

**WE ARE  
THE SOLUTION**

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**BALAJEE TANKS  
AND VESSELS**

An ISO 9001:2015 Certified Company

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# ABOUT US

BALAJEE TANKS & VESSELS (BTV), an Indian company established in 1988 at Mumbai, began as a storage tanks fabrication company and expanded into site integration and fabrication of pressure vessels, process equipment, and critical internals assembly works. By 1992, BTV built a strong reputation for quality and reliability, partnering with organizations like Godrej, GR Engineering, and Larsen & Toubro Limited (L&T).

BTV's expertise in precision internal assembly and high-quality fabrication has led to long-term engagements with L&T Heavy Engineering in various sectors, including fertilizers, refineries, petrochemicals, nuclear power plants, defense & aerospace, cement, and other industries. The company's ability to execute site work with limited resources has grown significantly, enabling them to undertake multiple projects with support from a production facility in Andhra Pradesh and to export services abroad, deploying up to 500 workers in foreign countries.

BTV emphasises on safety and quality to deliver in time service by our professional and disciplined team. The company's impressive safety records and numerous completed projects attest to the competence and professionalism of the BTV team. This success is made possible by a well-trained and qualified workforce, continuous stringent quality assurance, and adherence to technical specifications and procedures from analysis to execution. BTV is committed to providing great value and achieving excellence and quality in every project.

# CORE VALUES

## VISION

To become a strong, healthy, and competitive company based on innovation and technology in the fabrication and construction industry, supporting the oil & gas, fertilizers, defense, aerospace, and power sectors.

## MISSION

Providing expeditious integrated solutions aimed at increasing customer satisfaction.

Optimizing and strengthening strategic alliances with local and global partners.

Strengthening the competence of skilled and highly motivated workmen.

Implementing R&D for new technological innovation in the field of fabrication.

**Safety** : At BTV, safety is paramount. We prioritize the well-being of our employees, clients, and the environment in every project we undertake. Our commitment to safety extends beyond compliance with regulations; it is an integral part of our company culture, aiming to achieve zero incidents and foster a safe workplace for all.

**Quality** : Quality is the cornerstone of BTV's operations. We adhere to stringent quality assurance processes and international standards, emphasizing continuous improvement and never compromising on quality.

**Customer Commitment** : Consistently providing engineering services that conform to customer and regulatory requirements, delivering trust, reliability, and satisfaction.

**Competency** : Ensuring that employees are trained, qualified, and accountable for implementing necessary policies and procedures, while evolving to include technologies such as laser precision instruments and staying abreast of market trends to remain competitive.

**Teamwork** : Championing transparency and open communication to facilitate cross-department teamwork and achieve common objectives.

**Valuing Relationships** : Upholding values of integrity, respect, hard work, and generosity, striving to be a company remembered for these principles.

# FOUNDERS

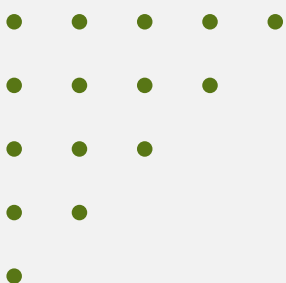
- Govinda Rao Rajala (Founder)
- Hema Rao Dunna (Founder)
- Ravi Kumar Dunna (Managing Director)

## DIRECTOR'S MESSAGE

In response to the rapid development of the construction and infrastructure field, BTV continuously prepares strategies to provide the best solutions to customers. Improvements are encouraged in all sectors within the company to pursue the challenges of a highly dynamic regional market and respond to international market demands. We envision becoming a strong, healthy, and ethically competitive company based on innovation and technology, supporting the oil & gas, petrochemicals, fertilizers, pharma, and power sectors. Integrated support from all sectors is essential to provide better solutions, and accelerating efforts in human capital is pivotal to achieving our company goals.

