SPECIAL PURPOSE MACHINES · RESEARCH & DEVELOPMENT

SPM · R&D & LIGHT FABRICATION

DESIGN · DEVELOPMENT · MANUFACTURING

ASL INFRA PROJECTS

FOUNDED

2022

A merger of **S.S. Fabrication** & **M.S. Enterprise**

aslinfraprojects01@gmail.com

ABOUT US

ABOUT ASL INFRA PROJECTS

ASL Infra Projects was founded in 2022 through the merger of two well-experienced group companies. Today, ASL focuses on special purpose machines (SPM), research & development and light fabrication.

GROUP COMPANY · SINCE
1992
S.S. FABRICATION

+

GROUP COMPANY · SINCE
2016
M.S. ENTERPRISE

→

FOUNDED
2022
ASL INFRA PROJECTS



We provide products with power efficiency well above our competitors, contributing to our customers' and the nation's development.

As leaders in the industrial and commercial segment, we are on a never-ending quest towards clean and continuous power for all.

OUR PRODUCTS

01 Special Purpose Machines	02 Toy Trains (CNG / LPG)
03 Hydraulic Step Ladders	04 Telescopic Conveyors
05 Lighting Towers	06 DG Canopies
07 Electric Panels	08 Dryer Bodies
09 Portable Container Houses	10 Iron Press Machines

SPM · R&D · LIGHT FABRICATION

WHAT WE DO

We design, develop and manufacture special purpose machines and light fabrication products, all under one roof in Vatva, Ahmedabad.

01



SPM

SPECIAL PURPOSE MACHINES

Custom machines designed and built around each customer's application, load and speed requirements.

- Hydraulic Step Ladders
- Telescopic Conveyors
- Lighting Towers
- Ground Handling Equipment
- Iron Press Machines
- Customized Amusement Rides

02



R&D

RESEARCH & DEVELOPMENT

In-house design and development, from 3D design to prototype and production, including India's first CNG / LPG toy train.

- Maharana Pratap Express (CNG / LPG)
- 3D Design Models
- Design to Customer Requirements
- Prototype to Production

03



LF

LIGHT FABRICATION

All types of light fabrication and sheet metal work, cut, bent, fabricated and powder coated in-house.

- CNC Laser Cutting
- CNC Bending
- DG Canopies
- Portable Container Houses
- Machine Guards
- Electric Panel Boxes
- Architectural Metalwork

SELECTED PROJECTS

AVIATION GSE
AIR INDIA AIRPORT SERVICES LTD.
Hydraulic Step Ladder

CNG / LPG TOY TRAIN
MRS GROUP, UDAIPUR
Maharana Pratap Express

2021-22
AIR INDIA / BIRDGSEC
Trolley & Conveyor Project

DG CANOPY
RADIANT POWER PROJECTS
250 KVA Volvo Eicher Canopy

DG CANOPY
ARAK POWER & ENERGY
250 KVA Cooper Corp. Canopy

WHAT DRIVES US

MISSION & VISION

MISSION

To create a team that works on diversified products in the field of industrial projects, meeting customer requirements across the globe.

VISION

To be a recognised performance leader in industrial projects through excellence in quality products, design, manufacturing and service — thereby achieving customer satisfaction.

EXCELLENCE IN

01 QUALITY PRODUCTS

02 DESIGN

03 MANUFACTURING

04 SERVICE



ACHIEVING CUSTOMER SATISFACTION

INDUSTRIES WE SERVE

APPLICATIONS

Our special purpose machines and light fabrication products support industrial projects across these sectors.

01



PROCESSING

INDUSTRIES

02



PLASTIC

INDUSTRIES

03



LASER

INDUSTRIES

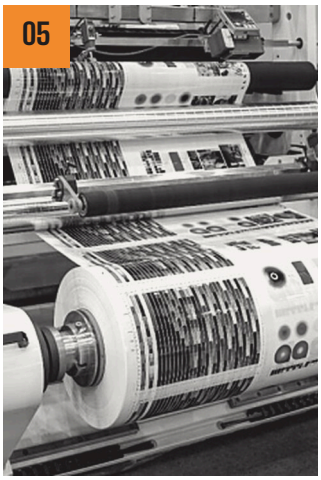
04



PHARMACEUTICAL

INDUSTRIES

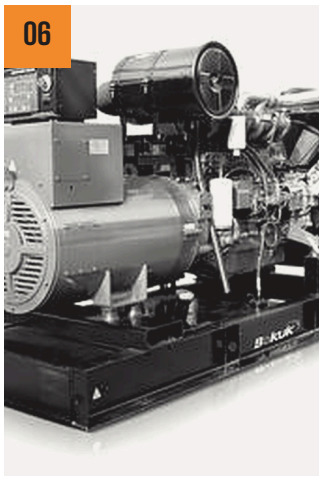
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PRINTING

