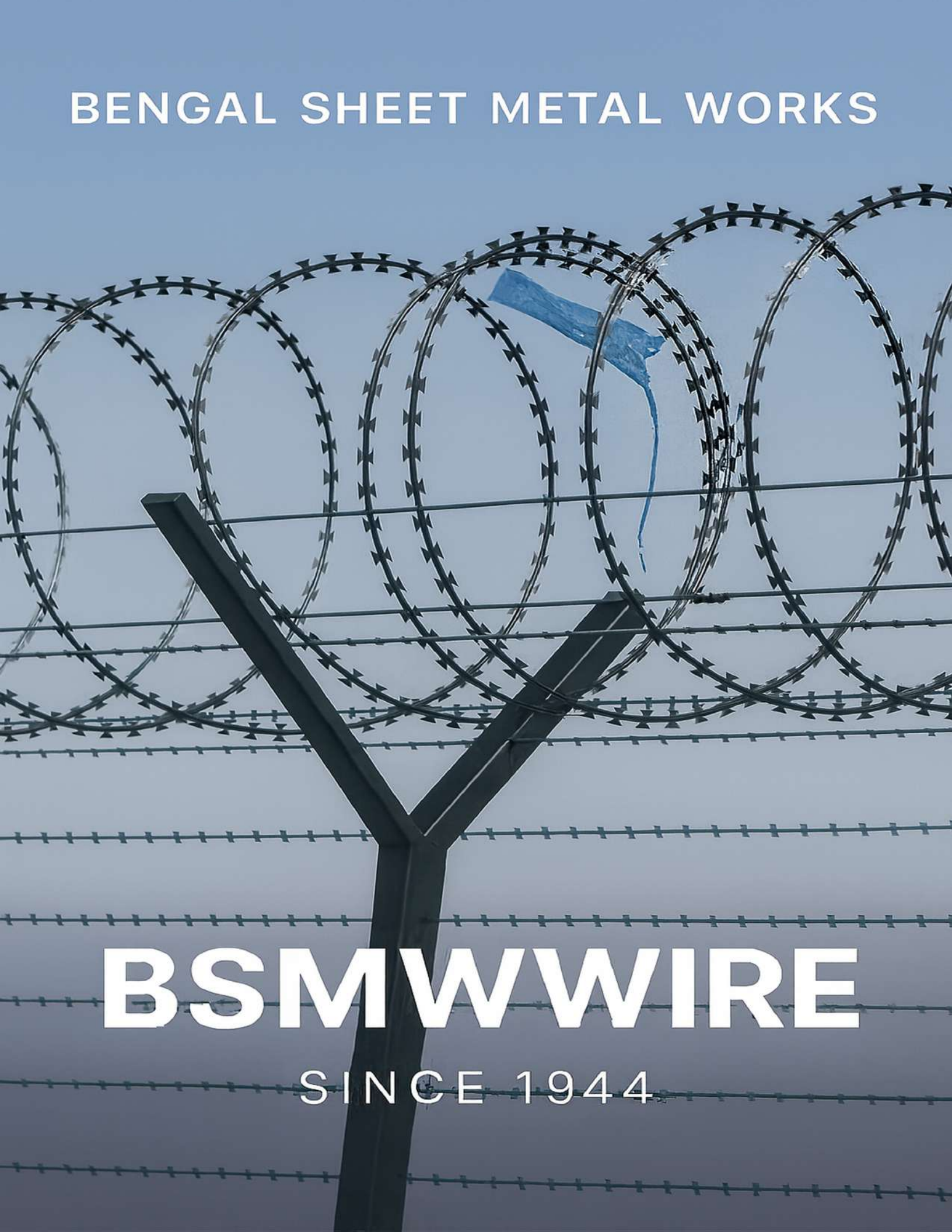




BENGAL SHEET METAL WORKS

BSMW WIRE

SINCE 1944



About BSMWWIRE

🛡️ **80+ Years of Expertise** – Pioneers in wire & fencing manufacturing since 1944.

