

### "WE TURN IDEAS INTO REALITY"



**SINCE 1980** 

# JYOTI FORGE AND FABRICATION

STEEL ENGINEERING & CONSTRUCTION COMPANY

A LEADING CONSTRUCTION COMPANY
BASED IN GUWAHATI WORKING ON
BOTH REGIONAL AND NATIONAL PROJECTS

**RDSO APPROVED** 







### A Word from our Managing Director

### THE WORLD'S BUILD ENVIRONMENT IS CHANGING

From contemporary architecture to more efficient structures, Jyoti Forge and Fabrication is pioneering the revolution of the Steel construction industry.

### **OUR SPECIALTY**

Structural steel and metal fabrication are at the core of all our production activity. We deliver a wide range of products and proficient services with guaranteed efficiency, optimum pricing and customer satisfaction.

### **44 YEARS OF COMMITMENT**

Since 1980 JFF developed unique expertise in steel fabrication and structural solution. The company has always endeavoured to embrace new technological advancement in steel construction to adapt to the ever evolving market needs.

### A CLIENT CENTRIC COMPANY

JFF is associated with quality work, timely delivery, best pricing i.e. trust & reliability. Due to this value system, over the years JFF has been able to complete some of the most premium project bot at local and as well as regional level. We emphasise our position as your partner as we give personal attention to each of our client and are proactive in finding solutions that will best achieve your goals.

Our mission, as your preferred steel partner, is to reproduce any concept you envision in your mind and keeping you worry-free.

Our insistence on responsiveness and professionalism has led to our success, and we have earned a reputation for providing superior steel solutions that exceed client's expectations.

We take pride in the quality of our services, and are regionally recognised for our ability to deliver trunky projects, specializing in highly engineered steel structures.

### **ABOUT US**

Company profile History Management Core team

### **VISION & MISSION SERVICES**

Work flow process
Research & Development
Fabrication & Testing
Supply & Erection

### **PRODUCTS**

- (1) Steel Bridge
- (2) PEB Structure
- (3) Convention Structure
- (4) Multistory Building
- (5) PS Tank
- (6) Water staging

Design, Manufacturing, Supply & Erection of Pre-Engineered Metal Building for

- (1)Warehouse Shed
- (2)Industrial Shed
- (3) Multi Store Steel Building
- (4)Commercial Building

INFRASTRUCTURE
PROJECT DONE
ACHIVEMENTS
CLIENTELE
AWARD AND CERTIFICATION
CONTACT US



### **COMPANY PROFILE**

We, Jyoti Forge and Fabrication, prioritize a secure work environment through rigorous training and risk management. Our quality work is non-negotiable by maintaining high standards, emphasizing quality control and attention to all the detail. Our Integrity builds trust & our ethical conduct in all business dealings, from fair bidding to client interactions, is fundamental. Client satisfaction drives our success. A focus on our client's needs, lead to lasting relationships. Our embracing innovation improves efficiency and sustainability through technology and creative solutions. Our environmental responsibility is critical. Our clear expectations and accountability for deadlines, budgets and quality standards ensure success. Effective budget management and resource allocation without compromising quality is our top priority. Investing in our employee growth through training and career advancement fosters is our skilled workforce. Adherence to a strict code of ethics in all our business dealing is essential. Identifying, assessing, and mitigating risks is crucial for our all project success.