INDUSTRIES

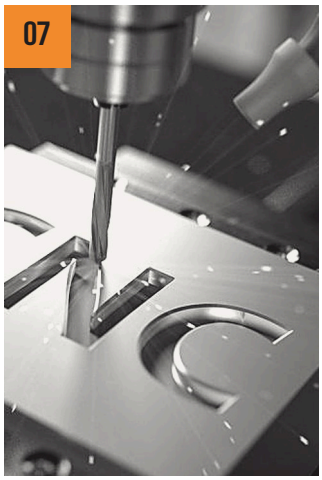
06



POWER GENERATION

INDUSTRIES

07



MACHINE

INDUSTRIES

BUILT FOR EVERY SECTOR

SPM
R&D
LIGHT
FABRICATION

DESIGN · DEVELOP · DELIVER

RESEARCH & DEVELOPMENT

New products are developed in-house, taken from concept and 3D design through to a working prototype and production.

01

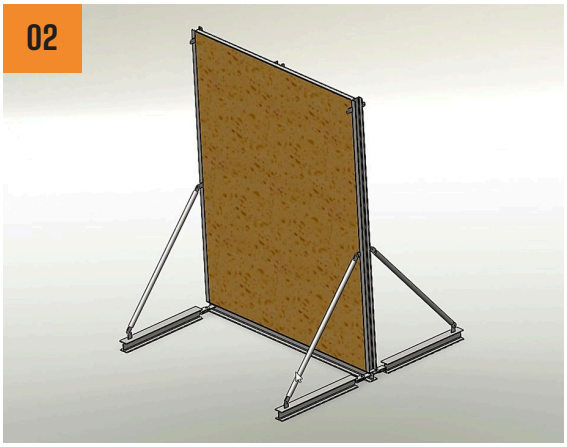


INDIA'S FIRST TOY TRAIN RUNNING ON CNG / LPG

MAHARANA PRATAP EXPRESS

Designed, fabricated and tested in-house — a 150-passenger heritage-style locomotive and coaches for MRS Group, Gulab Bagh, Udaipur.

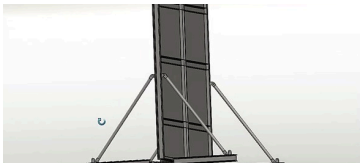
02



3D DESIGN MODEL WITH FOLDING SUPPORT FRAME

SOUND PROOF WALL PANEL

Panel, frame and support struts modelled in 3D. The struts fold against the panel so it can be moved and stored flat.





3D MODEL · SUPPORT FRAME · STRUTS FOLDED FLAT

03



CUSTOMISED TO REQUIRED WEIGHT AND SPEED

TELESCOPIC CONVEYOR

Configured around each customer's load, speed and loading-bay requirements, from 3-stage and 4-stage model ranges.



R&D · CLIENT PROJECT

MAHARANA PRATAP EXPRESS

PASSENGERS
150
Capacity

FUEL
CNG / LPG
Gas-powered drive

IN INDIA
1ST
CNG / LPG toy train

CLIENT
MRS GROUP

LOCATION
GULAB BAGH, UDAIPUR

MANUFACTURED BY
S.S. Fabrication & ASL Infra Projects

HIGHLIGHTS

- India's first toy train running on CNG / LPG, a milestone in recreational rail engineering.
- Designed, fabricated and tested entirely in-house.
- Ornate heritage locomotive design with passenger safety systems.
- Built for a capacity of 150 passengers.

MAHARANA PRATAP EXPRESS

DRIVE & TRANSMISSION

A gas generator powers an electric motor and hydraulic pump, driving the wheels through hydraulic motors.



01 IN SERVICE · GULAB BAGH



02 LOCOMOTIVE

COMPLETE TRANSMISSION FLOW

GAS GENERATOR → ELECTRIC MOTOR → HYDRAULIC PUMP → HYDRAULIC MOTOR → DRIVE WHEELS

PARTICULAR	SPECIFICATION
Engine	Kirloskar / Mahindra / Ashok Leyland
Engine Capacity	64 HP
Fuel	Gas — LPG / CNG / PNG
Fuel Consumption	15 kg / hr
Electric Motor	Crompton Greaves / Kirloskar
Transmission	Hydrostatic drive — 1 hydraulic pump, 2 hydraulic motors
Brakes	Pneumatic / Electric
Features	Music system · Speaker · Lights · Emergency stop

WE ALSO BUILD · CUSTOMISED AMUSEMENT RIDES

01 JOY TRAINS | 02 BOAT HOTEL | 03 HOUSE | 04 ALL TYPES OF RIDES



01 HYDRAULIC STEP LADDER · SIDE ELEVATION

AVIATION GROUND SUPPORT · CLIENT PROJECT

HYDRAULIC STEP LADDER

CLIENT

AIR INDIA AIRPORT SERVICES LIMITED

BUILT TO DGCA & AIRPORT SAFETY STANDARDS

01 HYDRAULIC LIFT

Precision hydraulic raising and lowering, with robust cylinders to suit multiple aircraft door heights.

