Proud to introduce customized Industrial Fabrication services.

Automatic plants are approved by RDSO for plate fabricated beams, boxes and girders for Bridges.

Approved vendor for DMRC Projects manufacturing large sizes of steel fabricated structures for Delhi Metro Contractors and L&T.
Spacechem Group - Overview

- Over 2 decades of experience in the field of heavy Industrial Steel Fabrication and the leading vendor for Bharat Heavy Electricals Ltd (BHEL), National Thermal Power Cooperation (NTPC) and Indian Railways.

- It has four plants located in the NCR with easy access to the transportation network.
  - All Four units are located in industrial states at Ghaziabad on National Highway.
  - Plants spread over 50,000 square meters of industrial sheds and yards.

- The company has been certified for Management Systems as per ISO 9001-2008.

BHEL is regularly buying Boiler Ducts and Columns for Power Plants.

Spacechem Group has been awarded two projects by Northern Railway,

- *Lucknow – Utratia section (Near Arjunganj),*
- *Barabanki-Gonda section and Barabanki – Faizabad section*

These projects include supply, erection and commissioning of steel structures and civil engineering works

Railway contractors of ROBs are sourcing their fabricated steel bridge girders, beams and boxes from Spacechem

Spacechem production units can handle a capacity of 1500 M. Tons per month of Heavy Fabrications, Structures and 500 Tons per month of Custom Fabricated Equipment as per project or customers’ drawings.
Road Over Bridges (ROBS) from Fabricated Beams Manufactured By Spacechem

RDSO Approved
Products Profile - Railway Bridges
Products Profile - Girders
## Range of Plate Fabricated Auto-welded and Cost effective H-Beams and Boxes

### (A) H-Beam Size Range

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>300 - 3000 mm</td>
</tr>
<tr>
<td>Web Thickness</td>
<td>8 – 60 mm</td>
</tr>
<tr>
<td>Flange Width</td>
<td>200 – 1000 mm</td>
</tr>
<tr>
<td>Flange Thickness</td>
<td>8 – 80 mm</td>
</tr>
<tr>
<td>Length</td>
<td>4000 – 14000 mm</td>
</tr>
</tbody>
</table>

### (B) Welded Box Size Range

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>W x H</td>
<td>300 - 1200 x 300 – 1200 mm</td>
</tr>
<tr>
<td>Length</td>
<td>15000 mm</td>
</tr>
</tbody>
</table>
Product Features – Beams & Girders

- Beams are **tailor made** to customer’s specifications,
- Beams **fabricated to precise dimensions** through automatic/mechanized processing as compared to on-site fabrication,
- CNC programmed flame cutting produces **high accuracy and precision** in Plate Cutting, **Capacity up to 50 MT per day**, 
- **Submerged arc** welding through double-cantilever **robotic machines** delivers **perfect quality of weld** with consistency, far superior to on-site weld,
- Edge and **face mill** facilities for **precision finishing**,
- Hole drilling, Sawing and marking **done on-line** on automatic drilling/sawing/marking machines,
- Fabricated components **Shot/Sand blasting** before painting as per customers’ requirements,
Product Features – Beams & Girders

- **Mechanized handling** eliminates any possibilities of mechanical damage,
- Beams can be delivered **face milled, shot-blasted, painted or primer coated** in factory finished condition,
- **Jumbo size fabricated beams** with drilled holes, studs, stiffeners, base plates, splice plates, **ready to be used** at the site are supplied from Spacechem fabrication facilities.

Custom range of **Plate Fabricated Beams, Boxes** and **Girders** are used extensively in construction of **bridges (ROBs), flyovers, metro rail projects, power plants**, and **supercritical boiler columns, industrial structures, material handling systems, refineries, steel plants, airports, shopping malls, stadiums, utility and multi-storied buildings**

