



KAUSTAV ENGINEERING

Mechanical Equipments Solutions

ABOUT US

M/s KAUSTAV ENGINEERING is a Leading Mechanical engineering Firm specializing in providing a wide range of Engineering services and supply solutions. With a commitment to excellence, innovation, and customer satisfaction, we have established ourselves as a trusted partner in the Engineering industry. Our expertise encompasses various domains within Mechanical engineering, and we leverage cutting-edge technologies to deliver superior results to our clients.

OUR MISSION

Our mission is to provide innovative, cost-effective, and sustainable engineering solutions and supply services through the utilization of advanced technologies, best practices, and a dedicated team of professionals. We aim to contribute to the growth and success of our clients, while promoting environmentally friendly practices in the engineering & others sector.

CORE SERVICES

- Engineering Design and Consulting
- Equipment Supply
- Project Management
- Maintenance and Repairs
- Energy Efficiency and Sustainability
- Supply Through-GeM & CPP

OUR SERVICES

- Mechanical Equipment's Basic and Detail Engineering
- Reverse Engineering
- 3D Modelling, Simulation & FEA
- New Product Development
- Standardization of the Products
- Layout design
- Refurbishment Jobs
- Sheet Metals and Switch Gear Panels(CNC Punching, Bending & Nesting)
- 2D to 3D conversion (Any Format)
- Design & 2D drawing Preparation.
- Brush Up training NX, SolidEdge, SolidWorks, AutoCad Mechanical, ZW CAD application with Live project Experience



WHY WE?

- We do everything in Standards and following all the conventions required in the field of Manufacturing, Engineering, understanding and presentations.
- Qualified and Experienced Professional Team
- Cost Efficiency
- Accuracy and Innovation
- On-Time Delivery
- Fast Delivery: Same-day delivery within city
- Custom Orders: Special product bundling
- Application High End Engineering Tools-NX, SOLID EDGE, SOLID WORKS, AUTOCAD MECHANICAL etc
- **Post sale services**

QUALITY

M/s Kaustav Engineering is an innovative Engineering & Manufacturing company associated with Engineering, Design & Manufacturing of construction Machineries.

Commitment

The organization is committed to work persistently to meet or exceed the customer's requirements. We are also committed for the continual improvement of the system.

Objectives

Our objectives are to maintain the highest level of customer satisfaction through continuous improvement of processes and to continually strive at keeping work related injuries to a minimum. These objectives are achieved through teamwork and as per the standard procedures which provide the framework for the realization of our quality process.

Responsibility

The Management of **M/s Kaustav Engineering** accepts full responsibility for allocating the necessary resources in training, initiatives and technology required to maintain this Quality System.

This Quality Policy shall be posted, understood and implemented at all levels of the organization.

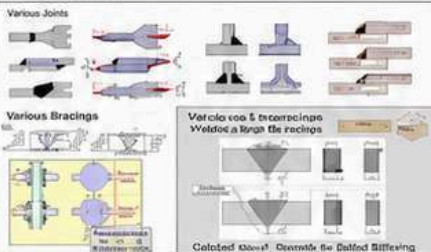


**KAUSTAV
ENGINEERING**
Mechanical Engineering Solution

ENGINEERING SERVICES

ENGINEERING ,3D MODELLING AND DRAWINGS

1 Varied joint and beam in brace - Design British Standard



General Stress Analysis Torsion Equation

$$\frac{G \theta}{F.O.S.} = \tau_{max} = \frac{T}{J} \cdot \frac{r}{A_0} \cdot \frac{1}{F.O.S.}$$

where, θ = Absolute gross twist in mm/1000 MM
 T = Torque (N-MM)
 J = Polar moie of inertia (mm⁴)
 G = Modulus of rigidity
 A_0 = Enclosed area

Design Basis & codes: Fabric of carbon steel, pipes and tubes

IS 800:2007 General Construction in Steel - Code of Practice

IS 800:2007 General Construction (Structural member calculations) (Limit state method of design) **Part - 1 & 2**

IS 800:2007 Cold Formed Light Gauge Structural Steel Sections - Code of Practice **Part - 6**

IS 806:1968 Code of practice for use of cold formed light gauge structural steel in general building construction **Part - 2**

IS 1161:2012 Steel tubes for structural purposes (Hollow Section) **Part - 1 & 2**

IS 4923:1997 Hollow Steel Sections for Structural Use **Part - 3 & 4**

Geress / Strain Analysis Derived stress

According to Hooke's law (For elastic stress analysis)

$$P_{allow} = \frac{E \cdot I \cdot \Delta L}{L^3} \cdot \frac{1}{1.2 \cdot (D + F + T)}$$