02 WEATHERPROOF CANOPY

Covered passenger tunnel with tinted canopy panels and LED lighting.

03 SAFETY RAILS

Full perimeter guarding, handrails and anti-slip chequered-plate steps.

04 MOBILE CHASSIS

Towable chassis with manual screw-jack stabilisers for a secure stand on the apron.

BUILT FOR PASSENGER BOARDING

DESIGN DETAILS

A covered, lit boarding stair on a towable hydraulic chassis, fabricated and finished in-house.



01 OPPOSITE SIDE ELEVATION



02 COVERED TUNNEL · LED LIGHTS



03 ANTI-SLIP STEPS

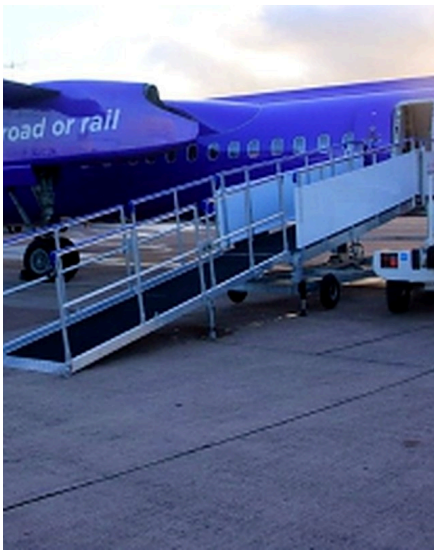


04 HYDRAULIC LIFT & CHASSIS

GROUND HANDLING EQUIPMENT

AIR INDIA PROJECT

Client reference: **Air India / BIRDGSEC** — Trolley and Conveyor Project, 2021–22.



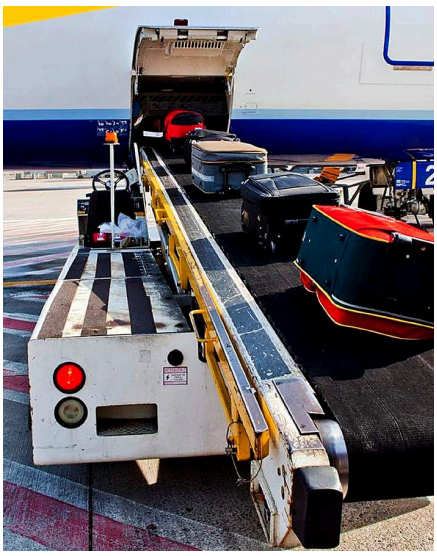
GSE 01
TOWABLE MINI RAMP



GSE 02
TOWABLE STEPLADDER



GSE 03
BAGGAGE TROLLEY



GSE 04
BULK FREIGHT LOADER



GSE 05
GALVANIZED BAGGAGE TROLLEY



GSE 06
CONTAINER DOLLY

MATERIAL HANDLING

TELESCOPIC CONVEYOR

KEY BENEFITS

01 HIGHER WORKING SPEED

02 LOW ENERGY CONSUMPTION

03 LOW MAINTENANCE COST



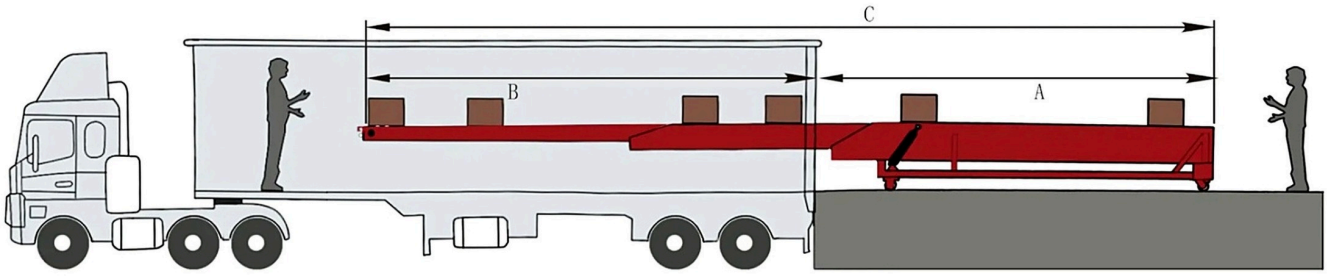
01 TELESCOPIC BELT CONVEYOR

We design customised telescopic belt conveyors to your required weight and speed — improving both productivity and the working environment.

An effective, ergonomic alternative to labour-intensive routines, a telescopic belt conveyor can load and unload any type of loose-loaded cargo: parcels, boxes, bags, loose items, sacks, tyres and many other materials.

BELT SPEED	30 M / MIN
EXTENDS UP TO	15 M
EMERGENCY STOPS	3 POSITIONS

TRUCK LOADING & UNLOADING · A FIXED LENGTH · B EXTENSION · C TOTAL LENGTH



TELESCOPIC CONVEYOR

FEATURES & BENEFITS

Built for safe, fast and ergonomic loading of trucks and containers.



