



### Contact:

## KUMAR METAL INDUSTRIES PVT. LTD.

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## KUMAR METAL INDUSTRIES PVT. LTD.

In joint venture with Crown Iron Works Company, USA



Where **IMAGINATION** and  
**INNOVATION LEAD** to the **FUTURE**

CE ISO 9001-2008

## GEARED for PROGRESS

### COMPANY OVERVIEW

Established in the year 1939, Kumar Metal Industries Pvt. Ltd. (KMIPL) is a globally established detail engineering & manufacturing organisation with special expertise in Oil Mill, Solvent Extraction & Edible Oil Refining plants. Today we have our presence across 30 countries and serve over 500 customers.

Kumar is an ISO 9001-2008 approved company with CE and ATEX certifications providing complete project management services to oil seed processing, solvent extraction, edible oil refining, fractionation and related product industries.

Our corporate headquarters are located in Mumbai. The manufacturing unit of 40,000 square feet houses 250 skilled technicians, quality control personnel, dedicated workmen and the latest precision European machinery.

Our fabrication facilities are capable to manufacture high pressure vessels and are equipped with certified x-ray qualified welders. For hard facing and critical wear-and-tear parts our highly trained TIG / MIG welders take over.

We have in-house facilities for design and manufacture of various models of Oil Expellers, Filter Press, Hammer Mills, Vertical/Horizontal Steam Boilers, High Pressure Vessels, Heat Exchangers, Distillation Columns, Agitators, Reaction Kettles, Desolventizer-Toasters, Extractors etc. under various Third Party inspection agencies as required by the customer.

Plants with complete automation using latest PLC technology and the most accurate Instruments for control and monitoring of Process parameters are supplied on request. Our services include everything from concept and design to project management.

Crucial to every part of the process, our quality department checks the project at every stage ensuring that our clients always get superior quality products.

Kumar's equipments have a reputation of being robust in construction, superior in quality, versatile in nature and operationally profitable. Also, our vastly experienced personnel provide training to the customer's operating staff.

Kumar is in technical collaboration with world leaders in Oil Extraction and Refining Plants- Crown Iron Works Company, USA to manufacture Solvent Extraction and Vegetable Oil Refining Plants of higher capacities ranging from 500 to 6000 tons per day.

### VISION & MISSION

Our mission is to provide reliable and superior quality products, value added solutions and responsive service to our customers. We accomplish this by incorporating proprietary technology, while keeping our research and development facilities busy with continuing the search for technological improvements.

Our vision is to grow through dedication, discipline and determination. We want to be remembered by what we have given to our clients and the society. We are a manufacturing and exporting firm and ensure that our products are of robust construction, high quality, versatile in nature and operationally profitable.

### HISTORY

Kumar Metal Industries Pvt. Ltd. was established by Mr. Onkarnath R. Manaktala in 1939. What began as a small family venture, based on a foundation of dedication, hard work and hope, grew into strength and purpose over the years.

It has become our forte to set up turnkey projects in Oil Mills, Solvent Extraction Plants and Oil Refineries. Our plants can handle various oil seeds and oils like sunflower, peanut, canola, soybean, cottonseed, copra, palm kernel, etc.

Kumar is a company geared towards total quality management. This has enabled us to achieve several awards and certificates from the Indian Government and from the Engineering Export Promotion Council in recognition of our export and innovative prowess.

This is a company which works on the principles of honesty, integrity, sincerity and dedication to serve the customer's interest. Now, with the next generation at the helm of affairs it is a tight-knit, 250 people strong company with its tracks in over 30 countries and has over 500 customers.