Projects Undertaken
<table>
<thead>
<tr>
<th>S.No</th>
<th>YEAR</th>
<th>PROJECT DESCRIPTION</th>
<th>CLIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2014</td>
<td>ROB in lieu of Level crossing No. 129/B at km 1370/6-8 at Khurja Station in TDL-GZB Section for Northern Central Railway.</td>
<td>Pragati Construction</td>
</tr>
<tr>
<td>2</td>
<td>2014</td>
<td>ROB at LC No. 85-A km 1276/23-25, Jalesar road station, HQ Plan No. NCR/ENGG/GAD/ROB/74 Agra for Northern Central Railway, Agra</td>
<td>Swastik Infrastructure</td>
</tr>
<tr>
<td>3</td>
<td>2013</td>
<td>Fabrication of Steel Composite Girder at Agra for Northern Central Railway, Allahabad</td>
<td>Kavita Construction</td>
</tr>
<tr>
<td>4</td>
<td>2013</td>
<td>Fabrication of Steel Composite Girder at Ramgarh, Ranchi for Jharkhand State Road Department</td>
<td>Monte Carlo Limited</td>
</tr>
<tr>
<td>5</td>
<td>2013</td>
<td>Construction of R.O.B. Km 878/4-5 on 266, Km 0/370 between Chandarpur Station MEL Railway sliding of N Division for Public Works Department (PWD)</td>
<td>Vishvaraj Infrastructure Ltd</td>
</tr>
<tr>
<td>6</td>
<td>2013</td>
<td>Fabrication, Assembly, Erection and Launching of Steel Composite Girder for ROB at Alwar (Rajasthan) for Northern Western Railway, Jaipur</td>
<td>PNC-JAIN Construction Co. (JV)</td>
</tr>
<tr>
<td>7</td>
<td>2013</td>
<td>Fabrication, Assembly, Erection and Launching of Steel Composite Girder for ROB at LC 51 Sangaria (Rajasthan) for RIDCOR</td>
<td>Shree Ram Kripa Constructions</td>
</tr>
<tr>
<td>8</td>
<td>2013</td>
<td>Supply, Assembly, Erection and Launching of Fabricated Steel Composite Girder at Alwar for RIDCOR</td>
<td>Balabharti Infrastructure Pvt Ltd</td>
</tr>
<tr>
<td>9</td>
<td>2013</td>
<td>Supply, Assembly, Erection and Launching of Fabricated Steel Composite Girder at Nagpur-Chindwara Section for NHAI</td>
<td>Oriental Structural Engineers Pvt Ltd</td>
</tr>
<tr>
<td>10</td>
<td>2012</td>
<td>Construction of ROB at Railway crossing No. 8-B at Phaphund on CNB-TDL Section N.C.Railway, Fabrication and Supply of steel Girder/Beams for Northern Central Railway, Allahabad</td>
<td>Harish Chandra India Pvt Limited</td>
</tr>
<tr>
<td>11</td>
<td>2012</td>
<td>Construction of ROB at Railway crossing No. 136-B at Wair in Buland Sahar district: Fabrication and Supply of steel Girder/Beams for Northern Central Railway, Allahabad</td>
<td>Shree Ram Kripa Associates</td>
</tr>
</tbody>
</table>
Supply, Assembly, Erection and Launching of Fabricated Steel Composite Girder at Nagpur-Chindwara Section for NHAI

Oriental Structural Engineers Pvt Ltd
Spacechem continuous production lines are equipped with advanced machines.

Operations performed in-house or at associated workshops include CNC Profile Cutting, Plate Rolling/Bending, Forming, Punching, Auto Submerged Arc Welding, Assembling, Straightening, Drilling, Face Milling, Casting, Forging, Machining, Gear-cutting, Heat-treatment, Testing, Blasting, Painting and Packaging for light to heavy jobs weighing up to 100 Tons.

Spacechem Works for Metro Rail and Under Ground Turing Projects include providing Heavy Steel Weldments, Decks and Structures For TBM – Single Job Weighing up to 50 Tons.
Coming Up Soon
Bed for CNC Profile Cutting of Plates
CNC Profile Cutting – 50 MT per day
Assembling Machine
Assembled Beam on Straightening Machine
Straightening Machine (Capacity: up to 80 mm thickness)
Beam Straightening
Continuous Beam Assembling & Straightening Line
Robotic Auto Submerge Arc Welding Platforms
Auto Box-Welding Machine
CNC Drilling Machine for Plates
CNC Drilling Machine for Beams
After Die Penetration Testing
Inspection & Testing
Composite Girders
After DP Testing of Entire Beam
Registered & Approved by RDSO for fabrication and supply of Riveted & Welded Steel Girder
VENDOR REGISTRATION BHEL – Trichy

TO WHOMSOEVER IT MAY CONCERN

M/s Spacechem Enterprises, C-120, B S R Industrial Area, Ghaziabad – 201 009 (UP) is an approved Away Centre Fabrication Vendor of BHEL / Trichy. BHEL Outsourcing Department has entered into a Rate Contract with M/s. Spacechem Enterprises, Ghaziabad – 201 009 (UP) (Vendor Code #015) vide Rate Contract Ref: OS / ACF / RC / 2011-2012 dt: 03-08-11.

Utilizing this Rate Contract, Purchase Orders for Box Columns, Auto Welded Beams and Boxes, General Fabricated Structures, Boiler Ducts and Boiler Cyclones have been manufactured and supplied by M/s. Spacechem meeting BHEL’s technical and quality requirements. The above Products were manufactured after sourcing the raw materials from various BHEL approved sources by M/s. Spacechem as per BHEL Technical Delivery Conditions.

For the past three consecutive years, M/s. Spacechem have been supplying consistently the Boiler Components to various Projects like HINDALCO MAHAN, HINDALCO SAMBALPUR, BARADARIA 2 X 600 MW, JINDAL DERANG 2 X 600 MW, JSPL 4 X 600 MW, VISA POWER 1 X 600 MW, SAGARDIGHI 2 X 500 MW, BECI / GUJARAT 2 X 250 MW, MONNET POWER 2 X 525 MW, AMARAVATHI 5 X 270 MW, CHANDWA 4 X 270 MW, CHABRA 2 X 210 MW, etc.

The performance of the Products supplied by them is satisfactory.

