



**VRUDDHI**  
ENGINEERING WORKS LIMITED



# ANNUAL REPORT

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**2024**



# **EXECUTIVE SUMMARY**

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A vertical image on the left side of the page showing several pieces of rebar (reinforcing steel) against a blue sky with light clouds. The rebar has a ribbed texture and some markings on it.

# THE PURPOSE

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## **"Driving Sustainable Growth through Innovation and Excellence"**

In 2024, Vruddhi Engineering Works Limited is committed to strengthening its position as a leader in the construction and engineering industry by delivering innovative, high-quality solutions that empower our clients and contribute to the sustainable development of infrastructure. Our focus is on expanding our product offerings, enhancing customer satisfaction, and fostering a culture of continuous improvement and collaboration. We aim to build stronger relationships with our clients and partners, ensuring that every project we undertake reflects our dedication to excellence, safety, and environmental responsibility."

# THE VISION

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Transforming construction through innovative value added engineering solutions



# THE OBJECTIVE

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## Vruddhi's Objective in 2024

To achieve 50% growth by expanding our product portfolio, enhancing operational efficiency, and strengthening client partnerships, while maintaining our commitment to quality, safety, and sustainability.

### Key Focus Areas:

- **Product Innovation:** Introduce innovative product lines and enhancements that address emerging market needs, reinforcing our leadership in the industry.
- **Geographical Expansion:** Expand our market presence across pan India, with a specific focus on the southern region, to establish a stronger foothold in high-potential areas.
- **Focus on Infrastructure Projects:** Increase our involvement in infrastructure-related sectors, offering tailored solutions to meet the growing demands of this industry.
- **Operational Excellence:** Enhance production efficiency through advanced manufacturing technologies and lean processes to improve cost-effectiveness and delivery timelines.
- **Team Development:** Invest in continuous learning and development for our employees, fostering a culture of innovation and ensuring high satisfaction and retention rates.
- **Customer Engagement:** Strengthen client relationships by offering personalized solutions and superior support, while seeking new strategic partnerships to drive business growth.





# CORE VALUES

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- **Innovation:** We embrace a culture of continuous innovation, pushing the boundaries of engineering to develop groundbreaking solutions that redefine the construction industry.
- **Customer-Centricity:** Our customers are at the heart of our business. We listen to their needs, understand their challenges, and work collaboratively to deliver tailored engineering solutions that exceed their expectations.
- **Integrity:** We conduct ourselves with the highest level of integrity, maintaining honesty, transparency, and ethical behavior in all our interactions with customers, partners, employees, and stakeholders.
- **Sustainability:** We are committed to environmental sustainability, developing products and solutions that promote energy efficiency, reduce waste, and contribute to the creation of sustainable, resilient structures and infrastructure.
- **Safety:** We prioritize the safety of our employees, customers, and end-users. We integrate safety considerations into the design, manufacturing, and implementation of our engineering solutions to ensure the well-being of all stakeholders.
- **Continuous Learning:** We value continuous learning and personal growth. We encourage our employees to expand their knowledge, acquire new skills, and stay at the forefront of industry advancements to better serve our customers and drive innovation.

# MESSAGE FROM THE DIRECTOR

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**Dear Stakeholders,**

As I reflect on the past year, I am filled with immense pride in what our team has accomplished. We have navigated through challenges with resilience, embraced new opportunities, and stayed true to our mission of delivering excellence in everything we do.

Our strategic initiatives have borne fruit, resulting in significant growth and strong financial performance. This year, we successfully launched **Vruddhi Sonic Tube (VST) and Vruddhi Conical Wall Tie (VCT)**, positioning us for even greater success in the coming years. Additionally, we have expanded our geographical presence across **pan India**, with a focused push into the **Southern region**, enhancing our ability to serve a wider market.

Beyond our financial achievements, we believe that our success is not just measured by the bottom line, but by the positive impact we create for our clients and communities.

