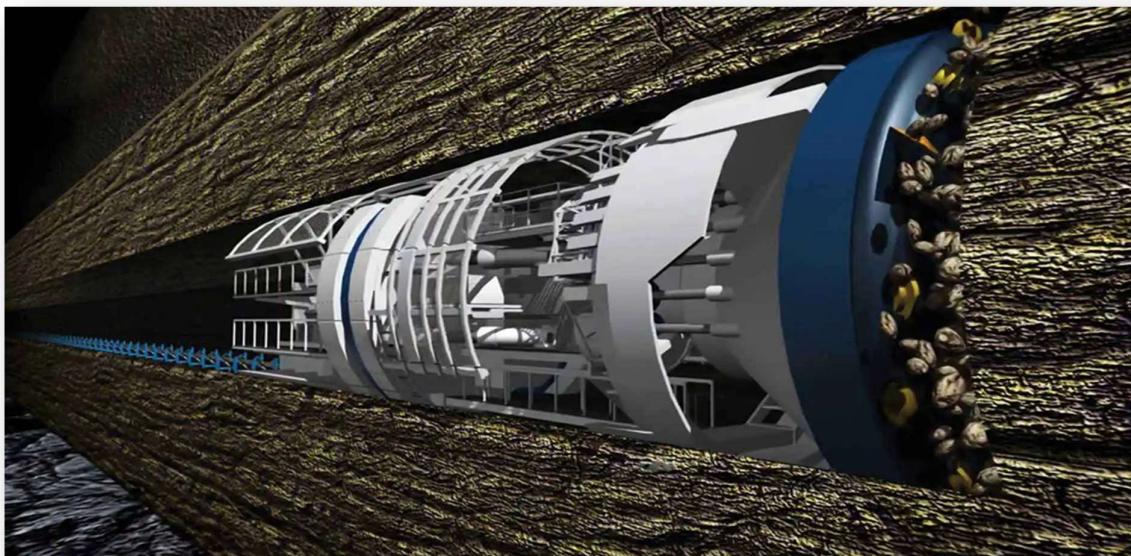
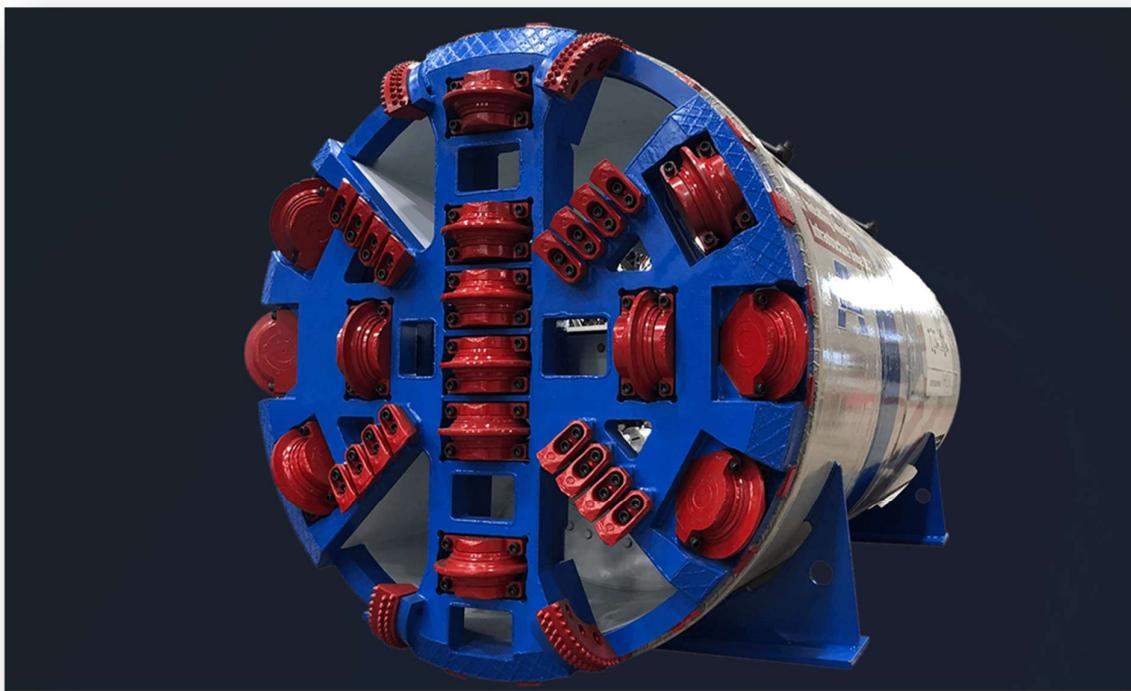
CUTTER TOOLS	CUTTER SIZE	CUTTER TYPE	WEIGHT	BEARING	SUITABLE GEOLOGY	POSITION OF THE CUTTERHEAD
 	17"	Single Disk	125kg	high-quality bearing 17" type	Mixed Ground Hard Rock	face area gauge area
 	17"	Twin Disk	277kg	high-quality bearing 17" type	Mixed Ground Hard Rock	center area
 	14"	Double Disk Single Disk	95kg	high-quality bearing 14" type	Mixed Ground	face area gauge area
 	12"	Monoblock Double Disk Monoblock Single Disk	70kg	high-quality bearing 12" type	Mixed Ground	face area
 	12"	Single Disk	69kg	high-quality bearing 12" type	Mixed Ground	face area gauge area
 	11"	Single Disk	58kg	high-quality bearing 11" type	Hard Rock	face area gauge area
 	8"	Mb. Double Disk Mb. Single Disk	18kg	high-quality bearing 8" type	Mixed Ground	face area gauge area

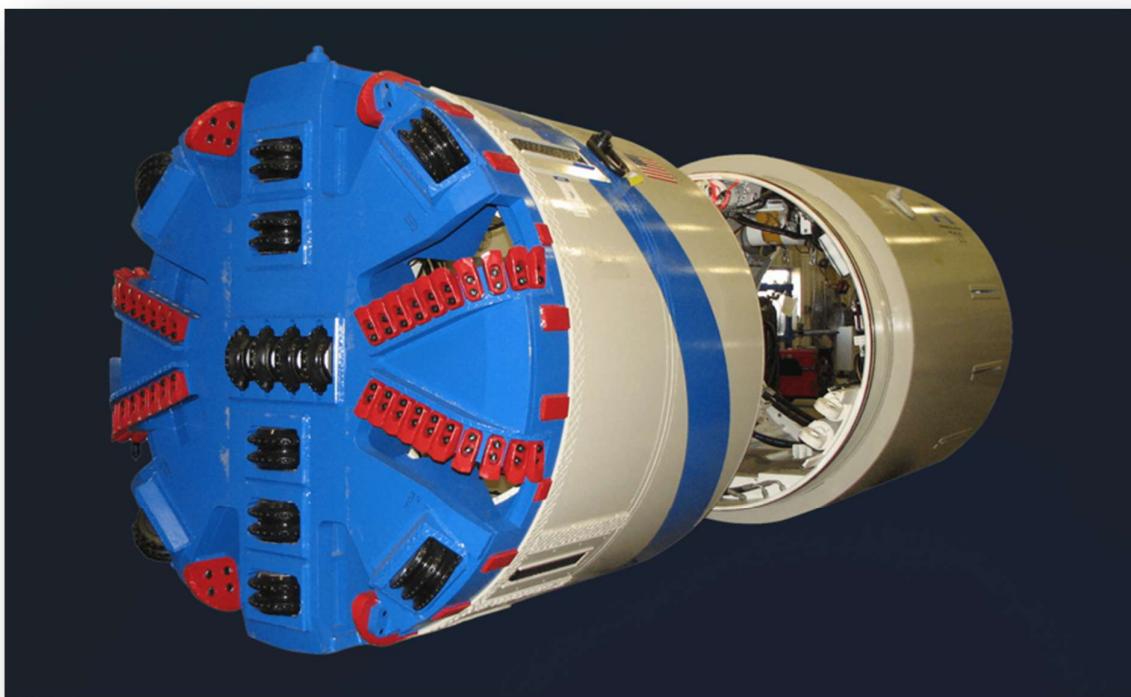






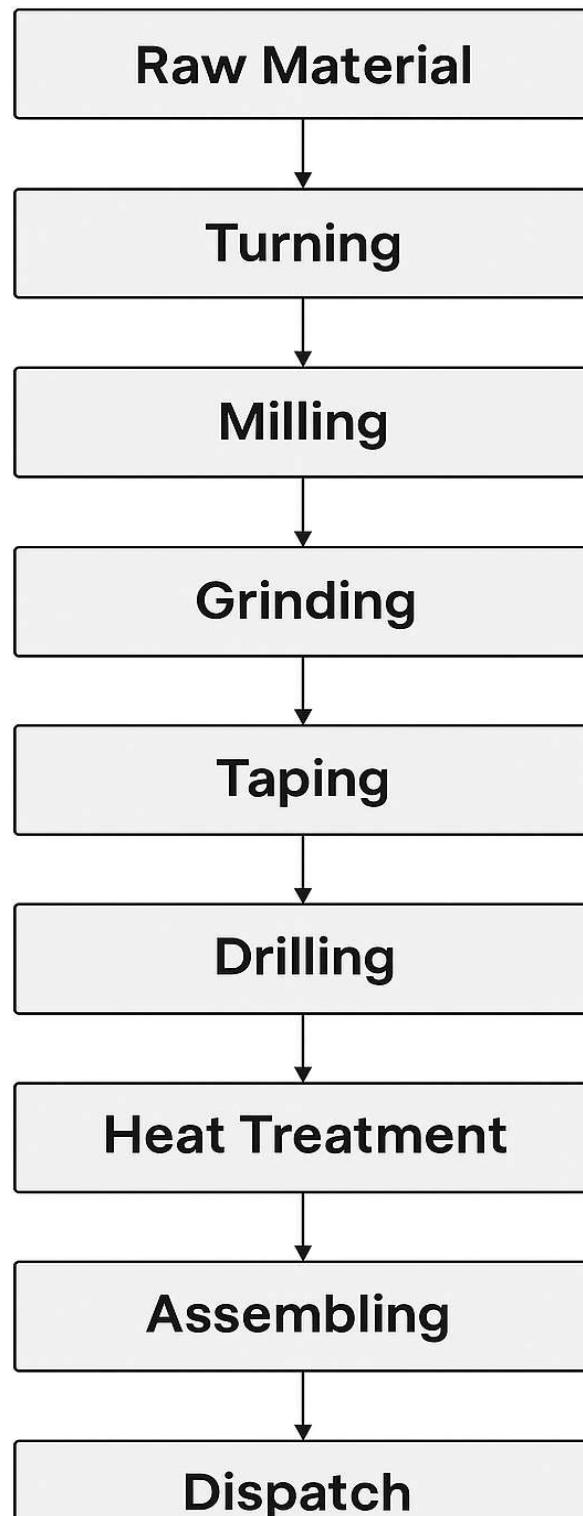








## Manufacturing Process Flowchart



## Manufacturing Process Description

The production process follows a systematic sequence of machining, heat treatment, and assembly operations to ensure high-quality output. The major stages involved are:

### 1. Raw Material Inspection & Preparation

The process begins with receiving raw materials such as metal rods, billets, or castings.

These materials undergo:

- Visual inspection
- Dimensional verification
- Storage as per grade

This ensures the material meets required technical specifications before machining.

### 2. Turning Operation

In this stage, the raw material is placed on a lathe machine to perform:

- Outer diameter reduction
- Facing
- Grooving
- Shaping of cylindrical profiles

Turning prepares the base geometry required for further precision machining.

### 3. Milling Operation

The turned component is transferred to a milling machine.

This stage performs:

- Slotting
- Keyway machining
- Surface flattening
- Profile milling

Milling ensures complex geometries and accurate surface features.

#### 4. Grinding Operation

After milling, grinding is carried out to achieve:

- High dimensional accuracy
- Fine surface finish
- Removal of small machining defects

Grinding brings tolerances to the required microns and improves component quality.

#### 5. Tapping / Threading

Internal or external threads are created depending on design requirements.

This step includes:

- Tapping of holes
- Thread cutting on shafts or surfaces

Thread accuracy is critical for proper fitment during assembly.

#### 6. Drilling Operation

Additional holes required for assembly or functional needs are drilled.

This step may include:

- Through holes
- Blind holes
- Countersink or counterbore

Drilling supports mounting, fastening, or lubrication requirements.

#### 7. Heat Treatment

The machined component undergoes heat treatment to improve mechanical properties.

Common processes include:

- Hardening**
- Tempering**
- Normalizing**
- Case carburizing**

This step enhances hardness, strength, and wear resistance.

## 8. Final Assembly

All treated and machined components are assembled using:

- Fasteners
- Bearing fitting
- Alignment and calibration
- Quality checks

Assembly ensures complete functionality of the finished product.

## 9. Final Inspection & Dispatch

Before dispatch, each finished unit undergoes:

- Dimensional inspection
- Material testing (if required)
- Functional testing
- Packaging

Approved products are then dispatched to customers or storage.

## Proposed Annual Plant Capacity

The proposed facility is designed to manufacture a comprehensive range of Tunnel Boring Machinery (TBM) spares and machines, meeting the growing demand of the tunneling and underground infrastructure sector. The plant capacity has been carefully assessed based on projected market requirements, available resources, and the planned operational efficiency. The production setup ensures consistent output, high precision, and adherence to industry performance standards. The following table outlines the annual installed capacity of the unit, providing a clear view of the expected production capabilities during stable operations.

