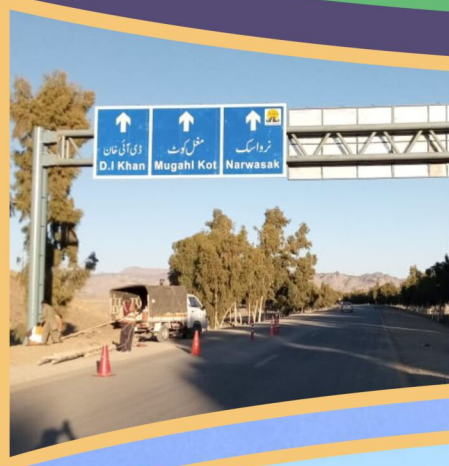




# Munir Industry

PVT. Ltd.

Manufacturer of Light Poles & Guard Rails



ISO 9001:2015  
Quality Management Systems

ISO 14001:2015  
Environmental Management System



Product Guide

# Chairman's Message

As chairman of **Munir Industry**, I see myself as a **Global Pakistani Entrepreneur**, who wants to build great companies, willing to push forward to develop new concepts and engage in multiple aspects of creating, launching and growing the Munir Industry portfolio. Looking back on our past footsteps, I strongly believe that each trial and error, as well as each achievement and triumph, has served as a solid cornerstone upon which Munir Industry now stands, and prepared for a greater march forward.

**Munir Industry** brings dedication, commitment, and innovation to our clients that exceed their expectations for service, quality, and value. We strive to build and maintain strong long-term relationships with our clients, staffs and communities – based on trust, integrity and respect.

Munir Industry's project approach is always to be timely, reliable, client-focused and “On Time, On Scope, and On Budget”. Munir Industry is proud of its esteemed record of meeting or exceeding our client's expectations for every single project we perform. Our expertise and consistent delivery has resulted in a high percentage of projects being repeat work with longstanding clients. Our key values include:

- ❖ Client first
- ❖ Ethics, integrity, transparency and honesty
- ❖ Professionalism
- ❖ Innovation
- ❖ Performance excellence
- ❖ Teamwork
- ❖ Sustainability
- ❖ Safety
- ❖ Environment

As we move forward, Munir Industry will continue to focus on finding innovative, progressive ways to build and maintain our public infrastructure in order to support growth and contribute to National prosperity now and for future generations.

***Haji Munir Ahmad***

Founder, Chairman & CEO  
Munir Industry

**MUNIR INDUSTRY** established since 1998. Which is an ISO certified company based in Lahore Pakistan. It is well known and famous for **Light Poles Manufacturing** and **Hot Dip Galvanizing**.

**MUNIR INDUSTRY** offers a full scope of steel fabrication and electrochemical works. The venture groups keep up a solid establishment of trust and shared regard created through positive associations with customers, planners, designers, subcontractors and providers.

**MUNIR INDUSTRY** has all the elements; technology, management systems, people and financial strength to become a leading service provider in the region.



We are responsive and thoughtful with customer's goals, as well as adaptable as to the type of legally binding relationship we go into with our customers. At **MUNIR INDUSTRY** we promise to address the issues of our customers with the most astounding guidelines in administration, quality, well-being and uprightness. we keep on expanding our operations to meet the needs of our customer base.

## Our Vision:

- ❖ To prompt a culture inside our organization that might make quality cognizant environment to accomplish integration of our aggregate quality process all through our firm.
- ❖ To pick up refinement through quality.
- ❖ To accomplish norms of the chief supplier of development administrations, continuous change in our execution, to give remarkable venture execution.
- ❖ To gain the certainty of our clients accordingly accomplishing market noteworthiness.
- ❖ Each representative to comprehend and get to be distinctly required for conveying their best. This procedure will manage the cost of our representatives and open door.
- ❖ To be perceived as a necessary piece of our client's operations by giving helpful explored data and imaginative business apparatuses that enhance their venture.
- ❖ To accomplish this through a reasonable organization center that supports innovative deduction and client benefit from our workers.

# Our Product Line

## ☆ POLES

- TUBULAR POLE
- CONICAL POLE
- OCTAGONAL POLE
- CAMERA POLE
- STADIUM LIGHT POLE
- CAMOUFLAGE MONOPOLE
- VMS POLE



## ☆ MS & GI Pipe

- ROUND TUBE
- SQUARE TUBE
- RECTANGULAR TUBE



## ☆ STEEL FABRICATION

- CANTILEVER BEAM
- GUARD RAIL & ACCESSORIES
- HAND RAIL
- ACCESSORIES FOR SOLAR SYSTEM
- TELECOMMUNICATION TOWER
- DUCT FOR HVAC
- CABLE TRAY
- CABLE LADDERS



## ☆ WIRES

- STEEL WIRE
- GI WIRE
- E.L.P WIRE
- ANNEAL WIRE
- BARBED WIRE
- RAZOR WIRE
- CHAIN LINK FENCE
- STEEL ROPE



# Our Services

## ☆ STEEL SURFACE PROTECTION

- HOT DIP GALVANIZING
- POWDER COATING
- ENAMEL PAINT COATING
- EPOXY PAINT COATING



## ☆ CNC PLASMA / FLAME CUTTING

- **CNC TABLE PLASMA**  
Bed Size = 1.5meter x 3meter  
Thickness Range = 2mm to 8mm
- **CNC PORTABLE FLAME CUTTING**  
Boom Range = 1.2metet x 1.8meter  
Thickness Range = 2mm to 100mm



## ☆ SHEET COIL SLITTING

Sheet Coil Weight = Up to 30 Tone  
Sheet Coil Width = Up to 5 Feet  
Thickness Range = Up to 6mm