## SERVICES OFFERED BY BTV:

- ✓ Mechanical Construction & Shutdown Services
- ✓ Installation, Maintenance, and Repair of Mechanical Systems
- ✓ Fabrication and Integration of Pressure Vessels and Process Equipment
- ✓ Precision Internal Assembly Works
- ✓ Critical Fabrication Services
- ✓ On-site Construction and Integration
- ✓ Shop Fabrication Services



# **MOST DISTINGUISHED PROJECTS EXECUTED**

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Fabrication & Internal Assembly of the first Ammonia Synthesis converter for Larsen and Toubro Limited.

Fabrication & Internal Assembly of first Horizontal Ammonia Converter in India at CFCL.

End-Shield Calandria Assembly, Fuelling Machine Bridge & Column Assembly at TAPP & RAPP Atomic power plant.

32 Mtr Diameter Antenna system at ISDN Byalalu, Bengaluru.

First time ever Relining of Urea Reactors (Pair) in India, Full job relining in record timing till now since 2006.

Internal Assembly of CCR Platforming Reactor at IOCL Panipat & OMPL Mangalore (Internal Assembly).

Large Space Simulation Chamber at ISTRC Bengaluru.

Ammonia Converter Repair (169 mm Thick) and full equipment heat treatment in brownfield at IFFCO Aonla.

Hypersonic Wind Tunnel System at DRDO Hyderabad.

Replacement of SWS Column section in record 11.5 days at HMEL Bhatinda.

Full fabrication of DFCU Columns (10.5 Mtr Dia & 10.9 Mtr Dia) in greenfield at HRRL Barmer.



# GREEN FIELD FABRICATION

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- Experience** : Process Vessels, Columns, Reactors and Tanks
- Materials** : CS, SS, Alloy Steels, Cladding and Inconel.
- Type** : Multi-Layer, Multi Wall and Mono Wall shells fabrication up to thickness of 174mm.
- Process** : SMAW, GTAW, FCAW, GMAW, SAW and 2G SAW.
- Hydrotest pressure** : Ranges up to 630 Kg/Cm<sup>2</sup>g.
- Dimensions** : Pressure Vessels ranges up to 10.9 Mtr Dia and 62 Mtr Height.
- Weights** : Ranges up to 1170 Tons of each equipment.





## **BROWN FIELD FABRICATION**

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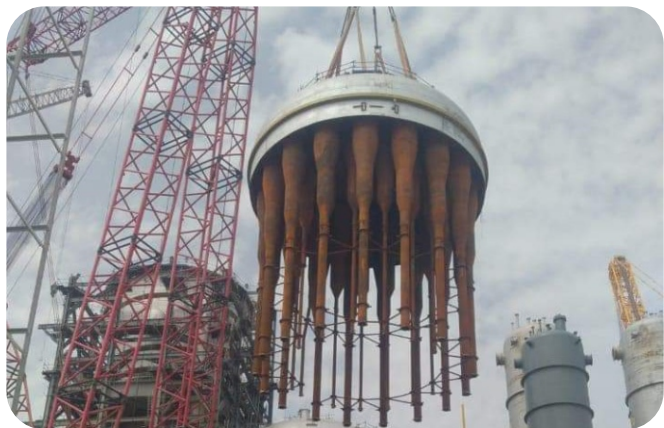
- |                           |   |
|---------------------------|---|
| <b>Experience</b>         | : Structural, Process Vessels and Columns Fabrication, Repair, Replacements, Modifications and Full Job PWHT. |
| <b>Materials</b>          | : CS, SS, Alloy Steels, Cladding and Inconel.   |
| <b>Type</b>               | : Multi-Layer, Multi Wall and Mono Wall shells up to thickness of 271 mm.                                     |
| <b>Hydrotest pressure</b> | : Ranges up to 440 Kg/Cm <sup>2</sup> g.  |
| <b>Dimensions</b>         | : Ranges up to 12.5 Mtr Dia and 120 Mtr Height.   |
| <b>Weights</b>            | : Ranges up to 540 Tons of each equipment.  |



# SHOP FLOOR FABRICATION

- Experience** : Process Vessels, Heaters and Heat Exchangers.
- Materials** : CS, SS, Alloy Steels and Cladding.
- Type** : Mono Wall shells fabrication up to thickness of 115 mm.
- Process** : SMAW, GTAW, SAW and Orbital Welding.
- Hydrotest pressure** : Ranges up to 260 Kg/Cm<sup>2</sup>g.
- Dimensions** : Ranges up to 4.3 Mtr Dia and 21 Mtr Length.
- Weights** : Ranges up to 460 Tons of each equipment.