## JFF is an **RDSO** approved Fabrication Unit of Guwahati, Assam

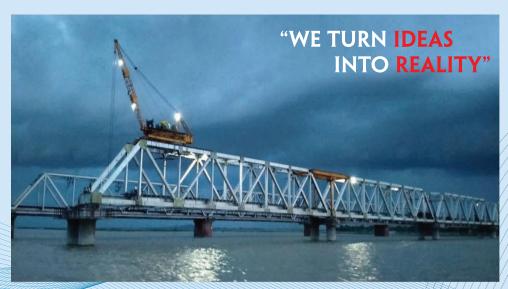


"JFF combines innovative engineering with unmatched commitment to project success"

### **HISTORY**

Jyoti Forge & Fabrication was established in the early 80's by Late Phool Chand Patni, Mr. Basant Kumar Patni, Late Padam Chand Jain and five other founders with a broad Constructive Vision in Guwahati, Assam. Initially they started the Production of Pressure Standard Tanks, Sluice Gates & Other Steel Structures. On 29th of March, 2007, Jyoti Forge and Fabrication Officially Registered as a Private Limited Company. Over the decades, Jyoti Forge and Fabrication experienced significant growth, expanding its operations and diversifying its portfolio including Cutting Edge Technology in the Field of Construction. In response to changing market dynamics, Jyoti Forge & Fabrication has continually adapted and innovated its strategies. Today, Jyoti Forge and Fabrication stands as a Leading Player in the Construction Industry sector of NER.

"OUR UNIQUE APPROACH TO PROJECT MANAGEMENT SETS US APART"



### A FUTURE WITH BRIGHT POSSIBILITIES.

Today, as new developments transform the construction industry, JFF is best positioned to become your partner in shaping the cities of the future.

We aim to further expand while maintaining our commitment to quality and staying on top of emerging trends.

### **INCREASED PRODUCTIVITY**



- Fast construction due to steel versatility
- High efficiency due to high density of steel
- Modular construction practices: Off-site quality production, quick on-site erection

### LONG-TERM SUSTAINABILITY



- Recyclability of steel without alteration of quality
- High steel durability and versatility
- Internal best practices: Abidance by environmental policies and promotion of renewable energies.

### **CONTEMPORARY ARCHITECTURE**



- Innovative design due to steel ductility
- Unlimited possibilities through combination of steel with other materials.
- Creation of acclaimed landmarks: Exceptional execution and diversified partnerships.

### **BUILDING THE FUTURE UPON EXISTING HISTORY...**

WE SEIZE EVERY NEW JOB AS A CHALLENGE AND LEARNING EXPERIENCE









### **BOARD OF DIRECTORS**



MR. TIKAM CHAND JAIN
DIRECTOR



MR. BASANT KUMAR PATNI
MANAGING DIRECTOR



MR. NAMAN JAIN
DIRECTOR

### **LEADERSHIP TEAM**

The leadership team of Jyoti Forge & Fabrication consists of key individuals responsible for its success. Since its dawn, led by our Managing Director Mr. Basant Kumar Patni, who sets the strategic directions & focuses on technology and innovation which includes the Director Mr. Naman Jain managing daily operations & handling marketing while the Director Mr. Tikam Chand Jain over seeing finances & manages the talent. Legal matters are under the General Counsel purview. Together, this team collaborates to make vital decisions, allocate resources and ensure the company's growth in the construction industry. Their collective expertise and strategic vision are critical in achieving project excellence and business success.

### AN ENDURING VALUE SYSTEM

Jyoti Forge and Fabrication's value system is integral to decade old tradition and continues to direct the growth and business. Time, energy and effort is continually expanded on defining, refining and driving the value systems to anyone who comes into the JFF Group-whether it be employee, partner or customer.







### **EXCELLENCE**

We are passionate about achieving the highest standards of quality, always promoting meritocracy.



### **INTEGRITY**

We are fair, honest, transparent and ethical in our conduct; everything we do must stand the test of public scrutiny.

Our vision at Jyoti Forge & Fabrication is to be the construction benchmark for excellence. We aspire to lead by example, setting new standards for safety, quality and innovation. We envision a future where our commitment to integrity and sustainability transforms the industry, creating spaces that inspire and communities that thrive. Through continuous growth, innovation and a passionate team, we aim to shape a world where construction not only builds structures but also builds a brighter, more sustainable future for generations to come.