Installed Capacity (Units in Numbers)						
S. No.	Products	Year 1	Year 2	Year 3	Year 4	Year 5
1	MTBM Spares	6,000	6,600	7,260	7,986	8,784.60
<b>Total</b>	—	<b>6,000</b>	<b>6,600</b>	<b>7,260</b>	<b>7,986</b>	<b>8,784.60</b>

## Raw Material Consumption Per Month

The manufacturing operations for Tunnel Boring Machinery (TBM) spares and machines require high-grade raw materials to ensure durability, precision, and performance in demanding tunneling environments. The primary inputs include MS steel, which forms the base structural material for various fabricated components, and alloy steels such as EN8 and EN19, which are used for producing critical, high-strength, wear-resistant parts. These materials are selected for their mechanical strength, machinability, and ability to withstand heavy loads and abrasive conditions encountered during tunneling. The monthly requirement of key raw materials is outlined in the table below.

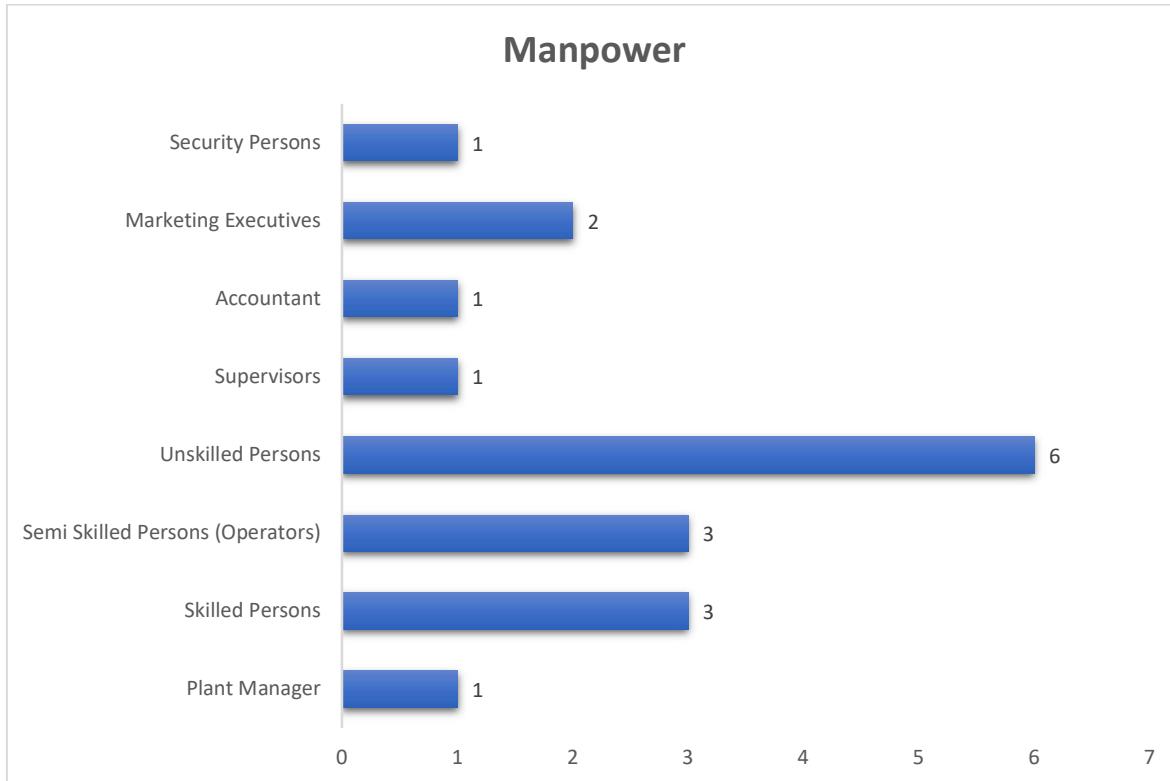
S.No.	Name of the Raw Materials	Quantity (Per Month)
1	MS Steel	10 Tons
2	EN8, EN19	3 Tons, 2 Tons

## Utilities Requirement

Utility	Capacity / Requirement	Remarks
Power	75 HP	For running machinery, motors, and auxiliaries
Water	1000 LPD (liters per day)	For cooling, cleaning, and general use
Compressed Air	As required	For pneumatic tools and machines
Diesel / Fuel	Optional	Backup generator or machinery operation
Lighting & HVAC	As per facility design	Workplace lighting, ventilation, and cooling
Waste Management	As per norms	Disposal of scrap, oil, and other waste

## Manpower Requirement

SI No	Designation	No's
1	Plant Manager	1
2	Skilled Persons	3
3	Semi Skilled Persons (Operators)	3
4	Unskilled Persons	6
5	Supervisors	1
7	Accountant	1
8	Marketing Executives	2
9	Security Persons	1
<b>Total ( Direct)</b>		<b>18</b>
<b>Indirect</b>		<b>20</b>



## HR Policies and Training Programs

### **1. Human Resource Policies**

#### **a. Recruitment & Selection Policy**

- Recruitment will focus on hiring technically skilled personnel with experience in heavy machinery, precision engineering, hydraulics, and TBM equipment.
- Selection will include technical interviews, skill demonstrations, and verification of past project experience in tunneling or heavy engineering sectors.
- Priority will be given to candidates trained in CNC machining, hydraulic systems, structural fabrication, and quality inspection.

#### **b. Employee Code of Conduct**

- All employees must adhere to engineering standards, safety protocols, and ethical workplace behavior.
- Confidentiality regarding machine designs, customer data, and structural drawings is mandatory.
- Zero tolerance for negligence, misconduct, or violation of safety norms.

#### **c. Working Hours & Attendance**

- The unit will operate in two shifts to utilize CNC machines, fabrication units, and testing facilities efficiently.
- Digital attendance tracking will be maintained for smooth workflow.

#### **d. Safety & Compliance Policy**

- Safety practices must comply with ISO, OSHA, and tunneling equipment handling standards.
- Mandatory use of PPE for all shop-floor and technical staff.
- Toolbox meetings will be conducted for welding, hydraulic testing, and material-handling teams.

#### **e. Performance Management**

- Quarterly performance reviews focusing on machining accuracy, adherence to tolerances, production efficiency, quality rejection rate, and teamwork.

#### **f. Compensation & Benefits**

- Competitive wages, overtime benefits, and insurance cover as per industry norms.

### **2. Training & Skill Development Programs**

#### **a. Technical Training Programs**

1. TBM Component Manufacturing Training

- Disc cutters, cutter rings, hydraulic cylinders, control units, structural frames, and guidance system components.
- 2. CNC Machining & Precision Engineering
  - CNC turning, VMC operations, tooling selection, fixture setting, and tolerance management.
- 3. Welding & Fabrication Training
  - MIG/TIG/Arc welding, structural welding, and weld inspection methods.
- 4. Hydraulic System Maintenance
  - Pressure testing, pump/cylinder assembly, seal replacement, and troubleshooting.

**b. Quality Control & Inspection Training**

- GD&T, material testing, NDT methods (UT, MPI, DP), and dimensional accuracy checks.

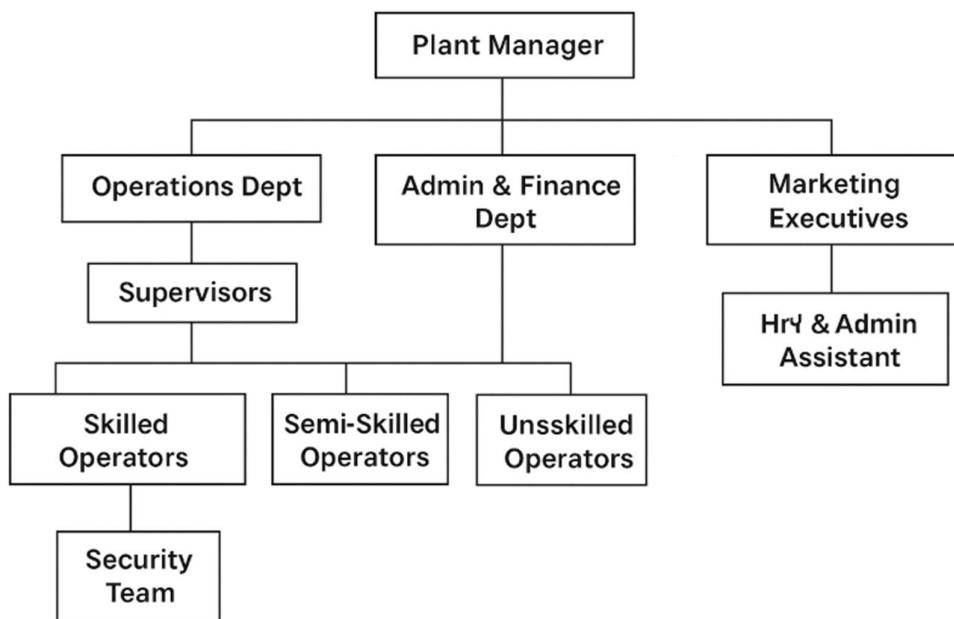
**c. Safety Training Programs**

- Machine safety, LOTO procedures, fire safety, first aid, and crane/rigging safety.

**d. Soft Skills & Organizational Training**

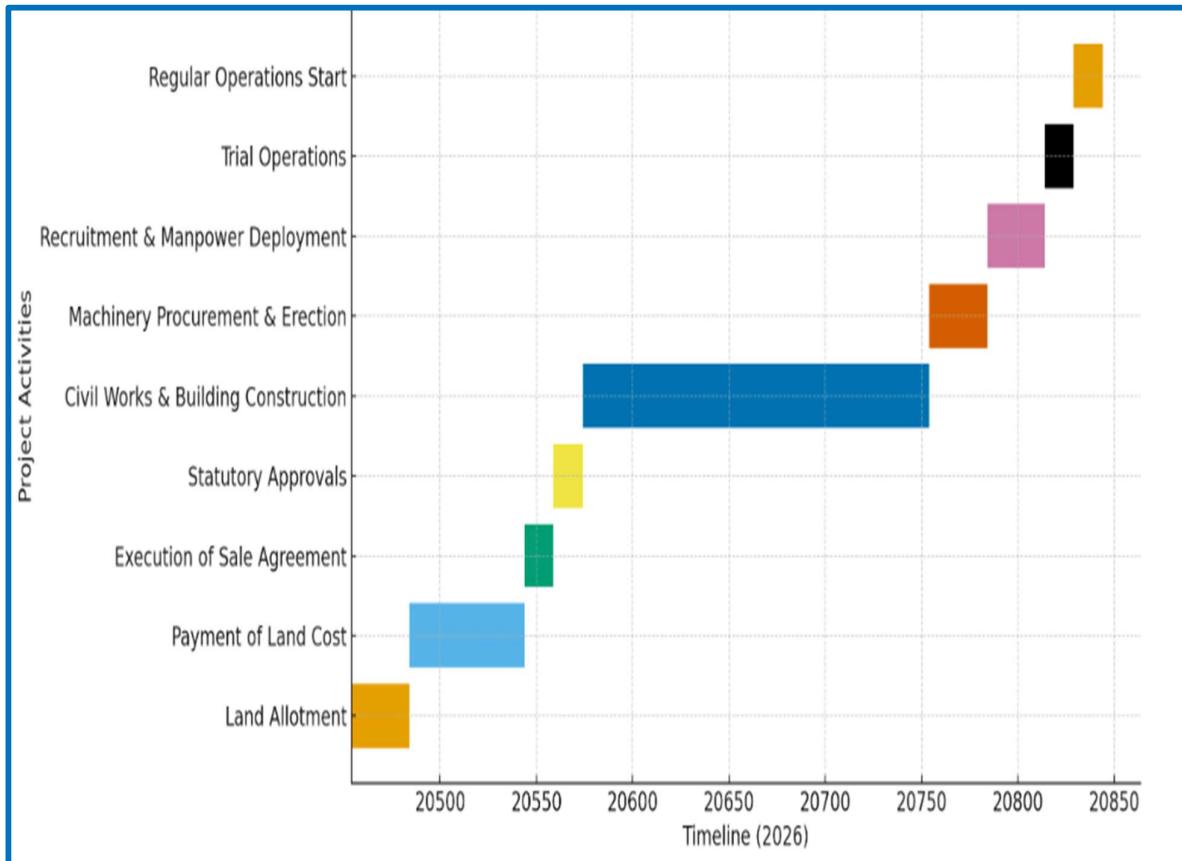
- Workplace discipline, communication, leadership, and documentation skills.