01 EXTENDED



02 RETRACTED

FEATURES

01 CAN BE CUSTOMISED AS PER APPLICATION

02 MAXIMUM SAFETY CONSIDERED

03 SIDE PANEL & BOOM SUPPORT

04 BELT SPEED 30 M PER MINUTE

05 EXTENDS UP TO 15 M

06 PUSH-BUTTON CONTROLS

07 IDEAL FOR BOXES, BAGS, TOTES & LOOSE ITEMS

08 REVERSIBLE BELT DIRECTION

09 FRONT LED LIGHTING AS STANDARD

10 EMERGENCY STOPS IN THREE POSITIONS

11 SOFT-START MOTOR & BELT

12 VARIETY OF MODELS & OPTIONS AVAILABLE

TELESCOPIC CONVEYOR BENEFITS

01
SAVES HUMAN EFFORT BY MINIMISING MANUAL HANDLING

02
SAVES TIME

03
LOW ENERGY COST

04
DESIGNED FOR SAFETY & EASY OPERATION

TELESCOPIC BELT CONVEYOR

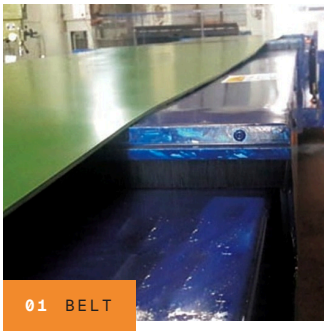
TECHNICAL SPECIFICATION

TOTAL LENGTH

10,800 MM

4,800 FIXED + 6,000 TELESCOPIC

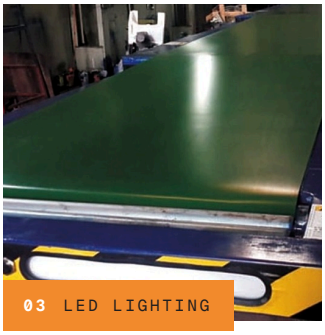
NO.	PARTICULAR	SPECIFICATION
01	**Material to be Handled**	Boxes
02	**Weight of Box / Bag**	40 kg maximum
03	**Size of Box / Bag**	600 (L) × 300 (W) × 400 (H) mm overall
04	**Temperature**	Ambient
05	**Capacity**	550 boxes per hour
06	**Type**	Collapsible boom-type hinged telescopic belt conveyor
07	**Design Capacity**	600 per hour
08	**Size of Belt**	600 mm width
09	**Type of Belt**	Smooth top, 2-ply, PVC-coated endless type
10	**Length of Conveyor**	Fixed length: 4,800 mm · Telescopic (expanded): 6,000 mm · **Total: 10,800 mm**
11	**Main Body of Conveyor**	Manufactured from 6 mm thick IS 226 plate material
12	**Snub Pulley**	Precision machined from 3-inch OD Schedule 40 pipe, with inverted bearing fitted
13	**Drive Pulley**	Manufactured from 8-inch ID Schedule 40 pipe, with rubber lagging & herringbone surface
14	**Telescopic Movement**	Mechanical arrangement (“Diamond” make chain)
15	**Mounting**	Fixed MS chassis mounted on fabricated frame, with fixed and castor wheels and manual towing bar
16	**Height Adjustment**	2 HP power pack & cylinder for height adjustment (“Rexroth” parts), ABB motor
17	**Panel**	Fixed main panel on rear side; front operating panel with emergency stop sensor bar, LED lighting and fully concealed wiring
18	**Painting**	Internal: two coats of epoxy red oxide & white paint · External: two coats of primer & two coats of high-gloss Duco paint



01 BELT



02 DRIVE HOUSING



03 LED LIGHTING



04 OPERATING PANEL

3-STAGE & 4-STAGE

MODEL LIST







COMMON TO ALL MODELS

BELT WIDTH	LOAD CAPACITY	BELT SPEED	EXTEND SPEED
600 / 800 MM	50 KG/M	15–30 M/MIN	10 M/MIN

MODEL NO.	A FIXED	B EXTENSION	C TOTAL	A + B (SCALE 0-21 M)	HEIGHT
3 STAGES HEIGHT 850-1100 MM					
CPBC-3S-4/5.4	4 m	5.4 m	9.4 M		850–1100 mm
CPBC-3S-4.5/6	4.5 m	6 m	10.5 M		850–1100 mm
CPBC-3S-5/7	5 m	7 m	12 M		850–1100 mm
CPBC-3S-5.4/7.3	5.4 m	7.3 m	12.7 M		850–1100 mm
CPBC-3S-6/8.5	6 m	8 m	14 M		850–1100 mm
CPBC-3S-6.5/9.4	6.5 m	9.4 m	15.9 M		850–1100 mm
CPBC-3S-7/9.6	7 m	9.6 m	16.6 M		850–1100 mm
4 STAGES HEIGHT 950-1200 MM					
CPBC-4S-4/7	4 m	7 m	11 M		950–1200 mm
CPBC-4S-4.5/8.5	4.5 m	8.5 m	13 M		950–1200 mm
CPBC-4S-5/9.5	5 m	9.5 m	14.5 M		950–1200 mm
CPBC-4S-5.4/10.3	5.4 m	10.3 m	15.7 M		950–1200 mm
CPBC-4S-6/12	6 m	12 m	18 M		950–1200 mm
CPBC-4S-6.5/12.8	6.5 m	12.8 m	19.3 M		950–1200 mm
CPBC-4S-7/14	7 m	14 m	21 M		950–1200 mm

MOBILE LIGHTING

LIGHTING TOWERS

Trailer-mounted lighting towers with telescopic mast, hand winch and stabiliser legs — fabricated at our works.

