STEEL PLANT EQUIPMENT & PROJECTS
Designing & Manufacturing of Heavy Equipment & Machinery / Packages for Following Sectors:

- Hydro Carbon Sector
- Oil & Gas Sector
- Steel Plants Equipment
- Boilers & Power Plant Equipment
- Marine Truck & Wagon Loading Arm
- Air Pollution Solutions (FGD System, DeNox System, Electrostatic Precipitator, Filter Bag)
- Solar Energy Solutions
- Industrial Turnkey Projects
LLOYDS STEELS IN BRIEF

- A reputed name in design and manufacturing of equipments for Oil & Gas, Process industry, Power and Marine sector since year 1974
- Heavy fabrication unit located at Murbad (Thane district)
- Well equipped with facilities for fabrication works & manufacturing of:
  - Pressure vessels
  - Columns
  - Heat exchangers
  - All kinds of boilers
  - Steel plant equipment
  - Marine, Truck & Wagon loading arms
- Accredited with ISO 9001:2015 certification by SGC-UK
- We have successfully achieved ASME Certifications
  - ASME U Stamp
  - ASME U2 Stamp
  - ASME S Stamp
  - R Stamp (as per NBIC)
MAJOR PROJECTS

- Lloyds Steel formed group under Engineering Division in 1991-92 for setting up of
  - 0.6 MTPA Integrated Steel Plant at Wardha
  - Coal based 500 TPD DRI Plant at Chandrapur

- Executed Rolling Mill equipment and new projects implementation at group companies

- Refurbishing job at Tinplate Jamshedpur of Double Cold Reduction 4 Hi Mill with new Utility systems, Electricals and Automation system supply

- Setting up of 1.20 MTPA Pellet Plant with 100% Hematite Iron Ore for AISCO, Barbil under Chinese Technology
The group is working as general machine building division with facilities for heavy fabrication / machining as required for Steel Plant.

We supply the equipment based on the client manufacturing drawing equipment.

We have executed the equipment in following areas:
- Steel Melt Shop
- Slab Caster and Hot Rolling Mills
- Cold Rolling Mills
- Processing Lines and Associated Systems
- Raw Material Processing Plants such as Sponge Iron Plant & Pellet Plant
A. EQUIPMENT MANUFACTURED & SUPPLIED FOR SMS

- Water Cooled Furnace Roof, Upper Shell, Lower Shell
- Ladles of 80 MT to 165 MT
- Ladle Turret
- Mould Oscillator
- Slab Caster Complete Segments Slab Caster Complete Segments
- Slab Roller Table
- Aux Equipment Such As Stands
- Water Cooled Panels & Ducts & Headers
- Tundish & Tundish Car
- Withdrawal & Straightening Unit
- Furnace Shell
- VD Vessel & VD Cover
- Upper Hood, Lower Hood, Combustion hamber
MACHINING OF LADDLE TURRET ON SKODA HB MACHINE

ROTARY TRIAL OF LADDLE TURRET AT OUR WORKS
ADJUSTABLE MOULD & OSCILLATOR FOR LSIL

SEGMENT I - IV FOR UVSL WARDHA
ROCKER, FURNACE GANTRY ASSEMBLY FOR URALMASH RUSSIA THROUGH SMS INDIA, GURGAON

CROSS BEAM FOR BMM ISPAT THROUGH SMS CONCAST POONA
LOWER HOOD FOR IISCO BURNPUR THROUGH SMS SIEMAG

PUSH DOWN FLAP FOR STECKEL MILL COIL FURNACE (SMCF) FOR WELSPUN GUJRAT
UPPER HOOD SECTION 2 FOR IISCO BURNPUR THROUGH SMS SIEMAG

MOVABLE ELBOW FOR URALMASH PROJECT THROUGH SMS SIEMAG (Export Job)
WATER COOLED PANELS FOR URALMASH PROJECT THROUGH SMS SIEMAG (Export Job)

UPPER SHELL WITH PIPING FOR URALMASH PROJECT THROUGH SMS SIEMAG
WITHDRAWAL & STRAIGHTENING UNIT FOR UVSL WARDHA

LADLE FOR IISCO BURNPUR
FURNACE ROOF
FOR JSW THROUGH SMS SIEMAG

Lloydsteels
VD VESSEL & COVER ASSEMBLY FOR SMS SIEMAG
LOWER SHELL FOR SMS BHUSHAN STEELS ORISSA

LOWER SHELL SMS JSW TORANGALU
LOWER SHELL AFTER PAINTING FOR JSW TORANGALU THROUGH SMS INDIA.
B. EQUIPMENT MANUFACTURED & SUPPLIED FOR HOT ROLLING MILL

- Slab Charging & Discharging Machine
- Roller Tables
- Down Coilers Including The Wrapper Rolls etc.
- Roller Table Bridge Between Down Coilers
- Vertical Edger
- Coiling Furnace
- Laminar Cooling System
- Hydraulic Side Guides Before & After The Mill
- Recuperator
- Accumulator For Descaling Unit
- Coil Cars 25 MT
### B. EQUIPMENT MANUFACTURED & SUPPLIED FOR HOT ROLLING MILL

