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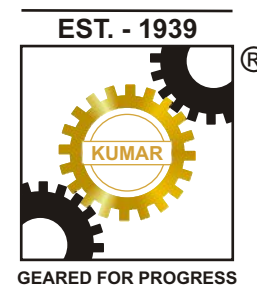
Manufacturing Unit:

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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**

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 25 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 150 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 oil like sunflower, peanut, canola, soya bean, cottonseed, copra and palm kernel.

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, 200 people strong company with its tracks in over 30 countries and has over 500 customers.



MANUFACTURING CAPABILITIES

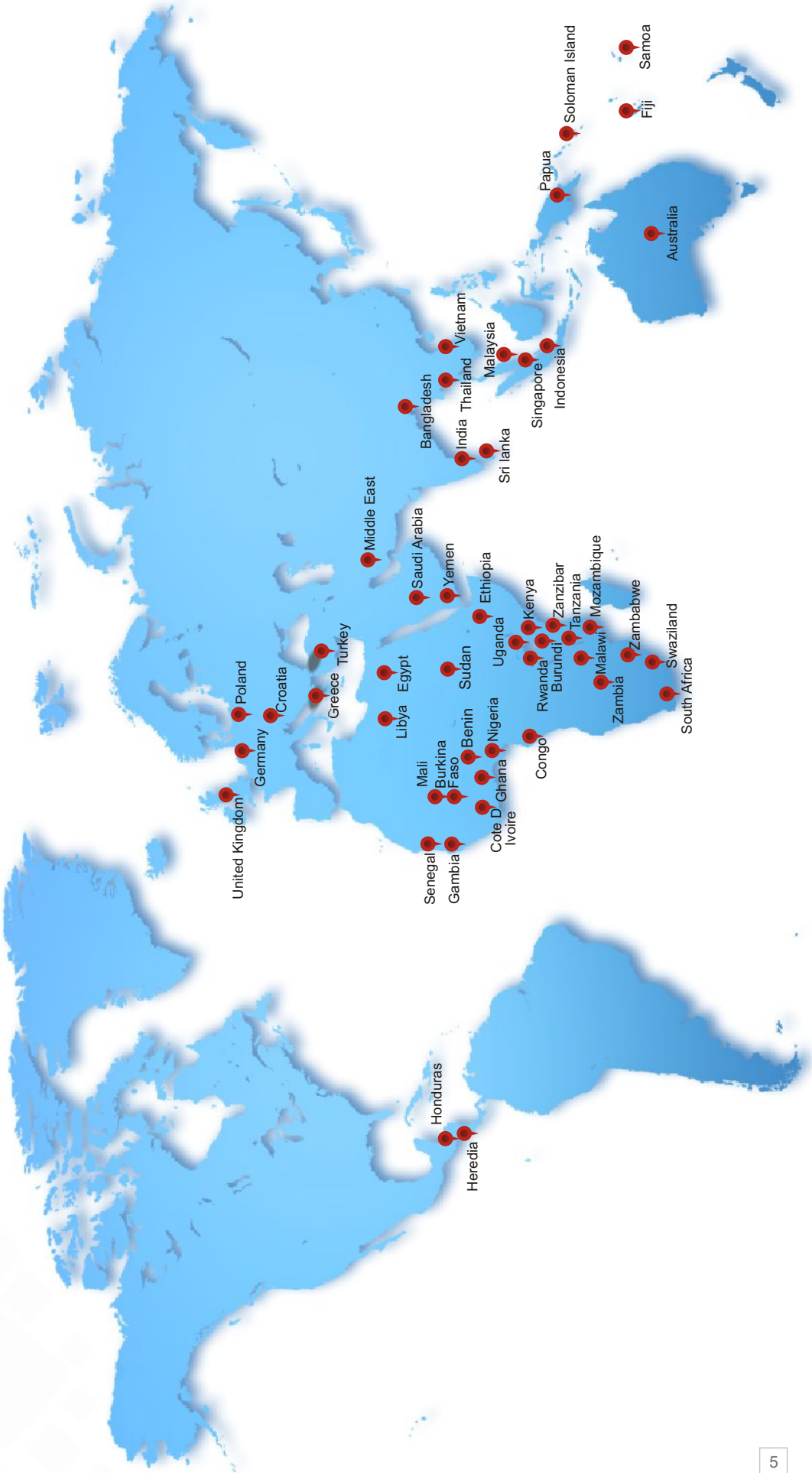
	(UNIT NO.1)	(UNIT NO.2)	(UNIT NO.3)
	(Sq. Ft)	(Sq. Ft)	(Sq. Ft)
Total Area	45,000	10,000	25,000
Covered Area	40,000	5,000	20,000
Building	6,000	3,600	
Fabrication Bay	30,000	400	
Machine Shop	6,500	4,600	
Crane Capacity	20 tons*4	15 tons*2	
Inventory Control	7,000	400	



WORLDWIDE INSTALLATIONS

Kumar Metal Industries 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 Metal Industries, 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.



