



Bansal

the protectors

*Gabion Manufacturer With
The Most Advance Technology*



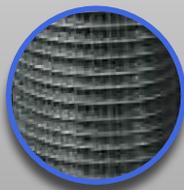
GABION
BOX



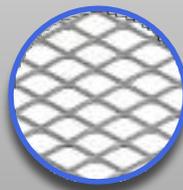
CHAINLINK
FENCING



BARBED
WIRE



WELD
MESH



EXPANDED
MESH

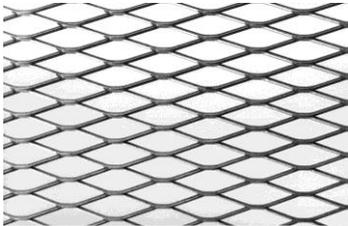
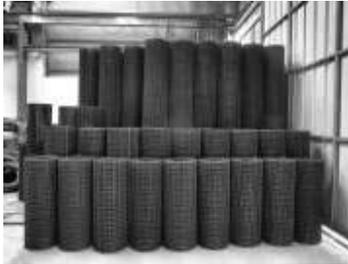
Believes In

 QUALITY

 CUSTOMER SATISFACTION

 TIMELY DELIVERY





ABOUT US

EXCELLENCE & RESPONSIBLE MANUFACTURING

Bansal Wire Tech is a world-class manufacturer of wire products like Gabion boxes, Chainlink mesh, barbed wire, weld mesh and PVC chain link mesh. With a state of the art production facility and a ISI certified laboratory, we are exceptionally equipped to handle the needs of the industry.

Our unit in Tehri Garhwal, Uttarakhand includes a top of the line Research and Development facility. Our production lines are highly automated and all products undergo a rigorous quality control process before being deemed acceptable. The objective of the company is to deliver reliable and efficient quality products and we are the first manufacturers of Gabion boxes in Uttarakhand.



SECURING FUTURE

We, at Bansal Wire Tech, consider ourselves to be playing a vital role in safeguarding the future of the environment.

With our quality wire products that are manufactured under the most stringent care, we offer long-lasting solutions for geo-environmental problems, agriculture, railways, roadways and the mining industry.

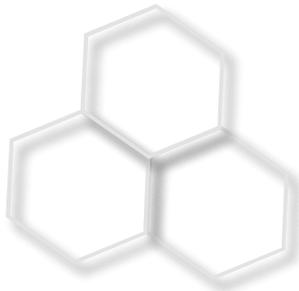


The heart of our facility

ISI Laboratory

Our unit has an in-house ISI certified laboratory that acts as the litmus test for all the products that we manufacture. It is a fully equipped research and development centre that makes sure that all our products adhere to the technical specifications. All raw materials are tested for consistency here before they are sent in for the production process. Each finished product is rigorously tested here to ensure that what we deliver meets the client's expectations and is of the best quality.

flexible solutions for



GI GABION BOX

(HEXAGONAL DOUBLE TWISTED)

PVC COATED GI GABION BOX

(HEXAGONAL DOUBLE TWISTED)

GI & PVC CHAINLINK

(FOR FENCING)

EXPANDED MESH

(STAINLESS STEEL MESH / BURFI JALI)



Thoroughness & Diligence



For each of our products, we follow a carefully laid out production process flowchart. Our machinery is highly automated and is procured from the best in the world. At each stage of the production, steps are taken to ensure that all technical, quality and client requirements are being complied with. The raw material is inspected thoroughly before being fed into the assembly line. The manual labor stages of the production process are closely supervised. The end product is tested for quality and technical specifications before being dispatched. Each member of our team works hard to ensure that all the parameters of excellence that we have set for ourselves are truly visible in the product that we deliver.

OUR PRODUCTS DEFINE US

The values that we adhere to, will be reflected in the products that we deliver. To ensure our products achieve the excellence that we strive for, we stand by our commitment to our core values.

Excellence, **T**eamwork, **H**onesty,
Integrity, **C**ompetence, **S**kills

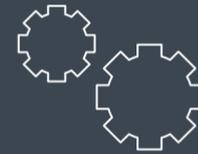
your business needs

GI BARBED WIRE
(KATE-DAAR TAAR)

GI WELD MESH
(JALI)

EXPANDED GI MESH
(BURFI JALI)

MS WELD MESH
(JALI)



QUALITY IS OUR UTMOST PRIORITY

We take particular care to confirm technical specifications and strength requirement for each Gabion box project that we are entrusted with.