MANUFACTURING CAPABILITIES

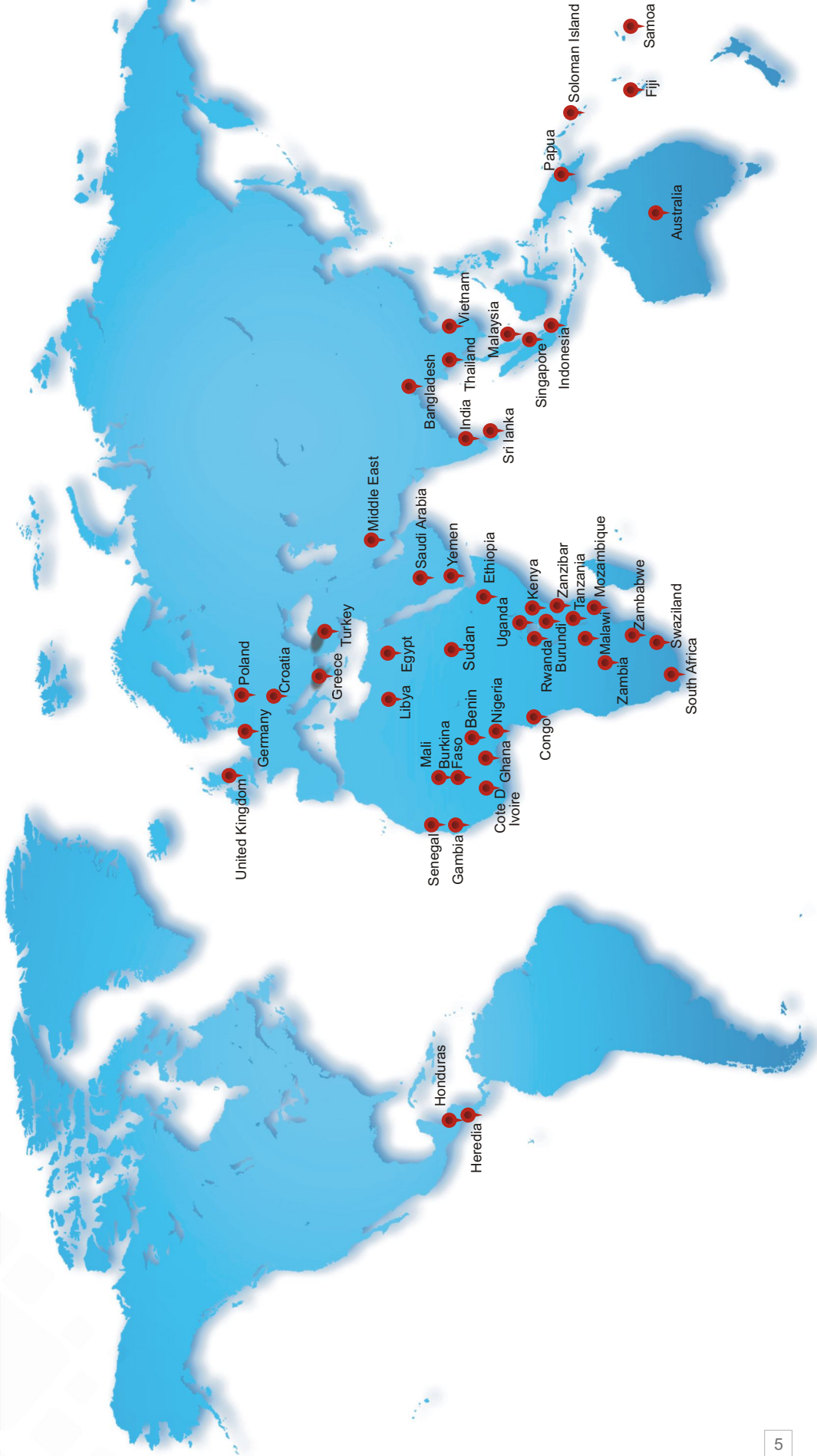
| Total Area      |                        |
|-----------------|------------------------|
| Covered Area    | 65,000 Sq. Ft          |
| Building        | 10,000 Sq. Ft          |
| Fabrication Bay | 40,000 Sq. Ft          |
| Machine Shop    | 11,000 Sq. Ft          |
| Crane Capacity  | 20 tons*4<br>15 tons*2 |



WORLDWIDE INSTALLATIONS

Kumar is a global company. Not only do we serve customers around the world, we also use the best technology and supply sources internationally to ensure that only the best is delivered to our customers. Through our worldwide network of sales representatives and agents, we have been able to serve customers in countries across the world. This has led to an impressive list of international installations universally.

We have our presence in over 30 countries and serve more than 500 clients.



## Quality Policy

At Kumar, we design, install and operate under a Quality Assurance Program. This program ensures that the equipment design, material selection and procurement, manufacturing, testing and certification is in accordance with internationally accepted codes and practices. The program has been certified and is in compliance with the following codes and quality systems.

### • ISO 9001-2008 Certification

Our Quality Assurance System has been certified to be in compliance with ISO 9001-2008 by Notifying Body ICS Certification accredited by JAS-ANZ of Australia & New Zealand.