MODEL

5 KVA

LIGHTING TOWER



01 LIGHTING TOWERS · WORKSHOP



02 MAST EXTENDED



03 5 KVA LIGHTING TOWER

BUILT IN-HOUSE

- TELESCOPIC MAST
- HAND WINCH
- TRAILER CHASSIS
- STABILISER LEGS
- GENSET ENCLOSURE

ENQUIRIES

+91 99786 46185

SPECIAL PURPOSE MACHINES

MACHINE BUILDS

Machine frames, bodies and trailer assemblies, fabricated, assembled and finished in-house.



01 MACHINE BODIES



02 LIGHTING TOWER TRAILER

BUILT IN-HOUSE

FROM CHASSIS TO FINISHED MACHINE

- Trailer chassis with telescopic mast
- Genset mounting & hand winch
- Machine bodies with hoppers
- Painted & powder-coated finish

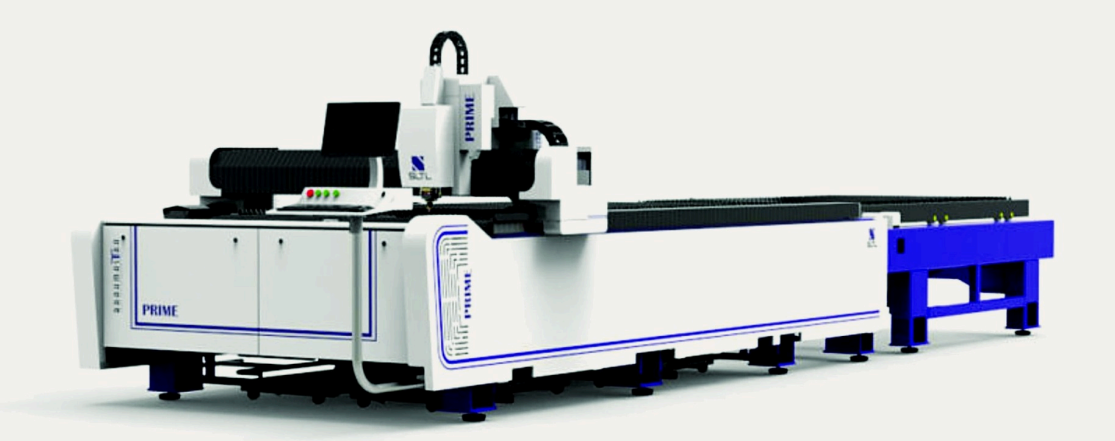
SLTL · BRAHMASTRA MODEL

LASER CUTTING MACHINE

MAXIMUM WORKING CAPACITY

2500 × 6500

MILLIMETRES



01 SLTL BRAHMASTRA

Auto focusing. The machine automatically adjusts the focus to the most suitable position when processing different materials and thicknesses.

Intelligent operation. Equipped with an intelligent vault, cutting becomes a fast and easy routine.

Anti-collision. The anti-collision mechanism — snip, sew and parabolic leap — minimises non-productive time caused by parts tipping over when cutting thin sheet metal, keeping the machine permanently productive.

MATERIAL	SCALE 0-20 MM	THICKNESS
Mild Steel MS		20 MM
Stainless Steel 02		10 MM
Stainless Steel N2		8 MM
Aluminium AL		8 MM
Brass BR		6 MM
Copper CU		5 MM
Galvanized Iron GI		3 MM

KEY FEATURES

01 MIL-Grade Aluminium Gantry

02 High-End 64-Bit CNC Controller

03 20 ns High-Speed I/O

04 Intelligent Chiller–Laser Handshake

05 Optimised Nesting Software

06 Bend Line & Part Number Marking

07 Common Cut / Fly Cut

08 Single Lens Mechanism

09 Auto Sheet Orientation

PRECISION CUTTING & FORMING

OTHER MACHINES



01 LASER CUTTING · MEHTA

LASER CUTTING MACHINE

MEHTA

01 Precision Cutting

02 Laser Marking

03 Adjustable Speed Cutting

04 High Skilled Operator

05 Regular Maintenance of Machine

CNC SHEET BENDING MACHINE

ENERGY MISSION

01 Precision Bending

02 With Correction of Degree

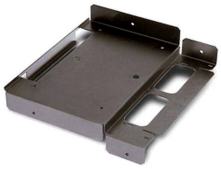
03 Bending Length: 4 Meter

04 High Skilled Operator

05 Regular Maintenance of Machine



02 CNC BENDING · ENERGY MISSION





4 M BENDING LENGTH

SHEET METAL & ENCLOSURES

LIGHT FABRICATION



01 DIESEL GENERATOR CANOPY



02 · ELECTRIC PANEL



03 · ELECTRIC PANEL



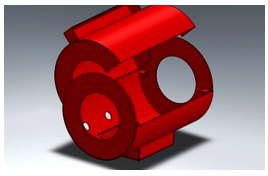
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05