## ☆ SHEET SHEERING

Sheet Width = Up to 10 Feet  
Thickness Range = Up to 10mm



## ☆ SHEET BENDING

Sheet Width = Up to 10 Feet  
Thickness Range = Up to 7mm

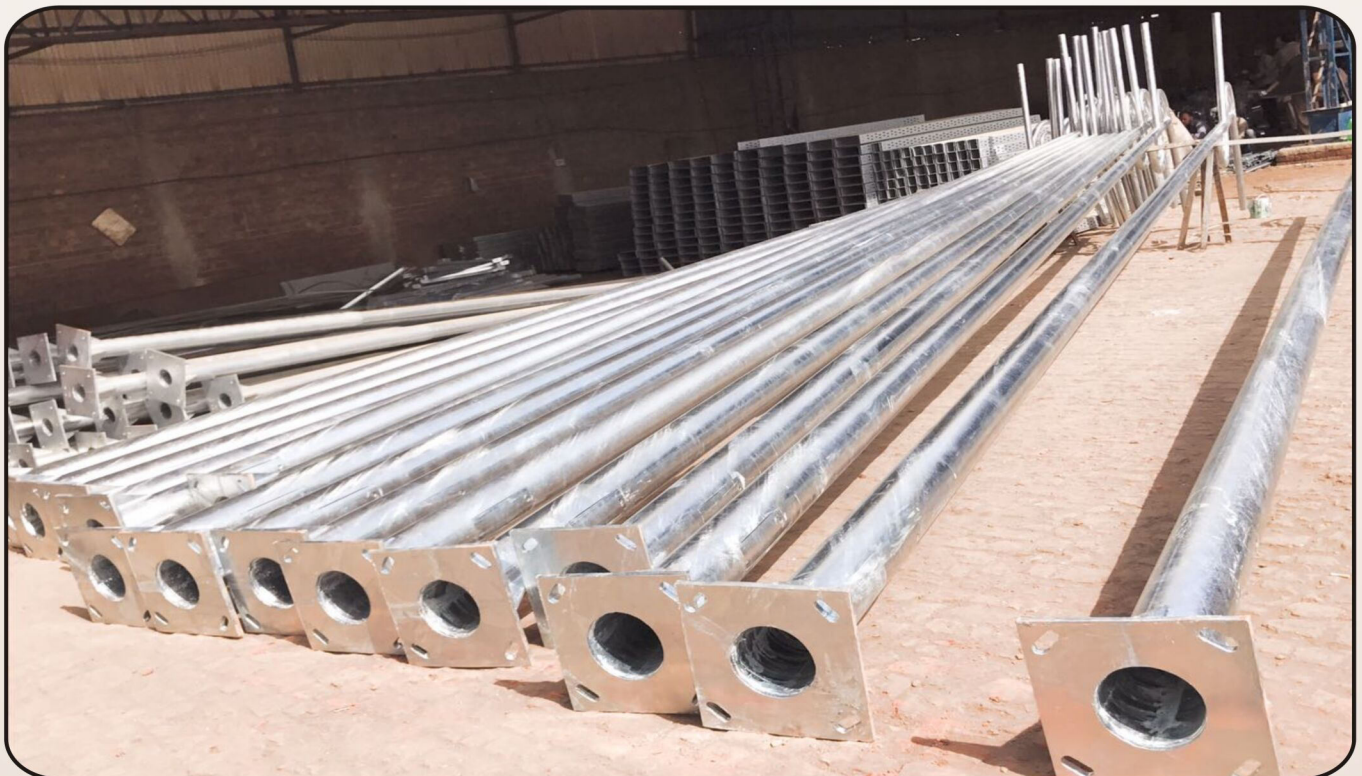
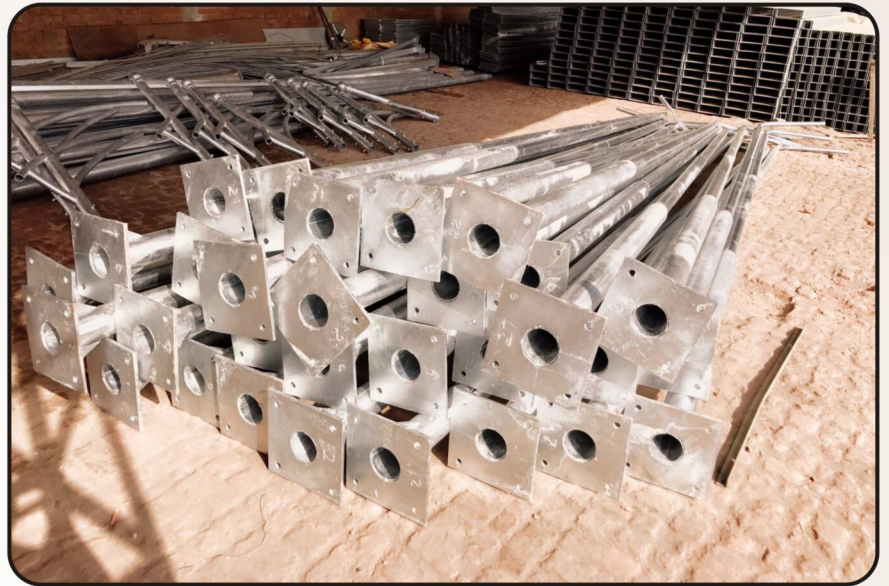


# Street Light Poles

**MUNIR INDUSTRY** has been acknowledge in offering wide rang of Street Light Poles, CCTV Poles, VMS Poles, WAPDA Poles, Moterway poles, Sign poles Signals poles etc. Our poles manufactured under the supervision of highly professional workers by using class of material which is produced by trustworthy experts in the market. We precisely fabricate by keeping in mind current market development. Apart from this our quality controllers perform a series of test on the entire range ensuring its flawlessness. Clients can avail the offered poles from us at market set rates.

## **Features:**

- Commendable durability.
- Superior dimensional accuracy.
- Unmatched sturdiness.
- As per with industry standards.
- Corrosion resistant.



# Street Light Poles

**MUNIR INDUSTRY** designs and manufactures Octagonal Poles, Conical Poles & Tubular Poles for highway, street lighting and traffic signals.

Our product value chain begins with the procurement of hot rolled coils, confirming to international standards and grade of steel as per project requirement which are then used as inputs for the manufacture of poles.

## **Pole manufacturing Process**

### **Portable CNC Flame Cutting Machine**

We have Portable CNC Flame Cutting machine to cut the base plate for the poles precisely. We program to machine as per required dimensions to cut the material automatically with accuracy.



### **De-Coiler**

De-Coiler uses to hang the sheet coil to open the sheet turns from coil, which can insert into straighter to make the sheet straight.



### **Sheet Straightner**

Sheet Straightner uses to make the sheet straight before slitting / sheering the sheet. Straightner having capacity to straight the sheet up to 8mm thick.



# Street Light Poles

## **Slitting Machine**

After Straightening the sheet its cut as per required length of pole. This cut piece of sheet then slitted in two halves longitudinally in slitting machine.



## **CNC Tandem Hydraulic Press Brake**

A CNC 54' press brake forms the longitudinal bends that shape the multi-sided tapered pole. Mounting height of pole is between 5 meter to 15 meter and thickness capacity to is between 2.5mm to 8mm



## **Sub-Merged Arc Welding Machine**

Shaft half-shells are joined using our submerged arc welding equipment having capacity of up to 1.25" thickness and 14" diameter where a partial penetration weld is performed to assure proper structural integrity of the pole shafts.



## **Shaft Straightening Press**

After one side welding longitudinally, shafts get distorted so we use the hydraulic press to make it straight and align with axis.





# Street Light Poles

## **Portable CNC Plasma Machine**

CNC Plasma machine used to cut window on the bottom of pole for electrical connections to the light. We program to machine for cutting window accurately as per project requirements.



## **Co2 Welding on base plates**

Base Plate of pole welded by qualified welders by using Co2 welding plant and Electric Arc welding plant.



## **Pipe Roll bending Machine for Arm**

We have mechanical 3 roller pipe bending machine to make arm for poles under the supervision of qualified supervisor & engineer to achieve arm profile as per client design.



## **Pipe Bending Machine for Pole Arm**



# Street Light Poles

MUNIR INDUSTRY manufacturing following type of poles.