### • CE-PED & Machinery Certification

**CE** Kumar Metal Industries has been approved to design and manufacture pressure vessels in compliance with the European Council's Pressure Equipment Directive 97/23/EC & Machinery Directive 98/37/EC, by the European Notifying Body.

### • **Ex** ATEX

### ■ Third Party Inspection

We are equipped to manufacture various components and equipments in accordance with International standards and Third party inspections like SGS/OMIC, Bureau Veritas, Lloyds, etc.

Attention is paid to provide adequate machine shop backup to meet the stringent requirement of machining for all projects including drilling and reaming of tube sheets, flanges, pneumatic connectors, etc.

### ■ Process equipments are manufactured using latest fabrication facilities

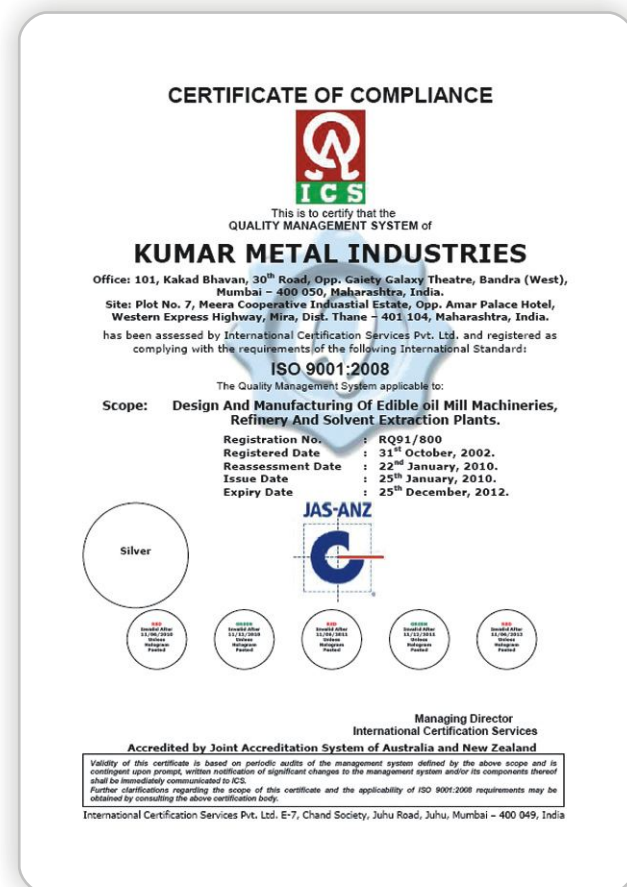
Testing and certification of all equipments to be used in a potentially explosive atmosphere are approved under the ATEX Directive 94/09/EC, by the European Notifying Body