06



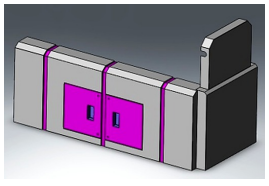
07



08



09



10

ALL TYPES OF LIGHT FABRICATION & MANUFACTURING EXPERTS

LIGHT FABRICATION SOLUTION / CNC LASER CUTTING / CNC BENDING / CANOPIES / MACHINE GUARDS / DISPLAY STAND / ELECTRIC PANEL BOXES / SHEET METAL FABRICATION / CUSTOM METAL ENCLOSURES

CLIENT PROJECTS

DG CANOPIES

Diesel generator canopies, fabricated, powder coated and finished to each client's genset.



01

250 KVA

CLIENT

RADIANT POWER PROJECTS

PRODUCT

250 KVA VOLVO EICHER CANOPY



02

250 KVA

CLIENT

ARAK POWER AND ENERGY PVT. LTD.

PRODUCT

250 KVA COOPER CORP. CANOPY

ALL TYPES OF LIGHT FABRICATION & MANUFACTURING EXPERTS

LIGHT FABRICATION SOLUTION | CNC LASER CUTTING | CNC BENDING | CANOPIES | MACHINE GUARDS

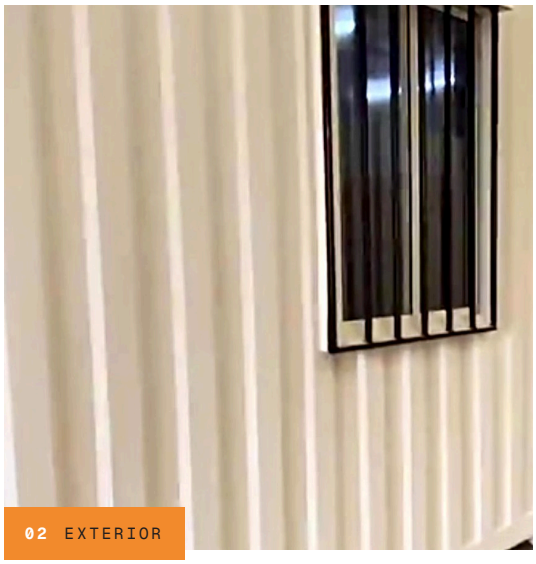
DISPLAY STAND | ELECTRIC PANEL BOXES | SHEET METAL FABRICATION | CUSTOM METAL ENCLOSURES