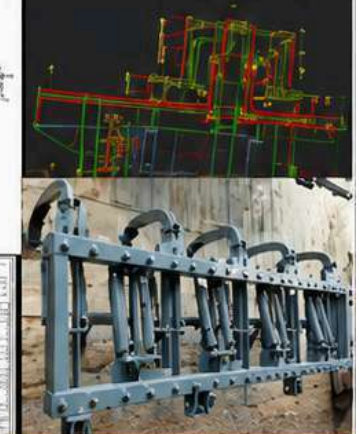
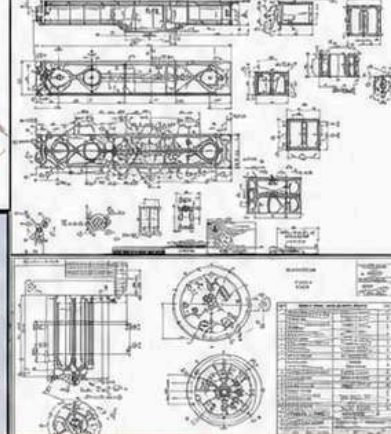
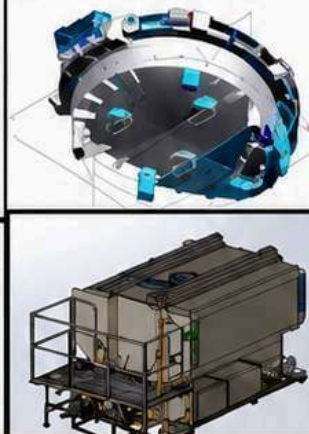
D = Dress (N/mm²)
 E = Modulus (N/mm²)
 L_1 = Initial length (mm)
 L_2 = Final length (mm)

Calculated as per Cl. 8.2 and 8.3 of IS: 800-2007 for limit state of collapse.

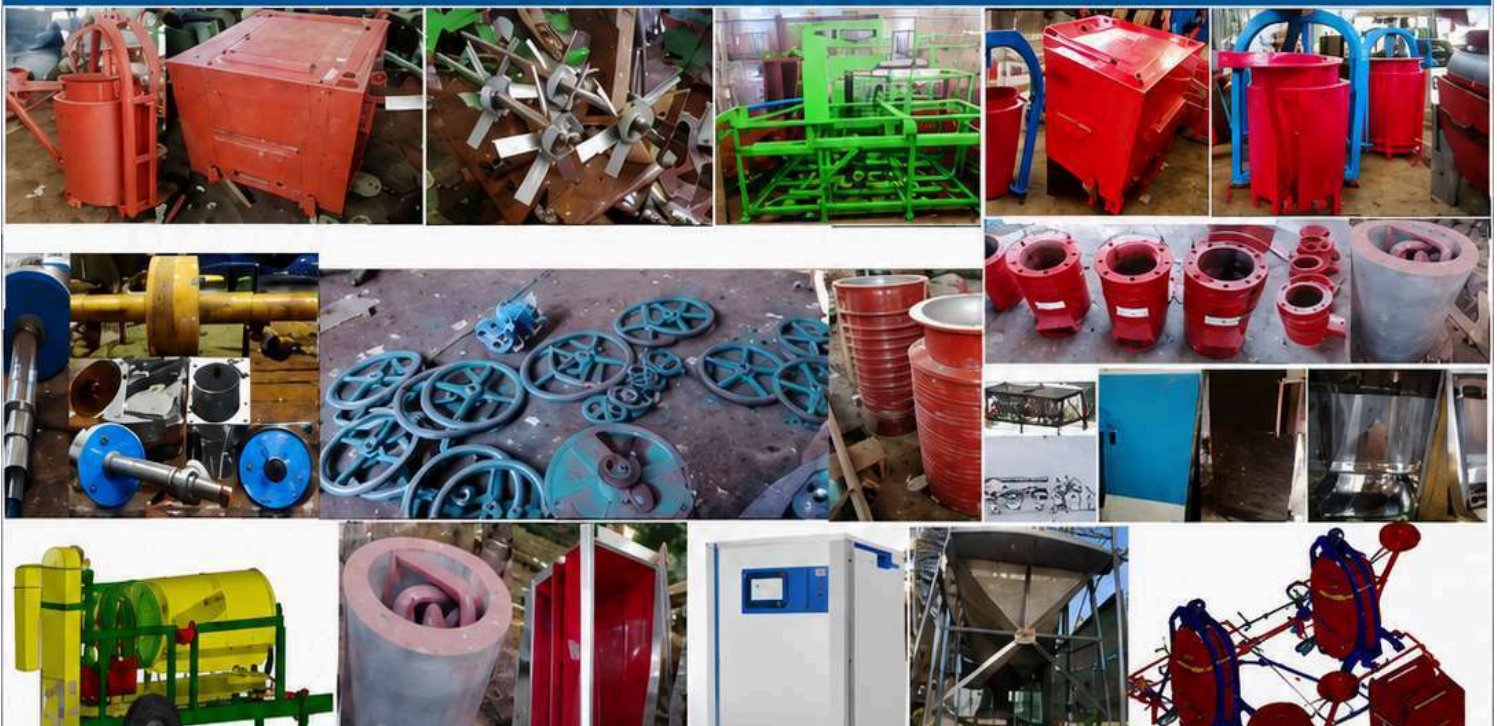
Sectional Stress Analysis Stresses in structural plane - acting over X or Y axis.