A WORLD-CLASS MANUFACTURER

Our product is designed for durability and strength, and the galvanisation process ensures an even coating. Our GI products are resistant to corrosion, moisture and other external factors caused by weather.

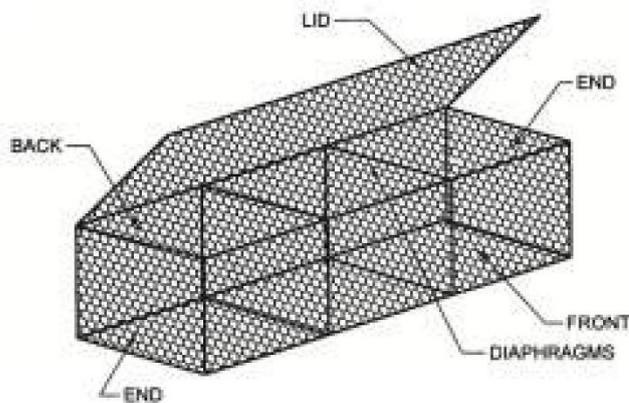


Wire product manufacturer with The Most Advance Technology

We are the first manufacturers of Gabion boxes in Uttarakhand.

Bansal Wire Tech offers a range of specialty wire products that range from Gabion boxes that are tailor-made for Geo-technical engineering to Barbed Wire meant for fencing purposes. Each of our products goes through our well-oiled production process and stringent quality measures to ensure that what we deliver is the best that we can offer.

GI and PVC Double Twisted Hexagonal Gabion Boxes

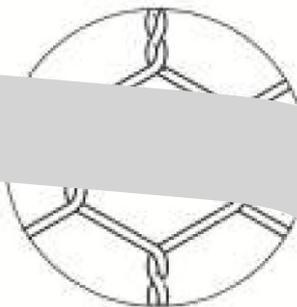


Gabion Boxes are rectangular structures made of double twisted, hexagonally woven steel wire mesh. They comprise of compartments separated by internal diaphragm walls. The boxes are filled with natural stone at the project site to form structures that are solid, flexible, durable and permeable.

Gabion boxes are applicable wherever there is a requirement for earth retention and reinforcement. They are used as retaining walls, water channel linings, river barriers, for protection of railways and roadways, weirs, revetments, slope protection and for flood control and erosion control. Their anti-corrosion properties

make them immensely suitable as environmental and geo-technical building blocks.

Our Gabion Boxes are as per **ISI Standards**. They come in a variety of sizes and are either PVC coated or Zinc coated according to the project requirements. We take particular care to conform to technical specifications and strength requirement for each Gabion box project that we are entrusted with. Our attention to detail and firm commitment to quality make us a world-class manufacturer of Gabion boxes.



MESH TYPE AND NOMINAL
SIZE 'D'

**Min Mass of Zinc Coating for Heavily Coated, Soft Type for Different Wire
Used in Gabion, Revet Mattress & Rockfall Netting**

S. No.	Nominal Diameter of GI Wire (mm)	Mass of Zinc Coating (g/m ²)	Permitted Tolerances on Wire Diameters (mm)
i	2.00	240	± 0.05
ii	2.20	240	± 0.06
iii	2.40	260	± 0.06
iv	2.70	260	± 0.07
v	3.00	270	± 0.08
vi	3.40	270	± 0.09
vii	3.90	280	± 0.10



Mesh & Box Characteristics

S.No	Characteristics			
1	Mesh Type	100X120		
		D = 100 mm		
		Only Zinc Coating		Zn + PVC Coated
2	Mesh Wire Dia (mm)	2.70	3.00	2.70/3.70
3	Edge / Selvedge Wire Dia (mm)	3.40	3.90	3.40/4.40
4	Lacing Wire Dia (mm)	2.20	2.20	2.20/3.20
5	PVC Coating Thickness (mm)	N/A		Nominal - 0.50
				Minimum- 0.40
6	Minium Tensile Strength (Parallel to Twist)KN/m	32.00	40.00	32.00
7	Minium Tensile StrengthPerpendicular to Twist (KN/m)	15.50	20.50	15.50