Organization Structure

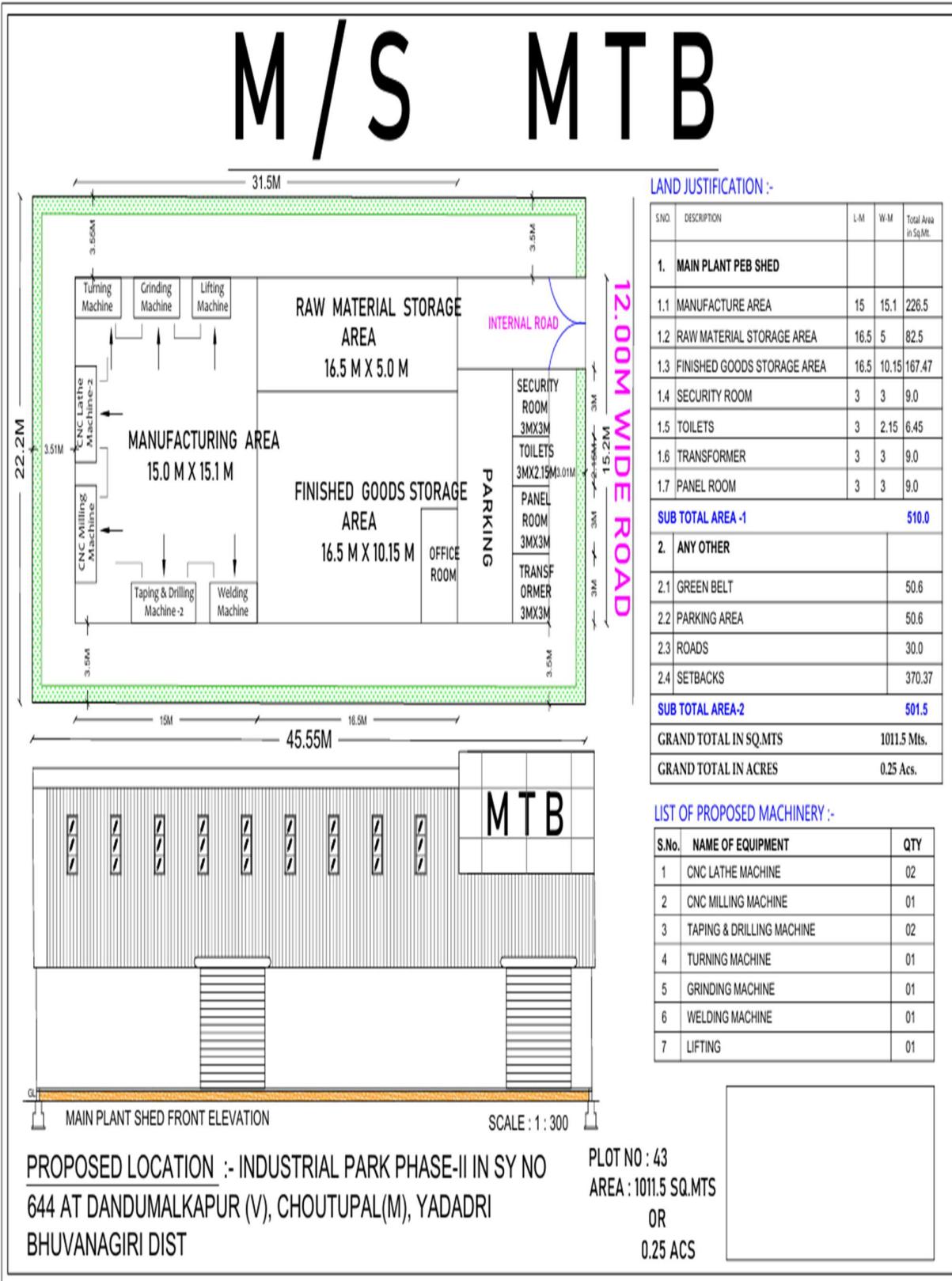


## Project Implementation Schedule

Sl. No.	Activity	Duration (in Months)
1	Land Allotment	1
2	Payment of Land Cost	2
3	Execution of Sale Agreement	0.5
4	Statutory Approvals from Government	0.5
5	Civil Works & Building Construction	6
6	Procurement of Machinery & Erection	1
7	Recruitment & Deployment of Manpower	1
8	Trial Operations	0.5
9	Commencement of Regular Operations	0.5
<b>Total Project Duration</b>		<b>13 Months</b>



## Proposed Machinery Plant & Layout plan



## Area Utilization Analysis

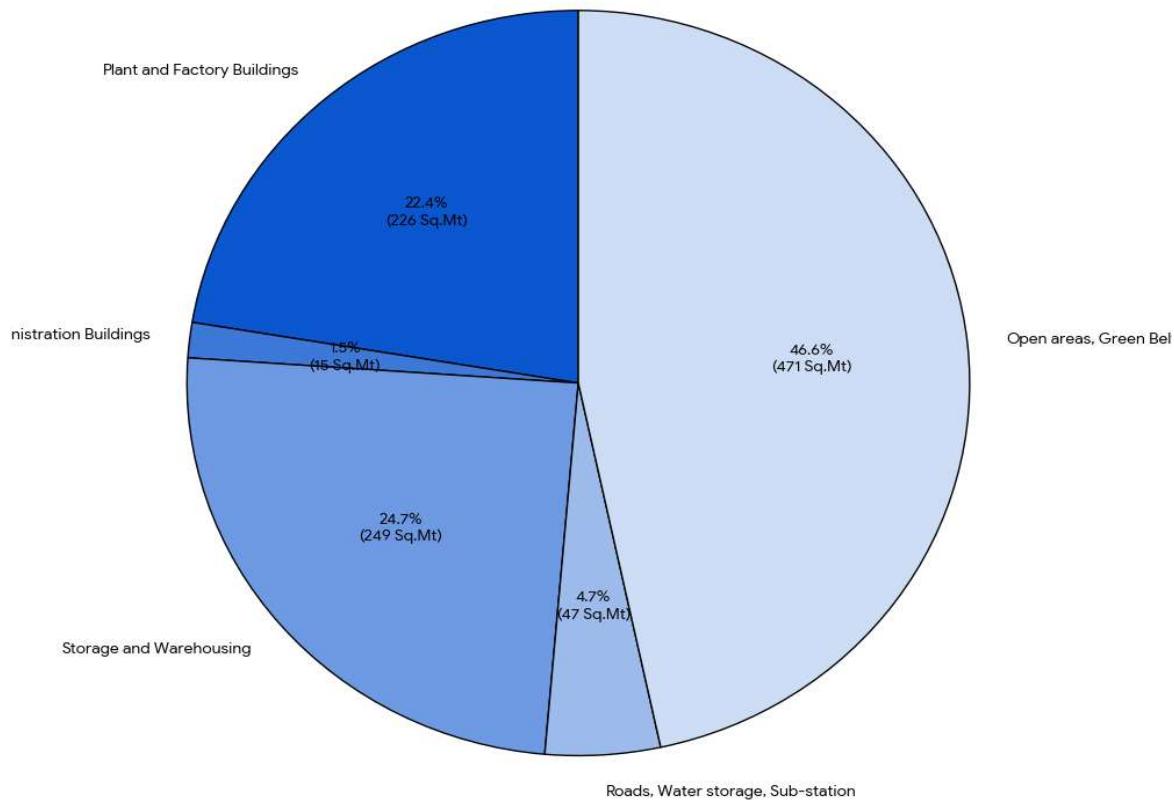
"The total land area required for the successful implementation and operation of the proposed facility is 1011.5 Sq. Mt. This requirement is derived from the detailed engineering layout and capacity planning for the plant. The breakdown of this proposed area allocation, covering all functional zones including the manufacturing block, storage, utilities, and mandatory open areas as per design standards, is provided in Table. This statement justifies the quantum of land being requested for allotment."

S No	Description	L, M	W, M	Sq Mtrs
1	Manufacturing Area	15	15.5	226.5
2	Raw Goods Storage Area	16.5	5	82.5
3	Finished Products Storage Area	16.5	10.15	167.47
4	Security Room	3	3	9
5	Toilets	3	2.15	6.45
6	Transformer	3	3	9
7	Panel Room	3	3	9
8	Green Belt			50.6
9	Parking Area			50.6
10	Roads			30
11	Set Backs			370.38
<b>Grand Total in Sq. Mt.</b>				<b>1011.5</b>
<b>Grand Total in Acres</b>				<b>0.25</b>

## Area Distribution Breakdown

S.No.	Particulars	Total Area (In Sq.Mt)	%
1	Plant and Factory Buildings	226.5	22.39%
2	Administration Buildings	15.45	1.53%
3	Storage and Warehousing	249.97	24.71%
4	Roads, Water storage, Sub-station	48	4.75%
5	Open areas, Green Belt etc.	471.58	46.62%
<b>Total</b>		<b>1011.5</b>	<b>100%</b>

Proposed Land Area Allocation (Total Area: 1011.5 Sq. Mt.)



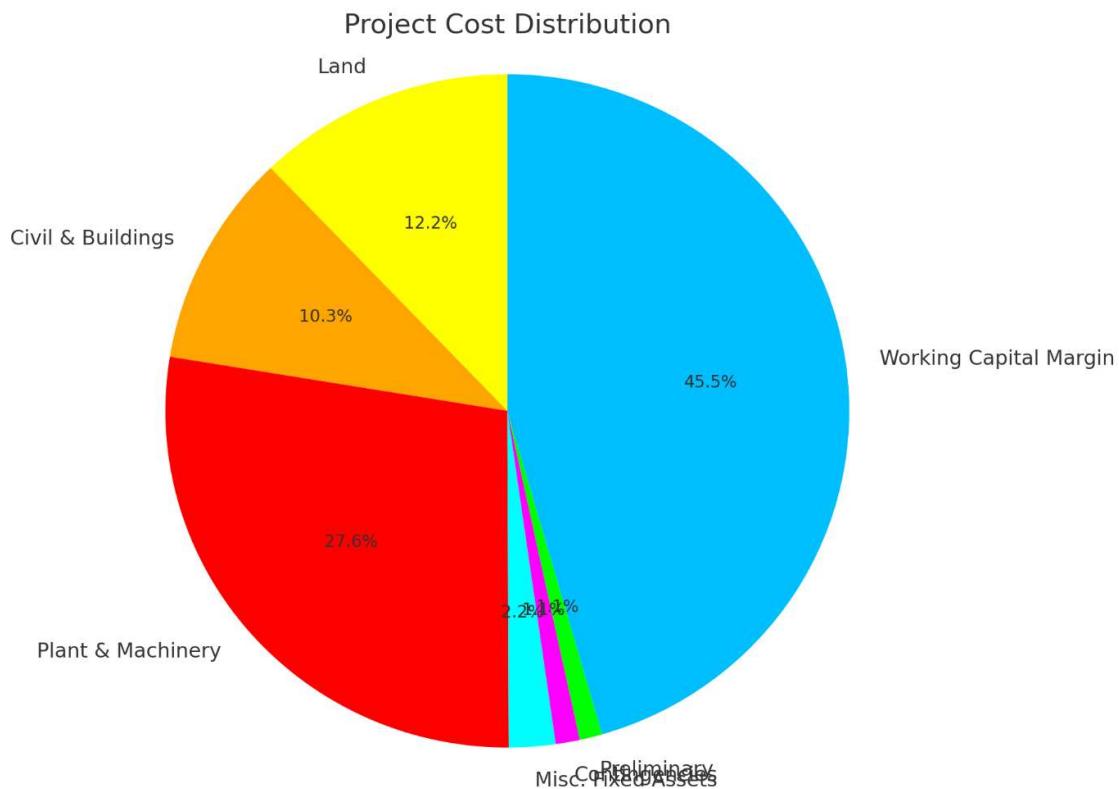
## Proposed Machinery & Equipment List

"To achieve the projected output and quality standards for the manufactured goods, the installation of specialized, high-precision equipment is essential. Table provides the detailed list of key machinery and equipment proposed for the production floor. The selection of these machines is based on the specific manufacturing processes, capacity planning, and the required automation level to ensure efficient and cost-effective operation of the plant."

S.No.	Name Of Equipment	Qty
1	CNC Lathe Machine	2
2	CNC Milling Machine	1
3	Taping & Drilling Machine	2
4	Turning Machine	1
5	Grinding Machine	1
6	Welding Machine	1
7	Lifting	1

## Proposed Project Investment

Section	Amount (₹ Lakhs)	Share (%)
Land Cost	63.62	12.17%
Civil Works & Buildings	53.63	10.26%
Plant & Machinery	144.48	27.64%
Miscellaneous Fixed Assets	11.5	2.20%
Contingency Provision	5.94	1.14%
Preliminary & Pre-operative Expenses	5.6	1.07%
Working Capital Margin	238	45.53%
<b>Total Project Cost</b>	<b>522.77</b>	<b>100.00%</b>



### Project Cost Breakdown

#### Land cost

Particulars	Value
Land Area (Sq. Meter)	1011.5 Sq.m
Cost per Sq. Meter	₹ 6,290

<b>Total Land Cost</b>	<b>₹ 63,62,335</b>
------------------------	--------------------

### Civil Works & Buildings

<b>Description</b>	<b>Sq Mtrs</b>	<b>Sq fts</b>	<b>Civil Cost</b>	<b>Total Civil Cost in Lakhs</b>
Manufacturing Area	226.5	2438.02	1000	24.38
Raw Goods Storage Area	82.5	888.02	1000	8.88
Finished Products Storage Area	167.47	1802.63	1000	18.03
Security Room	9	96.88	350	0.34
Toilets	6.45	69.43	350	0.24
Transformer	9	96.88	350	0.34
Panel Room	9	96.88	350	0.34
Green Belt	50.6	544.65	20	0.11
Parking Area	50.6	544.65	18	0.10
Roads	30	322.92	25	0.08
Set Backs	370.38	3986.73	20	0.80
<b>Grand Total In Sq.Mtrs</b>	<b>1011.5</b>			
<b>Grand Total in Acres</b>	<b>0.25</b>			<b>53.63</b>

### Machinery Cost

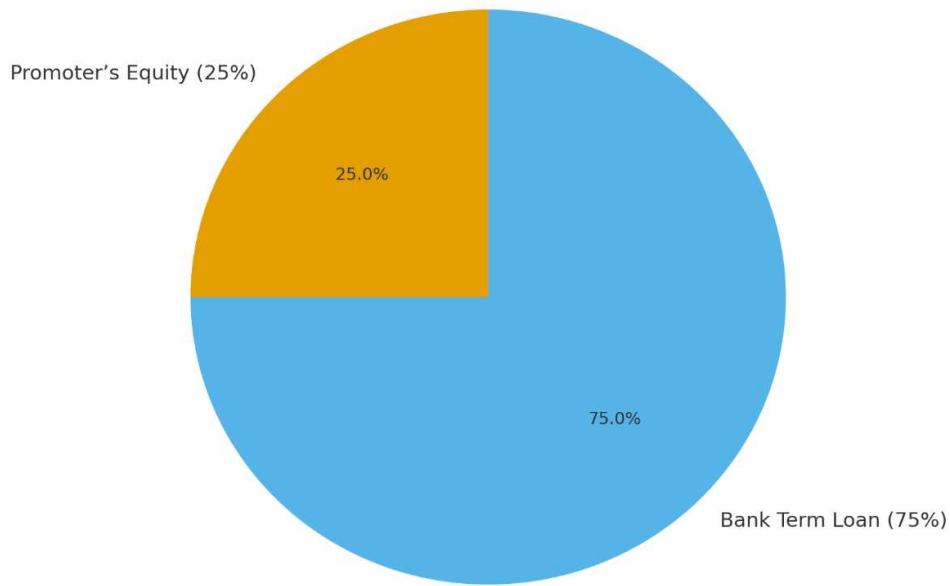
<b>S.No.</b>	<b>Name Of Equipment</b>	<b>Qty</b>	<b>Cost In Lakhs</b>
1	CNC Lathe Machine	2	80
2	CNC Milling Machine	1	45
3	Taping & Drilling Machine	2	2
4	Turning Machine	1	0.48
5	Grinding Machine	1	1
6	Welding Machine	1	1
7	Lifting	1	15
	<b>Total Cost</b>		<b>144.48</b>

## Funding Pattern

The total project cost of **₹522.76 Lakhs** is proposed to be financed through a combination of promoter's equity and term loan assistance from the bank. The financing structure has been planned to ensure adequate capital infusion while maintaining financial stability and debt-servicing capacity.