**SMAW** – Shielded Metal Arc Welding

**MIG** - Metal Inert Gas Welding

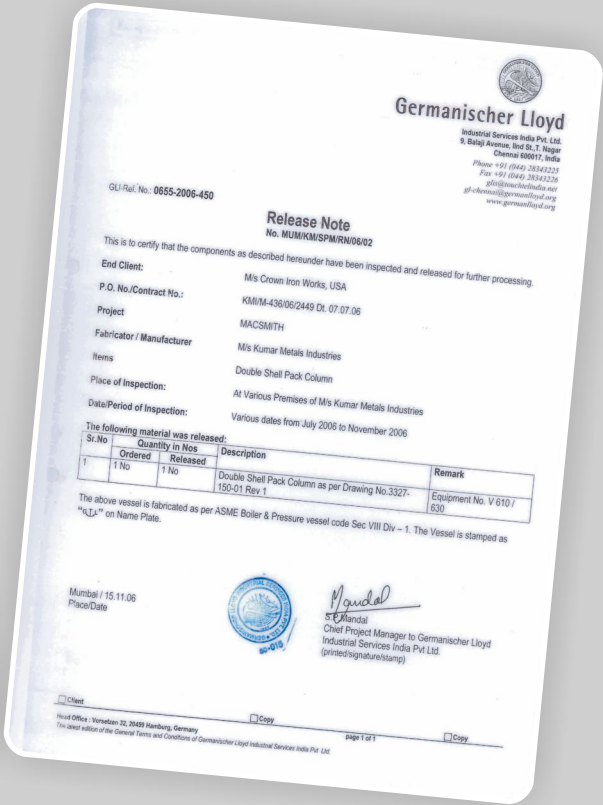
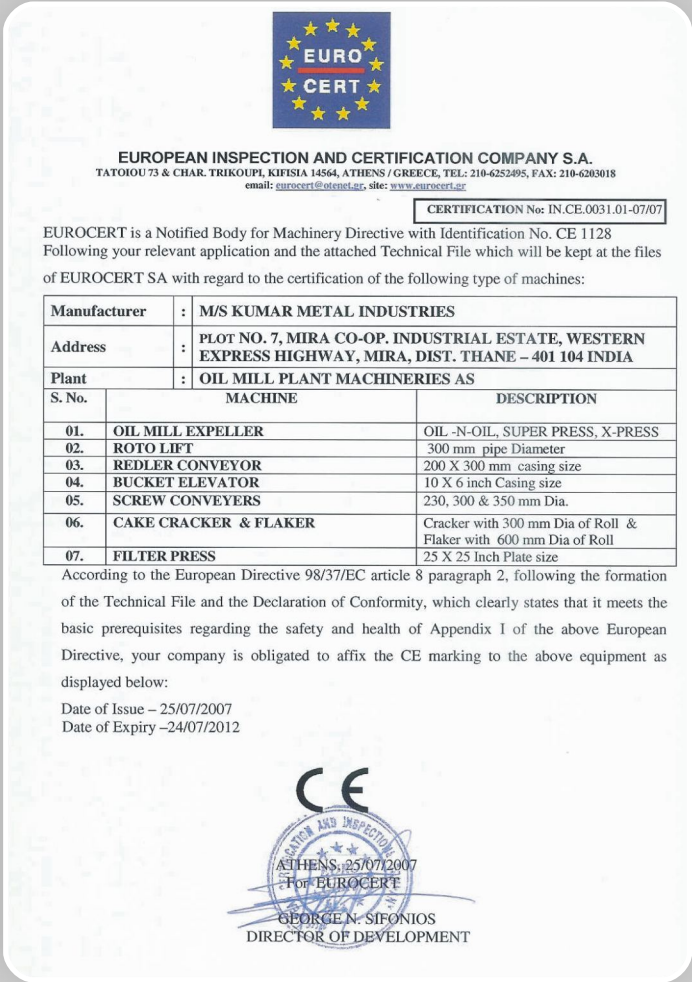
**GTAW** - Gas Tungsten Arc Welding

For C.S, SS, Alloy steel we incorporate national & international codes such as ASME, TEMA European PED & Machinery Directive- CE, Gost-R, BS & IS



## Quality Objectives:

- Equipments are designed, manufactured and tested as per ASME Sec VIII Div 1 requirements.
- Pressure equipments and machines are inspected stage wise and comply to their Quality Assurance Plan.
- Trial runs are conducted for all machines to ensure all physical parameters are within their operating limits.
- Welding processes are complying to WPS and PQR as per ASME standards.
- Vessels are Hydraulic tested as per ASME standards.
- All incoming Raw materials are chemically and physically tested to comply with ASME standards.
- Carbon steel Equipment and piping are Coated to Painting System Procedure of NACE standards.
- SS equipment are pickled and passivated to ASME standards.
- The following Non Destructive Examinations are carried out by qualified personnel from ANSI level II as per ASME Sec V
  - a. Ultrasonic testing
  - b. Dye penetrant testing
  - c. Radiography testin
  - d. Magnetic Particle testing
  - e. Eddy Current test
  - f. Positive Material identification
- Equipment and Machines confirm to PED requirements and are CE marked from notifying inspection bodies.
- An inspection document folder is submitted along with supply.