Commonly used Gabion Boxes

S.No	L X W X H	Diaphragm	Sq. Mt
1	1.00 X 1.00 X 1.00	6
2	1.50 X 1.00 X 1.00	8
3	2.00 X 1.00 X 0.30	1	6.1
4	2.00 X 1.00 X 0.50	1	7.5
5	2.00 X 1.00 X 1.00	1	11
6	2.50 X 1.00 X 1.00	1	13
7	3.00 X 1.00 X 0.30	2	9
8	3.00 X 1.00 X 0.50	2	11
9	3.00 X 1.00 X 1.00	2	16
10	3.00 X 1.00 X 1.50	2	21

Tolerance in Size of Gabion Boxes

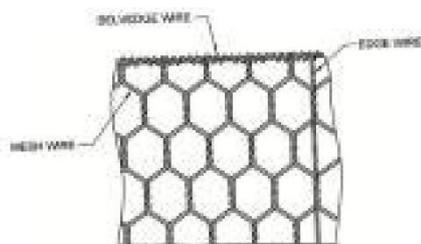
- Length ± 5 Percent * Width ± 5 Percent
- Height > 0.3 m ... ± 5 Percent
- Height ≤ 0.3 m... ± 10 Percent

Area Calculation :

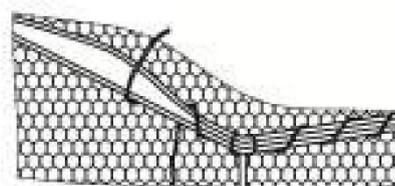
$$L \times 2(W+H) + (2 + \text{No of Diaphragm}) \times W \times H$$

Example :-

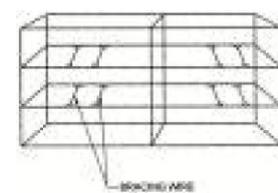
- Box Size : 3.00 X 1.00 X 0.30
- $3 \times 2 (1 + 0.3) + (2 + 2) \times 1 \times 0.3 = 9$



MESH WIRE, SELVEDGE AND EDGE WIRE



LACING WIRE FOR TYING

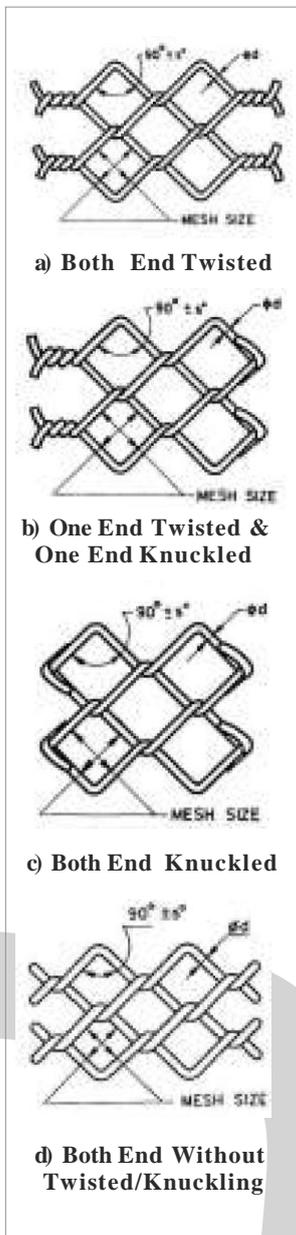


BRACING WIRE/STIFFNER

GI and PVC Chain Link Fence



Chain Link fences are made from high-tensile steel wire woven together helically to form a continuous fabric. These fences are either zinc coated or PVC coated according to the project requirements. The coating ensures that the fences stay corrosion free and are long lasting. Our top quality Chain Link fencing material can be customised to your needs and is as per *ISI Standards*. Chain Link fencing can be used wherever there is a need for a secure and durable boundary.