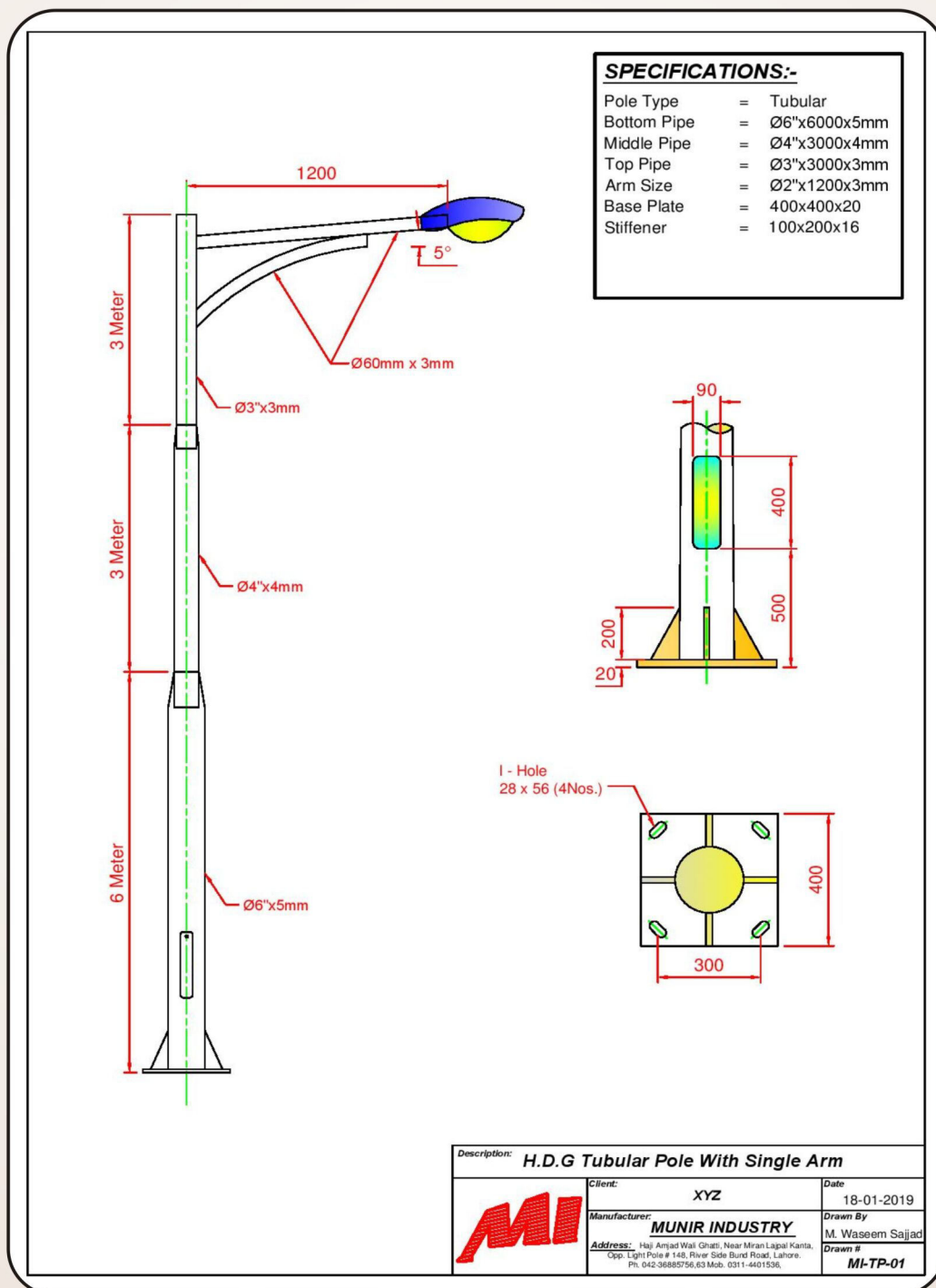
**Tubular Poles**

**Octagonal Poles**

**Conical Poles**

**TYPE 1:**

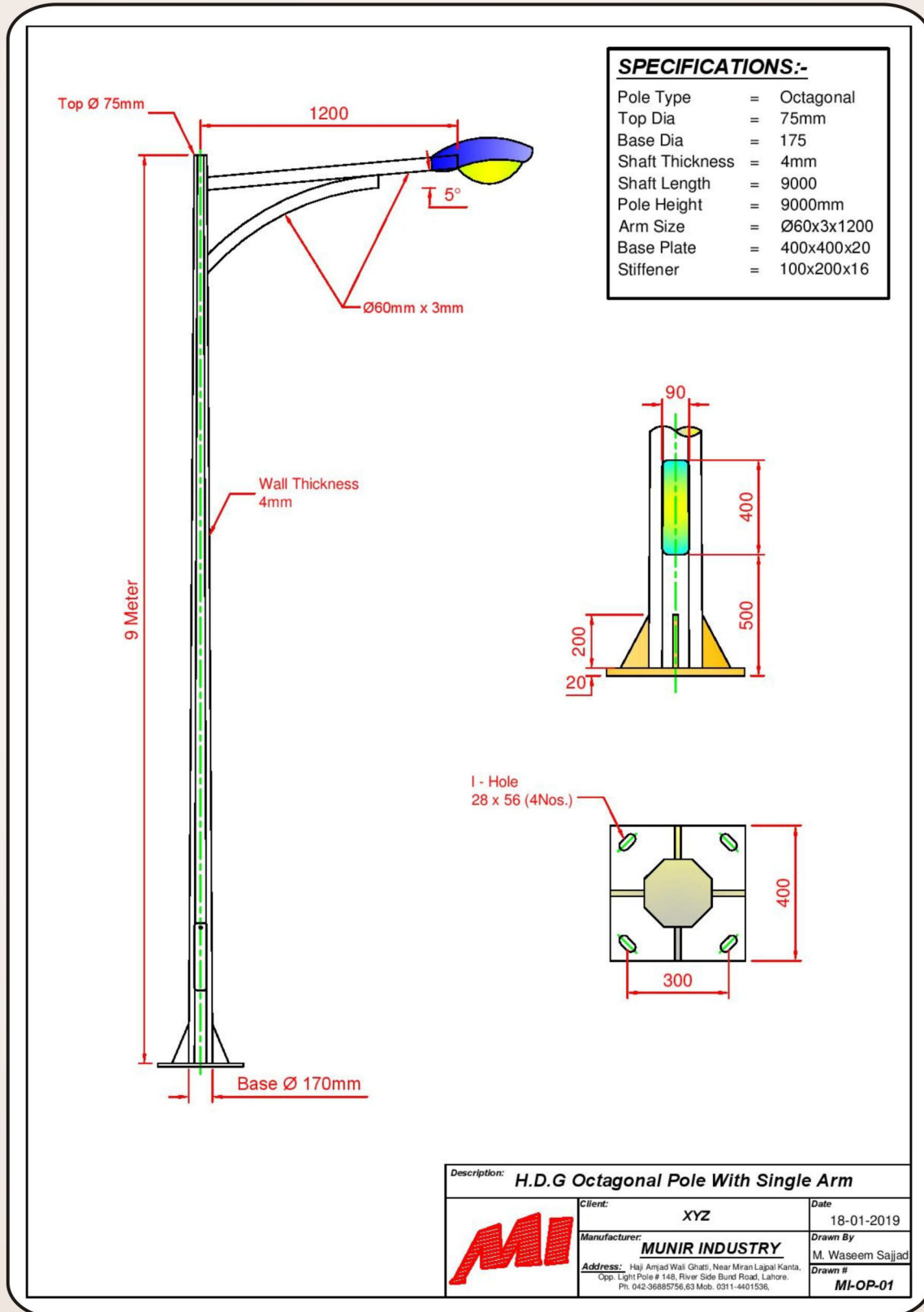
**Tubular Poles**



# Street Light Poles

## TYPE 2:

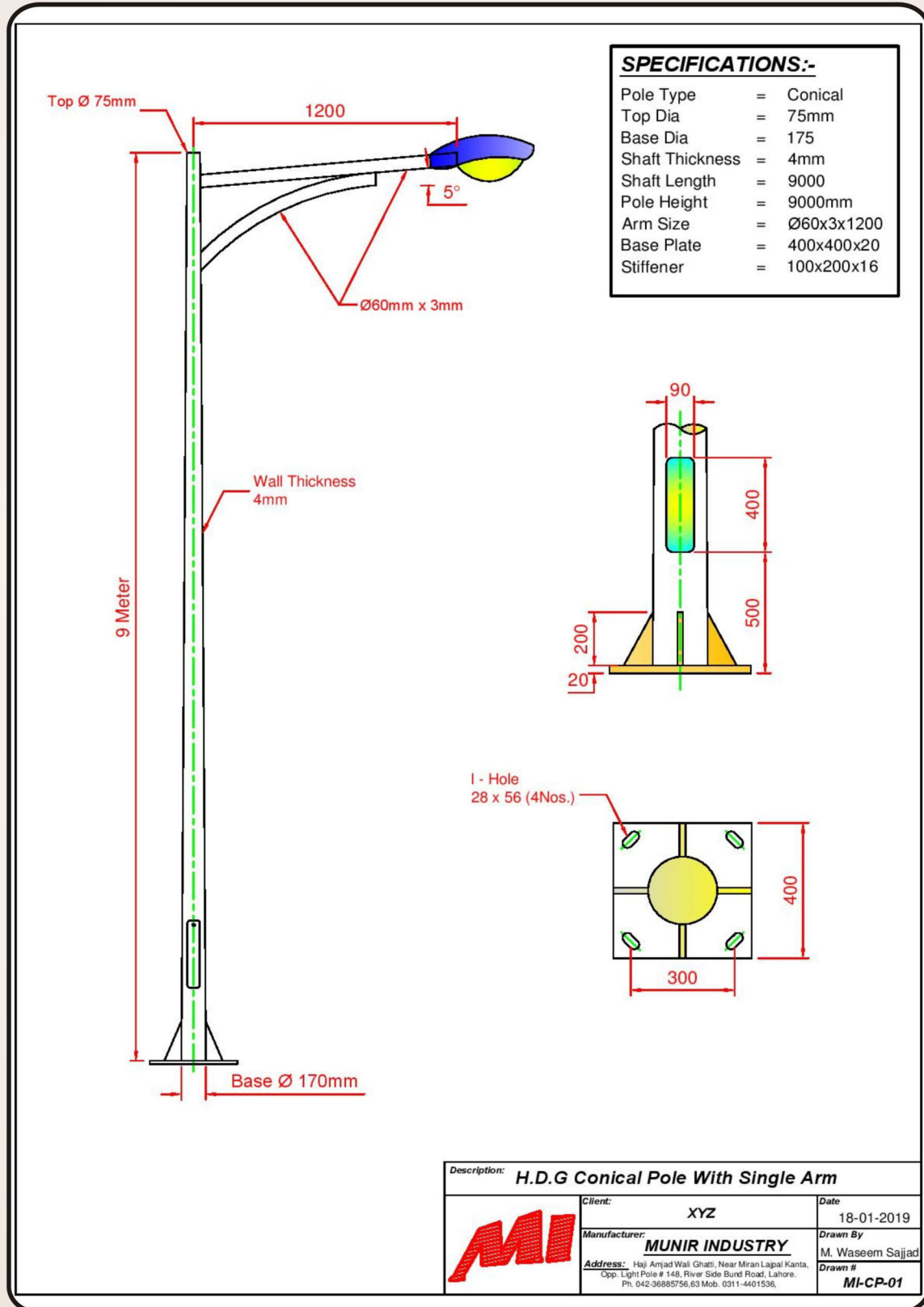
