



Bagmati
Gabion Box

COMPANY PROFILE



www.bagmatigabion.com.np

MESSAGE FROM CEO



RABINDRA BUDHATHOKI

Bagmati Gabion Box Pvt Ltd. is one of the Nepal's leading integrated gabion wire box based manufacturing company. Our success is driven by our people and their commitment to get results the right way-by operating responsibility, executing with excellence, applying innovative technologies and capturing new opportunities for profitable growth. We are involved in virtually every facet of the quality products. We explore for manufacturing and distribution of our products focusing on improving people's life through meaningful innovation in the areas of construction. The company is leading in manufacturing and distribution of the gabion box products and nails with NS quality products.

One of our most important company assets is our reputation for ethical behavior, honesty and fair dealing. As you know, reputation is very fragile assets that can easily be destroyed by the actions or failures of one or more of us. Because of unprecedented scrutiny on corporate behavior, we need to emphasize and reinforce our commitment and adherence to these standards.

Each employee is personally responsible and accountable for helping customers to maintain its reputation for the highest standards of integrity. Especially in times of rapid change, we need to earn the trust and loyalty of others. There are no short cut formulas or automatic answers to the choices we have to make business today; however, we should decide the questions in ways that are consistent with values.

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ABOUT US

Bagmati Gabion Box Pvt. Ltd., formerly known as Bagmati suppliers established in the year 2011 at Nuwakot district, the famous historical place and growing business hub of Nepal, supplying the product & solution for the preservation of the environment to the various government and private construction project running in Nepal.

With the advancement of technology & market demand of gabion products, on the year 2016 we started manufacturing gabion box by machine i.e machine fabricated gabion box. With the continuous support, suggestion and coordination from our esteemed clients, stakeholders we also started manufacturing chain-link fence and nails through machine.

Bagmati Gabion Box works in partnership with its clients, offering technical expertise to deliver versatile, cost effective & environment friendly solutions.

Bagmati Gabion Box, vision is to become a leading National provider of advanced solutions to the construction market. Implementing a strategy of vertical integration, Bagmati researches, designs, supplies and now constructs solutions within its target markets. With operations in Nuwakot Nuwakot district, you are never far from BAGMATI GABION's technical support and solution services.

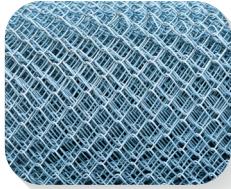


OUR PRODUCTS

Gabion Wire Box



Chain Fencing Wire



Broiler Farm Chain Fence

Nails



GABION BOX

Gabion is a cage, cylinder, or box filled with rocks, concrete or sometimes sand and soil for use in civil engineering, road building, military applications and landscaping'.

Gabions are boxes made of hexagonal double twisted woven wire mesh, divided into cells by means of diaphragms which helps to reinforce and strengthen the structures. They are interconnected with other similar units and filled with stones at the project site to form flexible, permeable and monolithic structures such as gravity retaining walls, channel linings, weirs etc.

Nowadays, Gabion structures are being used in various Civil Engineering structures. A gabion wall is a retaining wall made of stacked stone-filled gabions tied together with wire. Gabion walls are usually battered (angled back towards the slope), or stepped back with the slope, rather than stacked vertically.

All gabions shall be machine woven or handmade rectangular units made from double twist hexagonal mesh of heavy galvanized mild steel wire.

Wire Specification: The wire used for the manufacturing of gabions and mattresses shall be annealed mild steel complying with BS 1052:1980 or NS 169:2045 with an average strength of 380-500 N/mm² and shall be galvanized before weaving as specified in BS 443:1982 or NS 163:2045

S. No.	Box Dimension (Mtr.)			No. of Cell	Capacity (m ³)	Space (m ²)	Unit per Bundle
	Length	width	Height				
1.	3.0	1.0	1.0	3	3.0	16	
2.	2.0	1.0	1.0	2	2.0	11	
3.	1.5	1.0	1.0	1	1.5	8	
4.	1.0	1.0	1.0	1	1.0	6	