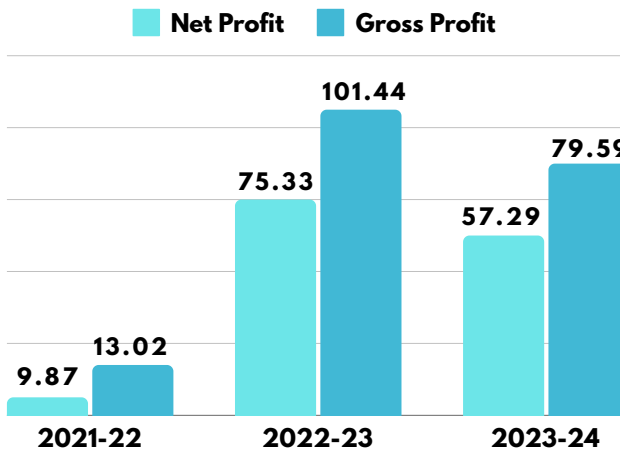
Looking ahead, we are more committed than ever to **engineering the future** through innovation, operational excellence, and delivering value to our customers and stakeholders. Our roadmap for the future is ambitious, and I am confident that with the continued dedication of our team, we will achieve our goals.

Thank you for your unwavering support. Together, we will continue to build on our successes and create a brighter future.

**Sincerely,**  
**Bindi Mehta**  
[Chairperson and Managing Director]  
Vruddhi Engineering Works Limited



# COMPANY PERFORMANCE OVERVIEW (2021-2024)



VALUES IN 'LACS.

"Vruddhi Engineering Works Limited has shown significant growth in both gross profit and net profit over the past few fiscal years, highlighting the company's resilience and strategic expansion."

## 2021-22:

- **Net Profit: ₹9.87 Lacs**
- **Gross Profit: ₹13.02 Lacs**

The fiscal year 2021-22 marked a solid foundation for growth, with a gross profit of ₹13.02 Lacs and a net profit of ₹9.87 Lacs. This period was characterized by careful management of costs and the effective utilization of resources, setting the stage for future success.

## 2022-23:

- **Net Profit: ₹75.33 Lacs**
- **Gross Profit: ₹101.44 Lacs**

Vruddhi Engineering Works Limited experienced a significant upturn in 2022-23, with gross profit escalating to ₹101.44 Lacs and net profit reaching an impressive ₹75.33 Lacs. This surge can be credited to the company's strategic initiatives, including market expansion, innovation in product offerings, and enhanced operational efficiencies.

## 2023-24:

- **Net Profit: ₹57.29 Lacs**
- **Gross Profit: ₹79.59 Lacs**

As of 2024, the fiscal year 2023-24 has been successfully completed, with a gross profit of ₹79.59 Lacs and a net profit of ₹57.29 Lacs. These figures highlight the company's sustained profitability and its continued success in maintaining market leadership while adapting to evolving market conditions.



# **BUSINESS SEGMENTS**

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# REBAR COUPLERS

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Vruddhi Engineering Works Limited continued to strengthen its position as a leader in the construction industry by delivering a diverse range of high-quality products tailored to meet the needs of our clients. Our key product lines for this year include:

- **Cold Forged Coupler**

Vruddhi cold forged couplers system has a proven splicing performance under compression, tension, cyclic and fatigue loads. It is designed to withstand an ultimate tensile performance up to 650 MPa. The rebar ends are enlarged by cold forging and then threaded by two on-site machines. They are recommended for use in seismic conditions. Available in sizes  $\phi$  16mm to 40mm.



- **Parallel Roll Threaded Coupler**

Vruddhi Parallel threaded couplers are designed for connecting reinforcement bars from  $\phi$  16 mm to 40 mm. The rebar threads are parallel threaded by a roller threading machine.



- **Precast Coupler**

Vruddhi Precast couplers are specially designed for rebar splicing to connect precast elements. It is a half-grout system having one threaded end for connecting rebar and a hollow cavity for connecting two precast elements on construction site. The system offers benefits of threaded system along with tolerance and flexibility of grout system.



- **Hydraulic Crimping Coupler**

A cold extrusion hydraulic press is used to connect two non-threaded rebars, with a hydraulic power pack and hand-held jack deployed on-site for crimping. This method is ideal for extending RCC members where lap length is unavailable, retrofitting, strengthening, and repairing structures, or in situations where rebar end preparation is not possible.