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

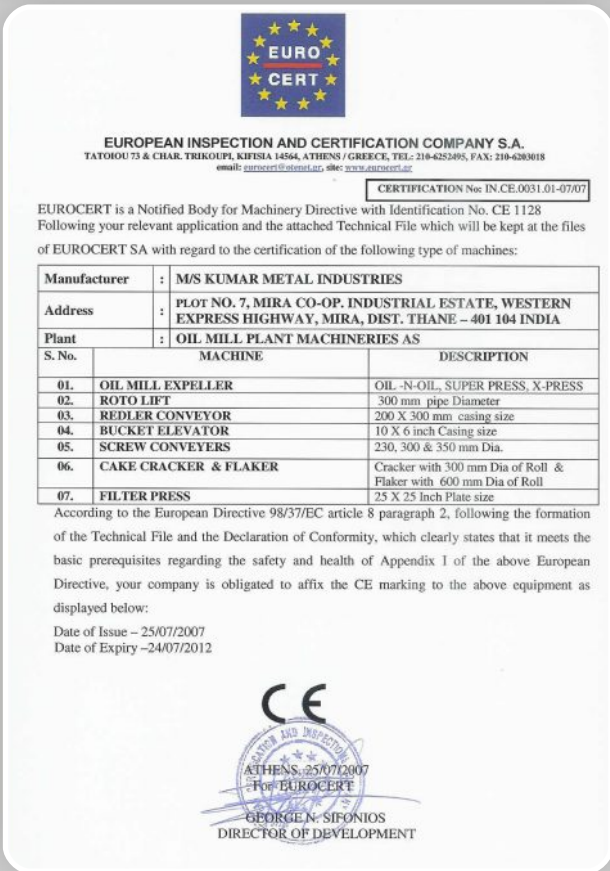
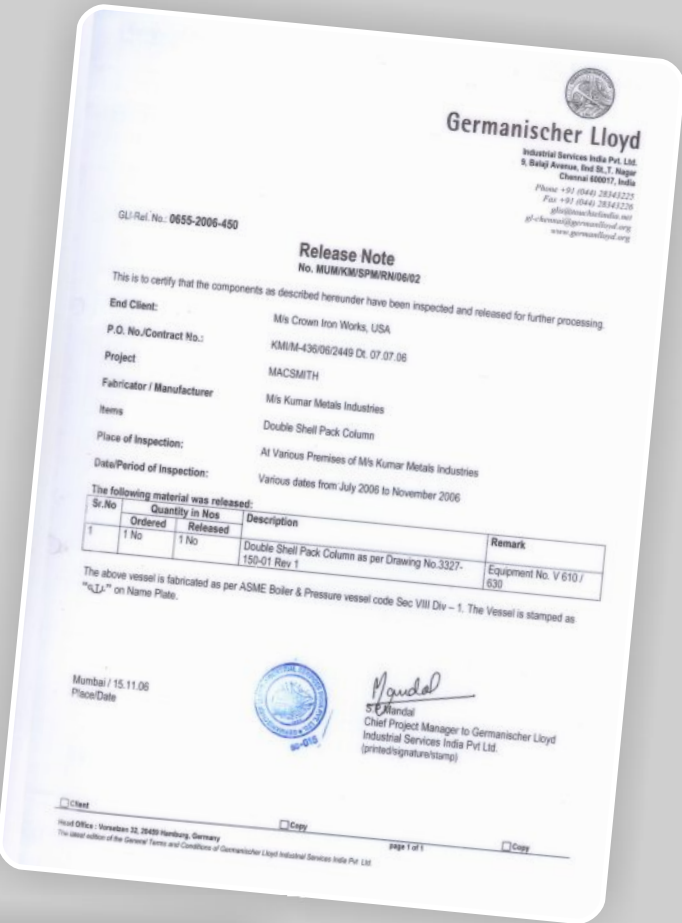
GTAW - Gas Tungsten Arc Welding

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 sec IX and EN 287/288
- Vessels are Hydraulic tested as per ASME sec VIII div 1 to Para UG 100.
- 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.