LIGHT FABRICATION · PORTABLE LIVING

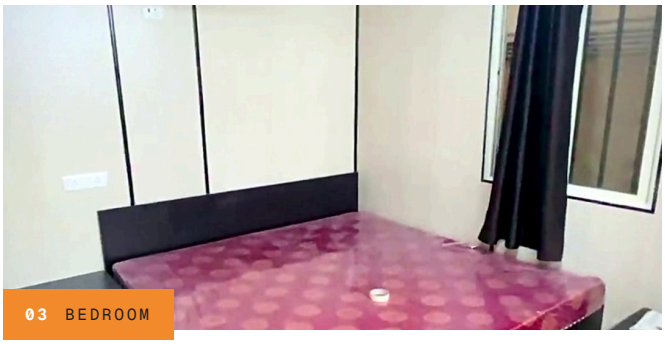
PORTABLE CONTAINER HOUSE



01 ON TRAILER FOR DISPATCH



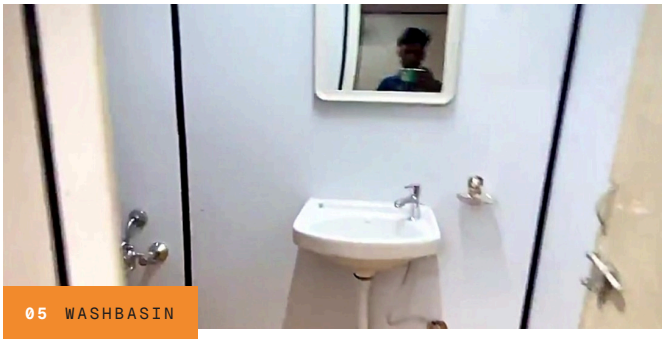
02 EXTERIOR



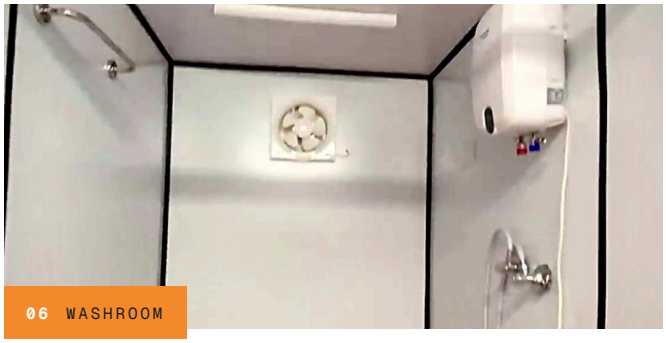
03 BEDROOM



04 WARDROBE & ROOM



05 WASHBASIN



06 WASHROOM

- Insulated wall panels with windows & doors
- Attached washroom with geyser & exhaust fan
- Furnished bedroom with wardrobe
- Lighting & electrical fittings
- Transportable by trailer

NOISE CONTROL SOLUTION

SOUND PROOF WALL PANEL

NOISE CONTROL.
DURABLE BUILD.
TRUSTED BY INDUSTRY.



01 SITE INSTALLATION



02 STEEL FRAME PANELS

KEY FEATURES

- HIGH-PERFORMANCE ACOUSTIC INSULATION
- RUGGED STEEL FRAME CONSTRUCTION
- MODULAR & EASY TO INSTALL ON-SITE
- WEATHER-RESISTANT & DURABLE BUILD



03 PANEL DETAIL

IDEAL FOR

01 OIL & GAS

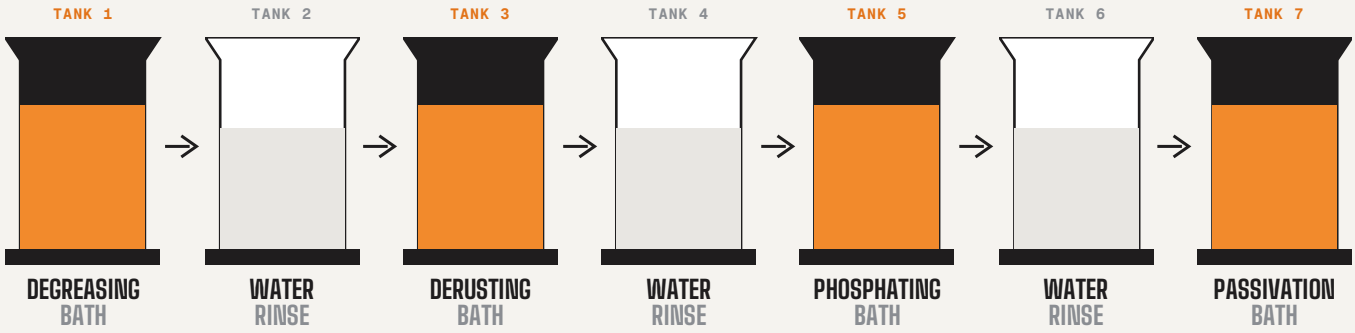
02 INFRASTRUCTURE

03 HEAVY INDUSTRIES

SURFACE TREATMENT

POWDER COATING

Seven (or eight) stage pre-treatment for zinc / iron phosphate before powder coating.



TREATMENT STAGES

01 DEGREASING

02 WATER RINSE

03 DERUSTING

04 WATER RINSE

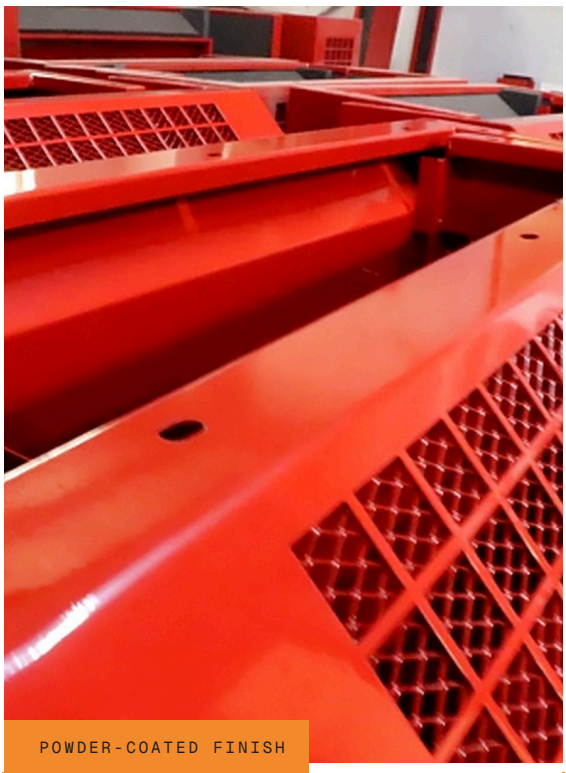
05 ACTIVATION
Gives a more compact and uniform coating of zinc phosphate. This step can be omitted for the iron phosphate process.