$$\sigma = \frac{M \cdot Y}{I}$$

Where, σ = Bending stress at a distance "Y" from neutral axis of Beam (N/mm²)
 M = Bending moment at the section (N-mm)
 I = Moment of inertia of the section (mm⁴)



ENGINEERING PRODUCTS





**KAUSTAV
ENGINEERING**
Mechanical Engineering Solution

FIRE & WASTE MANAGEMENT

FIRE FIGHTING SOLUTIONS

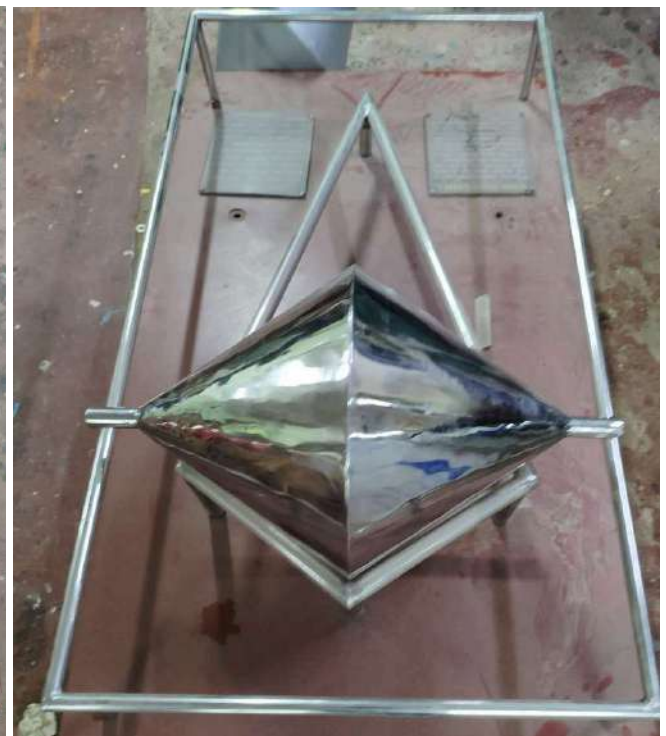
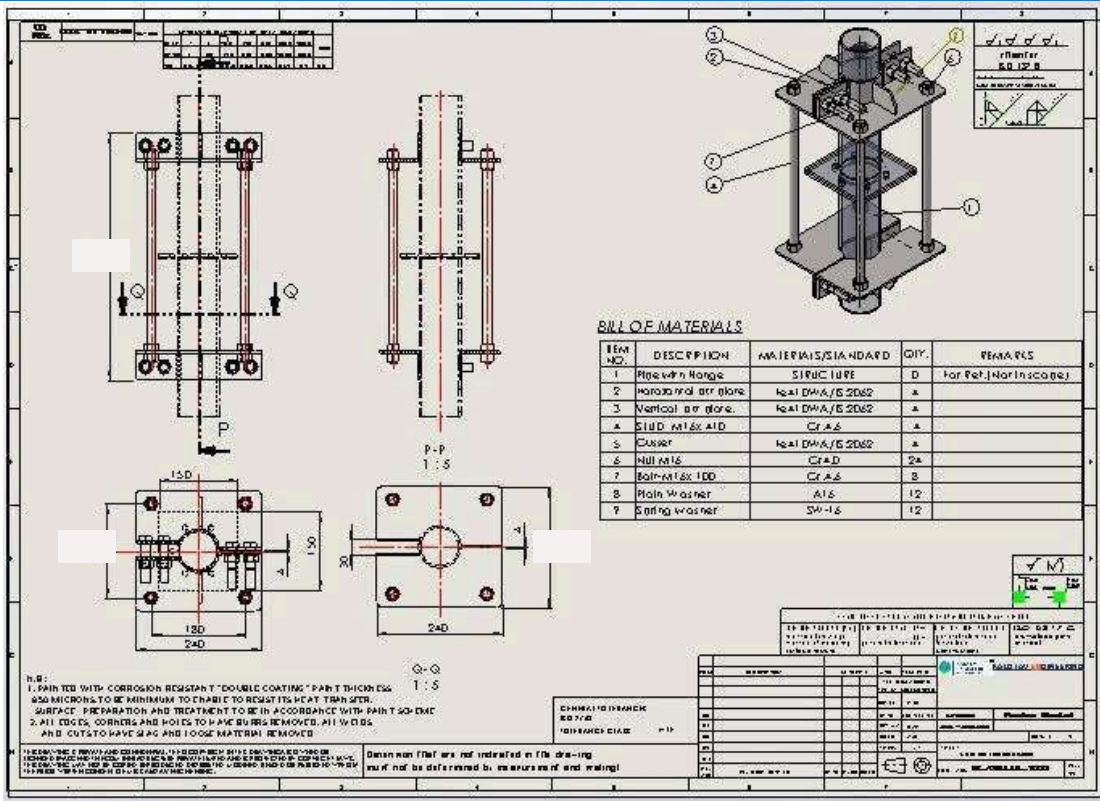
WASTE DUSTBIN