⚙️ **Defense & MES Approved** – Proven track record with PSUs, defense, and government projects.

🔬 R&D & Testing – Compliance with **IS & ASTM Standards**.

🏭 **Trusted Partner** for industrial and EPC contracts.

🌍 **Trusted Nationwide** – Installed across ports, power plants, airports, and critical infrastructure.

1944

Company
Founded

1980s

Expansion into
Industrial &
Agricultural
projects

2000s

Approved supplier
to Defense
& MES

2020s

Supplying
modern EPC
& Industrial
mega-projects

Industry Challenges

Industrial facilities face increasing security demands. Conventional fences often struggle to withstand harsh conditions, tampering, and long service cycles – leading to higher maintenance and costs over time.



High Maintenance

Frequent repairs under industrial wear and stress



Weak Security

Limited deterrence against climbing or tampering



Shorter Lifespan

Conventional wires degrade faster in harsh zones

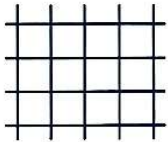


High Lifecycle Cost

These challenges demand modern, engineered fencing solutions that deliver long-term security and value.

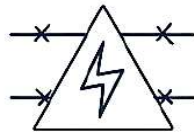
Our Industrial Fence Range

- Razor Wire & Concertina Coils – Ports, refineries, airports.
- Welded Mesh Fences – Factories, solar farms, military & border.
- Machine-Clamped Square Knot Mesh – Long perimeters, high-tensile security.
- Power Fence – Electric deterrence for warehouses & industrial complexes.
- Gabion Mesh – Power plant protection, mining & slope stabilization.
- Chain-Link & Barbed Wire – Economical option for large sites.



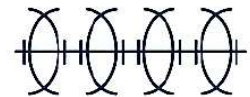
Machine-Clamped Square Knot Mesh

Long perimeters and industrial corridors requiring tensile strength and durability



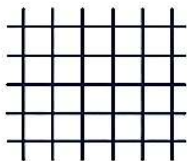
Power Fence (Electric)

Active deterrence with 24/7 monitoring – ideal for warehouses, EPC projects, and logistics hubs



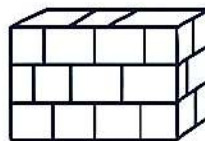
Razor Wire & Concertina Coils

Best for high-security perimeters: ports, refineries, airports, and fense



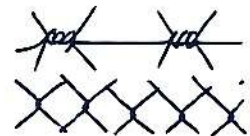
Welded Mesh Fences (358 / 656 / HD Mesh)

High-strength anti-climb panels for factories, military bases, and solar farms



Gabion Mesh Solutions

Retaining walls, slope stabilization, and erosion



Chain-Link & Barbed Wire

Cost-effective perimeter solutions for large industrial



Applications in Industry

BSMWWIRE fencing systems are designed to protect some of the most demanding industrial environments. From oil refineries and ports to power plants and logistics hubs, our solutions combine strength, durability, and long-term value.

Applications in Industry

Engineered to Secure India's Critical Infrastructure



Oil & Gas Refineries



Ports & Naval Bases



Airports & Cargo Terminals



Power Plants
(Thermal, Nuclear, Solar, Hydro)



Warehouses & Logistics Parks



Mining & Heavy Industries



Industrial Complexes



EPC Projects



Government

TECHNICAL HIGHLIGHTS & COMPARISONS

Engineered for Strength,
Durability & Cost Efficiency



High Security



Tested Durability





Weather Resistance



Lifecycle Savings

Feature	Conventional Fencing	BSMWWIRE Industrial Fencing
Service Life	10 –15 years	25 + years
Anti-Climb	Moderate (can be breached)	High (razor, welded, square mesh)
Tamper Resistance	Basic mechanical strength	Very high tensile & reinforced
Maintenance	Frequent interventions	Minimal, low upkeep
Cost Efficiency	Higher lifecycle costs	Lower total cost of ownership