## Octagonal Poles



# Street Light Poles

## TYPE 3:

## Conical Poles

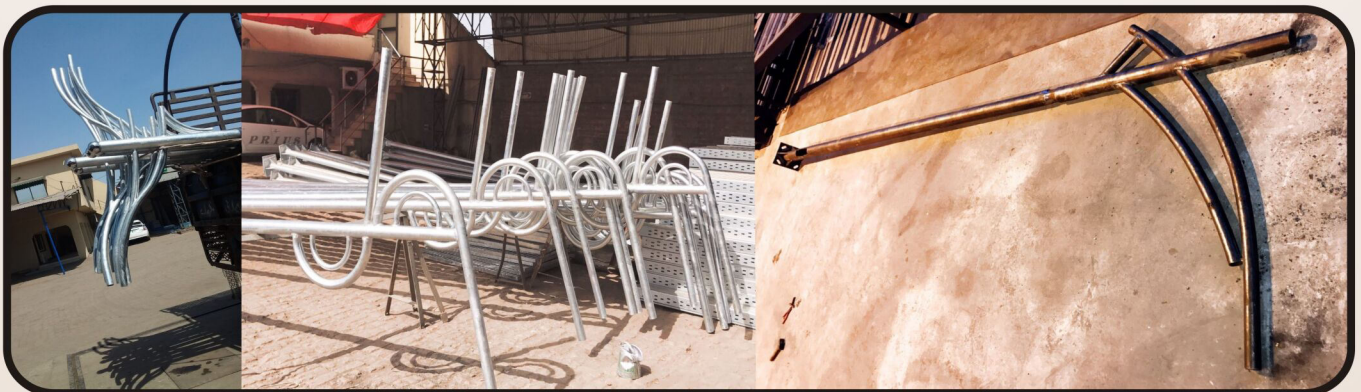
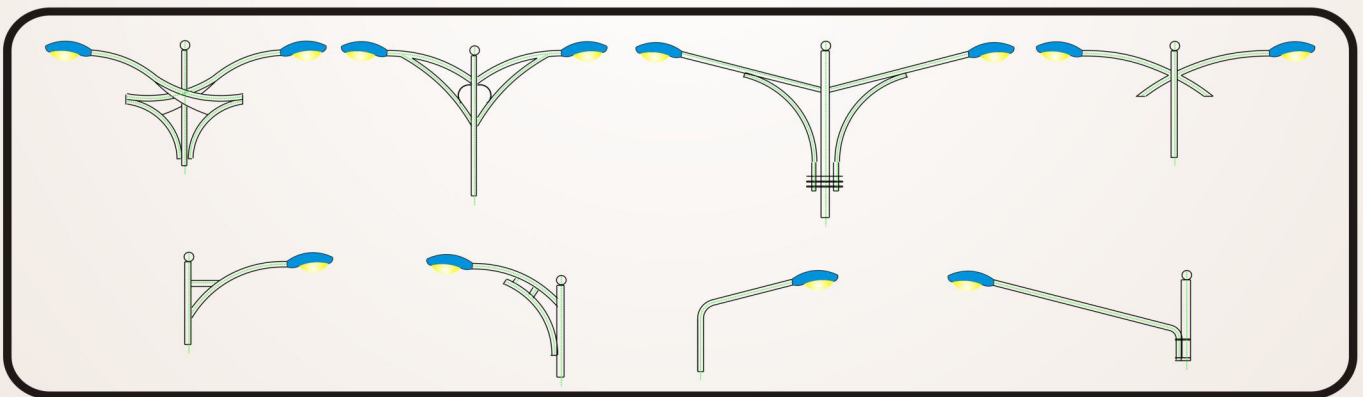




# Light Arm's Design

## Regular Design of Light Arm

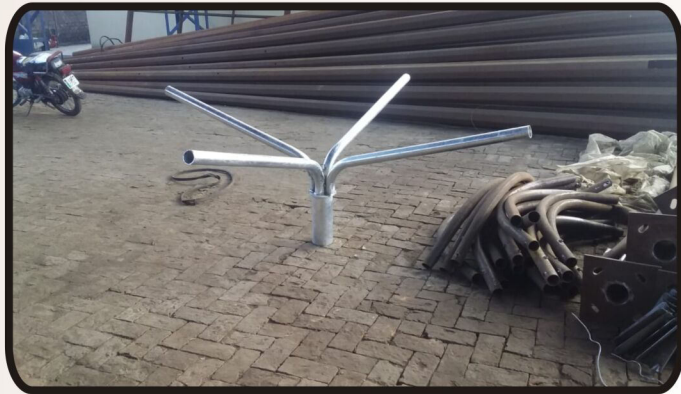
We are designing and manufacturing different shaped fancy Light Arms.