FLOOR TILES SOLUTIONS



ENGINEERING, DESIGN, MODELLING, DRAWINGS & MANUFACTURING SERVICES

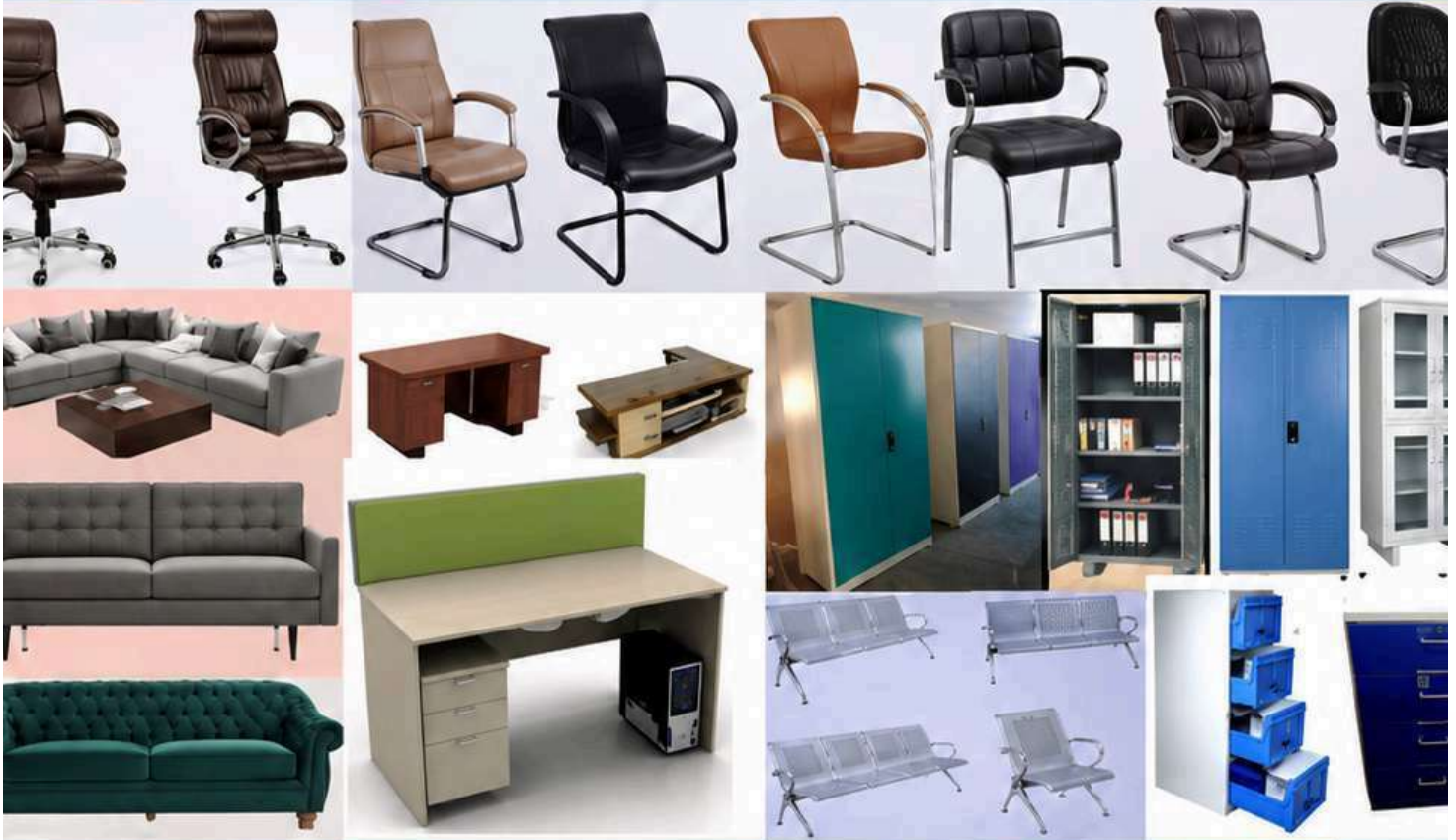




**KAUSTAV
ENGINEERING**
Redefining Office Spaces

SERVICE AND SUPPLY

FURNITURES & PUBLIC SEATINGS



SOLAR, LAB FURNITURE, MEDICAL OT BEDS, MONITORS & FURNITURE



SERVICE AND SUPPLY

KAUSTAV **E**NGINEERING STORAGE SYSTEMs

MEZZANINE FLOORS



Catwalk Storage System



Slotted Angle Mezzanine Floor



SLOTTED ANGLE RACK



SLOTTED ANGLE RACK



Wire Mesh Trolley



Goods Trolley



SERVICE AND SUPPLY KAUSTAV ENGINEERING STORAGE SYSTEMs

CABLE TRAY



Movable Rack



Two-Tier Rack



Bend Tee Reducer



SERVICE AND SUPPLY KAUSTAV ENGINEERING STORAGE SYSTEMs

MULTI TIER RACK



Cantilever Type Rack



PALLETS RACK



PALLETS PLATE



MOBILE RACK



Hand Pallet Truck



Plastic Drawer



Plastic Bins



Bins



Plastic Crate



Dogleg Stair



Bookshelf



**KAUSTAV
ENGINEERING**
Redefining Office Spaces

SERVICE AND SUPPLY

KAUSTAV **ENGINEERING**

SCHOOL/COLLEGE FURNITURES





SERVICE AND SUPPLY

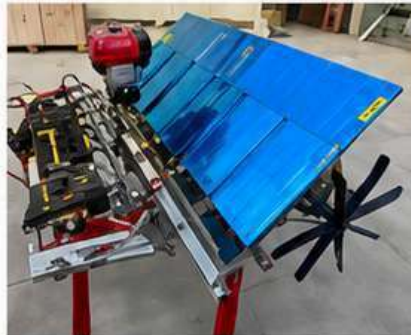
AGRICULTURAL MACHINES



**AGRICULTURE POWER
WEEDER**



PADDY PLANTER



PADDY TRANSPLANTER



POWER TILLER



ROTAVATOR (REAR ENGINE)



CULTIVATOR



WATER PUMP



DELIVERY PIPE



CHAFF CUTTER



**RICE THRESHER
MACHINE**



**AGRICULTURAL
IMPLEMENTS**



**WINNOWING
THRESHING MACHINE**



SPRAYER MACHINE



TRACTOR

SERVICE AND SUPPLY

RESEARCH & SCIENTIFIC INSTRUMENTS



HORIZONTAL AUTOCLAVE



VERTICAL AUTOCLAVE



LABORATORY BOD INCUBATOR



PLANT GROWTH CHAMBER



ROTARY EVAPORATOR



HOT AIR OVEN MODEL



DEEP FREEZER



BIOSAFETY CABINET



PH METER



LABORATORY BOD INCUBATOR



TEST TUBE ROTATOR



WATER TESTING METER