## **SHUTDOWN & TURNAROUND**

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Modification, Revamp and Upgradation of process vessels, columns, heat exchangers, piping and structure.

Overhauling of Heat Exchangers, section and tray replacements, maintenance, repair and inspection work.

Replacement of Column section with piping, platforms and trays in a record time of 11.5 days.

Capacity to deploy up to 800 personnel to work on multiple fronts.

# INTERNAL WORKS / TRAY REPLACEMENTS

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**Experience** : Liner replacements, Column Tray Replacements, Radial Flow Systems, Screens, Dividing Walls, Anchors, Cyclones, Bellows, Filters, Beds, Distributors etc.

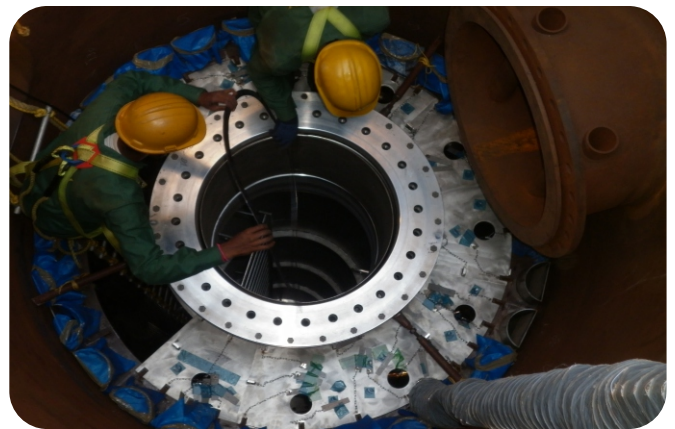
**Dimensions** : Ranges from 400 mm Dia to 12.5 Mtr Dia

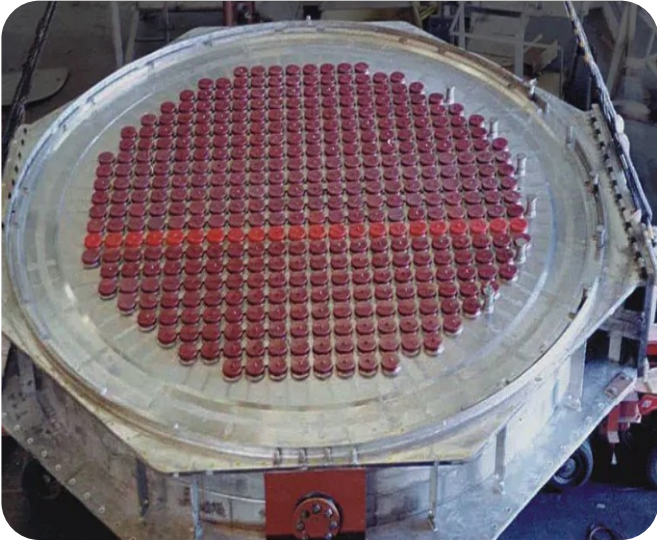
**Tray Types** : Bubble Cap, Sieve Deck Tray, Valve Tray and Baffle Tray of Casale, Saipem, Haldor Topsoe, Sulzer & Koch-Glitsch

**Weights** : Up to 218 Tons are handled in internals.

**Thickness** : Ranges from 1 mm up to 90 mm.

**Accuracy** : Ranges up to 0.1 mm





## **CRITICAL ASSEMBLIES**

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**Experience** : Oil & Gas, Nuclear Power Plants, Defence and Aero Space projects

Assembly of various equipment and piping at different elevations over the length of 100 Mtr with an accuracy of 1 mm concentricity.