Source of Finance	Percentage (%)	Amount (₹ Lakhs)
Promoter's Equity Contribution	25%	130.69
Bank Term Loan	75%	392.07
<b>Total Project Cost</b>	<b>100%</b>	<b>522.76</b>

Funding Pattern – Source of Finance



### Explanation

- **Promoter's Equity (25%):**  
The promoter will invest ₹130.69 Lakhs as equity contribution. This ensures financial commitment to the project and provides a strong base for leveraging bank finance.
- **Bank Term Loan (75%):**  
A term loan of ₹392.07 Lakhs is proposed to be availed from a financial institution to meet the remaining capital requirements. The loan component helps in achieving the required investment without excessive burden on promoter funds.

This funding pattern provides a balanced financial structure, ensuring both liquidity and long-term sustainability for project operations.

## Justification for Funding Pattern

The proposed project cost of ₹522.76 Lakhs, financed with 25% promoter's equity and 75% bank term loan, is appropriate for the following reasons:

### 1. Balanced Financial Strength

A 25% equity contribution demonstrates strong promoter commitment and provides a solid financial base, improving the project's credibility for bank financing.

### 2. Optimal Leverage

A 75% term loan allows effective use of leverage while keeping the debt burden at a manageable level, consistent with norms for industrial projects.

### 3. Manageable Debt Servicing

With the projected revenues and cash flows, the business will be able to comfortably meet repayment obligations, ensuring a healthy DSCR.

### 4. Improved Return on Investment (ROI)

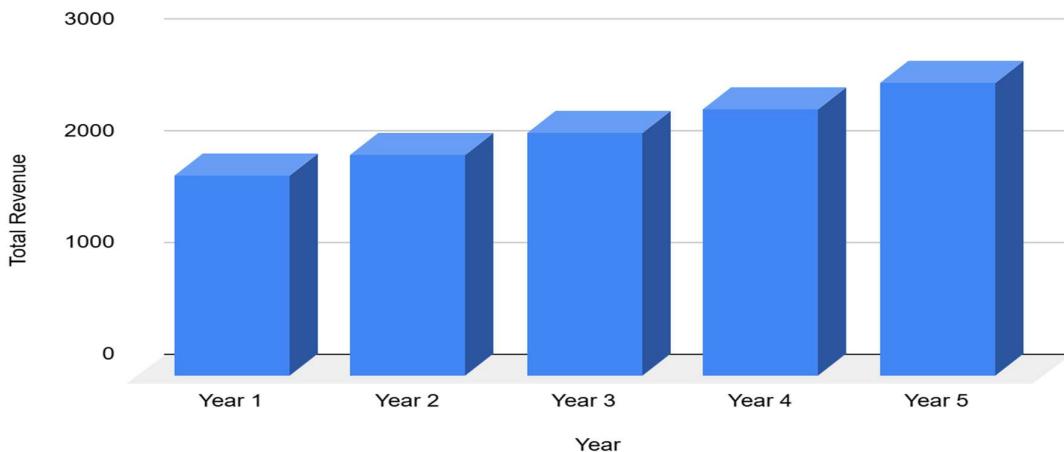
The chosen mix of debt and equity enhances returns to promoters while maintaining a balanced financial risk profile.

## Estimated Annual Turnover

### Projected Annual Revenue – (INR in Lakhs)

S. No.	Product	Year 1	Year 2	Year 3	Year 4	Year 5
1	MTBM Spares	1800	1980	2178	2395.80	2635.38
	<b>Total Revenue</b>	<b>1800</b>	<b>1980</b>	<b>2178</b>	<b>2395.80</b>	<b>2635.38</b>

Total Revenue vs. Year



## Market Analysis

### Global Tunnel Boring Machine Market:

The global tunnel boring machine market size reached **USD 6.0 Billion** in 2024. Looking forward, the market is expected to reach **USD 8.1 Billion** by 2033, exhibiting a growth rate (**CAGR**) of **3.48%** during 2025-2033. Growth is being fueled by the increasing need for underground infrastructure in urban areas, a surge in transportation-related investments, and technological progress in tunneling equipment. Among the machine types, slurry TBM continues to lead due to its effectiveness in managing soft ground conditions. Asia-Pacific remains the dominant region, supported by major metro and infrastructure projects in countries such as China, India, and Indonesia. Leading manufacturers in the space include Herrenknecht AG, Komatsu Ltd., Kawasaki Heavy Industries Ltd., Hitachi Zosen Corporation, and Akkerman Inc.

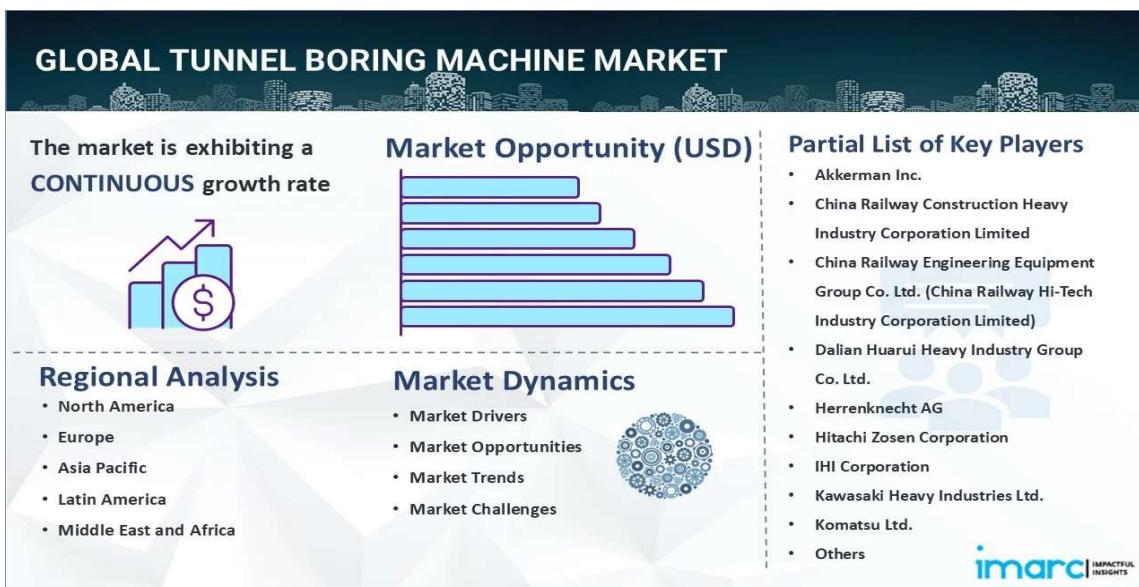
Report Attribute	Key Statistics
<b>Base Year</b>	2024
<b>Forecast Years</b>	2025-2033
<b>Historical Years</b>	2019-2024
<b>Market Size in 2024</b>	USD 6.0 Billion
<b>Market Forecast in 2033</b>	USD 8.1 Billion
<b>Market Growth Rate 2025-2033</b>	3.48%

### **Tunnel Boring Machine Market Analysis:**

- **Major Market Drivers:** The increasing utilization of tunnel boring machines (TBM) in the mining industry, along with new innovations in rock-cutting technology, is primarily driving the market. Recent cross-industry demand, especially in well drilling machinery, is also complementing the expansion of tunnel boring equipment. Moreover, governments of several countries are extensively investing in

infrastructural development, which is augmenting the application of TBMs in the water pipeline, hydropower, and oil and gas pipeline projects.

- **Key Market Trends:** Technological convergence between TBMs and systems in the tunnel automation market is streamlining excavation workflows and improving safety metrics. Rising awareness about the advantages of TBMs, such as high specific gravity and viscosity and stability under high pressure, is creating a positive outlook for the overall market. Furthermore, the growing trend of tunnel automation is acting as another significant trend, bolstering the market growth.
- **Competitive Landscape:** Some of the leading tunnel boring machine market companies include Akkerman Inc., China Railway Construction Heavy Industry Corporation Limited, China Railway Engineering Equipment Group Co. Ltd. (China Railway Hi-Tech Industry Corporation Limited), Dalian Huarui Heavy Industry Group Co. Ltd., Herrenknecht AG, Hitachi Zosen Corporation, IHI Corporation, Kawasaki Heavy Industries Ltd., Komatsu Ltd., Northern Heavy Industries Group Co. Ltd., and Sika AG, among others. Suppliers specializing in machinery drill components are increasingly forming OEM partnerships with TBM manufacturers.



- **Geographical Trends:** According to the report, Asia-Pacific currently dominates the global market. The expansion of infrastructure projects across Southeast Asia has driven collaboration between metro tunnel developers and industrial drilling service providers. The region is experiencing a boom in infrastructure, with major projects in India, China, Vietnam, the Philippines, Malaysia, and Indonesia. Moreover, the rising

number of metro and transit expansion projects across the region is also contributing to the market growth.

- **Challenges and Opportunities:** Challenges in the tunnel boring machine market include the high initial investment costs and technical complexities associated with tunneling in varied geological conditions. The TBM market continues to benefit from long-term contracts tied to global transit corridor development. However, opportunities arise from the growing demand for underground infrastructure globally, driven by urbanization and transportation needs, fostering innovation and market expansion.

### Tunnel Boring Machine Market Trends:

#### *Growing Number of Transportation Projects*

The government authorities of several countries are extensively investing in transportation development projects like highways and roadways, which is creating a positive outlook for the overall market. For instance, the Government of India aims to develop a national highway network of 200,000 km by 2025. The government is expected to spend about Rs 17 trillion on highway development. Moreover, the task force on the National Infrastructure Pipeline (NIP) highlighted a total capital investment of Rs 20.34 trillion for the sector by 2025. Similarly, the Hampton Roads Bridge-Tunnel Expansion Project, United States, slated at US\$ 3.8 Billion, is anticipated to be completed by November 2025. The project is aimed at widening the current four-lane segments along nearly ten miles of the I-64 corridor in Norfolk and Hampton, with new twin tunnels across the harbor. The increasing funding by the government authorities of various nations for roadways and highway development is anticipated to propel the tunnel boring machine market demand in the coming years.

#### *Increasing Product Offerings*

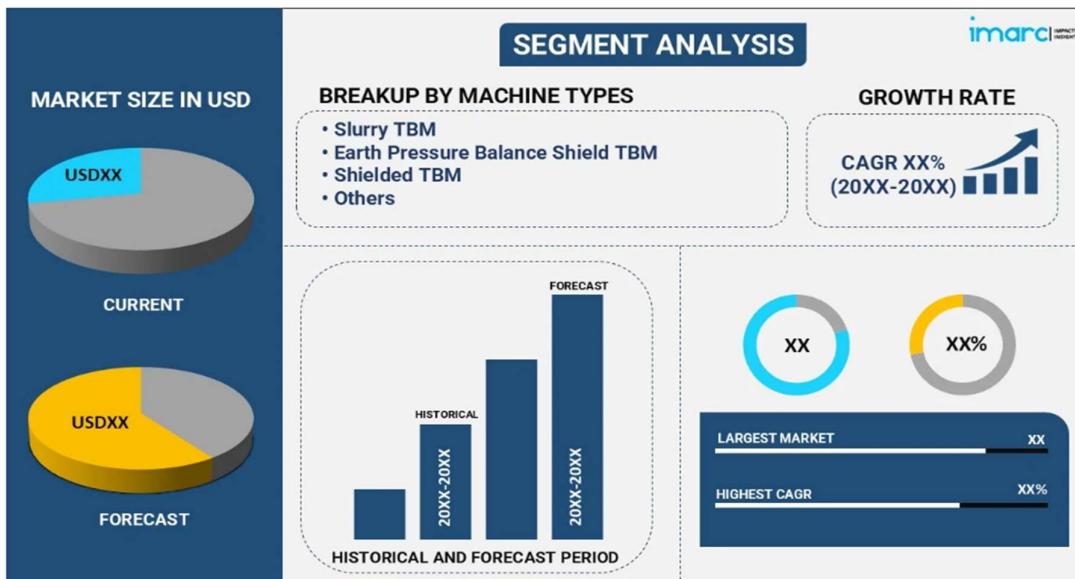
Various key market players are launching TBMs tailored to different geological conditions, project requirements, and environmental considerations, thereby offering clients a broader range of options to suit their specific needs. This, in turn, is positively impacting the market growth. For instance, in June 2022, Epiroc expanded its digital solutions portfolio within the construction industry with the launch of Mobicaris Tunneling Intelligence. The new tunneling portfolio increases safety levels while improving productivity. Moreover, in January 2024, Chennai Metro Rail Ltd launched a tunnel boring machine named Eagle from Light House metro station towards the Boat Club station. Eagle is expected to arrive at Boat Club station in October 2026. Similarly, in February 2024, HS2

launched the third TBM named Emily, weighing around 1,700 tons, to build a new railway between London and Birmingham. The introduction of TBMs with improved efficiencies and features is projected to bolster the tunnel boring machine market revenue in the coming years.