BASIC SCIENTIFIC INSTRUMENTS																	
Distance ▼	Angle ▼	Speed ▼	Temperature ▼	Time ▼	Mass ▼	Area ▼	Sound ▼	Density ▼	Torque ▼	Light ▼	Magnetic ▼						
Ruler	Protractors	Speedometer	Thermocouples	Digital stop-watch	Laboratory balance	Planometer	Audiometer	Densimeter	Torque Wrench	ApicoSCOPE	Declinometer						
Meter Stick	Universal Bevel	Tachometer	Thermistors	Electronic time	Hydrostatic balance			Pycnometer		Densitometer	Magnetometer						
Tape Measure	Spirit Level	Anemometer	Resistance temperature detector		Compact scale 1000g					Refractometer							
Laser Measure	Clinometer	Liquid Flow Meter	Pyrometer		Precision Balance					Spectrophotometer							
Caliper	Sine Bar	Ranger Finder	Langmuir probes														
Wheel Measure	Autocollimators	Infrared thermometer															
Odometer	BATTERY			DIGITAL WEIGHING SCALE			AIR CONDITIONERS										
Feeler Gauge							VOLTUS		1T/1.5T/2T								
Micrometer							LG										
Altimeter							BLUE STARS										
Dial Indicator							TVS										
Dial Bore Gauge							LG		55"/65"/85"/								
Spherometer							SAMSUNG										
Binocular							PANASONIC										
Cathetometer							MI										
							INTERACTIVE PANELS										
							Display Inch		86/-75"/165"								
							Native Resolution		3,840 × 2,160 (UHD)								
							Multi Touch Point		390 / 390 / 390 nit								
							Input		HDMI (3), USB 3.0 (3), USB 2.0 (3), RGB (1), Audio (1), RS-232C (1),								
							Output		Audio (1), Touch USB (2)								

Environment Monitoring Automation Solutions

1.COMPACT WEATHER STATION



2.LIVE REMOTE TEMPERATURE , HUMIDITY MONITORING AND ALERT SYSTEM



3.WEATHER INFORMATION OUTDOOR DISPLAY



4.TEMPERATURE & HUMIDITY SENSOR



5.SOIL MOISTURE SENSOR



6.AIR QUALITY MONITOR (INDOOR)