Dismantling and assembly of 32 Mtr Diameter Dish Antenna for aerospace with 0.001mm panel surface alignment accuracy.

Assembly of calandria piping at an accuracy of 1 Thou (0.0254 mm).

Ball Mill shell alignment at an accuracy of 0.01 mm.

# AMMONIA CONVERTER

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**Experience** : Executed 25 various Ammonia Converter projects from the year 1991.

**Materials** : Alloy Steel, Vanadium Steel, SS and Inconel

**Type** : Basket, Scallops & Centre Pipe design multi wall horizontal & vertical converters.

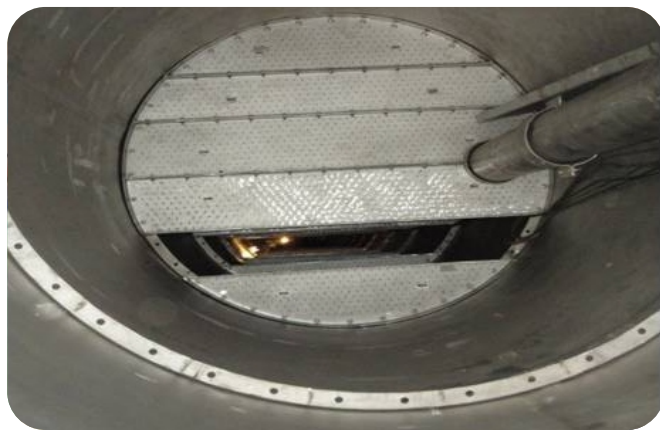
**Thickness** : Ranges from 169 mm to 231 mm.

Unique platforming system design to install the internals in safer & more efficient way.

Record of installing 7 Casale Cartridges in a single day.

Worked with Haldor Topsoe, Johnson Screens, Casale, Saipem & KBR.





## UREA REACTOR

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|---------------------------|---|
| <b>Experience</b>         | : Executed 26 various Urea Reactor projects from the year 1989.             |
| <b>Materials</b>          | : Carbon Steel, Alloy Steel, SS 310, SS 316L, 25 Cr Duplex SS and Titanium. |
| <b>Type</b>               | : Mono Wall, Multi Wall, Multi-Layer and Wrapper Multi-Layer Vessels.       |
| <b>Thickness</b>          | : Shell ranges from 86 mm to 168 mm and Liner from 3 mm to 10 mm.           |
| <b>Dimensions</b>         | : Diameters of 1900 mm to 3500 mm & Lengths of 19 Mtr to 56 Mtr.            |
| <b>Hydrotest pressure</b> | : Ranges up to 405 Kg/Cm <sup>2</sup> g                                     |

First time ever Relining of Urea Reactors (Pair) in India, Full job relining in record timing till now since 2006.

Unique platforming system design to install the liners & internals in safer & more efficient way.



## CCRG & CCR PLATFORMING REACTOR

Executed 03 CCR Platforming Reactors with internals and on all CCRG equipment internals as per UOP requirements.

Dimensions : Diameter of 2100 mm and Length of 62 Mtr

Achieved accuracies of 0.57 mm in internals.

Record of Installing 2 internal reactors internals in 10 Days of single shift.

Unique platforming system design to install the internals in safer & more efficient way.

## BREACH LOCK/SCREW PLUG HEAT EXCHANGER

Executed 41 Breach Lock / Screw Plug Heat Exchanger overhauling's till date.

Diameters ranging from 650 mm to 1650 mm.

Record of complete overhauling of a heat exchanger in 6.5 days.

Worked with L&T Heavy Engineering & TEMA Engineering Ltd.