Tolerance: Length = 3.5% ; Width/Height = 5%

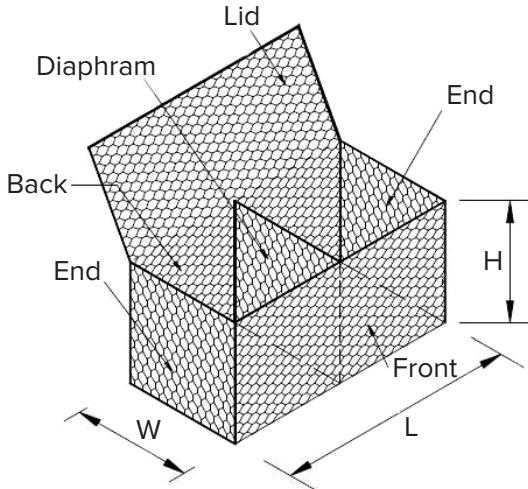
Binding/Lacing wire: Sufficient wire is supplied for binding and bracing operation; extra wire may be required depending on the type of structure constructed with the units.

Other size of gabion boxes are also available up on the customers' requirements.



BENEFITS OF GABION WALLS

- **Aesthetic** – gabion walls look natural and by using natural materials fits into the environment
- Compatibility with the environment – using the material made by excavations the costs of acquisition and transport are significantly reduced
- Is used as a cooling system in hot climate conditions and provides passive cooling by air movement
- **Water permeability** – gabion walls are permeable and are not damaged by passing water
- Efficiency of gabion walls can increase in time, since the vegetation fills voids and strengthens the wall structure
- Soil movements don't negatively influence gabion walls, which is an advantage in regard to stiffer structures (reinforced concrete walls)
- **Longevity** – stone blocks are materials that are frequently used because of their longevity, durability and stability. Usually the stone is selected because of aesthetic attributes or the possibility of excavation produced material usage



PRODUCT SPECIFICATION

The type and sizes of gabion and mattresses are shown in below:

Mesh Type	Diameter of wire			Box Size
	Mesh	Selvedge	Lacing or Binding	
10 x 12	3.00	3.90	2.40	L = 1.5m, 2m, 3m, 4m B = 1m, 2m H = 0.50m, 1 m,

The wire used for the manufacturing the gabions and mattresses should be annealed mild steel full fill the standard with IS 4826 : 1979 (latest) and NS 169:2045, having the tensile strength of maximum 540 N/mm², shall be galvanized before weaving as per NS 163 : 2045 or 4826 : 1979.

Diameter of wire, mm	2.00	2.20	2.40	2.70	3.0	3.40	3.90
Minimum mass of zinc Coating, gm/m ²	240	240	260	260	275	275	290

The combination of mesh type, mesh wire diameter & ultimate failure load shall be as shown below:

Mesh Type	Nominal mesh opening & Tolerances		Wire Diameter (mm)		UTS KN/m	Connection to Selvedges (KN/m)
	Mesh Opening (mm)	Tolerances	Mesh	Selvedge		
10 x 12	100.00	+16% -4%	3.00	3.90	43.00	20.00

All the gabions or mattresses of the longer equal or more than 2.00 should contain diaphragms spaced at a distance not more than 1.00m.

Specification for Zinc Coated Gabion Box

S. No.	Size	Wt. Per Box (Kg.)	Wt. of lacing per Box (Kg.)	Specification
1.	3 x 1 x 1	27.00	0.80	10 x 12 / 3.0 x 3.9
2.	1.5 x 1 x 1	14.00	0.45	
3.	2 x 1 x 1	19.00	0.60	

Note: 5% lacing wire is supplied in each box of Sq mtr.

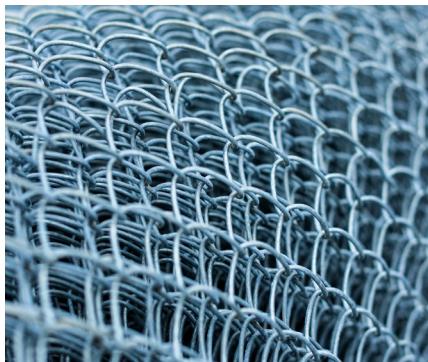
Note: Tolerance in box sizes are as per Standard Specification for Road & Bridge works 2073, issued by Government of Nepal, Ministry of Physical Infrastructure & Transport; Department of Road.