### **PIONEERING**

We are bold and agile, courageously taking on challenges, using deep customer insight to develop innovative solutions.



### RESPONSIBILITY

We integrate environmental and social principles in our businesses, ensuring that what comes from the people goes back to the people many times over.



### UNITY

We invest in our people and partners, enable continuous learning, and build caring and collaborative relationships based on trust and mutual respect.

At Jyoti Forge & Fabrication, our mission is to provide excellence in our products and services. We are dedicated to ensuring the safety of our esteem clients, partners and employees, while delivering top-tier quality in all projects. Our commitment to integrity, innovation and sustainability drives our work and quality. We aim to exceed expectations, build concrete relationships and positive impact on our valuable clients, partners and employees.

### **CORE SERVICES**







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We take pride in offering a diverse range of high-quality product manufacturing & assembling services that cater to your unique needs. Whether you require expert construction, advanced technology integration, or specialized consulting, we're committed to delivering excellence. Our experienced team and commitment to quality ensure that your project or business needs are met with precision and professionalism. Welcome to a world of comprehensive solutions designed to drive success and efficiency.

### **ARCH BRIDGE:**

- Arched shape provides support and distributes weight to abutments or piers.
- Attractive architectural designs are possible.
  - Often used for medium to long spans.



### **BRIDGE**

Steel bridges are engineering marvels that symbolize the perfect blend of strength and innovation. Crafted from robust steel materials, these bridges stand as testaments to durability and versatility. They elegantly span rivers, valleys and roads, connecting communities and facilitating transportation. Steel's remarkable properties, including high tensile strength and adaptability, make it the ideal choice for constructing bridges that endure for generations.

### STEEL GIRDER / BRIDGE:

- Simplest form of bridge construction.
- Consists of horizontal beams supported by piers and abutments.
- Typically used for short spans.

### SUSPENSION BRIDGE:

- Main cables hang from towers, and vertical hangers support the deck.
- Provides long clear spans and is often used for major river crossings.
- Iconic examples include the Golden
  Gate Bridge and Brooklyn Bridge.

### TRUSS BRIDGE:

- Utilizes a truss framework for structural support.
- Common types include Warren and Double Warren truss bridges.
- Suitable for both short and long spans.

### **CABLE-STAYED BRIDGE:**

- Similar to suspension bridges but with shorter cables.
- Cables are attached directly to the deck, often in a fan-like arrangement.
- Efficient for medium to long spans, like the Millau Viaduct in France.



AN ISO 9001:2008 Certified Company

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### **CANTILEVER BRIDGE:**

- Features horizontal beams projecting from vertical supports.
- Allows for long spans without the need for temporary supports.
- Notable examples include the Forth Bridge in Scotland.



### **FOOT OVER BRIDGES:**

- Small-scale pedestrian bridges often found in parks, gardens and urban areas.
- Designed for aesthetic appeal and functional use.





### **RAILWAY BRIDGES:**

- Designed to carry goods & passenger trains.
- May vary in design based on the railway type (e.g., high-speed rail, freight rail).

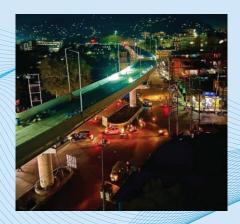


### **MILITARY BRIDGES:**

- Deployable bridges used by the military for rapid river crossings.
- Examples include Bailey bridges and pontoon bridges.

### **HIGHWAY BRIDGES:**

- Designed to carry road traffic, including cars, trucks, and buses.
- Various designs are used depending on traffic volume and location.



### RAILROAD PEDESTRIAN / FOOT BRIDGES:

- Specificallay designed for pedestrians to cross railway tracks safely.
- Often used near train stations and crossings.







### DESIGN, MFG, SUPPLY & ERECTION

### **CONVENTIONAL SHED:**

A conventional steel shed refers to a structure constructed using traditional building methods and materials, with steel being the primary material for the framework and often the exterior cladding.