B. BALASUBRAMANIAN
AGM / ACF (PLNG) / OS

B. BALASUBRAMANIAN
ACC. D.EAL MANAGER
ACF & ACF OUTSOURCING
BHEL, TRICHY – 620 014.
Approved by NTPC for Auto Welded Beams

<table>
<thead>
<tr>
<th>Vendor works address</th>
<th>Item</th>
<th>Applicable project/package</th>
</tr>
</thead>
<tbody>
<tr>
<td>M/s. Spacechem Enterprises, Unit II at C-120 Industrial area, Baluchistan Road, Ghaziabad-221008 (U.P.)</td>
<td>Auto Welded Beams and Bracings</td>
<td>Nabinagar (3x350MW), SG Package</td>
</tr>
</tbody>
</table>

The above proposal is acceptable subject to the following conditions:

1. Raw materials (structural steel plates) shall be procured from NTPC approved manufacturer directly.
2. Separate colour code is to be maintained for NTPC material and separate storage area is to be identified.
3. Traceability needs to be maintained for each component right from raw material stage to finished product by hard punching/stamping. Stamp transfer shall be done in presence of BHIEL* Authorised Inspector (BAI).
4. WPS & PQR to be approved by BHIEL.
5. All welders for NTPC job shall be again qualified (WQT) by BHIEL* AMA.
6. In the event of offloading NDT and heat treatment services, only BHIEL approved agencies shall be deployed. No other process offloading is permissible.
7. Fabrication, assembly and inspection shall be as per BHIEL drg., NTPC specification and OP approved by NTPC.
8. Only BHIEL approved welding consumables shall be used for fabrication.
9. BHIEL* NDT procedures and accepted norms shall be strictly followed for all NDT jobs.

With Regards

Perminder Kumar
DGM(PE-Mech)
For R.K. Choudhary
GM(PE-Mech) &
(CTF-Nabinagar)
NSIC ENLISTMENT
QUALITY ACCREDITATION

- ISO 9001:2008 - Quality Management System
- ISO 14001:2004 – Environmental Management System
- OHSAS 18001:2007 – Occupational Health Safety Management System
GENERAL PRODUCTS PROFILE
## CLIENTS

Some prestigious clients whose projects have been served by the Spacechem in last 10 years

<table>
<thead>
<tr>
<th>Company</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHEL, Trichy</td>
<td>Larsen &amp; Toubro</td>
</tr>
<tr>
<td>ABB Ltd.</td>
<td>Mitsui Babcock Energy (I) Ltd.</td>
</tr>
<tr>
<td>Loesche India Ltd</td>
<td>K.S.H.I – JV</td>
</tr>
<tr>
<td>Robbins Tunneling</td>
<td>Herrenknecht, Germany</td>
</tr>
<tr>
<td>Metro Tunneling Group</td>
<td>International Metro Civil Contractors</td>
</tr>
<tr>
<td>KHD Humboldt Wedag</td>
<td>VOLTAS Ltd.</td>
</tr>
<tr>
<td>ISGEC John Thompson</td>
<td>Triveni Engineering Works Ltd.</td>
</tr>
<tr>
<td>Continental Engineering</td>
<td>Walchandnagar Ltd.</td>
</tr>
<tr>
<td>Ondeo Degremont India Ltd</td>
<td>Unitech Machine Ltd.</td>
</tr>
<tr>
<td>Grasim Industries Limited</td>
<td>Cimmco Birla Ltd.</td>
</tr>
<tr>
<td>Llyod Insulation (India) Ltd</td>
<td>DLF Power Ltd.</td>
</tr>
<tr>
<td>Blue Star Limited</td>
<td>Neer Shree Cement</td>
</tr>
<tr>
<td>Unit</td>
<td>Address</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Unit-I</td>
<td>E-81, Industrial Area, Bulandshahar Road, Ghaziabad-201009 (UP) India</td>
</tr>
<tr>
<td>Unit-II</td>
<td>C-120, Industrial Area, Bulandshahar Road, Ghaziabad-201009 (UP) India</td>
</tr>
<tr>
<td>Unit-III</td>
<td>B-51-53, UPSIDC Industrial Area (Phase-I), M.G. Road, Ghaziabad – 201302</td>
</tr>
<tr>
<td>Unit-IV</td>
<td>B-69-85, UPSIDC Industrial Area (Phase-III), M.G. Road, Ghaziabad – 201302</td>
</tr>
</tbody>
</table>
Spacechem Group
C-120 Industrial Area,
Bulandshahar Road,
Ghaziabad-201009
INDIA
(Corporate Office)

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Krishan Avtar Garg
Managing Director

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Spacechem Engineers Pvt. Ltd.
C-120, B.S. Road Industrial Area
Ghaziabad - 201009 (U.P.) India

RDSO Approved Steel Bridge Girders

Heavy Steel Fabrication, Customized Equipments, Beams, Girders, Boxes, Boiler Structures, Vessels, Product Development, Contractor for ROBs, Erection & Commissioning

Mobile: +91 98101 35304   Email: garg@spacechemgroup.com