# Light Arm's Design



# Light Arm's Design





# Miscellaneous Fabrication

## **Gantry for Road Sign Board**



## **35 Meter Camouflage Monopole 24 Sided**



## **Road Camera poles**



# Miscellaneous Fabrication

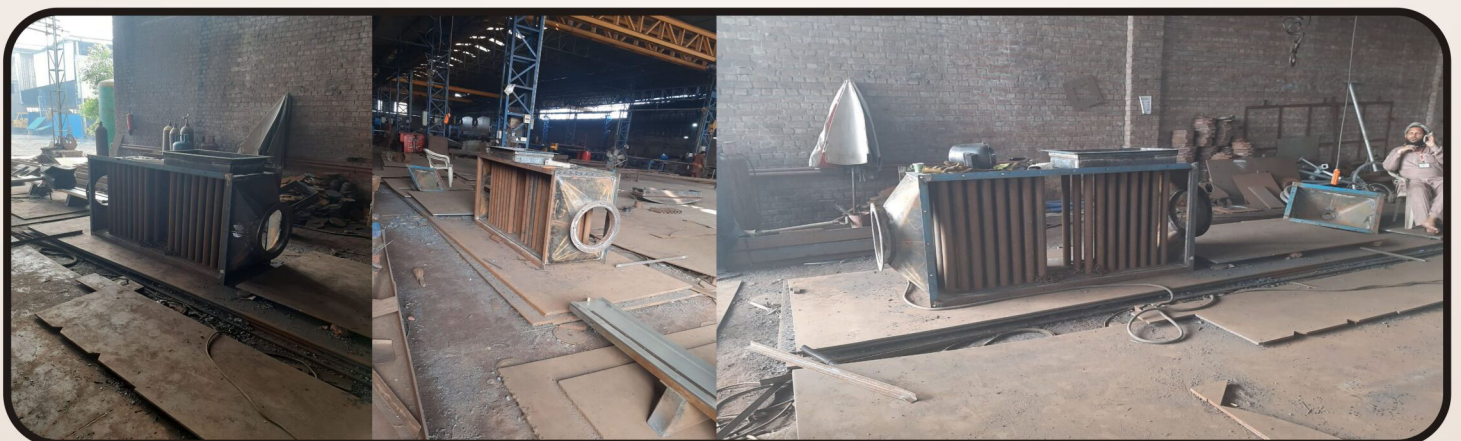
## Electronic VMS Poles



## Stadium Light Pole with platform & monkey ladder



## Heat Recycling Unit



# Miscellaneous Fabrication

**Fencing Frame for Power Plant**



**Solar Panel Mounting Structure**



**Pipe Elbow Fabrication**



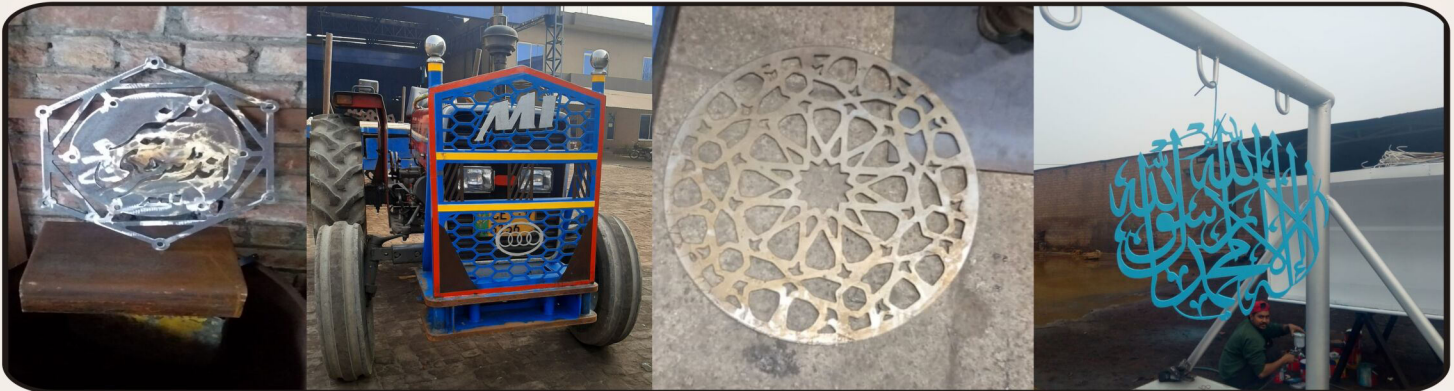
**Other Households Item**



# CNC Plasma Cutting

**MUNIR INDUSTRY** provides variety of custom CNC plasma and CNC Flame cutting services according to customer requirements and design.

The benefit of metal cutting with CNC Plasma machine is that, it gives perfect shape with highly accuracy and consume less time to cut than the other metal cutting methods



# ERW Steel Pipe Manufacturing

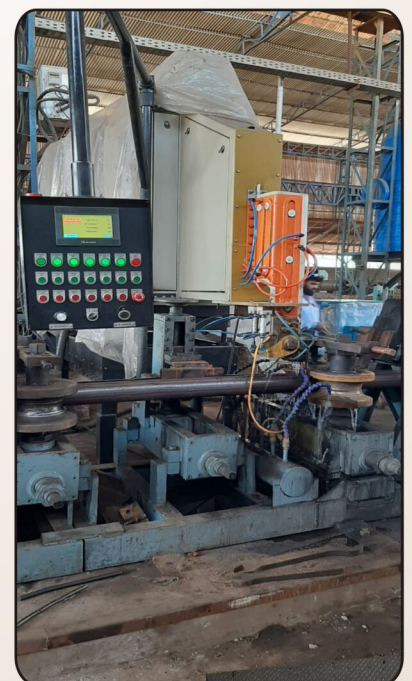
## MS & GI Pipe

**MUNIR INDUSTRY** also involve in manufacturing of ERW (Electric Resistance Welded) Steel Pipes. We acquire best quality hot rolled coils for rolling our tubes. Pipes are welded longitudinally, manufactured from strips / coil and can be manufactured in different diameters. ERW pipe are available in different thickness and diameter. Munir industry offering pipe from ½" to 6" diameter and thickness from 2mm to 5mm.

### Applications:

- Liquid Transmission
- Idlers
- Mechanical and General Engineering
- Structural
- Water and Sewage
- Water Wells
- Fire Protection
- Fencing

**& Many more...**



# ERW Steel Pipe Manufacturing



## Munir Industry



Thickness (mm)		1.5	2	2.5	2.75	3	3.5	4	4.5	5	6	7	8	9	10	12																	
<b>Diameter</b>		<i>Standard Weight (Kg) of 20ft Pipe</i>																															
<b>Inch</b>	<b>OD mm</b>																																
<b>1/2</b>	<b>21.3</b>																	4.47	5.8	7.07	7.67	8.25	9.37										
<b>3/4</b>	<b>26.7</b>																	5.68	7.43	9.10	9.90	10.69	12.21										
<b>1</b>	<b>33.4</b>																	7.19	9.44	11.61	12.67	13.71	15.73	17.68	19.55								
<b>1 1/4</b>	<b>42.2</b>																	9.18	12.09	14.92	16.31	17.68	20.36	22.97	25.50								
<b>1 1/2</b>	<b>48.3</b>																	10.55	13.92	17.21	18.83	20.43	23.57	26.64	29.63	32.55	38.16						
<b>2</b>	<b>60.3</b>																		17.53	21.75	23.79	25.84	29.89	33.86	37.75	41.57	48.98						
<b>2 1/2</b>	<b>73</b>																		21.35	26.50	29.04	31.57	36.57	41.49	46.34	51.11	60.44	69.44					
<b>3</b>	<b>88.9</b>																		26.13	32.47	35.62	38.74	44.94	51.05	57.10	63.07	74.78	86.19					
<b>4</b>	<b>114.3</b>																		33.77	42.02	46.12	50.20	58.30	66.33	74.28	82.16	97.69	112.92	127.85				
<b>5</b>	<b>141.3</b>																		41.88	52.17	57.28	62.37	72.51	82.57	92.55	102.45	122.04	141.33	160.32				
<b>6</b>	<b>168.3</b>																		50.00	62.31	68.44	74.55	86.71	98.80	110.81	122.75	146.40	169.75	192.79	215.54	237.98		
<b>8</b>	<b>219.1</b>																					97.46	113.44	129.35	145.18	160.94	192.22	223.21	253.89	284.27	314.35		
<b>10</b>	<b>273.1</b>																					121.82	141.86	161.82	181.71	201.53	240.93	280.03	318.83	357.34	395.54	471.04	
<b>12</b>	<b>323.9</b>																					144.73	168.59	192.37	216.08	239.71	286.75	333.49	379.93	426.07	471.91	562.68	
<b>14</b>	<b>355.6</b>																									263.54	315.35	366.85	418.06	468.96	519.56	619.87	
<b>16</b>	<b>406.4</b>									301.73	361.17	420.31	479.15	537.69	595.94	711.51																	

# ERW Steel Pipe Manufacturing

## Square & Rectangular Tubes

**MUNIR INDUSTRY** also manufacturing Square & Rectangular Tubes. ERW hollow section tubes are available in different thickness and sections. Munir industry offering two type of hollow section tubes.

### Square Tube:

**Size:** 1½" x 1½" to 4" x 4"

**Thickness:** 2mm to 5mm

### Rectangular Tube:

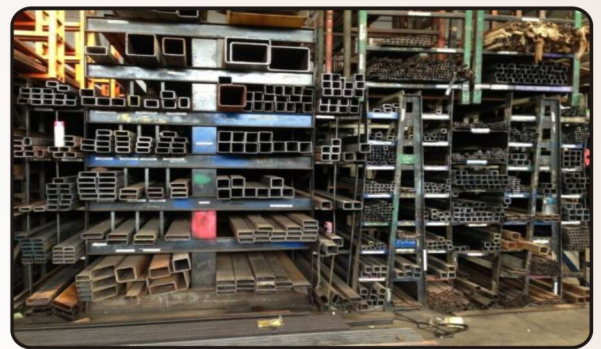
**Size:** 1" x 1½" to 1½" x 3"

**Thickness:** 2mm to 5mm

### Applications:

- Construction
- Machinery
- Automotive
- Furniture
- Storage System
- Transmission Tower
- Fire Protection
- Fencing

**& Many more...**



# Guard Rails

**MUNIR INDUSTRY** is manufacturer of Highway Guardrail from a long time and have complete in house facility like Cutting - Punching - Roll Forming - Galvanizing - Final inspection to assure to customer for good quality product.