7.WATER QUALITY METER



8.DIGITAL WATER LEVEL RECORDER



9.WIND SPEED & DIRECTION



10.PYRANOMETER



ACTIVITIES

ALL GEARED MILLING & DRILLING

METAL SHELVES RACK



ACTIVITIES

ACTIVITIES & TRAINING



STATIONARIES, ELECTRICALS & HOUSE KEEPING

STATIONARIES			ELECTRICALS			HOUSE KEEPING		
1	Marker (All Size , Color)	36	Punch (All Size)	1	PVC INSULATED WIRE (All Size)	1	Broom (All Size)	
2	White board & Duster	37	Date / Number Stamp (All Size)	2	CABLE (All Size)	2	Brush (All Size)	
3	Shingle File (All Size , Color)	38	Paper Tray (All Size & Color)	3	CABLE TIE (All Size)	3	Wiper (All Size & Color)	
4	Spring File (All Size , Color)	39	Desk Organizer (All Size)	4	LUTRON (All Size) , MCB , ELCB	4	Dustbin (All Size)	
5	Lever Arch File (All Size , Color)	40	Pen Stand (All Size)	5	CONTACTOR (All Size)	5	Dust Pan	
6	Clip Board (All Size , Color)	41	File Rack (All Size)	6	ON-OFF SWITCH (All Size) (Modular)	6	Toilet Cleaner / Phenyl (All Size)	
7	Spiral Note Book (All Size)	42	Tag (All Size & Color)	7	SELECTOR SWITCH (All Size)	7	Hand Wash (All Size)	
8	Executive Note Book (All Size)	43	Thread / Sutil	8	PUSH BUTTON (All Size)	8	Hand Glove (All Size)	
9	Notepad / Sticky Notes	44	Board Pin (All Size & Color)	9	RELAY (All Size)	9	Tissue Paper / Napkin	
10	Paper (A4, Color Paper etc.) (All Size)	45	Chart Paper (All Size)	10	OVERLOAD RELAY (All Size)	10	Toilet Paper	
11	Photocopy Paper (A3, A4, A5 etc.)	46	White Board Marker (All Color)	11	TIMER (All Size)	11	Paper Napkin (All Size)	
12	Calculator (All Size)	47	Sketch Pen (All Size & Color)	12	AMMETER (All Size) , VOLTMETER	12	Glass Cleaner (All Size)	
13	Pen (Ball, Gel, Roller)	48	Crayon / Oil Pastel (All Size & Color)	14	SIGNAL LAMP (All Size)	13	Floor Cleaner (All Size)	
14	Pencil & Lead	49	Paper Clip (All Size)	14	BUZZER / HORN (All Size)	14	Surface Disinfectant	
15	Highlighter (All Size , Color)	50	Bulldog Clip (All Size & Color)	15	CAPACITOR (All Size)	15	Scrub Pad	
16	Scale (Plastic , Steel) (All Size)	51	Binding Machine	16	CABLE GLAND (All Size)	16	Microfiber Cloth	
17	Stapler (All Size) & Pin / Clip	52	Spiral Binding Machine	17	LUG (All Size)	17	Sponge (All Size)	
18	Staple Remover (All Size)	54	Ink Pad	18	TERMINAL BLOCK (All Size)	18	Mop (All Size)	
19	Paper Punch Machine (All Size)	55	Cartridge (All Printer)	19	FUSE (All Size)	19	Mop Stick (All Size)	
20	Glue (Stick, Fevicol, Liquid)	55	Toner (All Printer)	20	CIRCUIT BREAKER (All Size)	20	Spray Bottle	
21	Scissor (All Size)	56	Ink (All Printer)	21	POWER SUPPLY (All Size)	21	Garbage Bag	
22	Cutter (All Size)	57	Adhesive Notes / Flags	22	SMPS (All Size)	22	Air Freshener	
23	Sellotape (All Size) & Dispenser	59	Cash Memo / Bill Book	23	SENSOR (All Type & All Size)	23	Match Box / Lighter	
24	Double Side Tape	60		24	MCB / DB / PANEL BOARD (All Size)	24	Buckets (All Size)	
25	Envelop (All Size)	61		25	INDUSTRIAL PLUG & SOCKET (All Size)	25	Tissue Roll (All Size)	
26	ID Card Holder with Strap & Card	62		26	FLEXIBLE CONDUIT PIPE (All Size)	26	Plastic Container (All Size)	
27	Writing / Exam Pad (All Size)	63		27	HEAT SHRINK TUBE (All Size)	27	Water Bottle	
28	File Separator (All Size , Color)	64		28	BATTERY (All Size)	28	Tea / Coffee	
29	Folder (All Size , Color)	65		29	TOOLS	29	Disposable Cup / Plate	
30	Rubber Band (All Size) & Clips	66		30	OTHER ACCESSORIES	30	Others	
31	Correction Pen / Fluid	67						
32	Laminating Pouch (All Size)	68						
33	Laminating Machine (All Size)	69						
34	Name Plate (All Size)	70						
35	Paper Bag (All Size)							