### **Rising Application in Mining and Oil and Gas Industries**

Tunnel boring machines are widely used to create access tunnels and shafts in underground mining operations, facilitating the extraction of minerals and ores. There has also been a spillover of tunneling methods into adjacent domains like oilfield drilling, where precision boring techniques are gaining popularity. Moreover, they enable safer and more efficient excavation, particularly in hard rock or unstable geological conditions, reducing the risk to miners and improving productivity. Rising mining activities and increasing investments in mining equipment are anticipated to propel the tunnel boring machine market share over the forecast period. For instance, in September 2022, China announced it had approved a new 15GW of coal power generation capacity in H1 2022 with a total investment of US\$ 26-30 Billion. Similarly, in November 2021, Coal India Limited, India's national coal mining company, announced an investment of INR 40-50000 crores (US\$ 4.8 - 6 Billion) for CAPEX in the next five years. Most of this CAPEX will be utilized for coal production and evacuation. A significant rise in the mining industry is positively impacting the tunnel boring machine market outlook.

### **Breakup by Machine Type:**



- Slurry TBM
- Earth Pressure Balance Shield TBM
- Shielded TBM
- Multi-Mode TBM
- Others

***Slurry TBM currently exhibits a clear dominance in the market***

The tunnel boring machine market report has provided a detailed breakup and analysis of the market based on the machine type. This includes slurry TBM, earth pressure balance shield TBM, shielded TBM, multi-mode TBM, and others. According to the report, slurry TBM currently exhibits a clear dominance in the market.

A slurry tunnel boring machine (TBM) is a specialized type of TBM used for excavating tunnels in soft ground conditions, such as clay, silt, sand, and gravel. It operates by mixing excavated soil with a bentonite or polymer-based slurry, which helps stabilize the tunnel face and transport the excavated material back to the surface. The slurry also provides support to prevent tunnel collapse. Slurry TBMs include their ability to work efficiently in unstable ground conditions, reduced groundwater inflow into the tunnel, and the potential for continuous operation. They are commonly used in projects such as subway tunnels, sewer tunnels, and underwater tunnels, where ground conditions require additional stabilization and support during excavation.

***Breakup by Product Type:***

- Soft Ground TBM
- Hard Ground TBM

***Hard ground TBM accounts for the majority of the global market share***

The report has provided a detailed breakup and analysis of the market based on the product type. This includes soft ground TBM and hard ground TBM. According to the report, hard ground TBM accounts for the majority of the global market share.

A hard ground tunnel boring machine (TBM) is specifically designed to excavate through dense and rocky formations, such as granite, basalt, or hard limestone. These TBMs employ robust cutterheads with disc cutters or roller cutters, reinforced with tungsten carbide or other hard materials, to effectively break through hard rock formations. Hard ground TBM offers increased efficiency and reduced wear on cutting tools compared to traditional drilling methods. They are extensively used in the construction of transportation tunnels, water supply tunnels, and underground infrastructure projects, enabling faster and more cost-effective excavation in challenging geological conditions.

***Breakup by Application:***

- Traffic Tunneling
- Utility Tunneling

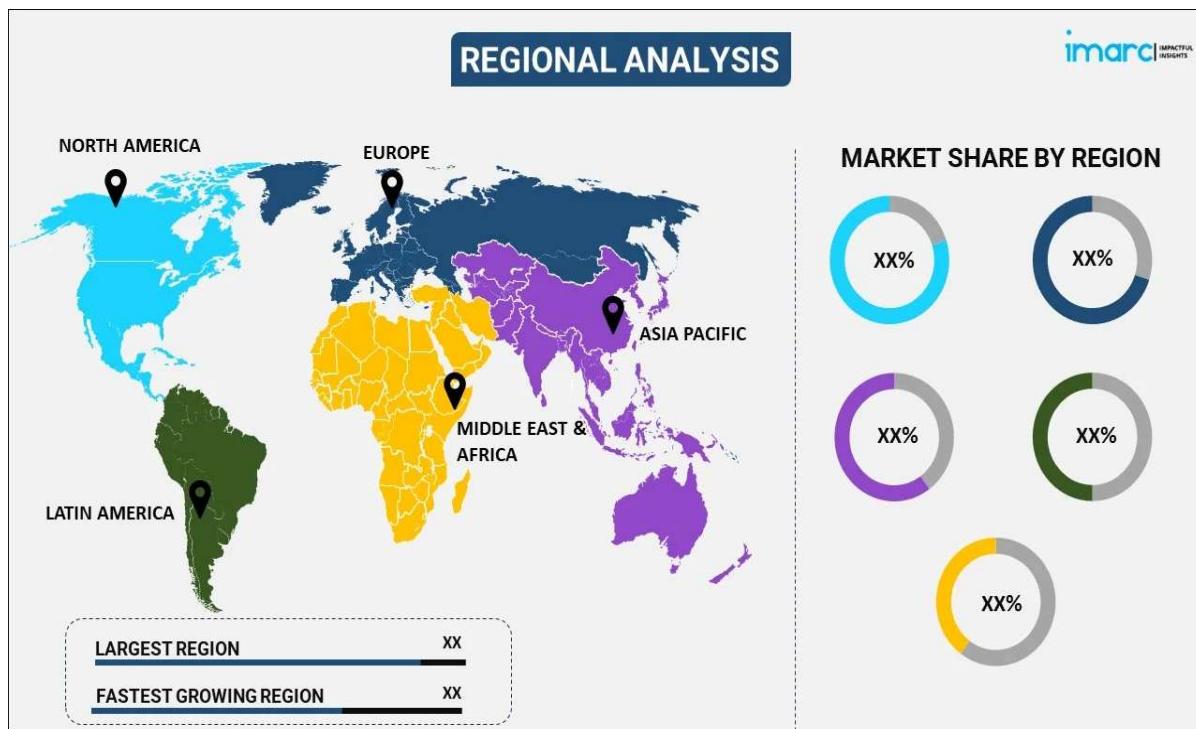
***Traffic tunneling currently exhibits a clear dominance in the market***

The report has provided a detailed breakup and analysis of the market based on the application. This includes traffic tunneling and utility tunneling. According to the report, traffic tunneling currently exhibits a clear dominance in the market. A traffic tunneling TBM is a specialized excavation tool designed for creating underground passages for vehicular traffic. These machines reduce surface disruption, minimize traffic congestion during construction, and offer enhanced safety compared to traditional methods. These machines are used in urban areas for constructing road tunnels, bypasses, and underground highways, facilitating smoother transportation flow and improving overall urban mobility. Moreover, the increasing number of highway and roadway construction projects and the expanding underground railway networks are further propelling the tunnel boring machine market's recent price. For instance, in June 2023, Delhi Metro initiated the phase IV project with the "Bhoomi" Tunnel Boring Machine. The TBM commenced operations from Derawal Nagar to Pulbangash on Line 8.

#### **Breakup by End User:**

- Road Transport
- Railway Transport
- Metro and Transit
- Utilities
- Mining
- Oil and Gas
- Others

#### **Breakup by Region:**



- North America

- United States
- Canada
- Asia-Pacific
  - China
  - Japan
  - India
  - South Korea
  - Australia
  - Indonesia
  - Others
- Europe
  - Germany
  - France
  - United Kingdom
  - Italy
  - Spain
  - Russia
  - Others
- Latin America
  - Brazil
  - Mexico
  - Others
- Middle East and Africa

***Asia-Pacific currently dominates the global market***

The report has provided a detailed breakup and analysis of the market based on the region. This includes North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia-Pacific currently dominates the global market.

Asia-Pacific is experiencing a boom in infrastructure, with major projects in India, China, Vietnam, the Philippines, Malaysia, and Indonesia. For instance, the end of 2023 marked the opening of several new metro lines and extensions in cities across China, including the 23.3km Line 19 in Wuhan. Similarly, in March 2024, the Prime Minister of India inaugurated Kolkata's underwater metro tunnel, along with multiple metro and connectivity projects across India. Moreover, Vietnam is also planning to replace the bus rapid transit (BRT) system in Hanoi with new metro rail lines. The tunnel boring machine market overview indicates that such initiatives by the government authorities of various Asia-Pacific countries are anticipated to propel the growth of the market in the coming years.

**Tunnel Boring Machine Companies:**

The competitive landscape of the industry has also been examined along with the profiles of the following key players:

- Akkerman Inc.
- China Railway Construction Heavy Industry Corporation Limited
- China Railway Engineering Equipment Group Co. Ltd. (China Railway Hi-Tech Industry Corporation Limited)
- Dalian Huarui Heavy Industry Group Co. Ltd.
- Herrenknecht AG
- Hitachi Zosen Corporation
- IHI Corporation
- Kawasaki Heavy Industries Ltd.
- Komatsu Ltd.
- Northern Heavy Industries Group Co. Ltd.
- Sika AG

### **Tunnel Boring Machine Market Recent Developments:**

- **June 2025:** HS2's tunnel boring machine Emily completed a 3.4-mile drive in West London's Northolt Tunnel, marking major progress in the UK tunnel boring machine market. Launched in February 2024, Emily is the third of four machines to finish its section, removing 775,000 tonnes of clay and installing 17,514 segments. This milestone highlights continued demand for high-capacity TBMs in large-scale UK infrastructure projects.
- **April 2025:** Larsen & Toubro completed 10.4 km of tunnelling using TBM Shakti for the Rishikesh–Karnaprayag rail line's Tunnel No. 8, set to be India's longest rail tunnel at 14.57 km. The tunnel boring machine, with a 9.11 m diameter, achieved an average monthly progress of 413 metres. The remaining 4.11 km was excavated using the New Austrian Tunnelling Method (NATM), marking a key achievement in Himalayan infrastructure development.
- **March 2025:** India's largest tunnel boring machine cleared factory acceptance tests for Mumbai's 11.84 km Thane-Borivali twin tunnel project. Built by Herrenknecht in Tamil Nadu, the TBM arrived in Mumbai in April. It's the first of four to be deployed for constructing the country's longest urban tunnel. The project is set to begin before the monsoon, marking a major milestone in India's tunnel boring machine market.
- **February 2025:** A tunnel boring machine started work on a 5.6km pressure tunnel for VERBUND's Kaprun-Hauptstufe power plant upgrade in Austria. Launched on February 18, 2025, the 190 m-long, 1,200-tonne TBM features a new 6.90m cutterhead. Previously used in Limberg II and III, it was reassembled in eight weeks after 90 deliveries. The tunnel, part of the Kaprun 2029 project, is set for completion by the end of 2027.
- **January 2024:** Chennai Metro Rail Ltd launched a tunnel boring machine named Eagle from Light House metro station towards the Boat Club station. Eagle is expected to arrive at Boat Club station in October 2026.

- **February 2024:** HS2 launched the third TBM named Emily, weighing around 1,700 tons, to build a new railway between London and Birmingham.
- **July 2023:** Chenab Valley Power Projects Limited (CVPPL) launched a tunnel boring machine for the construction of Head Race Tunnel-1.

### **Market Analysis For Tbm (Tunnel Boring Machinery) Spares & Machines – India.**

India's tunnelling industry has witnessed rapid expansion driven by Metro Rail projects, National Highway tunnel works, hydropower projects, irrigation tunnels and strategic border connectivity programmes. According to industry estimates, the tunnel construction equipment market in India is projected to grow at a CAGR of 10–12% during 2025–2034, supported by continuous infrastructure investments and urban transportation expansion.

The rising number of projects requiring mechanized tunnelling has directly increased the demand for TBMs and their critical wear components.

### **Demand-Supply Gap Analysis**

#### **Demand Drivers**

- Expansion of Metro Rail networks across major cities (Delhi, Mumbai, Bengaluru, Chennai, Pune, Ahmedabad, Kolkata).
- NH & expressway tunnel construction under Bharatmala and Himalayan corridors.
- Hydropower and irrigation tunnel development in northern & northeastern states.
- Strategic defence and border connectivity tunnels (BRO).
- Shift from conventional NATM/blasting to mechanized tunnelling for speed, safety, and accuracy.

#### **Supply Gaps**

- Majority of large TBMs are imported (Germany, China, Australia), causing long lead times and high procurement costs.
- Limited domestic manufacturing capacity for high-precision TBM components such as cutter discs, seals, bearing assemblies, control systems, and hydraulic modules.
- Inadequate local availability of critical spares results in project downtime and emergency imports.
- Lack of distributed regional service centres for timely maintenance and refurbishment.
- After-sales support systems remain insufficient despite growing machine population.