06 PHOSPHATING
Forms a coating of zinc phosphate (4 to 6 microns) or iron phosphate (1 to 1.5 microns) on the clean surface of M.S.

07 WATER RINSE

08 PASSIVATION
Seals the pores of the phosphating.

09 DRYING



POWDER-COATED FINISH

DURABLE, UNIFORM FINISH ON FABRICATED M.S. COMPONENTS



LIGHT FABRICATION · INTERIORS

ARCHITECTURAL METALWORK

01
DECORATIVE STEEL TREES
Radial rib canopies on steel columns

02
STEEL PLANTERS
Fabricated planter boxes

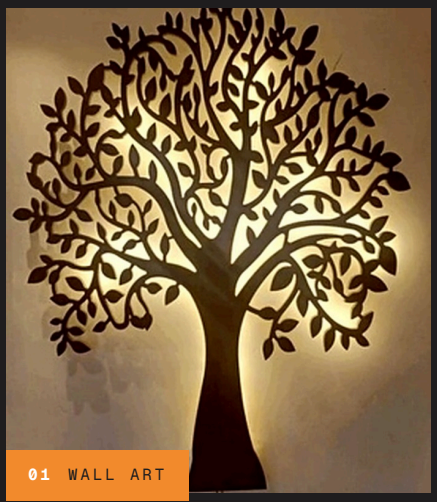
03
ATRIUM FEATURES
Custom pieces for commercial interiors

Decorative steel tree structures and planters, fabricated and installed in a commercial atrium.

LASER-CUT DÉCOR

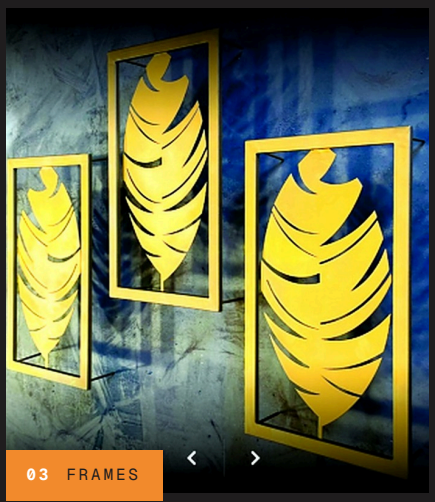
INTERIOR DESIGN & GIFT ART

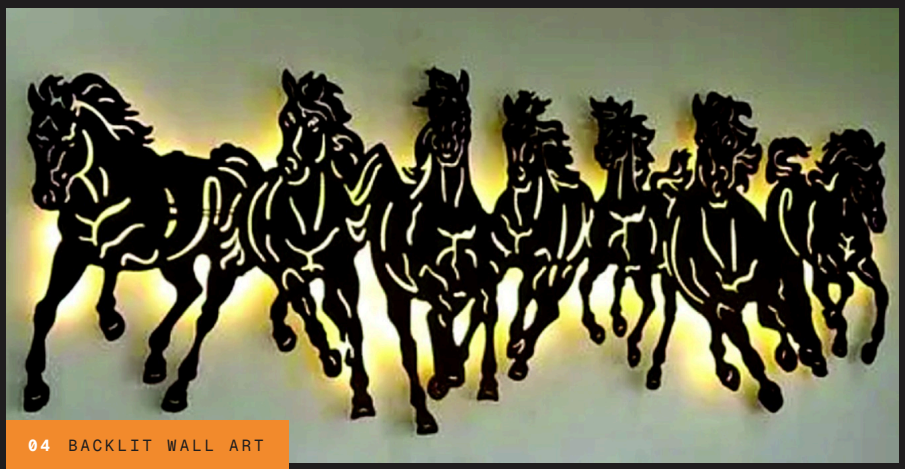
Precision laser-cut wall art, name plates, clocks, panels and personalised gifts.

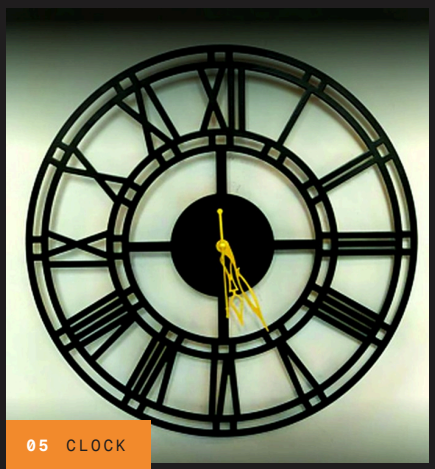

01 WALL ART



02 NAME PLATES


03 FRAMES


04 BACKLIT WALL ART


05 CLOCK


06 PANEL


07 KEYCHAIN

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S.S. FABRICATION / M.S. ENTERPRISE

CONTACT

01 **SAMSUDDIN LUHAR** +91 98254 46185

02 **SAMIR LUHAR** +91 99786 46185

EMAIL

aslinfraprojects01@gmail.com

GSTN

24ARMPL7251K1ZF

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