

# BIR DUNYA | BIG BAGS PRODUCTION



INTERNATIONAL MULTIMODAL  
TRANSPORT SERVICES



**BIRDUNYA**  
*logistics for peace*

# ABOUT US



Since the time we founded the transportation and logistics company «Bir Dunya» more than 10 years have passed.

«Bir Dunya» today is not only logistics & transportation company, but also a manufacturer of large polypropylene containers (big bag, FIBC) for storage and transportation of bulk goods.

All enterprises, small and big companies who faces a necessity of packing bulk goods with the weight form 1 to 2 tons are our customers.

All manufactured products are developed together with our customer and satisfies all their wishes- presence or absence of special lines for loading products in polypropylene containers FIBC, existing production cycle, mode of transportation, and etc.

We use only high quality of raw materials and special technological additives during our production process.

STAFF MEMBERS  
more than  
**100** employees

PRODUCTION OF THE GOODS  
PER YEAR  
**1 000 000** PIECES

# OUR FACTORY



Our plant for production of polypropylene flexible intermediate bulk containers (FIBCs) or Big-Bags includes all necessary production facilities and administration premises.

Bir Dunya company includes:

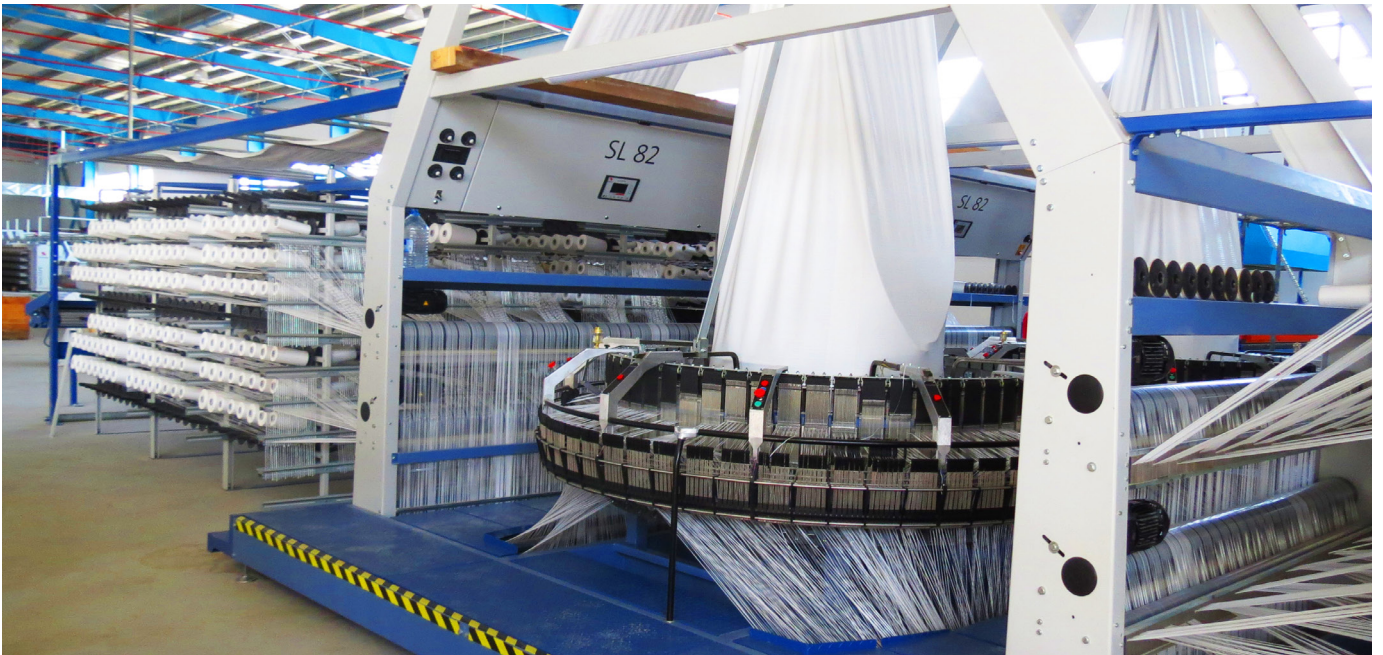
- Production facility
- Warehouse
- Vehicle fleet of trucks for delivery
- Skilled workers
- Professional knowledge and experience in FIBC production.

administration block  
approximately  
**2400**  $M^2$

square of manufacturing area  
approximately  
**7700**  $M^2$

Our company offers a complex of services:

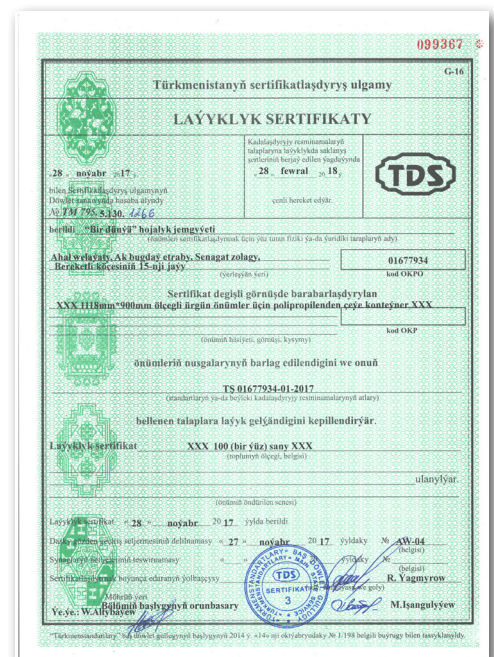
- Designing of packaging from scratch
- Skilled technologists will tailor flexible containers for your product, taking into account the bulk density of your material, FIBC specific application, their storage and transportation.
- Production of FIBC samples for practical tests.
- Delivery of FIBCs to the Buyer's warehouse doors.



The Bir Dunya plant has the latest generation equipment of the Austrian company applied for production of flexible specialized containers (Big-Bags):

1. An extruder (an extrusion line for thread production);
2. Linting belts weaving machine;
3. Circular looms;
4. Printing machines for markings;
5. Cutting machines for fabric and loops;
6. Sewing machines;
7. Laboratory equipment.

Our own control and measuring laboratory ensures strict control of technological processes at all production stages.

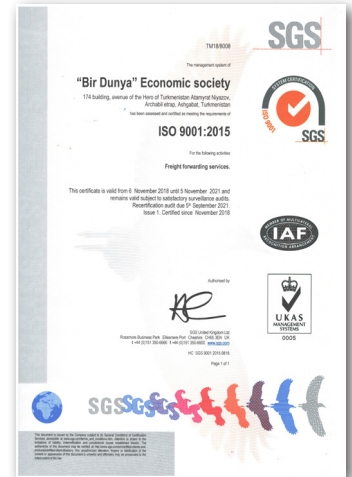


# OUR PEOPLE – OUR STRENGTH



Our employees are goal-seeking and skilled people with unsurpassed experience in production, which provides us with a reliable base. Our employees' work is based on the tailored customer-focused approach, high professionalism, responsibility and full confidentiality. Success of our plant and its productivity directly depend on them, therefore we give high priority to efficient development and raising awareness of our employees.

It was very important for us to create such working environment, which would positively affect motivation, satisfaction and efficiency of our employees. Knowledge and professionalism of our employees are the greatest asset of the company. The staff of our plant got training at Starlinger company in Austria and successfully passed examinations.



# CONDITIONS FOR A WORK



Our plant is a sustainable enterprise with smoothly running operation.

Optimum working conditions have been created at the plant: cloakrooms and shower blocks for men and women, washing rooms, a wardrobe with lockers for clothes and working clothes; bathrooms; rooms for storage and hand-out of overalls; a room for medical care; a canteen; a room for short rest during lunch breaks; offices for employees; a meeting-room; a room for labor safety with visual materials, safety signs, posters, brochures and instructions. The building is equipped with ventilation and air conditioning systems.



# DESCRIPTION OF THE PRODUCT



FIBC (Big Bag) or polypropylene bag for bulk (loose) freights – is the industrial container made of flexible material intended for storage and transportation of dry loose products.

At present, FIBCs are the most economic packaging type for various freights. They are widely applied for transportation and storage of various loose freights in chemical, construction and other industries.

FIBCs are recognized as a universal packaging as they can be structurally adapted for any cargo handling equipment and various bagging and loading stations.

## FIBC specification:

Capacity:  
1300 liters

Carrying capacity:  
1000-2 000 kg:

Type of load-handling elements:  
belts

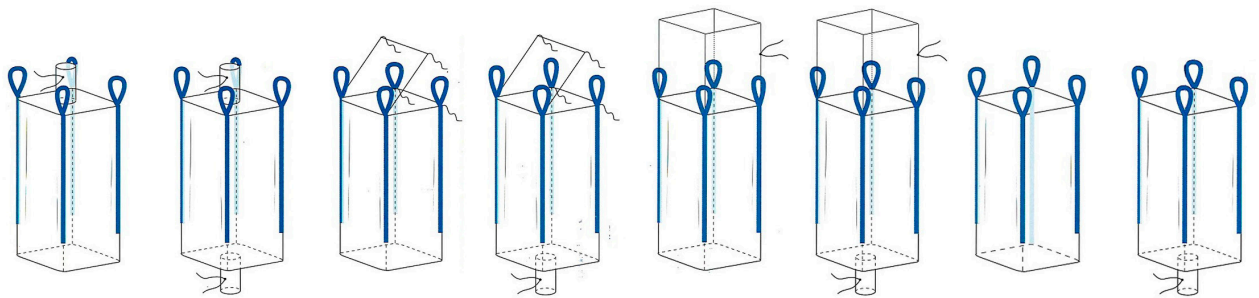
Number of loops:  
4-8

Additional structure elements: top spout, fold top, duffle top, bottom discharge spout

Safe factor: safety margin is 5:1 & 6:1. This ration shows how many times FIBC can exceed its carrying capacity

# BIG-BAGS ASSORTMENT

Depending on ways of loading/unloading, as well as on the machines and mechanisms planned to be used for lifting and transportation, four-loop FIBCs are produced:



<b>Top</b>	Spout	Spout	Cover	Cover	Duffle	Duffle	Open	Open
<b>Bottom</b>	Blind	Spout	Blind	Spout	Blind	Spout	Blind	Spout

Four-loop Big-Bags can be tailored for the needs of any production. It is possible to add loops, modify Big-Bag with additional elements, print logos in up to four colours based on the customer's request.



Heat resistant big bag

Standart big bag

1 & 2 loop big bag





# PROCESS OF THE PRODUCTION

## 1. Preparation of raw material

Polypropylene (PP) granules and additives are mixed up in the blender under control of our skilled experts. Ready mixture flows into the extruder and melts at high temperatures. Then, the fabric is cooled and cut into thread-tapes. Our operators' task is to achieve qualitative parameters by warming and stretching of threads.



## 2. Forming a PP sleeve (tube)

The approved consignment of thread-tapes is transferred by our operators to the circular looms to form infinite sleeve (tube) which is automatically wound in a roll. When the roll gets a certain diameter, the operator stops the machine and removes a roll for a further stage.



We produce both standard and individual customer-specified FIBCs of different sizes. There are many technologies to sew Big-Bags.

Production of Big-Bags is a creative process, in particular, when they cover complex objectives. As producers, we are ready to offer the most favorable terms on purchase of Big-Bags. We introduced modern control systems enabling to manufacture Big-Bags within a short period of time.



### 3. Cutting / printing

Ready rolls are delivered by a special device to a cutting machinery (thermal cutter). The operator receives cut parts of the PP sleeve (tube) and sends them to the flexographic printing machine to print the necessary text information or images.



### 4. Sewing / packing

All parts of a FIBC including loops and labels are sewed in an integrated whole. For this purpose, sewing machines are used. Sewing is made with PP threads. Then the FIBCs are pressed, put on the pallets and sent to the warehouse.

The professional team of employees will advise you in the optimum choice of a Big-Bag necessary for you or develop a new design based on your requirements.

#### Key advantages of FIBCs:

- Safety
- Durability
- Capacity
- Affordable price
- Cost-saving
- Easy transportation

# WAREHOUSING AND DISTRIBUTION



FIBCs (Big-Bags) are delivered to the warehouse on the pallets. Bir Dunya offers safe warehouses. Our warehouses meet all safety and security standards and are always ready to accept your freight.

There are two attractive reasons: for safety and security purposes, our plant is equipped with an anti-breaking system and a fire safety system. In addition to the main standards of hygiene, we can offer to our consumer certificates guaranteeing continuous checks. All goods are protected in such way that they could remain in our warehouse for as long as the customer considers it necessary.

Extensive warehousing and the distribution system of Bir Dunya company will pack, keep and distribute freights to any region by efficient means of transport. Special means for warehousing household goods and personal belongings are also available in all Bir Dunya locations.

Our warehousing services include:

- Short-term and long-term storage
- Freight loading/unloading
- Freight marking and packing
- Fumigation and disinsection (pest control)
- Packing

# INTERNATIONAL EXHIBITIONS

Exhibition dedicated to the opening of buildings of members of the Union of Industrialists and Entrepreneurs of Turkmenistan



National exhibition of Turkmenistan in Tashkent



Exhibition dedicated to the X anniversary of the Union of Industrialists and Entrepreneurs of Turkmenistan



International Exhibition «Oil and Gas of Turkmenistan»



# VARIOUS TRANSPORT VEHICLES TO ACHIEVE THE RESULT



Bir Dunya company carries out freight transportation by air, railway, maritime, road transport, as well and by means of multimodal (combined) transportation. The widespread multimodal schemes of delivery expands opportunities for freight delivery.