The road traffic is increasing day by day and all the vehicle drive on maximum speed on highway therefore - Highway Guard Rail constitute as Important safety fixture on road highway. This is related with human safety therefore every nation is using Guard Rail frequently on Road Highway.



The Guard Rail (W - Beam) used in Pakistan and abroad in different shapes and profiles, but in Pakistan the W-Beam shape Guard Rail is used only. Therefore **MUNIR INDUSTRY** is specially geared-up to make Highway Guard Rail with W-Shape profile according to International specification / standard. We take complete turnkey projects for supply installation and fixing of Highway Guardrail.

**"GOOD QUALITY PRODUCT FOR NATION BECAUSE ROADS & HIGHWAY ARE PROPERTY OF NATION"**

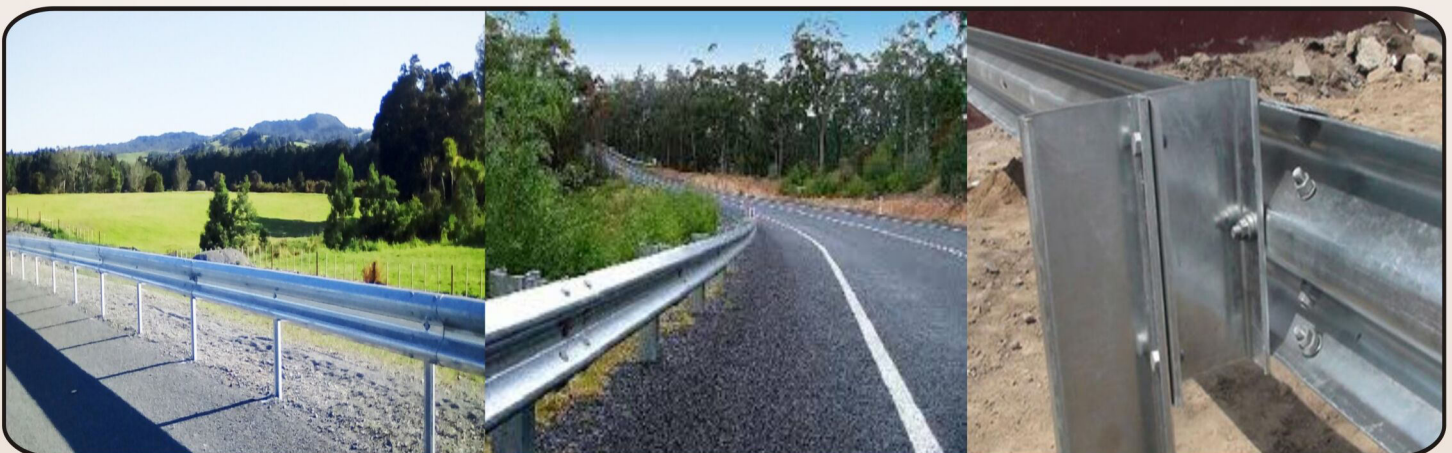
## **Features:**

Hot Rolled Coil conforming to SS400B, ASTM A36 (Thickness =2.5mm,2.75mm & 3 mm)

Special High Grade Zinc (99.99 %)

Galvanizing process is according to ASTM A123/A123M.

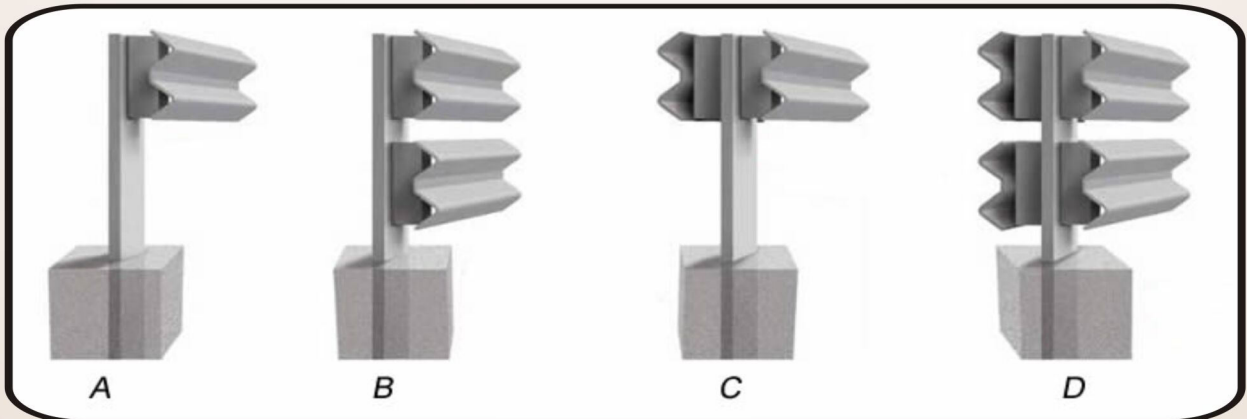
Zinc Coating thickness can be increased as per the special requirement of customer/consultant.





# Guard Rails

## Guard Rails Manufacturing:



# Guard Rails

## Post Hammering Services for Guard Rails

**MUNIR INDUSTRY** providing the services of post hammering for Guard Rails. We have imported hydraulic piling machine & trained team to perform the job nicely.



# Wire & Wire Products

**MUNIR INDUSTRY** A trusted name in the industry, we are engaged in manufacturing and galvanizing mild steel (MS) wires of multiple sizes and specifications. We use raw material like wire rod for manufacturing our range, which we procure from credible vendors based across the domestic market.

## ***Our Vision:***

We shall strive to continuously expand our wire business and be the manufacturer of all wire. We shall simultaneously look out for new and emerging business opportunities to our field of competence.

## ***Our Mission:***

To provide high quality wire product and superior customer service with focus on value added products to ensure the customers get ready to use products.

## ***Products Offered:***

By making optimum utilization of available resources as well as premium grade raw material, we are fabricating a reliable assortment of industrial wires. We are engaged in the manufacture, export supply, and trade of the following products:

- ❖ G.I. Wire
- ❖ E.L.P Wire
- ❖ Anneal Wire
- ❖ Steel Wire
- ❖ Binding Wire
- ❖ Galvanized Binding Wire
- ❖ Barbed Wire
- ❖ Razor Wire
- ❖ Chain Link Fence
- ❖ Welded Wire Mesh
- ❖ Gabion Box





# Wire & Wire Products

## Products:

We deal in extensive range of steel products by international standards of quality. We are engaged in manufacturing Galvanized, mild steel and hard bright products. We have successfully managed to make our presence felt in the Iron & Steel Industry and are presently recognized as a leader in the field of wire products by providing proficiency which earns higher demand in the market. We are gratifying the requirements of construction industry by presenting the extensive range of wire products. We have been manufacturing wires in sizes varying from 4 SWG to 20 SWG.



 <b>Munir Industry</b> 					
Standard Wire Gauge to Inches and Millimeters					
Swg	Inch	mm	Swg	Inch	mm
1	0.300	7.620	16	0.064	1.626
2	0.276	7.010	17	0.056	1.422
3	0.252	6.401	18	0.048	1.219
4	0.232	5.893	19	0.040	1.016
5	0.212	5.385	20	0.036	0.914
6	0.192	4.877	21	0.032	0.813
7	0.176	4.470	22	0.028	0.711
8	0.160	4.064	23	0.024	0.610
9	0.144	3.658	24	0.022	0.559
10	0.128	3.251	25	0.020	0.508
11	0.116	2.946	26	0.018	0.457
12	0.104	2.642	27	0.016	0.417
13	0.092	2.337	28	0.015	0.376
14	0.080	2.032	29	0.014	0.345
15	0.072	1.829	30	0.012	0.315



# Wire & Wire Products

## **GI Wire:**

Owing to our wide experience in this domain, our company is counted among the foremost manufacturers, suppliers and exporters of G.I wire. This wire is made at our well equipped manufacturing unit from Wire Rods (Raw Material for the Wire). This wire is majorly used in construction industries owing to its attributes such as resistant surface, rugged construction and high tensile strength, our offered G.I wire is in high demand across the market.