**Conclusion:** There exists a significant market gap for indigenously manufactured TBM spares, refurbishment services, maintenance support, local stocking and responsive supply chains.

## Target Customers & Market Segmentation

### Primary Customer Categories

Metro Rail Corporations

DMRC, BMRCL, CMRL, MMRDA, HMRL, Pune Metro, Nagpur Metro.

Highway & Tunnel EPC Contractors

NHAI contractors, mountain tunnel specialists.

Hydropower & Irrigation Project Developers

NHPC, SJVN, THDC, state irrigation departments.

Strategic & Defence Tunnelling Agencies

BRO, MoD-affiliated contractors.

Mining & Utility Infrastructure Developers

Water/sewerage micro-tunnelling contractors.

## Product/Service Segments

- TBM Cutter Discs & Cutter Heads
- Wear Plates, Shield Components, Segment Bolts
- Bearings, Seals, Gaskets, Hydraulic Spares
- Sensors, Controls, Electrical Panels
- Refurbishment & Overhauling Services
- TBM Rentals / Leasing Models
- On-site Maintenance Support

## Competitor Landscape

### Major International OEMs (dominant in India)

- Herrenknecht (Germany)
- CRCHI (China)
- Terratec (Australia)
- STEC / Robbins / Komatsu

### Indian Companies & Emerging Players

- BEML (indigenization of tunnelling equipment)
- L&T, HCC, Tata Projects (operate TBMs, collaborate with OEMs)
- Local fabrication units supplying non-critical steel components
- Importers/distributors for proprietary OEM components

## Market Gap for New Entrants

- Limited domestic suppliers offering OEM-grade spares
- High opportunity for cutter disc manufacturing, hydraulic spares, seal assemblies, and refurbishment units
- Strong demand for service centres near major project clusters (Delhi NCR, Mumbai, Chennai, Bengaluru, Pune)

## Growth Potential & Emerging Trends

### Growth Drivers

- Increasing penetration of mechanized tunnelling across Indian infrastructure projects
- Government push for Make in India and indigenization of heavy machinery
- Large-scale metro expansion plans over next 10 years
- Rapid urbanization and utility tunnelling (sewerage/water pipelines)
- Demand for faster project execution, reducing reliance on slow traditional methods

### Key Market Trends

- Localization of TBM components to reduce import dependence
- High demand for aftermarket spares (cutter discs, seals, hydraulic spares)
- Refurbishment and rebuilding of used TBMs
- Digital monitoring & automation upgrades
- Rental & leasing increasingly preferred for short-duration tunnel packages

### Opportunities for the Proposed Project

- Reduced lead time by supplying spares domestically
- Cost competitiveness compared to imports
- Establishing regional TBM service hubs for faster response
- Potential OEM collaboration for authorized spare manufacturing
- Significant recurring revenue potential in consumables
- Ability to support multiple high-value, long-duration projects simultaneously
- Strong market entry potential through Metro Rail, NHAI tunnel contractors, and hydropower companies

The Indian market for TBM spares and machines is characterized by high demand driven by national infrastructure expansion and a major supply deficit due to dependence on imported machines and components. There is strong demand for indigenous manufacturing of spares, rapid supply chains, refurbishment centres and after-sales services. With the increasing adoption of mechanized tunnelling across Metro, highways, hydropower and defence sectors, the proposed project offers strong commercial viability and long-term growth prospects.

## Legal & Regulatory Compliance

The proposed industrial unit will strictly adhere to all statutory, legal, and regulatory frameworks mandated by Central, State, and Local authorities. The promoters commit to maintaining full compliance throughout the project life cycle—from land allotment and construction to commissioning and commercial operations. The major compliance areas include:

### 1. Statutory Licenses, Approvals & Operational Permissions

Before initiating civil works, the applicant shall obtain all mandatory permissions to ensure a legally compliant setup. These include, but are not limited to:

- Factory License as per the Factories Act, 1948 for operating the manufacturing facility.
- Consent for Establishment (CFE) and Consent for Operation (CFO) from the State Pollution Control Board, ensuring adherence to environmental norms.
- Fire Safety NOC from the Directorate of Fire Services for installation of fire-fighting and safety systems.
- Building Plan Approval and structural permissions as required by TSIIC/local authorities.
- Electrical Safety and Installation Approvals, lifting machinery approvals, and any equipment-specific certifications.
- Labour Department Registrations, including Shops & Establishments registration and compliance with labour welfare provisions.

These approvals will be obtained in a time-bound manner to ensure uninterrupted progress of the project.

### 2. Taxation Framework, Registrations & Government Incentive Compliance

The unit will be fully integrated under the national taxation framework:

- GST Registration for invoicing, input tax credit, and interstate trade.
- Compliance with income tax, professional tax, and other applicable statutory filings.
- Registration for MSME classification to avail eligible benefits.

Based on eligibility, the project will explore State Government incentive schemes such as investment subsidies, power tariff incentives, reimbursement of SGST, interest subsidies, and any TGIIC or SEZ-specific concessions, if applicable. All claims will be filed as per prescribed guidelines and timelines.

### 3. Environmental, Health, Safety & Sustainability Compliance

The project shall follow all environmental and occupational safety regulations to ensure sustainable and responsible operations:

- Implementation of pollution control measures relating to emissions, wastewater disposal, noise control, and solid waste management in line with PCB norms.
- Establishment of fire-fighting systems, emergency exits, safety signage, and first-aid provisions as per national safety standards.
- Ensuring a safe working environment through PPE usage, trained manpower, periodic safety drills, and adherence to the Factories Act requirements.
- Adoption of green initiatives such as energy-efficient lighting, rainwater harvesting, waste minimization, and responsible resource consumption.

### 4. Compliance Monitoring & Record Maintenance

The company will maintain timely documentation, statutory registers, safety logs, environmental records, and annual compliance reports. Regular audits will be conducted to ensure ongoing adherence to all legal guidelines.

# M T B

ADDRESS: 12-10-590/35, Indra Nagar Colony, Seethafalmandi, Secunderabad – 500061,  
Telangana

## FINANCIAL Projections

- Projected Balance Sheet
- Projected Profitability Statement
- Projected Cash Flow Statement
- Assessment of Working Capital Requirements  
(FORM II: Operating Statement)
- FORM III: Analysis of Balance Sheet
- FORM IV: Comparative Statement of Current Assets & Current Liabilities
- FORM V: Bank Finance for Working Capital
- Miscellaneous Ratios
- Break Even Analysis
- Return on Investment (ROI)
- Calculation of Internal Rate of Return (IRR)
- DSCR Calculation
- Payback Period Calculation
- Term Loan - Repayment Statement

# **PROJECTED FINANCIAL STATEMENT**

## **M T B**

**ADDRESS: 12-10-590/35, Indra Nagar Colony, Seethafalmandi, Secunderabad – 500061,  
Telangana**

**FY (2025-26) to (2030-2031)**

# M T B

**ADDRESS: 12-10-590/35, Indra Nagar Colony, Seethafalmandi, Secunderabad – 500061, Telangana**

## **PROJECTED BALANCE SHEET (In Lakhs)**

<b>PARTICULARS</b>	<b>2025-26</b>	<b>2026-27</b>	<b>2027-28</b>	<b>2028-29</b>	<b>2029-30</b>	<b>2030-31</b>
(a) Capital & Reserves	130.69	130.69	130.69	130.69	130.69	130.69
<i>Add: Profit</i>	-31.82	270.53	306.27	344.77	475.04	529.05
<i>Less: Drawings</i>	0.00	0.00	0.00	0.00	0.00	0.00
<b><i>Share Holders Fund</i></b>	<b>98.87</b>	<b>401.22</b>	<b>436.96</b>	<b>475.46</b>	<b>605.73</b>	<b>659.74</b>
(a) Long Term Loans	141.23	119.22	97.21	75.20	53.19	31.18
(b) Unsecured Loans	0.00	14.27	25.40	22.15	20.00	22.25
(a) Short Term Loans	238.00	238.00	238.00	238.00	238.00	238.00
(b) Sundry Creditors	0.00	84.08	134.26	164.10	229.73	328.52
(c) Other Current liabilities	0.00	10.36	10.47	22.55	24.23	29.55
(d) Tax Payables	0.00	95.05	107.61	121.14	166.91	185.88
<b>TOTAL</b>	<b>478.10</b>	<b>962.20</b>	<b>1049.91</b>	<b>1118.59</b>	<b>1337.79</b>	<b>1495.12</b>
<b>ASSETS</b>						
(i) Tangible Assets	258.85	232.11	209.13	189.37	172.36	157.72
(i) Intangible Assets	0.00	0.00	0.00	0.00	0.00	0.00
(a) Closing Stock	0.00	99.00	108.90	119.79	119.79	131.77
(b) Sundry Debtors	0.00	197.26	244.11	196.92	196.92	216.61
(c) Cash and cash equivalents	9.89	112.33	133.44	146.66	157.54	321.40
(d) Short Term Loans and Advances	209.36	321.50	354.33	465.86	691.18	667.62
<b>TOTAL</b>	<b>478.10</b>	<b>962.20</b>	<b>1049.91</b>	<b>1118.59</b>	<b>1337.79</b>	<b>1495.12</b>

# M T B

ADDRESS: 12-10-590/35, Indra Nagar Colony, Seethafalmandi, Secunderabad – 500061, Telangana

## PROJECTED PROFITABILITY STATEMENT (In Lakhs)

PARTICULARS	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
<b><u>SALES</u></b>						
Income from Operations	0.00	1800.00	1980.00	2178.00	2395.80	2635.38
Other Income	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTAL REVENUE</b>	<b>0.00</b>	<b>1800.00</b>	<b>1980.00</b>	<b>2178.00</b>	<b>2395.80</b>	<b>2635.38</b>
<b><u>EXPENDITURE</u></b>						
Cost of Raw Materials	0.00	990.00	1089.00	1197.90	1197.90	1317.69
Employee Benefits Cost	0.00	108.00	99.00	108.90	119.79	131.77
Power and Fuel Expenses	0.00	63.00	69.30	76.23	83.85	92.24
Operational & Other Manufacturing Expenses	0.00	121.50	94.05	103.46	113.80	125.18
Administration and Selling Expenses	0.00	91.80	160.38	176.42	194.06	213.47
Finance Costs	10.71	21.42	21.42	21.42	21.42	21.42
Term Loan Interest Costs	6.73	11.97	9.99	8.01	6.03	4.04
Depreciation	14.38	26.74	22.98	19.76	17.01	14.64
<b>TOTAL EXPENDITURES</b>	<b>31.82</b>	<b>1434.43</b>	<b>1566.12</b>	<b>1712.09</b>	<b>1753.85</b>	<b>1920.45</b>
<b>Profit before Tax</b>	(31.82)	365.57	413.88	465.91	641.95	714.93
Tax Expense:						
a) Income Tax	0.00	95.05	107.61	121.14	166.91	185.88
<b>PROFIT AND LOSS FOR THE PER</b>	<b>-31.82</b>	<b>270.53</b>	<b>306.27</b>	<b>344.77</b>	<b>475.04</b>	<b>529.05</b>

## ASSESSMENT OF WORKING CAPITAL REQUIREMENTS

PARTICULARS	31.03.2026	31.03.2027	31.03.2028	31.03.2029	31.03.2030	31.03.2031
	Provisions	Projections	Projections	Projections	Projections	Projections
<b>1. GROSS INCOME</b>						
I) Sales (net of returns)						
a) Domestic sales	0.00	1800.00	1980.00	2178.00	2395.80	2635.38
b) Processing Charges	0.00	0.00	0.00	0.00	0.00	0.00
c) Sub-total(a+b)	0.00	1800.00	1980.00	2178.00	2395.80	2635.38
d) Percentage rise (+) or fall (-) in sales turnover as compared to previous year.	0.00	0.00	0.00	0.00	0.00	0.00
II) Other Income						
a) Export Incentives	0.00	0.00	0.00	0.00	0.00	0.00
b) Cash Assistance	0.00	0.00	0.00	0.00	0.00	0.00
c) Interest on deposits	0.00	0.00	0.00	0.00	0.00	0.00
d) Miscellaneous income	0.00	0.00	0.00	0.00	0.00	0.00
d) Sub-Total (a+b+c)	0.00	0.00	0.00	0.00	0.00	0.00
III) Total (I) + (II)	0.00	1800.00	1980.00	2178.00	2395.80	2635.38
<b>2. COST OF SALES</b>						
I) Purchases	0.00	1080.00	1188.00	1306.80	1437.48	1581.23
ii) Direct Expenses (Manufacturing Expenses)	0.00	0.00	0.00	0.00	0.00	0.00
iii) Sub-total ( I + ii )	0.00	1080.00	1188.00	1306.80	1437.48	1581.23
iv) Add : Opening stock	0.00	0.00	99.00	108.90	119.79	119.79
v) Sub-total ( iii + iv )	0.00	1080.00	1287.00	1415.70	1557.27	1701.02
vi) Less : Closing stock	0.00	99.00	108.90	119.79	119.79	131.77
vii) Sub-total (Total cost of Sales ( v - vi ))	0.00	981.00	1178.10	1295.91	1437.48	1569.25
<b>3. SELLING, GENERAL &amp; ADMINISTRATIVE EXPENSES</b>	0.00	384.30	422.73	465.00	511.50	562.65
<b>4. OPERATING PROFIT (before [1(iii) - 2(vii) - 3])</b>	0.00	434.70	379.17	417.09	446.82	503.48
<b>5. INTEREST &amp; Discounting charges</b>	17.44	33.39	31.41	29.43	27.45	25.46
<b>6. DEPRECIATION</b>	14.38	26.74	22.98	19.76	17.01	14.64
<b>7. OPERATING PROFIT (after (4-5-6))</b>	-31.82	374.57	324.78	367.90	402.37	463.37
<b>8. I) Add : other non-operating income</b>						
a)	0.00	0.00	0.00	0.00	0.00	0.00
b)	0.00	0.00	0.00	0.00	0.00	0.00
c) Sub-total(INCOME)	0.00	0.00	0.00	0.00	0.00	0.00
<b>ii) Less : other non-operating expenses</b>						
a)	0.00	0.00	0.00	0.00	0.00	0.00
b)	0.00	0.00	0.00	0.00	0.00	0.00
c) Sub-total(EXPENSES)	0.00	0.00	0.00	0.00	0.00	0.00
<b>iii) Net of other non operating income / expenses(net of 8 (I) &amp; (ii))</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>9. PROFIT BEFORE TAX / LOSS ( 7 + 8(iii))</b>	-31.82	374.57	324.78	367.90	402.37	463.37
<b>10. PROVISION FOR TAX/Tax paid</b>	0.00	95.05	107.61	121.14	166.91	185.88
<b>11. NET PROFIT / LOSS (9 - 10)</b>	-31.82	279.53	217.17	246.76	235.46	277.49
<b>12. Dividends - Equity</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>13. RETAINED PROFIT ( 11 - 12 )</b>	-31.82	279.53	217.17	246.76	235.46	277.49
<b>14. RETAINED PROFIT/ NET PROFIT (% AGE) (13-11)</b>	100%	100%	100%	100%	100%	100%