**Materials**: Conventional steel sheds typically use steel beams, columns, and purlins for the structural framework. The walls and roof may also consist of steel panels or sheets. It generally uses Hot rolled steel sections.

**Custom Design:** It can be customed designed as per the requirements in terms of size, shape, and features. They can range from small storage sheds to large industrial or agricultural buildings.

**Durability**: Steel is known for its durability and resistance to weathering. Versatility: The sheds are versatile and have several applications such as warehouses, workshops, garages, factory sheds etc.

**Cost Consideration**: The cost of conventional steel sheds can vary depending on factors such as size, design complexity, and local labour and material costs.

**Construction Time**: A steel shed can be constructed relatively quickly as compared to RCC structure.

**Maintenance**: Periodic maintenance is essential to ensure the longevity of the steel components and prevent corrosion.



### **MULTI STOREY STEEL BUILDING**



### **COMMERCIAL BUILDING**

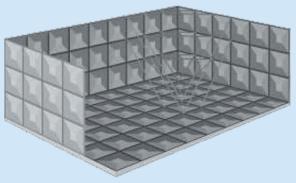






### JEF PROTEORE & FRANCISTON

### PRESSURE STEEL TANKS:



A pressure steel tank is a robust vessel made of steel designed to store substances under high internal pressure. Constructed from high-strength steel, these tanks come in various sizes and pressure ratings to accommodate different industrial needs. They feature welded seams, reinforced walls and safety measures like pressure relief valves and rupture disks to prevent over

pressure incidents. Pressure steel tanks find application across industries, such as oil and gas, chemicals, power generation, and food production, where they store and transport gases, liquids, or other substances. Periodic maintenance, including corrosion checks and pressure tests, is essential to ensure their safe operation. We adhere to industry-specific regulations and safety standards is paramount to prevent accidents and ensure the integrity of pressure steel tanks.



### **WATER STAGING:**

Jal Jeevan Mission has been actively involved in various water resource management projects to address its annual resources challenges. Under these Schemes, Steel water staging typically refers to a structure made of steel that is used in various industries and applications for access to water bodies, such as rivers, lakes, reservoirs, or even coastal areas. These steel platforms or structures are designed to facilitate tasks like maintenance, monitoring, and access to water for various purposes, such as general

population water distribution or industrial processes. Steel is often chosen for its durability and strength, making it suitable for long-lasting installations in aquatic environments. These staging structures can vary in design, size, and functionality, depending on their intended use of capacity varies from 30 KL to 120 KL and location.



Name of the project: Construction of overhead tank steel stagging Client: Jal Jeevan Mission (PHE)

Year: 2021-2022







### **MACHINERIES**

- Verticle Type Automatic Beam Welding Machine Flange Straightening Machine CNC Plasma Cutting and Plate Drilling Machine
- In-House Sand/Grit Blasting, Metalising & Painting Manual Saw & MIG Welding Radial Drilling & PUG Cutting Design and detailing of Pre Engineered Building with dedicated softwares and Technology

### **INFRASTRUCTURE**

# next Generation Fabrication

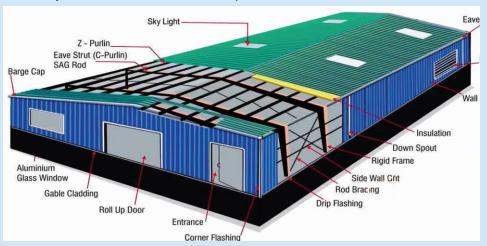
With most innovative approach towards the modern day infrusatructural needs accross the country, Jyoti Forge and Fabrication is handling every projects with minute details following international standards with latest technology. JFF expertise rests in delivering flawlessly accurate engeneering excellence within committed time frame to ensure timely completion of the projects by our esteemed client. JFF fabricates steel structures from plates and rolled sections to manufacture Columes, Beams, Rafters, Bracing, Top Griders, Box sections conforming to technical standards and specifications under IS, ASTM, BS and other global standards to deliver projects viz power plant, steel plant and Railways bridges.