## **Barbed Wire:**

We are engage in providing high quality Barbed Wire to the clients. Barbed Wire is used for fencing in farms and other premises for security purpose. As per customer requirement we can manufacture both single play and double play barbed wire are the coating is customized with the demand of customer. Barbed wire is the best and oldest way for the fencing.



## **Razor Wire:**

Razor wire, also called barbed tape, is easy to install and acts as a visual deterrent as well as a physical barrier, which is extremely difficult to climb. It is made of galvanized or stainless steel materials for different environments and security grade. The razor tape is particularly difficult to crush or trample and is almost impossible to cut without specialized tools – and even then, it is a slow and dangerous job. It is regarded as a highly-effective and economical additional barrier to your security fencing system. It is popular in military sites, the national border, governments, commercial buildings and private residences.



# Wire & Wire Products

## **Welded Wire Mesh:**

We are manufacturing fine quality of welded wire mesh. With an objective to fulfill the ever-evolving demands of our clients, we are engaged in offering a wide assortment of Welded Wire Mesh. We design and develop all our products using high-grade raw material and latest machinery. To ensure the quality, we also check our products on various parameters to ensure zero defects. Our weld wire meshes are known for their corrosion resistance, sturdy construction and low maintenance. Weld meshes find wide apply in farming, boundary walls for protection and different removal application.



## **Chain Link Fence:**

Galvanized Chain Link Fencing, which are available for fencing of the gardens, tennis courts, residential or farming land, factory or boundary layouts and poultry. These line fencing are manufactured with galvanized iron (G.I), ms wire can be customized according to clients requirements. Our range is made available in various sizes.



## **Gabion Box:**

Gabion is a rectangular wire mesh box comprised of three one half turns (commonly called double twisted) to form hexagonal shaped mesh openings of Zinc galvanized and PVC coated steel wire. These mesh openings are then interconnected with adjacent wires to form hexagonal meshes. Selvedge / Edge wire which is a thicker and heavier wire is used to reinforce the edges and transverse diaphragm. It gives greater rigidity and shape to the gabion / mattresses / netting



# Hot Dip Galvanization

**MUNIR INDUSTRY** offers hot-dip galvanizing services which prolong the lifetime service of steel poles and related steel structures.

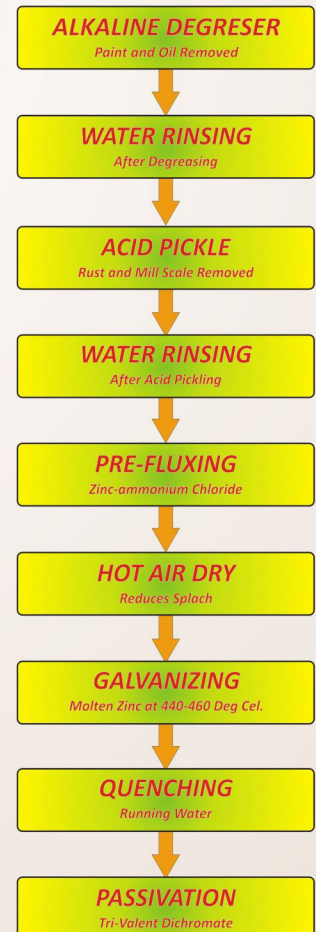
Hot-dip galvanization is a form of galvanization. It is the process of coating iron and steel with zinc, which alloys with the surface of the base metal when immersing the metal in a bath of molten zinc at a temperature of around 840 °F (449 °C). When exposed to the atmosphere, the pure zinc (Zn) reacts with oxygen (O<sub>2</sub>) to form zinc oxide (ZnO), which further reacts with carbon dioxide (CO<sub>2</sub>) to form zinc carbonate (ZnCO<sub>3</sub>), a usually dull grey, fairly strong material that protects the steel underneath from further corrosion in many circumstances. Galvanized steel is widely used in applications where corrosion resistance is needed without the cost of stainless steel, and is considered superior in terms of cost and life-cycle. It can be identified by the crystallization patterning on the surface.



## Galvanizing Process

A typical hot-dip galvanizing line operates as follows:

- Steel is cleaned using a caustic solution. This removes oil/grease, dirt, and paint.
- The caustic cleaning solution is rinsed off.
- The steel is pickled in an acidic solution to remove mill scale.
- The pickling solution is rinsed off.
- A flux, often zinc ammonium chloride is applied to the steel to inhibit oxidation of the cleaned surface upon exposure to air. The flux is allowed to dry on the steel and aids in the process of the liquid zinc wetting and adhering to the steel.
- The steel is dipped into the molten zinc bath and held there until the temperature of the steel equilibrates with that of the bath.
- The steel is cooled in a quench tank to reduce its temperature and inhibit undesirable reactions of the newly formed coating with the atmosphere.



# Hot Dip Galvanization

## Galvanizing Specification.

A hot-dip galvanized coating is relatively easier and cheaper to specify than an organic paint coating of equivalent corrosion protection performance. The British, European and International standards for hot-dip galvanizing are ASTM A123/A 123M and BS EN ISO 1461, which specifies a minimum coating thickness to be applied to steel in relation to the steel's section thickness e.g. a steel fabrication with a section size thicker than 6 mm shall have a minimum galvanized coating thickness of 85  $\mu\text{m}$ .



Further performance and design information for galvanizing can be found in ASTM A123/A 123M-02, BS EN ISO 14713-1 and BS EN ISO 14713-2. The durability performance of a galvanized coating depends solely on the corrosion rate of the environment in which it is placed. Corrosion rates for different environments can be found in BS EN ISO 14713-1, where typical corrosion rates are given, along with a description of the environment in which the steel would be used.

## PLANT & EQUIPMENT

- Zink Kettle (**42 Feet Long x 3.5 Feet Wide x 3 Feet Deep**).
- Fired Furnace with auto temperature control system & high Speed Burners.
- EOT overhead crane with two 5 Tons capacity hoists each.
- Yard material handling system.
- Mobile material handling system.

## Product Range

Cable Tray

Lighting Cover

Lighting Pole

Mobile Towers

Highway Steel Guardrail

Grating

Commercial Galvanizing Facility for all Industries.

Cable Ladder

Solar Power Projects

Wind Turbine

Telecom Tower

Beams

Fencing





# Hot Dip Galvanization



Designation: A123/A 123M -02

## Standard Specification for Zinc (Hot-Dip Galvanized) Coating on Iron and Steel Products

**Munir Industry** offers galvanizing quality as per international standard and follows the below charts for zinc coating thickness with respect to the product.



A 123/A 123M - 02

**TABLE 1 Minimum Average Coating Thickness Grade by Material Category**

Material Category	All Specimens Tested				
	Steel Thickness Range (measured), in.(mm)				
	<1/16(<1.6)	1/16 to <1/8(1.6 to <3.2)	1/8 to <3/16(3.2 to <4.8)	>3/16 to <1/4(>4.8 to <6.4)	≥1/4 (≥6.4)
Structural Shapes and Plate	45	65	75	85	100
Strip and Bar	45	65	75	85	100
Pipe and Tubing	45	45	75	75	75
Wire	35	50	60	65	80

**TABLE 2 Coating Thickness Grade**

Coating Grade	mils	oz/ft <sup>2</sup>	µm	g/m <sup>2</sup>
35	1.4	0.8	35	245
45	1.8	1.0	45	320
50	2.0	1.2	50	355
55	2.2	1.3	55	390
60	2.4	1.4	60	325
65	2.6	1.5	65	460
75	3.0	1.7	75	530
80	3.1	1.9	80	565
85	3.3	2.0	85	600
100	3.9	2.3	100	705

The values in micrometers (µm) are based on the Coating Grade. The other values are based on conversions using the following formulas: mils - µm x 0.03937; oz/ft<sup>2</sup> = µm x 0.02316; g/m<sup>2</sup> = µm x 7.067.