Dimensions and Tolerances				
Mesh Size (mm)	Nominal Dia of Mesh Wire (mm)	Line Wire		
		Diameter (mm)	Number of Wires	
			Upto & including 2 m width	Above 2 m Width
25 ± 3	2.00	2.50	2	3
	2.50	3.15	2	3
	3.15	4.00	2	3
40 ± 4	2.00	2.50	2	3
	2.50	3.15	2	3
	3.15	4.00	2	3
	4.00	4.50	2	3
50 ± 4	2.50	3.15	2	3
	3.15	4.00	2	3
	4.00	4.50	2	3
	4.50	5.00	2	3
63 ± 4	3.15	4.00	2	3
	4.00	4.50	2	3
	4.50	5.00	2	3
75 ± 4	3.15	4.00	2	3
	4.00	4.50	2	3
	4.50	5.00	2	3
	5.00	5.50	2	3
100 ± 5	3.15	4.00	2	3
	4.00	4.50	2	3
	4.50	5.00	2	3
	5.00	5.50	2	3
125 ± 5	4.00	4.50	2	3
	4.50	5.00	2	3
	5.00	5.50	2	3
150 ± 5	4.00	4.50	2	3
	4.50	5.00	2	3
	5.00	5.50	2	3

PS: Sizes other than those mentioned above shall be supplied subjected to agreement

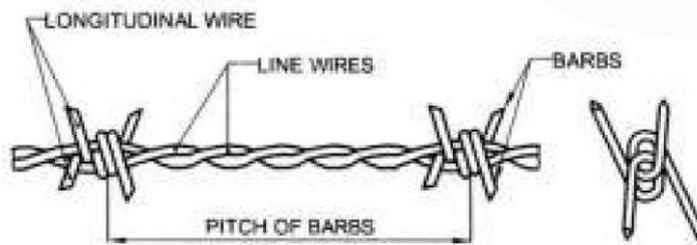


GI Barbed Wire



Barbed Wire finds its use mainly in the area of fencing and protection. Our product is designed for durability and strength, and the galvanisation process ensures an even coating. Our GI Barbed Wire is resistant to corrosion, moisture, weather and other external factors.

Our product is IS:278 certified. GI Barbed Wire is used to create a durable boundary to keep intruders out, as a holding pen for animals, in high security zones, in industrial and military areas and in many other fields.



Sizes

Size Designation	Diameter of Wire				Mass of Completed Barbed Wire		Distance between two barbs (mm)	No. of Lays between Two Consecutive Barbs
	Line Wire		Point Wire		Max g/m	Min g/m		
	Nominal (mm)	Tolerance (mm)	Nominal (mm)	Tolerance (mm)				
1	2.50	± 0.08	2.50	± 0.08	155	136	75 ± 12	2 to 7
2	2.50	± 0.08	2.50	± 0.08	120	108	150 ± 12	2 to 7
3	2.50	± 0.08	2.00	± 0.08	125	108	75 ± 12	2 to 7
4	2.50	± 0.08	2.00	± 0.08	103	89	150 ± 12	2 to 7
5	2.24	± 0.08	2.00	± 0.08	106	97	75 ± 12	2 to 7
6	2.24	± 0.08	2.00	± 0.08	85	78	150 ± 12	2 to 7

Tensile Properties

S. No.	Size of Line Wire (MM)	Tensile Strength of Line Wire (N/mm ²)	Minimum Breaking Load of Completed Barbed Wire (kN)
i)	2.50	390-590	3.7
ii)	2.24	390-590	3



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Welded Wire Mesh



Welded Wire Mesh is a prefabricated material made from steel wires drawn together in a rectangular shaped mesh. It is a **high-strength material** used mainly for netting and fencing. Our Welded Wire Mesh finds its uses in the agricultural, mining, industrial, horticultural, civil works to construct Tunnels and Roofs Top Shuttering purposes. The mesh can be customized according to projects **requirement**.

Wire Dia (mm)	02 mm – 10 mm in thickness
Mesh Size (mm)	25X25 mm ,150X150 mm, 200 X 200 mm & Above
Width	Up to Two meters as per Party Requirement
Length	Up to Fifty Meters or above as per Party Requirement



Manufacturing Process

To manufacture Welded Wire Mesh firstly raw material Steel Wire is feeded in the payoff stands as per width of required sizes then the cross wires are feeded as per mesh size for jointing through spot welding machine by automatic electrically welding. Then horizontal wire moved to specified distance and another cross wire comes in and welded by the machine. This process goes till the desired mesh size, width and length of the welded wire mesh is met. The welded wire mesh is then pulled out for making Rolls or Sheets. Then the finished material welded wire mesh is sent to the lab for the inspection and quality check into lab. Then finally the final product Welded Wire Mesh is dispatched.