- **Taper Threaded Couplers**

It uses self-aligning taper threads to join two reinforcement bars with positive locking. Vruddhi taper threaded couplers provide consistent performance and are easy to install.



- **Bolted Couplers**

Vruddhi bolted couplers are utilized to connect two reinforcing bars end-to-end when one bar is already cast in place and there is inadequate space to use a hydraulic cold press for crimping. They are quite easy to install. Installation doesn't require any special rebar end preparation.



# VRUDDHI SONIC TUBE (VST)

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In 2024, Vruddhi Engineering Works Limited continues to innovate with the introduction of the Vruddhi Sonic Tube (VST), a key product designed to ensure quality in deep foundation testing, such as diaphragm walls, drilled shafts, and bored piles.

The VST, also known as Cross-hole Sonic Logging (CSL) Tubes, plays a crucial role in modern construction projects by providing an accurate method to test the strength and integrity of concrete in deep foundations. These tubes are embedded in the structure prior to concrete pouring, helping assess the integrity and ensuring compliance with safety standards.



## Key Features:

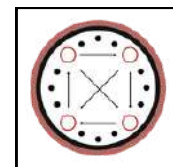
- **No Threading or Welding Required:** The VST features a push-fit assembly, making it easy to install without the need for threading or welding. This results in faster installations, lower labor costs, and higher efficiency on-site.
- **Bell-shaped Design:** The VST's bell-shaped ends allow for secure and stable placement within the rebar cage, streamlining the assembly process.
- **Durable:** Made from thin steel with high-quality rubber gaskets, the VST offers a dependable seal, preventing debris from entering the tube and maintaining its integrity during testing.
- **Versatility:** Available in multiple sizes (VST-50, VST-100, and VST-150), the VST caters to various construction needs, ensuring compatibility across diverse project specifications.

## Advantages:

- **Cost-Effective Installation:** The simple push-fit system and no special equipment required reduce labor and equipment costs.
- **Accurate Testing:** The VST's robust construction ensures leak-proof connections, guaranteeing precise test results and contributing to safer, more durable structures.
- **Adaptability:** Rubber gaskets are easily replaceable if damaged, ensuring long-term consistency and efficiency.

## Product Sizes:

- **VST-50:** Outer Diameter: 50.8 mm,
- **VST-100:** Outer Diameter: 102 mm,
- **VST-150:** Outer Diameter: 154 mm,



## Sizes:

- VST 50
- VST 100
- VST 150

The Vruddhi Sonic Tube has established itself as a vital component in ensuring the structural integrity of modern infrastructure projects. Its design, ease of use, and cost-efficiency have made it a preferred choice for contractors and developers alike, as it supports the critical need for cross-hole sonic logging (CSL) testing. As we look toward the future of engineering, the VST exemplifies Vruddhi Engineering Works Limited's commitment to leading the way with innovative solutions. This product underscores our dedication to advancing the construction industry by offering high-performance tools that meet the evolving demands of infrastructure development.

# MACHINES

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2024 was a year of expansion and enhancement for our service offerings. At Vruddhi Engineering Works Limited, we focus on providing comprehensive services that support our products and ensure the success of our clients' projects:

- **Rebar Threading Machine**

The BTS Rebar Threading Machine continues to be a vital tool, delivering high-precision threading that ensures consistent quality in rebar connections, crucial for maintaining project integrity.



- **Rebar Roller Threading Machine**

Our Rebar Roller Threading Machine is designed for efficiency and accuracy, helping clients reduce labor costs and improve installation speeds without compromising on quality.



- **Rebar Cold Forging Machine**

The Rebar Cold Forging Machine is integral to the production of our Cold Forged Couplers, ensuring each coupler meets the highest standards of strength and performance.



- **Mobile Van Services**

We provide mobile van services equipped with machinery for on-site rebar threading and other essential tasks. This service allows us to offer timely support directly at the construction site, ensuring minimal downtime and efficient project completion.

- **On-Site Machine Work**

Our team of experts is available for on-site machine work, providing hands-on assistance with installation, maintenance, and troubleshooting to ensure that our products perform at their best.

# VRUDDHI CONICAL WALL TIE (VCT)

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VCT is used to lock formwork panels, with a provision to leave a rod in the structure for leakage protection. It is an alternative to conventional wall ties, eliminating the need for sacrificial through-hole grouting in the structure.