- Tunnel Furnace, Trucks, Movable Cars
- Slab Reject Roller Tables
- Shear Base Frames
- Plate Finishing Line Including Cooling Beds, Turn Over Device & Roller Tables
- Billet Caster Dummy Bar, Withdrawal & Straightening m/c.
- Transfer Cars
CHARGING MACHINE FOR RSP PROJECT THROUGH TENOVA HYPERTHERM

MACHINE FOR DISCHARGING PROJECT TENOVA HYPERTHERM
DOWN-COILER FRAME AT WELSPUN ANJAR
ROLLER TABLE BRIDGE FOR HOT STRIP MILL FOR ISPAT DOLVI

COOLING BED WITH TRANSFER DEVICE FOR PLATE MILL AT WELSPUN ANJAR
TUNDISH CAR FOR UVSL WARDHA

SLAB REJECT ROLLER TABLE
FOR BHUSHAN STEELS CSP LINE
LIFTABLE CHAIN TRANSFER FOR IISCO BURNPUR THROUGH DANIELI INDIA LTD.

BILLET TRANSFER CAR FOR IISCO BURNPUR THROUGH DANIELI INDIA LTD.
C. EQUIPMENT MANUFACTURED & SUPPLIED FOR ROLLING, PROCESSING LINES & ASSOCIATE SYSTEMS

- 4 Hi Cold rolling and skin pass Mill with Hydraulic AGC & flatness control system in technical collaboration with United Engg USA.

- Refurbished DCR Mill with new utility systems and Electricals at Tinplate company, Jamshedpur

- Supplied Bell annealing furnaces with 24 bases

- Regularly supplying zinc pots for Galvanizing lines
C. SALIENT FEATURES OF 4 HI REVERSING COLD ROLLING MILL AT UVSL WARDHA

- Mill width 1250 mm, 1200 MPM
- Hydraulic AGC & Nucleonic thickness measurement
- Flatness Control through Stressometer Roll from ABB
- Work Roll Bending & Zonal Cooling given for control
- Electrics & Automation from ABB
- Cold Reduction & Skin Pass Mill
- Automatic Pass Line adjustment with Hyd screw down
- Quick Work Roll Change & BUR Change Trolleys
- BUR 1350 mm, WR 475/508 mm
- Supply of all Utility Systems & Ventilation Systems
C. SALIENT FEATURES OF 4 HI REVERSING COLD ROLLING MILL AT UVSL WARDHA

- Mill from United USA refurbished & installed
- New Electrics & Automation supplied
- New Utility systems including Hydraulic Power Packs
- Roll Coolant Recirculation Systems, Morgoil System
- Pneumatic System manufactured, supplied & installed
- Ventilation System for Oil cellar, ECR etc. supplied
RM SPINDLE FOR HRM REFURBISHED FOR UVSL WARDHA

LAMINAR COOLING AT HRM UVSL WARDHA
ENTRY TENSION REEL ASSY FOR UVSL WARDHA

BUR CHANGE TROLLEY AT CRM UVSL WARDHA
ZINC POT FOR UVSL WARDHA

PLATE PILER WITH PLATE FINISHING LINE AT LSIL.
**TURNKEY PROJECTS**

**Raw Material Processing Plants:**

- Manufactured & executed Sponge Iron on turnkey basis at various project sites
- Supplied 100 TPD Kilns / Cooler & other equipment
- Executed 1.20 MTPA Hematite Iron ore Pelletisation plant at AISCO Barbil with technical design from BSDI, China
- Supplied 2 x 100 TPH Iron Ore Grinding Ball Mills
- Supplied 200 TPH dryer with HAG for iron ore drying
- Manufactured Rotary Kiln for Pellet Plant
LIST OF DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION COMMISSIONING OF THE FOLLOWING PROJECTS.

The scope included Supply of Mechanical Equipment, Electricals & Automation, Utilities, All Instrumentation, Inter Connecting Piping, Cabling, Civil Assignment Drawings / Structural Design Drawings etc.