Quality Test

After Material is finally made and send to lab for the quality test are done as per IS 1566: 1982 and other relevant IS codes for Physical Properties of the material, Mesh Size, Mesh Wire Dia, Tensile Strength, Wrapping/Bend Test, and Finishing of the material and Chemical Properties.



SCHEME OF INSPECTION AND TESTING

A well-equipped laboratory is maintained with qualified staff and instruments to test the material as per specifications of the IS 1566 : 1982 and other relevant IS Codes with proper maintenance of manufacturing stages and other tests records of the test carrier out for the conformity as per IS Codes.

Expanded Mesh



Expanded mesh is a type of sheet which has been cut and stretched to form a regular pattern (often diamond-shaped) of metal mesh-like material. It is commonly used for fences and grates, and as metallic lath to support plaster or stucco. It is commonly known as '**Burfi Jali**'

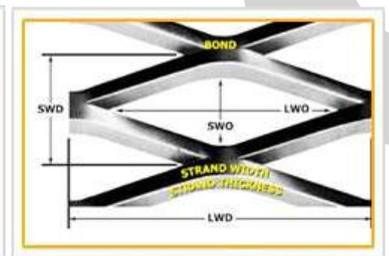
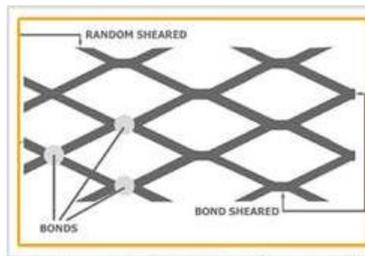
It is made from sheets of solid metals that all are slit and stretched with each stroke of the upper die, forming a raised diamond pattern.

This pattern is called regular or standard. This pattern varies by the gauge and type of material and the size of the diamond. The sheets can also be flattened by rollers for an optional style by passing them through a cold, roll reducing mill.

Expanded mesh (*Burfi-jali*) also can be manufactured in heavy gauges for applications such as walkways, ramps, and catwalks of all types. Frequently, the heavier gratings and catwalks are used in industrial plants for flooring and stair treads.

Due to the flexibility in materials and the sizes that it can be manufactured, expanded mesh (*Burfi-jali*) has a large application in filtration purposes. Thicker sizes with apertures above 1/2" also has certain general purpose applications like partitioning and covering for security.

Expanded mesh (*Burfi-jali*) is manufactured in Mild Steel (M.S.), Galvanised Iron (G.I.), Stainless Steel 304, 316 (S.S.) Aluminum (AL.) from 0.5 mm opening to 50 mm opening in all possible thickness



Our Strategic Priority

Overlying everything else is our total dedication to the cause of the environment. Our products are targeted towards environmental concerns. Our production processes are environmental friendly.

The Bansal Wire Tech production facility is categorised as a small-scale Green industry. We obtain raw materials that are already galvanised and annealed and no such chemical process takes place at our unit. No fuel is used during production and our machinery is run on electrical load taken from UPCL. Even the water used for cooling the machinery is recycled. Water is not used anywhere else during production. Our production processes do not generate any kind of waste – be it solid or water based. We can proudly state that our unit does not cause any pollution to the environment.



Our Commitment!

Bansal Wire Tech offers a range of specialty wire products that range from Gabion boxes that are tailor-made for Geo-technical engineering to Barbed Wire meant for fencing purposes.

Each of our products goes through our well-defined production process and stringent quality measures to ensure that what we deliver is the best.

Our Values

Quality, for us, is paramount. To that end, we have adopted Integrity as our mantra. Our heightened sense of responsibility towards the environment and towards our clients helps us to stay focused on the mission of the company.

Our work ethic is stellar and teamwork is one of our biggest assets.

-  **E**xcellence
-  **T**eamwork
-  **H**onesty
-  **I**ntegrity
-  **C**ompetence
-  **S**kills



To know more about us
scan code to view our website

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