| Characteristics Checked | Type of Check               | Quantum Of Check | Method Of Check                                                                | Reference Document                           | Acceptance Norms/ Document                   | Record Of Check            | Agency                                  |
|-------------------------|-----------------------------|------------------|--------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------|-----------------------------------------|
| Inward Inspection       |                             |                  |                                                                                |                                              |                                              |                            |                                         |
| Material                | Chemical Composition        | 100%             | Verification Of Supplier's Test Certificate / In House Ultra Sonic Test Report | Test Report                                  | No Deviation                                 | Inward Inspection Report   | UKS Ultra Services/ National Laboratory |
| Major Dimensions        | Dimensional                 | Sampling Plan    | Vernier/ Micrometer                                                            | As Per Drawing                               | As Per Drawing                               |                            | Kumar Metal Industries                  |
| Casting Defects         | Visual                      | 100%             | Visual                                                                         | -                                            | No Defects                                   |                            |                                         |
| Bought Outs             | Visual                      | 100%             | Visual                                                                         | -                                            | No Defects                                   |                            |                                         |
| Inprocess Inspection    |                             |                  |                                                                                |                                              |                                              |                            |                                         |
| Major Dimensions        | Dimensional                 | 100%             | Dimensional                                                                    | As Per Our Drawing & Process Sheet           | As Per Our Drawing & Process Sheet           | Assembly Inspection Report | Kumar Metal Industries                  |
| Hardness Test           | Rockwell/ Bhn               | 100%             | Rockwell & Bhn Testing Machine/ Poldi Tester                                   |                                              |                                              |                            |                                         |
| Visual                  | Visual                      | 100%             | Visual                                                                         |                                              |                                              |                            |                                         |
| Assembly Inspection     |                             |                  |                                                                                |                                              |                                              |                            |                                         |
| Pressure Tests          | Pressure                    | 100%             | Pressure Testing Equipments                                                    | As Per Our Drawing & Technical Specification | As Per Our Drawing & Technical Specification | Assembly Inspection Report | Kumar Metal Industries                  |
| Visual                  | Visual                      | 100%             | Visual                                                                         |                                              |                                              |                            |                                         |
| Dimensional Inspection  | Dimensional                 | 100%             | Vernier/ Micrometer                                                            |                                              |                                              |                            |                                         |
| Final Inspection        |                             |                  |                                                                                |                                              |                                              |                            |                                         |
| Pressure Tests          | Pressure                    | Sampling Plan    | Pressure Testing Equipments                                                    | As Per Our Drawing & Technical Specification | As Per Our Drawing & Technical Specification | Final Inspection Report    | Kumar Metal Industries                  |
| Visual                  | Visual                      | Sampling Plan    | Visual                                                                         |                                              |                                              |                            |                                         |
| No Load Running Trial   | Current/sound & Temperature | 100%             | Ammeter/ Decibal Meter/ Thermometer                                            |                                              |                                              |                            |                                         |

## Services

- **Technology Identification**

Kumar helps you to identify the appropriate technology and selection of the right equipment with modern technology in various processes.

- **Process Automation**

The control, operation and supervision of the plant can be handled by minimal staff. All main process parameters for example flow rates, temperatures, liquid levels etc. are automatically maintained from a control panel or, as an option, with the help of PID/PC based controls.

- **Project Execution**

Kumar forms the perfect partnership with each customer by using professional project managers. An experienced engineer is assigned to your project to coordinate the job from start to finish. The project manager serves as a single point of contact between the various individuals working on the project.

Kumar has well qualified mechanical / chemical engineers having vast experience in project execution. They are well versed with equipment and foundation layouts, P & IDs, Utility consumption parameters, Piping etc.

- **Installation**

At Kumar, we have an independent team for the installation of projects. This team ensures that all the major pieces of equipment are erected onto their prepared foundations and that associated machinery is installed correctly including all inter-connecting equipment and piping work.

Our Installation team is well trained in all aspects such as shifting of equipment, foundation layouts, piping, instrumentation, cabling, insulation and painting.



- **Commissioning**



We have process expertise to care of commissioning duties after the installation of projects. Our commissioning team gives dry runs & product trials with all utilities and consumption as per our agreement. Our engineers erect and commission plants all over the world and carefully bring the plant to full performance before handover. We do not consider our job complete until the equipment is operating as it was designed to do so - smoothly and profitably.

- **Technical Audits**

Kumar conducts Technical Audits of project supplied. Customers can conduct yearly technical audits of the plant and get recommendations from Kumar regarding the efficiency, output, energy consumption, spares, inventory etc. Technical audits reduce down time as they ensure regular preventive maintenance machines.

- **After Sales**

In addition to occasional 'trouble-shooting' visits, which can be arranged to monitor progress or advice on possible expansion plans or improvements, we can easily arrange spare parts if required. At Kumar, we believe in 24/7 after sales services. If a visit from our service person is necessary to guide your staff, please feel free contact us.