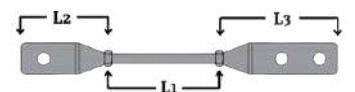
## Key Features of VCT:

- **Versatility:** The VCT is designed to be compatible with a wide range of formwork systems, making it a valuable asset for any construction project. Its adaptability allows seamless integration, ensuring uniformity and ease of use across different projects.
- **Leakage Protection:** The VCT enhances the integrity of the structure by minimizing leakage through its design. A rod left inside the structure provides a superior seal, reducing the risk of leakage and ensuring the long-term durability of the structure.
- **Enhanced Stability:** Precision is critical in construction, and the VCT ensures precise alignment of formwork panels. This accuracy improves the stability of concrete walls, reducing defects and enhancing overall quality.
- **Cost-Effectiveness:** The cones at each end of the VCT are reusable throughout the entire construction project. This not only lowers material costs but also supports environmentally friendly practices by reducing waste.
- **Improved Structural Integrity:** The sacrificial rod of the VCT ensures there are no through-holes in reinforced concrete, enhancing the structural strength and reducing grout filling time, which significantly cuts down project timelines.

## Product Design:

**L1:** Designed according to the width of the structure.

**L2 & L3:** Designed as per formwork specifications to meet the unique needs of each project.





# **HUMAN RESOURCES**





# HUMAN RESOURCES

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2024 was a year of expansion and enhancement for our service offerings. At Vruddhi Engineering Works Limited, we focus on providing comprehensive services that support our products and ensure the success of our clients' projects:

- **Team Overview:**

At Vruddhi Engineering Works Limited, our Human Resources team plays a pivotal role in fostering a dynamic and high-performing workplace. Our strength lies in the dedicated efforts of our HR professionals who drive various initiatives to enhance employee development and engagement.

- **Training Programs:**

We are committed to the continuous growth and development of our employees. Our comprehensive training programs are designed to equip our team with the necessary skills and knowledge to excel in their roles. These programs include technical training on our product lines, leadership development, and soft skills workshops. By investing in our employees' growth, we ensure they are well-prepared to meet both current and future challenges.

- **Employee Achievements:**

Our team's accomplishments are a testament to their hard work and dedication. We take pride in celebrating individual and collective achievements that contribute to the success of our organization. Whether it's a notable project completion, a significant innovation, or recognition in industry forums, our employees' achievements are a source of inspiration and motivation for the entire team.

- **HR Initiatives:**

Our HR initiatives focus on creating a supportive and inclusive work environment. We actively seek feedback from employees to continuously improve our practices and ensure their needs are met. Key initiatives include enhanced employee wellness programs, regular performance reviews, and initiatives to promote work-life balance.

# CULTURE AND VALUES

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## **Company Culture:**

Our company culture is grounded in respect, collaboration, and excellence. We believe in fostering a positive work environment where every team member feels valued and empowered. Our culture encourages open communication, teamwork, and a commitment to achieving our organizational goals with integrity and dedication.

## **Special Events and Initiatives:**

To reinforce our values and enhance team bonding, we organize various events throughout the year. A notable example is the picnic for our machine operators on Independence Day, held on August 15th. This event provided an opportunity for our team to relax, celebrate, and strengthen their connections outside the workplace.

Another highlight was the office picnic held on February 10th, which focused on team-building activities, including group games and adventure challenges. These activities encouraged collaboration, communication, and camaraderie among our employees.

Such initiatives are integral to building a cohesive and motivated team.



# CLIENTELE



At Vruddhi Engineering Works Limited, we take pride in our long-standing relationships with some of the most respected names in the industry. Our ability to deliver high-quality products and services has enabled us to forge strong partnerships with a diverse clientele. Below are some of our key partnerships:

## KEY APPROVALS:



## KEY CLIENTS:



## KEY PROJECTS:

- India's Tallest Towers – Aaradhya Awaan, Tardeo, Mumbai
- Coco-Cola bottle plant, Hyderabad.
- Runwal 12 Towers, 50 floors each, Thane
- D.Y. Patil Hospital, Vashi, Navi Mumbai