CHAIN-LINK FENCE

A chain-link fence (also referred to as wire netting, wire-mesh fence, chain-wire fence, cyclone fence, hurricane fence, or diamond-mesh fence) is a type of woven fence usually made from galvanized or LLDPE-coated steel wire. The wires run vertically and are bent into a zig-zag pattern so that each "zig" hooks with the wire immediately on one side and each "zag" with the wire immediately on the other. This forms the characteristic diamond pattern seen in this type of fence.

S. No.	Hole Dimension	Wire size	Available Size
1.	1 inch x 1 inch	3 mm / 2.4 mm	2 ft. Height
2.	1.5 inch x 1.5 inch		
3.	2 inch x 2 inch		
4.	3 inch x 3 inch		6 ft. height



NAILS

A nail consists of a metal rod or shank, pointed at one end with a formed head at the other that can be hammered into pieces of wood or other materials to fasten them together. Steel is the main material used in nail making. Aluminum, brass and other metals can also be used. The surface can be coated or plated to improve its corrosion resistance, gripping strength or decorative appearance. The head, shank, and point may have several shapes based on the intended function of the nail.

Finishing nail sizes typically available are:

S. No.	Nail Size	Diameter of Nail	Length of Nail
1.	8 SW	4mm	4"
2.	9 SW	3.65mm	3"
3.	10 SW	3.25mm	2 ½"
4.	12 SW	2.64mm	2"
5.	13 SW	2.34mm	1 ½"
6.	14 SW	2mm	1"



OUR PHILOSOPHY

Philosophy at Bagmati Gabion Box Pvt. Ltd. has always allowed us to have very clear goals, to satisfy the needs of our local and national client by delivering the best Nepal GI wire mesh products, in the given time and at a fair price. It is for this reason we have stick to business philosophy, with the aim of maintaining leadership by supplying the quality and prices that no one else in the market can offer.

OUR MISSION

Being the biggest GI wire mesh manufacturers in Nepal, our mission is to create relationships of trust with our customers by being a recognized company that is through the acceptance and preference of our products. We are committed to fulfilling the 100% satisfaction of the needs and demands of all our local and global clients. Bagmati Gabion Box does this by offering high-quality products, timely deliveries, continuous improvements in its processes.

QUALITY AND SAFETY

We focus our attention on high quality raw materials as a specialized company, with technical personnel trained in the proper installation of these products, resulting in work with well-installed finishes and guaranteed security. All our GI wire mesh PIONEER WIRES products comply with NS quality. Also, our professional and technical staff have safety equipment and accident insurance supplementary for risky work.

VARIETY OF PRODUCTS

Bagmati Gabion Box offers the most suitable products for the type of enclosure you need, starting with the advantage that all the materials used in the installation. We provide excellent quality and very competitive price to all our new and old customers. Some of the products that our clients love are Gabion Wire Box, Fencing Chain Fence & Nails that are ideal for industrial, construction, decorative and security use.



OUR VALUED CUSTOMERS

- Soil Conservation and Watershed Management Office
- Nepal Department of Water Induced Disaster Management
- Sita Shree Gas Udyog
- Nagarjun Construction
- Pranisha Suppliers
- Ashish Lohani / Surya Chandra J.V.
- AIPL PAPPU MRIT Sanjivani Nirmal Sewa
- Sichuan Hydrolic & Electric Co. Ltd.
- Sichuan ANHE Hyrolic & Hydro Electronic
- Himdung & Thokar Construction
- Namo Buddha Nirmal Sewa
- Richet Jalbidhyut Company Pvt. Ltd.
- Gangamala Nirmal Sewa
- Swochanda Worldwide / Amrit J.V.
- Sichuan Dinxin Construction
- Tenji Nirmal Sewa
- Rasuwa Hydropower Ltd.
- China International Water & Electronic Company
- Bouddhanath Builders



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