PRODUCTS AND SUPPLY

MECHANICAL COMPONENTS

S.O.	MECHANICAL ITEM	BUILDING ITEM	MECHANICAL ITEM	HOUSE HOLD ITEM
1.	BEARING (ALL TYPE)	CP FITTING	V BELT (ALL TYPE)	PLASTIC BASKET
2.	PULLEY (ALL TYPE)	GI PIPE	V BELT PULLEY	DUST PAN, MUG
4.	CHAIN SPROCKET (ALL TYPE)	GATE VALVE	V BELT CLUTCH	PLASTIC BUCKET
4.	COUPLING (ALL TYPE)	S.S. PIPE	RUBBER SHEET	PLASTIC PIPE
5.	ROD END, TEE JOINT	ANGLE	RUBBER ROD	WATER TANK
6.	EYE BOLT, HOOK BOLT	CHANNEL		
7.	NUT, BOLT (ALL TYPE)	C-SECTION	INDUSTRIAL CONSUMABLE ITEM	SAFETY ITEM
8.	STUD (ALL TYPE)	FLAT	CUTTING WHEEL	SAFETY BELT
9.	OIL SEAL, CIRCLIP	SHEET	GRINDING WHEEL	SAFETY SHOES
10.	KEY (ALL TYPE)	GI WIRE	WELDING ROD	SAFETY HELMET
11.	PRECISION LOCK NUT	NAIL	WELDING WIRE	SAFETY HAND GLOVES
12.	TAPER LOCK BUSH (PULLEY)	SAND	PAINT & THINNER	SAFETY GOGGLES
13.	FENNER TAPER LOCK BUSH	CEMENT		EAR PLUG, EAR MUFF
14.	TIMING PULLEY & BUSH	PAINT	INDUSTRIAL & ELECTRICAL ITEM	SAFETY JACKET
15.	MOTOR PULLEY, GEAR & GEAR BOX (ALL TYPE)	COLOR	ELECTRIC MOTOR (ALL TYPE)	FIRE EXTINGUISHER
16.	UCP, UCF,		LED LIGHT	
17.	UCFL, UCT		WIRE & CABLE	
18.	SUCF, SBPFL		PUSH BUTTON & INDICATOR	
19.	HCP		MCB, MCCB, ACB, CONTACTOR, RELAY, OLR	
20.	NUP, N, NJ		DIGITAL METER	
21.	NU, NCF		PANEL BOARD & APFC PANEL	
22.	222, 223		WORK SHOP EQUIPMENT	
23.	230, 231		DRILL MACHINE	
24.	232, 233		GRINDING MACHINE	
25.	320, 322		CUTTING MACHINE & ACCESSORIES	
26.	303, 304		POWER TOOLS & ACCESSORIES	
27.	313, 314		AIR COMPRESSOR	
28.	322, 323			
29.	330, 331			
30.	332, 333			



SPECIAL COMPONENTS



REALTIME TD1D (FP)

FACE & PALM RECOGNITION



Palm Recognition
1000



Face Recognition
2000





**EXCEL
REPORT
DOWNLOAD**

Card Capacity
2000

PIN Capacity
2000

FASTEST RECOGNITION



Face
Recognition



Palm
Recognition



RFID
Card



PIN

Password



Access
Control

www.realtimebiometrics.com

Face with Fingerprint Aadhaar Biometrics

Model : T503F-L1

Face Recognition

Finger Recognition

C Type

TCP/IP

Bluetooth

4G/5G

DC Charging

WiFi

USB Link

GPS

MS 11000000000000000000

BIS Approved Product

AADHAAR

Safety Net Pass

Face With Fingerprint Aadhaar Biometrics
Attendance System



RECENTLY COMPLETED ASSIGNMENTS



**Creality 3D XL
High Speed 3**



**Cryogenic Liquid Nitrogen
Container**



**RPE 20KVA ONLINE
UPS**



**MOTORISED TILT TABLE
(HEIGHT ADJUSTABLE)**



**PARALLEL WALKING
BAR**



SURGICAL SCRUB BIN



**36-LTRS HORIZONTAL
CYLINDRICAL AUTOCLAVE**



AT FABRICATION WORKSHOP

CLIENTELE



INDIAN EXPLOSIVE LIMITED, JHARKHAND



ICAR-CIFRI, KOLKATA



JBFS, KOLKATA



GREENVIROMENTAL GLOBAL, KOLKATA



ASSAM AGRICULTURE UNIVERSITY,
JORHAT



MECON LIMITED, RANCHI,
JHARKHAND



KAZIRANGA UNIVERSITY, JORHAT



INSTITUTE OF ADVANCED STUDIES OF SCIENCE AND
TECHNOLOGY (IASST, GUWAHATI)