Razor Wire & Concertina Coils – Technical Specifications

Parameter	Specification
Coil Diameters	450 / 610 / 750 / 900 / 1050 mm
Expanded Length	6 – 15 m (depending on loops & C clips)
Loops	33 / 55 / 71
Blade Types	BTO-15, BTO-22, CBT-23.5, CBT-28
Core Wire	2.5 mm (GI), 2.6 mm (SS)
Blade Thickness	0.35–0.5 mm (GI), 0.45–0.55 mm (SS)
Materials	Galvanized, Stainless Steel 304/316
Corrosion Resistance	15 yrs (GI), 40+ yrs (SS316)

Welded Mesh Fences – Technical Specifications

Parameter	Specification
Wire Diameter	3 – 6 mm
Mesh Aperture	50×200 mm / 75×150 mm / 100×300 mm
Panel Height	1.8 – 3.6 m
Panel Width	2.5 – 3.0 m
Coatings	Galvanized, Powder Coated, PVC Coated
Welding	Spot welded at intersections
Post Types	Square / Peach / I-Beam / Round
Compliance	IS 4948:2002

Machine-Clamped Square Knot Mesh – Technical Specifications

Parameter	Specification
Wire Diameter	2.0 – 3.5 mm
Mesh Opening	50×50 mm to 300×300 mm
Knot Type	Square Knot (Machine Clamped)
Roll Height	0.5 – 4.0 m
Roll Length	25 / 50 m
Tensile Strength	1050 – 1350 N/mm ²
Coating	Hot-Dip Galvanized / Zn-Al / PVC
Corrosion Protection	ISO 9227 Certified

Power Fence – Technical Specifications

Parameter	Specification
Output Energy	3.0 J / 6.0 J / 10.0 J
Input Voltage	220V AC / 12V DC
Backup	12V Battery (4–12 hrs) / Solar
Multi-Zone	Up to 6 Zones (model dependent)
Alarm Triggers	Siren, App, Remote
Tamper Detection	Yes
Safety	Non-lethal, controlled pulses
Applications	Industrial complexes, warehouses, agriculture, defense

Gabion Mesh – Technical Specifications

Parameter	Specification
Mesh Openings	60×80 / 80×100 / 100×50 mm
Wire Diameter	2.2 – 4.0 mm
Materials	Low carbon steel (Galv or PVC coated)
Strength	350–550 N/mm ²
Box Sizes	2×1×1 m (customizable)
Mattress Sizes	6×2×0.3 m
Coating	Galv (200–275 gsm) / PVC
Applications	Retaining walls, slope stabilization, flood control

Chain-Link Fencing – Technical Specifications

Parameter	Specification
Wire Gauge	8G – 16G (GI) / 10G – 16G (PVC)
Mesh Size	25 – 100 mm
Heights	3 – 20 ft
Coatings	GI (20–275 gsm zinc), PVC (0.5–1.0 mm)
Roll Length	50 ft (customizable)
Lifespan	GI: 15–20 yrs, PVC: 20–30 yrs
Applications	Airports, railways, industries, institutions

Case Studies & Projects Executed

BSMWWIRE fencing systems are Installed at various sites including INS Rajali Airfield (Arakkonam), National Remote Sensing, MES sites in Yelahenka, Coimbatore, Cochin, West Bengal, Prappana Agrahara Prison (Karnataka), and major airports at Chennai, Kolkata, Nande Yelahenka air, Ahmedabad, Goa, and Porbandar – as well as for organisations such as Andrew Yule, ITC Ltd, Tata Group, AFT Industries, HPCL, Essar Group, Nirma Group, and many more.





Contact & Next Steps

Partner with Bengal Sheet Metal Works for industrial security fencing solutions.

Contact us for technical consultation, pilot projects, and EPC partnerships.

Phone: +91 9831179572 | Email: bsmwadm@gmail.com

Website: www.bsmwrazorwire.com