### PEB:



Pre-Engineered Buildings (PEB), is a modern construction methodology where building components are manufactured in a factory and then transported to the construction site for rapid assembly. These components include structural elements like columns, beams and rafters, along with secondary elements such as roof and wall panels etc.



**Factory-Manufactured Components**: PEBs consist of pre-fabricated structural elements like columns, beams, and roof and wall panels. These components are precisely manufactured in a controlled factory environment.

**Customizable Design**: PEBs are highly customizable to meet specific project requirements in terms of size, shape, and purpose, making them suitable for diverse applications.

**Cost-Effective**: The controlled manufacturing process reduces material wastage and labor costs, making PEBs a cost-effective construction solution.

**Rapid Construction**: Assembly of PEB components at the construction site is faster than traditional construction methods, reducing project timelines significantly.

**Structural Strength**: PEBs are engineered to meet local building codes and structural requirements, ensuring safety and durability.

**Energy Efficiency**: PEBs can incorporate energy-efficient features like insulation, efficient ventilation, and natural lighting, leading to long-term energy savings.

**Sustainability**: Reduced material waste and efficient manufacturing contribute to PEBs' relatively lower environmental impact.

**Versatility**: PEBs are suitable for a wide range of applications, including warehouses, industrial facilities, commercial buildings, aircraft hangars, and more.



### LAUNCHING OF GIRDERS







WE CHANGE THE TRADITIONAL VIEW OF THE CONSTRUCTION INDUSTRY

### **ERECTION**

Jyoti Forge and Fabrication goes beyond its expertise in structural fabrication to take erection work with the vision of emerging as a professional.

The well trained and committed team of structural engineers and workers manage the erection work at site adhering best quality standards with utmost safety norms.

JFF team plans and executes the erection of structure as per the sequence and within committed time frame to achieve customer satisfactions in all respect.



### SIZE DOESN'T MATTER





Infrustructure: Factory with covered area of 75000 square foot approx, with 4 nos. EOT crane of 20 ton capacity each and open space 2,25,000 square foot.

Our facilites are well equipped with machinery and emmergency power supply also CNC plasma cutting can cut upto 50mm thickness plate with required profile.

Our Welders are qualified as per ASME Standards and We have established quality systems and will be shortly an ISO 9001, ISO-14001 Certified Company, with ROSO approvals also.

The Engineering Division is powered by a highly qualified, experienced and specifically trained designers. Innovation is a constant mantra in the development of necessary jigs, fixtures and other tooling.

### **FABRICATION FACILITY**

Production capacity: 600 MT/month
Products: Pre Engineered Building, Structural
Multistoried building and Road Over
Bridge-for Railway Composit Girders
Fabrication of Steel Girders of Following
sizes:

- Flange 140 mm to 1200 mm, thickness 6 mm to 80 mm
- Web 180 mm to 3000 mm, thickness 6 mm to 80 mm
- Maximum length 20 mtrs.







AN ISO 9001:2008 Certified Company

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### SAFETY QUALITY ASSURANCE



Our unique fabrication perspective and modularization expertise yields the following benefits to the client and project:

- ✓ Increased safety
- ✓ Schedule certainty
- ✓ Increased quality
- ☑ Reduced staging costs
- ☑ Decreased double handling
- ✓ Reduced equipment and facility rentals
- ☑ Avoid congested lay down area
- ✓ Avoid costly rework time & cost
- ✓ Avoid productivity loss due to inclement weather
- **⋈** Reduced numbers of contacts.