# PETRO CHEMICALS & REFINERIES

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- Coal Gasifiers Golden Joints at RIL J3 DTA & SEZ Project.
- CCRP Reactor
- SS Silos and Blenders at RIL Hazira Phase I and II .
- LTS Condensate
- Derator at MRPL Mangalore.
- Warm Solution Chilling Tower at H.P.C.L Bombay.
- Poly Propylene Ware House
- Vertcoke Absorber,
- First Regenerator
- Slurry Heaters.
- Knock out Drums.
- Regeneration Tower
- Isomer Reactor.
- VDU (Vacuum Distillation Unit).
- Cycle Gas Heat Exchanger and Cycle Gas Cooler.
- ROGC Stabilizer.
- C2 Splitter.
- Sat Gas Deethanizer
- Re Boiler at C2 Complex RIL Jamnagar
- Methanol Flash Drum
- Overhauling of Breach Lock Heat Exchangers.
- Sour Water Stripper Column
- Depentenizer Columns in Merox & Aromatics



# DEFENSE & AERO SPACE



- 32M Antenna system IDSN Bangalore.
- Large Space Simulation Chamber at ISTRC Bangalore.
- Hypersonic Wind Tunnel System AT DRDO Hyderabad
- Fabrication of MRSAM IAF and Army Cassettes

## FERTILIZERS

Ammonia Convertors.

Intenal Assembly of Ammonia Convertor.( KBR, HTS, CASALE)

Urea Rectors ( CASALE, HTS Internals)

R.G.Cooler

Flush Tank & Stabilizer

Secondary Reformer Jacket Assembly.

Jacket assembly of Kres.

Transfer lines for Secondary Reformer

Relining of HP Carbamate Condenser.

Relining of urea Reactors.

Structural Work of Bulk Flow Cooler Unit

Urea Stripper

G.V Towers

Distillation Tower

H2S Stripper.

Condensate Stripper

Relining of Carbamate Condenser,

Urea Rector Internals Replacement.



# NUCLEAR POWER & OTHER POWER SECTORS

- End-Shield Calandria Assembly.
- Furling Machine (insert piping) Bridge & Column Assembly.
- High Pressure Closed Feed Water Heater

## OTHERS

- SS and CS Tanks at Pauspathi Acrylon Ltd.
- Inert Gas Bullets at Vikram Ispat.
- Ducting and Structural's at Gujarat Borosil Ltd.
- Cement Ball Mill shell and shaft erection and alignment.
- Fabrication and assembly of 30 Mtr. X 10 Mtr. X 10 Mtr. Gas Heating Furnace at Site.

## OVERSEAS PROJECTS

- Urea Reactors Liner Repair in Pupuk Kaltim, Indonesia.
- Partition Plate and Liner Replacement of Carbamate Condenser & Tray Cleats Replacement Work of Urea Reactor in SAFCO, Saudi Arabia.
- In-Situ repair of AGR Stripper in Dolphin Energy, Qatar.
- Replacement of Liner and Repair of Weep Tubes in Urea Stripper & Replacement of cover plate and Liner repair in Urea Reactor in Pupuk Kaltim, Indonesia.
- RFCCU Reactor & Riser Replacement in Turnaround at Orpic, Oman.
- Replacement of Common Header in NGL RCE at ADNOC GASCO Plant.
- Equipment, Nozzles, Trays & Internals Replacement (15 Equipments) in turnaround of Train 2 in NGL RCE at ADNOC GASCO Plant.
- Equipment, Nozzles, Trays & Internals Replacement (15 Equipments) and structure (81 Tons) work in turnaround of Train 1 in NGL RCE at ADNOC GASCO Plant.
- Replacement of Regenerator Top Head and Cyclone plenum assembly in turnaround of ADNOC TAKREER site.

# UNDER VARIOUS INSPECTION AGENCIES



# OUR CLIENTS



**📍 Head Office:**

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S. No. 10, Gokul Regency II,  
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**📍 Branch Office & Workshop:**

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**AP: 37AADFB9284C1ZF**