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.



Your Partner In The Oil Industry

Seed Preparation	Pressing	Extraction	Refining	Engineering
Cleaning	Pre Pressing	Solvent Extraction	Degumming Neutralizing	Process Technology
Breaking	Final Pressing	Desolventising Toasting	Pre treatment Bleaching	Project Management
Conditioning	Full Pressing	Drying Cooling	Deacidification Deodorisation	Process Automation
Flaking	Cold Pressing	Solvent Recovery	Crystallization Fractionation	Installation & Commissioning
Processed Seed	Crude Oil Press Cake	Crude Oil Meals	Edible Oil Edible fats Fatty Acids	After Sales Service

Core team

■ Mr. Sudhir Manaktala

Chief Executive Officer: A graduate having 37 years of experience in all aspects of management including manufacturing, marketing, finance, industrial relations & overall responsibility for management of the organization.

■ Mr. Sunil Manaktala

Managing Director: A commerce graduate having 32 years of experience in planning, quality up-gradation of the entire organization, expanding markets, and management of systems

■ Mr. Aditya Manaktala

Executive Director: M.B.A. in family business with 8 years work experience in various production aspects and customer relationship

■ Mr Rishabh Manaktala – Corporate Director

BBA in Entrepreneurship and International Business from Temple University, Philadelphia, USA. Has specialized in various fields related to management, business development, and corporate strategy. Worked with Crown Iron Works, USA as in charge of organizations Joint Venture operations in India. Currently handling systems up-gradation, operations, and core team development.

■ Mr. Akshaya Manaktala – Process Engineer

B.Sc. in Industrial and Systems Engineering from the OHIO State University, U.S.A. Specialized in Six Sigma and lean Production Systems. Worked at Rolls Royce Energy systems Inc. as a Process Quality Engineer. Currently working in process improvement, opportunities and streamlining operations.

■ Mr. Devraj Arora – General Manager

B.E. Mechanical having 40 years of experience in all aspects of manufacturing. Has been involved in building screw presses since 1973 and has extensive in-depth knowledge in design of mechanical equipments, fabrication techniques, various codes, procedures for inspection testing and thorough knowledge of systems for latest manufacturing technologies.

■ Mr. Shrinivas Samant – Joint Project Manager

Mechanical Engineer having 12 years experience in heavy fabrication. Assumes responsibilities as Production Executive for the entire organization and controls production schedules, process planning inventory, entire documentation for all the critical projects, their quality control and adherence to accepted Test Procedures (ATPs), functional trials etc

■ Mr. Kiran Palkar – General Manager: Marketing and Sales

Technocrat from UDCT Mumbai having 22 years of experience in manufacturing, engineering and execution, marketing and sales of various kinds of projects and engineering equipment. Has wide exposure of processing various kinds of seeds and cakes in solvent extraction plant and various kinds of oil in the refinery.

■ Mr. Vijay Shangarpawar – Process & Commercial Executive

M. Sc. tech. Oil technologist from UDCT, having 35 years of experience in designing and instrumentation of complete process of Oil Mill, Solvent Extraction Plant and Refinery.

■ Jayanti Chudasama- General Manager QA/QC

Shares extensive knowledge of 30 years in the field of Mechanical Engineering as well as acquired capabilities and potentials in fabrication and stage wise inspection of Pressure vessel, Heatexchanger, column, agitator, pumps, piping, piping accessories, plant, fabrication to its requirement of Welding, NDT, Coating to Nace CIP level 1&2, safety, Metallurgy, Heat treatment, inspection methods and processes relevant to standards & other internationally recognized codes like ASME Sec VIII div I, II, V, IX, API, NACE, TEMA, BS 5500, DIN. Additional the ASNT- NDT level II qualified in RT/UT/DP/ MP in the year 2009. Since the last 16 years, managing inspection and improvement in product and process development of oil expeller machine, solvent and refinery plant equipments and its certification has been his forte.

■ Mr. M. Maran – S.r Project Engineer

Mechanical Engineer having 8 years experience in heavy fabrication assumes responsibilities of production schedules, process planning inventory, shipment planning, entire documentation for all the projects.