### FORM III: ANALYSIS OF BALANCE SHEET

PARTICULARS	31.03.2026	31.03.2027	31.03.2028	31.03.2029	31.03.2030	31.03.2031
	Provisions	Projections	Projections	Projections	Projections	Projections
<b>CURRENT LIABILITIES</b>						
1. Short-term borrowings from banks (incl bills purchased, discounted and excess borrowings placed on repayment basis)						
a) From applicant bank	238.00	238.00	238.00	238.00	238.00	238.00
b) From other Banks	0.00	0.00	0.00	0.00	0.00	0.00
c) others	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total (A)	238.00	238.00	238.00	238.00	238.00	238.00
2. Short-Term borrowings	0.00	0.00	0.00	0.00	0.00	0.00
3. Sundry creditors (Trade) (month's purchases)	0.00	84.08	134.26	164.10	229.73	328.52
4. Advance payments from customers/deposits from dealers	0.00	0.00	0.00	0.00	0.00	0.00
5. Provision for taxation	0.00	95.05	107.61	121.14	166.91	185.88
6. Dividend payable	0.00	0.00	0.00	0.00	0.00	0.00
7. Other statutory liabilities (due within one year)	0.00	0.00	0.00	0.00	0.00	0.00
8. Deposits/Debentures/installments under term loans/DPGs,etc. (due within one year)	0.00	0.00	0.00	0.00	0.00	0.00
9. Other current liabilities & provisions(due within one year) (specify major items)	0.00	10.36	10.47	22.55	24.23	29.55
10. Non-current liabilities (Deferred tax liability)	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total (B)	<b>0.00</b>	<b>189.49</b>	<b>252.34</b>	<b>307.78</b>	<b>420.87</b>	<b>543.95</b>
11. TOTAL CURRENT LIABILITIES (total of A + B)	238.00	427.49	490.34	545.78	658.87	781.95
<b>TERM LIABILITIES</b>						
12. Debentures (not maturing within one year)	0.00	0.00	0.00	0.00	0.00	0.00
13. Preference Shares (redeemable after one year)	0.00	0.00	0.00	0.00	0.00	0.00
14. Term loans	141.23	119.22	97.21	75.20	53.19	31.18
15. Deferred Payment Credits (excluding instalments due within one year)	0.00	0.00	0.00	0.00	0.00	0.00
16. Term deposits (repayable after one year)	0.00	0.00	0.00	0.00	0.00	0.00
17. Other term liabilities (Unsecured loans)	0.00	14.27	25.40	22.15	20.00	22.25
18. TOTAL TERM LIABILITIES (Total of 12 to 17)	141.23	133.49	122.61	97.35	73.19	53.43
19. TOTAL OUTSIDE LIABILITIES ( 11+18)	379.23	560.98	612.95	643.13	732.06	835.38
<b>NET WORTH</b>						
20. Capital	222.00	190.18	469.71	686.88	933.64	1169.10
21. Additional capital	0.00	0.00	0.00	0.00	0.00	0.00
22. Loans from Directors	0.00	0.00	0.00	0.00	0.00	0.00
23. Other reserves (excluding provisions)	0.00	0.00	0.00	0.00	0.00	0.00
24. Surplus (+) or deficit (-) in profit & Loss account	-31.82	279.53	217.17	246.76	235.46	277.49
25. NET WORTH	190.18	469.71	686.88	933.64	1169.10	1446.59
26. TOTAL LIABILITIES (19 + 25)	569.41	1030.69	1299.83	1576.78	1901.16	2281.98

**FORM III: ANALYSIS OF BALANCE SHEET**

PARTICULARS	31.03.2026	31.03.2027	31.03.2028	31.03.2029	31.03.2030	31.03.2031
	Provisions	Projections	Projections	Projections	Projections	Projections
<b>CURRENT ASSETS</b>						
27. Cash and Bank Balances	9.89	112.33	133.44	146.66	157.54	321.40
28. Investments (other than long term investments)	0.00	0.00	0.00	0.00	0.00	0.00
I) Government & other trustee securities	0.00	0.00	0.00	0.00	0.00	0.00
ii) Fixed deposits with banks	0.00	0.00	0.00	0.00	0.00	0.00
iii) Others	0.00	0.00	0.00	0.00	0.00	0.00
29. I) Receivables other than deferred & exports including bills purchased & discounted by bankers (Months domestic sales)	0.00	197.26	244.11	196.92	196.92	216.61
ii) Export receivables (including bills purchased/discounted by bankers) (Months export sales)	0.00	0.00	0.00	0.00	0.00	0.00
30. Instalments under deferred receivables (due within one year)	0.00	0.00	0.00	0.00	0.00	0.00
31. Stocks-in-trade (Months cost of sales)	0.00	99.00	108.90	119.79	119.79	131.77
32. Advances to suppliers of merchandise	0.00	0.00	0.00	0.00	0.00	0.00
33. Advance payment of taxes	0.00	0.00	0.00	0.00	0.00	0.00
34. Other current assets (specify major items)	209.36	321.50	354.33	465.86	691.18	667.62
35. TOTAL CURRENT ASSETS (Total of 27 to 34)	219.25	730.09	840.78	929.23	1165.43	1337.40
Check	219.25	730.09	840.78	929.23	1165.43	1337.40
<b>FIXED ASSETS</b>						
36. Gross Block (Land & Building, machinery,furniture & fittings, vehicles)	273.23	258.85	232.11	209.13	189.37	172.36
37. Depreciation to date	14.38	26.74	22.98	19.76	17.01	14.64
38. NET BLOCK (36 - 37)	258.85	232.11	209.13	189.37	172.36	157.72
<b>OTHER NON-CURRENT ASSETS</b>						
39. Investments/book debts/advance/ deposits which are not Current Assets						
I) a)Investments in subsidiary companies/affillates	0.00	0.00	0.00	0.00	0.00	0.00
b)Others (margin money)	0.00	0.00	0.00	0.00	0.00	0.00
ii) Advances to suppliers of Capital goods	0.00	0.00	0.00	0.00	0.00	0.00
iii) Deferred receivables (maturity exceeding one year)	0.00	0.00	0.00	0.00	0.00	0.00
iv) Security deposit/tender deposit	0.00	0.00	0.00	0.00	0.00	0.00
v) Others	0.00	0.00	0.00	0.00	0.00	0.00
40. Obsolete stock	0.00	0.00	0.00	0.00	0.00	0.00
41. Other non-current assets. (including dues from directors)	0.00	0.00	0.00	0.00	0.00	0.00
42. TOTAL OTHER NON-CURRENT ASSETS (Total of 39 to 41)	0.00	0.00	0.00	0.00	0.00	0.00
43. Intangible assets (patents, goodwill,prelim. Expenses,bad/doubtful debts not provided for, etc.	0.00	0.00	0.00	0.00	0.00	0.00
44. TOTAL ASSETS (Total of 35,38,42 & 43)	478.10	962.20	1049.91	1118.59	1337.79	1495.12
	478.10	962.20	1049.91	1118.59	1337.79	1495.12
	0.00	0.00	0.00	0.00	0.00	0.00
45. TANGIBLE NET WORTH	190.18	469.71	686.88	933.64	1169.10	1446.59
46. NET WORKING CAPITAL [(18+25)-(38+42+43)] To tally with (34 - 10)	72.56	371.09	600.36	841.63	1069.93	1342.30
47. Current Ratio (35/11)	0.92	1.71	1.71	1.70	1.77	1.71
48. Total Outside Liabilities/ Tangible Net Worth (19/45)	1.99	1.19	0.89	0.69	0.63	0.58
<b>ADDITIONAL INFORMATION</b>						
(A) Arrears of depreciation	0.00	0.00	0.00	0.00	0.00	0.00
(B) Contingent liabilities	0.00	0.00	0.00	0.00	0.00	0.00
a) Arrears of cumulative dividends	0.00	0.00	0.00	0.00	0.00	0.00
b) Gratuity liability not provided for	0.00	0.00	0.00	0.00	0.00	0.00
c) Disputed excise/customs/ tax liabilities	0.00	0.00	0.00	0.00	0.00	0.00
d) Bills accepted/guarantees extended to accommodate associate/sister concerns of other third parties	0.00	0.00	0.00	0.00	0.00	0.00
e) Other liabilities not Provided for	0.00	0.00	0.00	0.00	0.00	0.00

**FORM IV - COMPARATIVE STATEMENT OF CURRENT ASSETS & CURRENT LIABILITIES**

PARTICULARS	31.03.2026	31.03.2027	31.03.2028	31.03.2029	31.03.2030	31.03.2031
	Provisions	Projections	Projections	Projections	Projections	Projections
<b>A. CURRENT ASSETS</b>						
1. Stock-in-trade (Month's cost of sales)	0.00	99.00	108.90	119.79	119.79	131.77
2. Receivables other than export & deferred receiveables (includg. Bills purchased & discounted by bankers) (Months domestic sales)	0.00	197.26	244.11	196.92	196.92	216.61
3. Export receivables (incl. Bills purch. & disc.) ( Months export sales)	0.00	0.00	0.00	0.00	0.00	0.00
4. Advances to suppliers of merchandise	0.00	0.00	0.00	0.00	0.00	0.00
5. Other current assets (Incl. cash & bank balances & deferred receivables due within one year) (specify major items)	219.25	433.83	487.77	612.52	848.72	989.02
6. <b>TOTAL CURRENT ASSETS</b> (To agree with item 34 in Form III)	219.25	730.09	840.78	929.23	1165.43	1337.40
219.25	730.09	840.78	929.23	1165.43	1337.40	
<b>B. CURRENT LIABILITIES</b> (other than bank borrowings for working capital)						
7. Sundry creditors (Trade)	0.00	84.08	134.26	164.10	229.73	328.52
8. Advance payments from customers/deposits from dealers.	0.00	0.00	0.00	0.00	0.00	0.00
9. Statutory liabilities	0.00	95.05	107.61	121.14	166.91	185.88
10. Other current liabilities (specify major items such as short term borrowings, unsecured loans,dividend payable,instalments of TL,DPG,public deposits, debentures,etc.)	379.23	381.85	371.08	357.90	335.42	320.98
11. Non-current liabilities (Deferred tax liability)	0.00	0.00	0.00	0.00	0.00	0.00
12. <b>TOTAL :</b> (To agree with sub-total B - Form III)	379.23	560.98	612.95	643.13	732.06	835.38
	379.23	560.98	612.95	643.13	732.06	835.38

### **FORM V: BANK FINANCE FOR WORKING CAPITAL**

<b>PARTICULARS</b>	<b>31.03.2026</b>	<b>31.03.2027</b>	<b>31.03.2028</b>	<b>31.03.2029</b>	<b>31.03.2030</b>	<b>31.03.2031</b>
	<b>Provisions</b>	<b>Projections</b>	<b>Projections</b>	<b>Projections</b>	<b>Projections</b>	<b>Projections</b>
1. Total of Current Assets (35 of form III)	219.25	730.09	840.78	929.23	1165.43	1337.40
2. Current Liabilities (2 to 10 of Form III) (Other than bank borrowings)	0.00	189.49	252.34	307.78	420.87	543.95
3. Working Capital Gap(WCG) (1 -2)	219.25	540.60	588.44	621.44	744.55	793.44
4. Min.stipulated net working Capital - 25% of total current assets other than Export receivables. (as at 28(ii) of Form III)	54.81	182.52	210.19	232.31	291.36	334.35
5. Actual/projected net working capital(46 in Form III)	72.56	371.09	600.36	841.63	1069.93	1342.30
6. Item 3 minus item 4	164.44	358.08	378.25	389.14	453.20	459.09
7. Item 3 minus item 5	146.69	169.51	-11.92	-220.18	-325.38	-548.86
8. Maximum permissible bank finance (item 6 or 7, whichever is lower)	146.69	169.51	-11.92	-220.18	-325.38	-548.86
9. Excess borrowings,if any representing shortfall in NWC(4 - 5)	0.00	0.00	0.00	0.00	0.00	0.00