# Powder Coating Services

**Munir Industry** provides high quality powder coating services that meet our customers' quality, delivery and turnaround requirements. From short run to mass production volumes, we have the capacity to meet your demands.

Powder coating is a modern, more environmentally-friendly alternative to traditional wet painting. Minute powder particles are applied to a metal object or component using an electrostatic spray process, which causes the powder to adhere to the metal surface. After spraying, the component is cured in an oven at up to 200°C. This process then melts the powder onto the metal creating a highly finished and durable coating. This finishing process is suitable for various materials, including metals, plastics, glass, and medium density fiberboard (MDF), and can provide both functional and decorative surface coatings in a wide range of colors, finishes, and textures that are not readily achievable by conventional liquid coating methods.



## **The Powder Coating Process**

Powder coating is a multi-step surface finishing process suitable for metal and non-metal substrates. The method includes a preparation, application, and curing stage, and, at a minimum, utilizes a spray gun, spray booth, and curing oven. For the coating process to run smoothly and at optimum capacity, manufacturers and finishing service providers should consider several factors, such as the substrate material being coated and its properties, as well as the type of powder coating material employed.



# Powder Coating Services

## **Overview of Process and Equipment**

The basic process of powder coating is straightforward. Here are steps to powder coating and protecting metal

### **Sandblasting:**

Sandblasting is the best way to prep a metal surface in need of restoration. It removes dirt, grime, rust, corrosion. It also removes existing painted or powder coated finishes. All types of metal can be blasted such as alloys, aluminum, steel, iron, etc.

### **Surface Degreasing:**

Surface Degreasing consists of applying a metal prep chemical solution to neutralize surface impurities, cleaning off any lingering debris and prevent rust and corrosion. Depending on the type of metal there are several kinds of solutions your powder coater can use to enhance the surface before coating. If this is a concern for you make sure to ask your powder coater about what they will be using; this is a step that should not be missed.

### **Powder Spraying:**

When fully prepped and dry your metal project will be ready for powder coating. The coating itself is done through an electrolysis process, whereby, the metal object is positively charged in order for the powder to be attracted to it and bond well during the next stage. There are many colors and brands of powder to choose from depending on the needs of the customer and the end use of the project.



# Powder Coating Services

## **Curing:**

After spraying, the component is cured in an oven at up to 200°C. This process then melts the powder onto the metal creating a highly finished and durable coating. The cure times for metal can range depending on how long it takes the oven to get to temp and the size of the oven. Once the right temp is achieved it takes 15-30 minutes for your metal part to achieve this state. A coater's oven should evenly displace the heat so that your part is heated throughout for the curing process to be done correctly.



## **Powder Coating Oven & Equipment**

Powder coating oven designed to meet the demands of industrial coating processes. it can be used to cure powder paints onto different types of metal substrates.

## **Features**

- Oven Capacity **(43 Feet Long x 7 Feet Wide x 7 Feet High)**.
- Fired Furnace with auto temperature control system & high Speed Gas Burners.
- Mobile material handling system.

## **Product Range**

Cable Tray

Lighting Cover

Lighting Pole

Mobile Towers

Highway Steel Guardrail

Grating

Commercial Powder Coating Facility for all Industries.

Cable Ladder

Solar Power Projects

Wind Turbine

Telecom Tower

Beams

Fencing

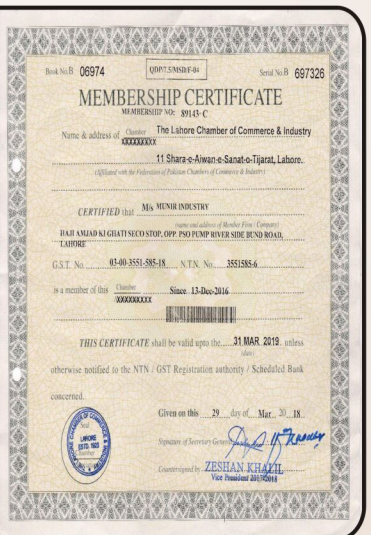
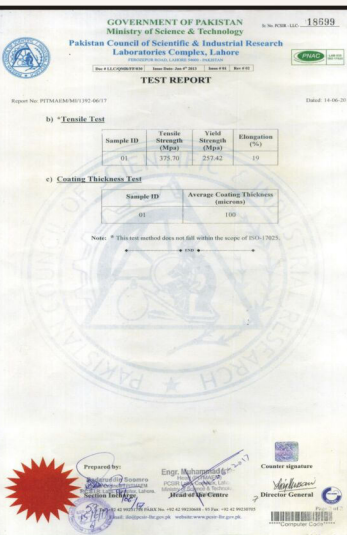
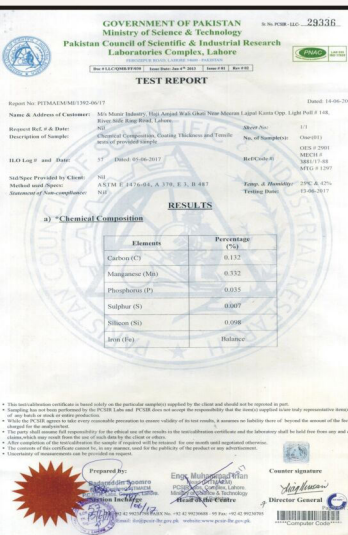
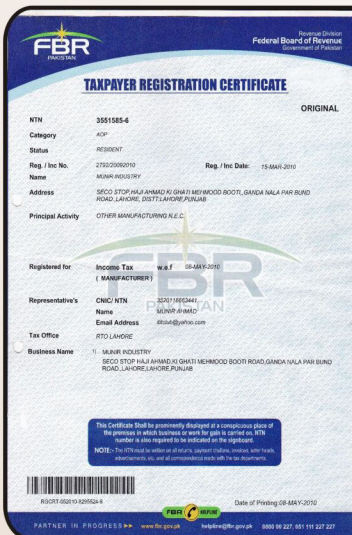
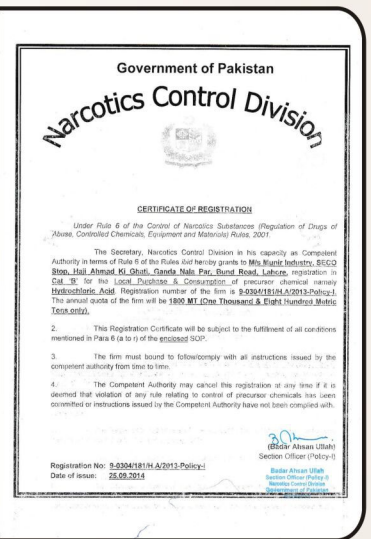
## **PROJECTS**

- Moterway Lahore to Abdul Hakeem M3.
- Mehmood Boti to Kalashah Kaku Ring Road M11.
- DHA PH-II, Islamabad.
- Bulk Oil Storage Tank Installation Shikar pur.
- Public Health Engineering Noshehra.
- E35 Hazara Moterway.
- Hassan Abdal to Hawailiyan Package 2 & 3.
- Punjab Metro Bus Authority Lahore & Multan.
- Faisalabad to Khanewal M4.
- DG Cement Plant Karachi.
- Hyatabad Industrial State.
- NHA Multan Project.
- Peshawar Ring Road.
- TMA Mardan (Local Govt. Noshehra).
- Head Balloki.
- Time Ceramics Sahianwala.
- Faisalabad Industrial Estate.
- Multan to Sakkhar M5.
- Sawat Moterway.
- KIA Lucky Motors Karachi.
- CPEC Western Route Hakla (D.I Khan) Package 3.
- Taj Residencia Islamabad.
- Punjab Safe City Authority.
- Quetta Safe City Authority.
- Sahiwal Oil Depot.
- Attock Petroleum Limited.

# Our Clients



# Certificates & Awards



# MI

## Munir Industry



### Your Vision Our Mission

- \* Lighting Poles
- \* General Fabrications
- \* Wire & Wire Products
- \* Hot Dip Galvanizing
- \* Powder Coating



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