Honourable GM, PCE & CBE / N.F. Rly on reward ceremony after successful completion of Saraighat Bridge (Br. No. "O") Repairing Work-2018









### **RAILWAY PROJECT**

NAME OF THE PROJECT: Supply, Fabrication & Erection of Bow String Rider, 60 Mtr at Basugaon Approximate Qty.: 450 MT

Client : Hi- Tech Year: 2023-2024







### 1958

### **RAILWAY BRIDGES**

NAME OF THE PROJECT:
GAUGE CONVERSION PROJECT
UNDER DY. CHIEF ENGNIEER
N F RAILWAY, LUMDING
APPROXIMATE QTY: 1500 MT
CLIENT: N F RAILWAY
YEAR:2018-2019





### **RAIL-ROAD OVERBRIDGE**

### NAME OF THE PROJECT:

Fabrication, Supply, Erection & Commissioning Steel Structure

Qty.: 277 MT Client : N F Railway Year: 2020-2021











### FOOT OVERBRIDGES

NAME OF THE PROJECT:
Fabrication, Supply & Erection
of FOB at Kamakhya Gate, Guwahati
Approximate Qty: 150 MT
Client: N F Railway
Year:2020-2021





### **RAILWAY BRIDGES**

NAME OF THE PROJECT:

Transportation, Erection & Launching of 61m span open web girder with cantilever method Approximate Qty: 3700 MT Client: EC Railway Year:2018--2021







### ROAD BRIDGES

NAME OF THE PROJECT:

Supply, Fabrication and Erection of BUG Superstructure as per approved Drawing at Serabhati Approximate Qty: 1500 MT Client: Hi-Tech Year:2022-2023





### **PEB PROJECT**

NAME OF THE PROJECT:
Design, Manufacture,
Supply and Erection
of Multi storiey PEB for Assam Police
Client: Assam Police
Housing Corporation

Year: 2018-2021













### ROAD BRIDGES

NAME OF THE PROJECT:
Supply, Fabrication and Erection
of BUG Superstructure as per
approved Drawing at Zoo Road
Approximate Qty: 5500 MT
Client: Anil Das
Year:2022-2023

### **KEY OF OUR SUCCESS**

### **HUMAN RESOURCE**

For the past 40 years integrity, motivation and expertise have been transferred from a mature generation to a younger one at JFF, resulting in a growing enthusiastic workforce, eager to exceed our clients expectations.



Quality Assurance & Control



Management & Administration







Health & Safety Regulation



Technical Expertise & Engineering





### WE'RE ON TIME AND ON BUDGET

We hit our deadlines and continuously search for the most economical solutions.



### WE'RE RELIABLE AND CONSISTENT

Our clients are our partners. We like to keep them informed and satisfied



### WE'RE EXPERTS IN PROJECT EXECUTION

We're masters of our craft, and can solve any problem arising from complexity.



### WE MAKE COMPLEX SEEM EASY

We engage to build our clients' dreams while making their experience seamless



Our professionalism comes from communication and teamwork between the complementary managers and a dynamic experienced team of structural engineers.

Our quality works come from the perseverance of our technicians and workshop personnel who are certified and highly qualified in the fabrication and welding of structural steel works.



### WE ENSURE QUALITY AND SAFETY.

Our expertise allows for early recognition and limitation of any possible risks.



### WE GO THE EXTRA MILE

We are always willing to look beyond our scope boundaries to satisfy our clients

### TRUST IS ONE OF THE THINGS WE BUILD WELL.

Together with our partnerur and clients, we work better to develop the most remarkable solutions on the market.

### **OUR VALUABLE CLIENTELE**



































































### **ACHIEVEMENT**







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### **APPRECIATION**







### "YOUR PREFERRED STEEL PARTNER."



### LET'S DISCUSS YOUR NEXT PROJECT

# ON-TIME DELIVERY RELIABLE SERVICES

### JYOTI FORGE AND FABRICATION PVT. LTD

Registered Address: 604, 6th Floor, Shubham Buildwell Complex, R.G. Baruah Road, Block-H, Guwahati - 781005 (Assam)
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