<table>
<thead>
<tr>
<th>SR NO</th>
<th>DESCRIPTION</th>
<th>CLIENT</th>
<th>CONTRACT VALUE IN RS MILLIONS</th>
<th>YEAR OF COMPLETION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4 Hi Cold rolling Mill with Hydraulic AGC &amp; flatness control system, with Ventilation &amp; Air conditioning</td>
<td>UVSL - Wardha</td>
<td>370.00</td>
<td>1998</td>
</tr>
<tr>
<td>2</td>
<td>1 x 500 TPD DRI Plant</td>
<td>LMEL Ghugus, Chandrapur</td>
<td>580.00</td>
<td>1994</td>
</tr>
<tr>
<td>3</td>
<td>4x 100 TPD DRI Plant</td>
<td>LMEL Ghugus, Chandrapur</td>
<td>450.00</td>
<td>2006</td>
</tr>
<tr>
<td>4</td>
<td>2 x 100 TPD DRI Plant</td>
<td>Gopani Iron &amp; Power(India) Ltd, Tadali, Chandrapur</td>
<td>127.60</td>
<td>2005</td>
</tr>
<tr>
<td>SR NO</td>
<td>DESCRIPTION</td>
<td>CLIENT</td>
<td>CONTRACT VALUE IN RS MILLIONS</td>
<td>YEAR OF COMPLETION</td>
</tr>
<tr>
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</tr>
<tr>
<td>5</td>
<td>1 x 15 MW Power Plant</td>
<td>Gopani Iron &amp; Power (India) Ltd, Tadali, Chandrapur</td>
<td>240.30</td>
<td>2009</td>
</tr>
<tr>
<td>6</td>
<td>1 x 30 MW Power Plant</td>
<td>LMEL Ghugus, Chandrapur</td>
<td>1250.00</td>
<td>2010</td>
</tr>
<tr>
<td>7</td>
<td>1.20 MTPA Hematite Iron Ore Pellet Plant Sourcing of equipment from China for critical areas.</td>
<td>AISCO Barbil, Orissa.</td>
<td>1080.00</td>
<td>2008</td>
</tr>
<tr>
<td>8</td>
<td>2 x 100 TPD DRI Plant</td>
<td>Topworth Steels, Durg</td>
<td>16.30</td>
<td>2005</td>
</tr>
</tbody>
</table>
### List of Design, Engineering, Manufacturing, Supply, Erection Commissioning of the Following Projects.

<table>
<thead>
<tr>
<th>SR NO</th>
<th>DESCRIPTION</th>
<th>CLIENT</th>
<th>CONTRACT VALUE IN RS MILLIONS</th>
<th>YEAR OF COMPLETION</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>12 Bases Bell Annealing Furnace</td>
<td>Uttam Galva, Khopoli</td>
<td>20.00</td>
<td>1994</td>
</tr>
<tr>
<td>10</td>
<td>24 Bases Bell Annealing Furnaces</td>
<td>Lloyds Steel Industries ltd, Wardha</td>
<td>38.50</td>
<td>1995</td>
</tr>
<tr>
<td>11</td>
<td>Acid Regeneration Plant</td>
<td>Lloyds Steel Industries ltd, Wardha</td>
<td>20.60</td>
<td>1994</td>
</tr>
<tr>
<td>12</td>
<td>Plate Mill Project - Procurement of material manufacturing, Supply, Supervision of commissioning of Transfer table, Cooling bed, Roller tables, Downcoiler etc</td>
<td>Welspun Corp, Anjar</td>
<td>2750.00</td>
<td>2007</td>
</tr>
<tr>
<td>13</td>
<td>2 x 40 MW Coal based Power Plant</td>
<td>Indrajeet Infrastructure Ltd, Wardha</td>
<td>3100.00</td>
<td>2009</td>
</tr>
</tbody>
</table>
1.20 MTPA PELLET PLANT AT BARBIL ORISSA
2 X 100 TPH BALL MILL
FOR 1.20 MTPA PELLET PLANT AT AISCO, BARBIL
ROTARY KILN, ANNULAR COOLER
AT 1.20 MTPA PELLET PLANT AT BARBIL
Certificate IN/1103288

The management system of
Lloyds Steels Industries Ltd.
Trade World "C" Wing, 16th Floor, Kamala City,
Senapati Bapat Marg, Lower Parel (West),
mumbai - 400013, Maharashtra, India.

has been assessed and certified as meeting the requirements of
ISO 9001:2015

For the following activities:
The scope of registration appears on page 2 of this certificate.

Further clarifications regarding the scope of this certificate and the applicability of
ISO 9001:2015 requirements may be obtained by consulting the organisation.

This certificate is valid from 16 February 2017 until 19 January 2020 and
remains valid subject to satisfactory surveillance audits. Re-certification audit due before 19 November 2019.

This is a multi-site certification. Additional site details are listed on the subsequent page.

issued by

SGS

Lloyds Steels Industries Ltd.

ISO 9001:2015

Issue 4

Detailed scope:
Design, Manufacture and Supply of Equipment for Industrial sector -
Hydrocarbon, Nuclear Power, Space, Defence, Process plants, Loading,
Unloading Arms, Steel Plant, Boiler and Boiler Equipment.

Further clarifications regarding the scope of this certificate and the applicability of
ISO 9001:2015 requirements may be obtained by consulting the organisation.

Additional facilities:
Works:
A-53, A-55 & A-54, MIDC Industrial Area, Murbad,
Thane - 421401, Maharashtra, India.
CORPORATE OFFICE
Kamala city, Trade World
‘C’ Wing, 16th Floor,
Senapati Bapat Marg,
Lower Parel, Mumbai 400 013,
Maharashtra, India
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Fax: +91-22-62918260
E-Mail: svnagraj@lloyds.in
: hsmishra@lloyds.in
: sggangishetti@lloyds.in
: infoengg@lloyds.in
Website: www.lloydsengg.in

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Maharashtra
Tel: +91-2524222271/
+91-9270901141
Fax: +91-2524222273
THANK YOU