# M T B

## CALCULATION OF DEBT SERVICE COVERAGE RATIO (DSCR)

PARTICULARS	31.03.2028	31.03.2029	31.03.2030	31.03.2031	TOTAL
<b><u>SERVICES ::</u></b>					
Net Profit	306.27	344.77	475.04	529.05	<b>1,655.13</b>
Interest on T.Loan / WC	31.41	29.43	27.45	25.46	<b>113.74</b>
Depreciation	22.98	19.76	17.01	14.64	<b>74.39</b>
Prel.& Pre.op. Exp.					
Lease Rentals					
<b>TOTAL</b>	<b>360.66</b>	<b>393.96</b>	<b>519.49</b>	<b>569.15</b>	<b>1,843.27</b>
<b><u>DEBTS ::</u></b>					
Interest on T.Loan / WC	31.41	29.43	27.45	25.46	<b>113.74</b>
Repayment of T.Loan	-	-	-	-	-
Interest on Unsecured Loans					
Repayment of Unsecured Loans					
<b>TOTAL</b>	<b>31.41</b>	<b>29.43</b>	<b>27.45</b>	<b>25.46</b>	<b>-</b>
<b>D.S.C.R. --&gt;</b>	<b>11.48</b>	<b>13.39</b>	<b>18.93</b>	<b>22.35</b>	<b>-</b>

## RATIOS

PARTICULARS	31.03.2028	31.03.2029	31.03.2030	31.03.2031
	Projections	Projections	Projections	Projections
1. Gross Profit Ratio (%)	36.75%	36.75%	41.75%	41.75%
2. Operating Expense Ratio (%)	13.10%	9.99%	9.70%	9.47%
3. Operating Profit Ratio (%)	21.41%	21.76%	27.05%	27.28%
4. Net Profit Ratio (%)	15.47%	15.83%	19.83%	20.07%
5. Interest Coverage Ratio (Times)	42.44	59.19	107.54	177.77
6. Current Ratio	1.71	1.70	1.77	1.71
7. Quick Ratio	1.49	1266.01	1532.62	1713.57
8. Debt-Equity Ratio	2.76	2.57	2.38	2.23
9. Total Indebtness Ratio	0.34	0.30	0.23	0.19
10. Debt Assets Ratio	0.34	0.30	0.23	0.19
11. Fixed Assets Coverage Ratio	2.15	2.52	3.24	5.06
12. Inventory Turnover Ratio	10.38	10.38	10.00	10.38
13. Debtors Turnover Ratio (Days)	45.00	33.00	30.00	30.00
14. Creditors Turnover Ratio (Days)	45.00	50.00	70.00	91.00
15. Capital Turnover Ratio	8.69	10.58	13.03	16.28
16. Total Assets Turnover Ratio	1.89	0.51	0.56	0.57
17. Return on Capital Employed Ratio (%)	1.86	2.30	3.52	4.44

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## Depreciation schedule

### Fixed Assets schedule for FY 2025-26

PARTICULARS	Rate	GROSS BLOCK						Amount in Rs.	
		AS ON 01-04-25	ADDITIONS		DELITION	Total	DEP FOR THE YEAR	Net Block	
			>180 days	<180 days				AS ON 31-03-26	
Plant & Machinery	15%	-	156		-	155.98	11.70	144.28	
Land	0%		64		-	63.62	.00	63.62	
Factory Building	10%	-	54		-	53.63	2.68	50.95	
<b>TOTAL</b>			<b>273</b>			<b>273.23</b>	<b>14.38</b>	<b>258.85</b>	

### Fixed Assets schedule for FY 2026-27

PARTICULARS	Rate	GROSS BLOCK						Amount in Rs.	
		AS ON 31-03-26	ADDITIONS		DELITION	Total	DEP FOR THE YEAR	Net Block	
			>180 days	<180 days				AS ON 31-03-27	
Plant & Machinery	15%	144.28	-	-	-	144.28	21.64	122.64	
Land	0%	63.62			-	63.62	-	63.62	
Factory Building	10%	50.95	-	-	-	50.95	5.09	45.85	
<b>TOTAL</b>		<b>258.85</b>				<b>258.85</b>	<b>26.74</b>	<b>232.11</b>	

### Fixed Assets schedule for FY 2027-28

PARTICULARS	Rate	GROSS BLOCK						Amount in Rs.	
		AS ON 31-03-27	ADDITIONS		DELITION	Total	DEP FOR THE YEAR	Net Block	
			>180 days	<180 days				AS ON 31-03-28	
Plant & Machinery	15%	122.64	-	-	-	122.64	18.40	104.24	
Land	0%	63.62			-	63.62	-	63.62	
Factory Building	10%	45.85	-	-	-	45.85	4.59	41.27	
<b>TOTAL</b>		<b>232.11</b>				<b>232.11</b>	<b>22.98</b>	<b>209.13</b>	

### Fixed Assets schedule for FY 2028-29

PARTICULARS	Rate	GROSS BLOCK						Amount in Rs.	
		AS ON 31-03-28	ADDITIONS		DELITION	Total	DEP FOR THE YEAR	Net Block	
			>180 days	<180 days				AS ON 31-03-29	
Plant & Machinery	15%	104.24	-	-	-	104.24	15.64	88.61	
Land	0%	63.62			-	63.62	-	63.62	
Factory Building	10%	41.27	-	-	-	41.27	4.13	37.14	
<b>TOTAL</b>		<b>209.13</b>				<b>209.13</b>	<b>19.76</b>	<b>189.37</b>	

### Fixed Assets schedule for FY 2029-30

PARTICULARS	Rate	GROSS BLOCK						Amount in Rs.	
		AS ON 31-03-29	ADDITIONS		DELITION	Total	DEP FOR THE YEAR	Net Block	
			>180 days	<180 days				AS ON 31-03-30	
Plant & Machinery	15%	88.61	-	-	-	88.61	13.29	75.32	
Land	0%	63.62			-	63.62	-	63.62	
Factory Building	10%	37.14	-	-	-	37.14	3.71	33.43	
<b>TOTAL</b>		<b>189.37</b>				<b>189.37</b>	<b>17.01</b>	<b>172.36</b>	

### Fixed Assets schedule for FY 2030-31

PARTICULARS	Rate	GROSS BLOCK						Amount in Rs.	
		AS ON 31-03-30	ADDITIONS		DELITION	Total	DEP FOR THE YEAR	Net Block	
			>180 days	<180 days				AS ON 31-03-31	
Plant & Machinery	15%	75.32	-	-	-	75.32	11.30	64.02	

Land	0%	63.62	-	-	-	63.62	-	63.62
Factory Building	10%	33.43	-	-	-	33.43	3.34	30.08
<b>TOTAL</b>		<b>172.36</b>	-	-	-	<b>172.36</b>	<b>14.64</b>	<b>157.72</b>

### **Total Loan Repayment Schedule of Term Loan**

<b>YEAR</b>	<b>Principal Paid</b>	<b>Interest Paid</b>	<b>Total Payment (Principal and Interest)</b>	<b>Balance Principal to be paid</b>	<b>% Loan Paid to Date</b>
2025-26	12.84	6.73	19.57	143.07	8.33%
2026-27	22.01	11.97	33.98	121.06	22.62%
2027-28	22.01	9.99	32.00	99.05	36.90%
2028-29	22.01	8.01	30.02	77.04	51.19%
2029-30	22.01	6.03	28.04	55.03	65.48%
2030-31	22.01	4.04	26.05	33.02	79.76%
2031-32	22.01	2.06	24.07	11.01	94.05%
2032-33	9.17	0.29	9.46	0.00	100.00%

## Term Loan Repayment Schedule

**Lender name:** State Bank of India

Loan amount	154.07
Annual interest rate	9.00%
Loan period in years	7
Number of payments per year	12
Start date of loan	1/5/2025
Optional extra payments	0

**Term Loan summary**

Mortorium Period	6 months
Scheduled payment	
Scheduled number of payments	84
Actual number of payments	78
Total early payments	0
Total interest	49

Pmt. No.	Beginning Balance	Scheduled Payment	Total Payment	Principal	Interest	Ending Balance	Princi	Int
1	154.07	-	2.99	1.83	1.16	152.24		
2	152.24	-	2.98	1.83	1.14	150.40		
3	150.40	-	2.96	1.83	1.13	148.57		
4	148.57	-	2.95	1.83	1.11	146.73		
5	146.73	-	2.93	1.83	1.10	144.90		
6	144.90	-	2.92	1.83	1.09	143.07		
7	143.07	2.91	2.91	1.83	1.07	141.23	12.84	7
8	141.23	2.89	2.89	1.83	1.06	139.40		
9	139.40	2.88	2.88	1.83	1.05	137.56		
10	137.56	2.87	2.87	1.83	1.03	135.73		
11	135.73	2.85	2.85	1.83	1.02	133.89		
12	133.89	2.84	2.84	1.83	1.00	132.06		
13	132.06	2.82	2.82	1.83	0.99	130.23		
14	130.23	2.81	2.81	1.83	0.98	128.39		
15	128.39	2.80	2.80	1.83	0.96	126.56		
16	126.56	2.78	2.78	1.83	0.95	124.72		
17	124.72	2.77	2.77	1.83	0.94	122.89		
18	122.89	2.76	2.76	1.83	0.92	121.06		
19	121.06	2.74	2.74	1.83	0.91	119.22	22.01	11.97
20	119.22	2.73	2.73	1.83	0.89	117.39		
21	117.39	2.71	2.71	1.83	0.88	115.55		
22	115.55	2.70	2.70	1.83	0.87	113.72		
23	113.72	2.69	2.69	1.83	0.85	111.88		
24	111.88	2.67	2.67	1.83	0.84	110.05		
25	110.05	2.66	2.66	1.83	0.83	108.22		
26	108.22	2.65	2.65	1.83	0.81	106.38		
27	106.38	2.63	2.63	1.83	0.80	104.55		
28	104.55	2.62	2.62	1.83	0.78	102.71		
29	102.71	2.60	2.60	1.83	0.77	100.88		
30	100.88	2.59	2.59	1.83	0.76	99.05		
31	99.05	2.58	2.58	1.83	0.74	97.21	22.01	9.99
32	97.21	2.56	2.56	1.83	0.73	95.38		
33	95.38	2.55	2.55	1.83	0.72	93.54		
34	93.54	2.54	2.54	1.83	0.70	91.71		
35	91.71	2.52	2.52	1.83	0.69	89.87		
36	89.87	2.51	2.51	1.83	0.67	88.04		
37	88.04	2.49	2.49	1.83	0.66	86.21		
38	86.21	2.48	2.48	1.83	0.65	84.37		
39	84.37	2.47	2.47	1.83	0.63	82.54		
40	82.54	2.45	2.45	1.83	0.62	80.70		
41	80.70	2.44	2.44	1.83	0.61	78.87		
42	78.87	2.43	2.43	1.83	0.59	77.04		
43	77.04	2.41	2.41	1.83	0.58	75.20	22.01	8.01
44	75.20	2.40	2.40	1.83	0.56	73.37		
45	73.37	2.38	2.38	1.83	0.55	71.53		
46	71.53	2.37	2.37	1.83	0.54	69.70		
47	69.70	2.36	2.36	1.83	0.52	67.86		

48	67.86	2.34	2.34	1.83	0.51	66.03		
49	66.03	2.33	2.33	1.83	0.50	64.20		
50	64.20	2.32	2.32	1.83	0.48	62.36		
51	62.36	2.30	2.30	1.83	0.47	60.53		
52	60.53	2.29	2.29	1.83	0.45	58.69		
53	58.69	2.27	2.27	1.83	0.44	56.86		
54	56.86	2.26	2.26	1.83	0.43	55.03		
55	55.03	2.25	2.25	1.83	0.41	53.19	22.01	6.03
56	53.19	2.23	2.23	1.83	0.40	51.36		
57	51.36	2.22	2.22	1.83	0.39	49.52		
58	49.52	2.21	2.21	1.83	0.37	47.69		
59	47.69	2.19	2.19	1.83	0.36	45.85		
60	45.85	2.18	2.18	1.83	0.34	44.02		
61	44.02	2.16	2.16	1.83	0.33	42.19		
62	42.19	2.15	2.15	1.83	0.32	40.35		
63	40.35	2.14	2.14	1.83	0.30	38.52		
64	38.52	2.12	2.12	1.83	0.29	36.68		
65	36.68	2.11	2.11	1.83	0.28	34.85		
66	34.85	2.10	2.10	1.83	0.26	33.02		
67	33.02	2.08	2.08	1.83	0.25	31.18	22.01	4.04
68	31.18	2.07	2.07	1.83	0.23	29.35		
69	29.35	2.05	2.05	1.83	0.22	27.51		
70	27.51	2.04	2.04	1.83	0.21	25.68		
71	25.68	2.03	2.03	1.83	0.19	23.84		
72	23.84	2.01	2.01	1.83	0.18	22.01		
73	22.01	2.00	2.00	1.83	0.17	20.18		
74	20.18	1.99	1.99	1.83	0.15	18.34		
75	18.34	1.97	1.97	1.83	0.14	16.51		
76	16.51	1.96	1.96	1.83	0.12	14.67		
77	14.67	1.94	1.94	1.83	0.11	12.84		
78	12.84	1.93	1.93	1.83	0.10	11.01		
79	11.01	1.92	1.92	1.83	0.08	9.17	22.01	2.06
80	9.17	1.90	1.90	1.83	0.07	7.34		
81	7.34	1.89	1.89	1.83	0.06	5.50		
82	5.50	1.88	1.88	1.83	0.04	3.67		
83	3.67	1.86	1.86	1.83	0.03	1.83		
84	1.83	1.85	1.85	1.83	0.01	0.00	9.17	0.29