INDIA METROLOGICAL DEPARTMENT



ALL INDIA INSTITUTE OF MEDICAL
SCIENCE, GUWAHATI



TEZPUR UNIVERSITY, TEZPUR



TEA BOARD OF INDIA, GUWAHATI



IIT, GUWAHATI, ASSAM



JORHAT ENGINEERING COLLEGE, JORHAT



NUMALIGARH REFINERY LIMITED, GUWAHATI



NATIONAL INSTITUTE OF
TECHNOLOGY, MEGHALAYA



SPORTS AUTHORITY OF INDIA



BRAHMAPUTRA CRACKER AND
POLYMER LIMITED



GAUHATI UNIVERSITY



AIRPORTS AUTHORITY OF INDIA



INSTITUTE FOR PLASMA RESEARCH



NORTH EAST DISTILLERIES
PRIVATE LIMITED



CENTRAL MUGA ERII RESEARCH RESEARCH
AND TRAINING INSTITUTE



KRISHNA KANTA HANDIQUI STATE OPEN
UNIVERSITY



ASCEND TELECOM INFRASTRUCTURE
PRIVATE LIMITED



ASSAM SCIENCE AND TECHNOLOGY
UNIVERSITY ...



Certificate of Registration

This is to certify that

M/S KAUSTAV ENGINEERING

HOUSE NO 3, 2ND FLOOR, NEAR SANSKRIT COLLEGE ROAD & RADISSON BLUE HOTEL,
GOTANAGAR, JALUKBARI, GUWAHATI – 781014 INDIA

*has been independently assessed by IAB accreditation and is compliance
with the requirement of the standard*

ISO 9001:2015

Quality Management System

For the following scope of activities

ENGINEERING, DESIGN, CONSULTANCY, MANUFACTURING AND TRADING

Certificate Number: US-ENGR-26-36936939

To verify this certificate please visit at www.uscertifications.in

Date of Certification
Issuance Date
1st Surveillance Due
2nd Surveillance Due
Re-Certificate Due

20TH MAY 2026
20TH MAY 2026
19TH MAY 2027
19TH MAY 2028
19TH MAY 2029



Authorized Signatory



CAB Address : Merry Terrace Working, London FU21 3EH UK Validity of this certificate is subject to annual surveillance audits to be done successfully This certificate is the property of U.S. Certification and shall be returned immediately on request U.S. Certification is an independent Systems Products and Personal assessment Body, U.S. Certification is a accredited by IABCERT.NU



UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER

UDYAM-WB-10-0004985

NAME OF ENTERPRISE

KAUSTAV ENGINEERING

TYPE OF ENTERPRISE *

MICRO (Based on FY 2020-21)
(MICRO During FY 2019-20)

MAJOR ACTIVITY

TRADING
[For availing benefits of Priority Sector Lending(PSL) ONLY]

SOCIAL CATEGORY OF
ENTREPRENEUR

OBC

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	kaustav engineering

OFFICAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	704/1,	Name of Premises/ Building	Anjana apartment
Village/Town	Jogendra garden	Block	--
Road/Street/Lane	-	City	Kolkata
State	WEST BENGAL	District	KOLKOTA , Pin 700078
Mobile	9831072858	Email:	senapoti.nitul@gmail.com

DATE OF INCORPORATION /
REGISTRATION OF ENTERPRISE

01/01/2018

DATE OF COMMENCEMENT OF
PRODUCTION/BUSINESS

01/01/2018

NATIONAL INDUSTRY
CLASSIFICATION CODE(S)

SN0.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	25 - Manufacture of fabricated metal products, except machinery and equipment	2511 - Manufacture of structural metal products	25113 - Manufacture of industrial frameworks in metal (frameworks for blast furnaces, lifting and handling equipment etc.)	Manufacturing
2	28 - Manufacture of machinery and	2829 - Manufacture of other special-purpose machinery	28299 - Manufacture of other special-	Manufacturing

CONTACT US:

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2nd Floor Jogendra Gardens Road,
Kasba, Kolkata 700078
West Bengal, India
Mobile :9831072858 / 9836353450**

**Branch Office: M/S Kaustav Engineering
H.No-3, 2nd Floor, Sanskrit College Road,
Near Raddision Blu Hotel, Gota Nagar, Jalukbari
Guwahati, Kamrup ,Assam-781014**

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kaustavmachine20@gmail.com
www.kaustavengineering.com**

**GSTN: 19BKHPS3316PIZH
MSME: UDYAM-WB-0004985
ISO 9001:2015: US-ENGR-26-36936939**

Certified by :



GeM
Government
e Marketplace



**OUR SISTER CONCERNS ARE:
TIMSI PHARMA INDIA PVT LTD.
KRB FORTUNE TRADE**