Our company applies all opportunities to achieve optimum delivery terms of freight. We have no limits in the choice of means of transportation, which allows customers to determine themselves the most acceptable cost and delivery time of freight.



# OUR FLEET



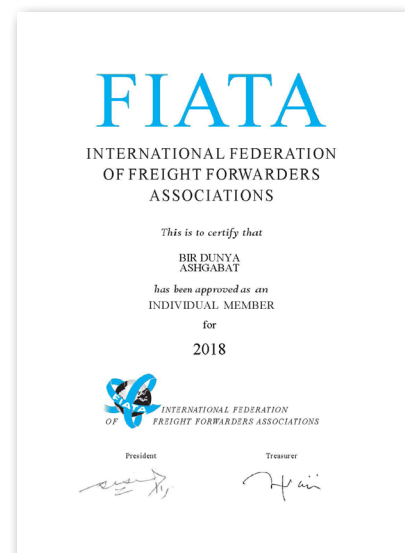
Bir Dunya company possesses a modern vehicle fleet of trailers for trucks. Our trailers are of the following sizes: length is 13.60 m (+4m), width is 2.50 m, 2.75 m. The loading capacity is from 50 tons to 80 tons. Trailers can be loaded with 26 industrial pallets or 33 Euro pallets.

For the best safety of your freight, we provided cargo compartments with appropriate support systems.

## Maintenance.

We give preference to high-level maintenance of our vehicles and the equipment. For this reason, we have an auto repair shop in the garage of our base where technical and repair works are carried out.

For freight transportation by road, our company uses special vehicles. Bir Dunya uses its own fleet of trucks. Vehicles include closed all-metal trucks, tent trucks, refrigerators, low-tonnage trucks, rolling stock and semi-trailers of various working capacity. Wide opportunities of the trucks fleet allow transportation of goods of any volume. The Bir Dunya experts also render multimodal transportation services



# CUSTOMS SERVICES



Skilled staff of Bir Dunya company have in-depth knowledge of legislative regulations referred to customs clearance of goods. It allows us quick and trouble-free processing of freight. We offer both a complex service package, and single rendering of services by the customs representative. All necessary procedures are carried out in strict compliance with the current legislation of Turkmenistan and standard requirements that allows quick going through all stages of customs clearance for goods of various specification.

Customs clearance services include:

- Customs clearance of import/export cargoes;
- Clearance of complicated customs regimes;
- Consultations on all issues of customs declaration;
- Choice of a classification code for goods under the Commodity Nomenclature of Foreign Economic Activity;
- Preparation of documents for customs clearance of goods;
- Pre-calculation of customs fees;
- Information on customs duties rates;
- Assistance in the procedure of obtaining sanitary and epidemiological certificates, certificates of conformity, hygiene certificates and other relevant documents;
- Customs clearance of freights in terminals;
- Customs clearance procedures of freight, including freight with strict requirements for transportation and storage;
- Customs clearance of any imported freight, which includes obtaining certificates and other relevant documents;
- Representation of the customer's interests in the customs authorities;
- Insurance and forwarding of export-import freights

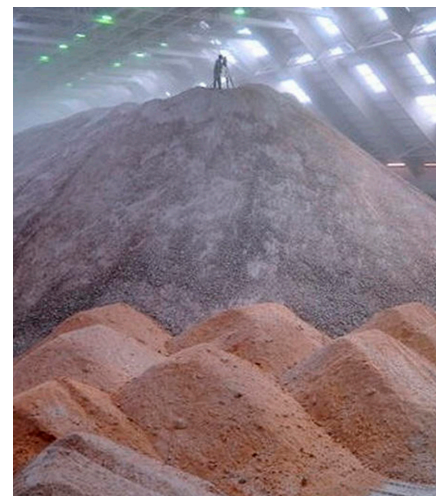


# BIG-BAGS ARE LOADED IN MOTOR TRANSPORT BY MEANS

FIBC is an economic packaging, which can be applied for logistic purposes and for storage of chemicals and food products, construction materials, etc. Annually, the demand in use of FIBCs increases.

FIBCs are successfully applied in the following industries:

- In chemical industry - for transportation of nonaggressive loose substances, including household chemicals and mineral fertilizers. The material of the bag practically does not react with chemicals.
- In agriculture - for delivery of fertilizers and soils, as well as seeds. Bags do not harm seeds and do not react with fertilizers.
- In the food industry - for packing, storage and transportation of foodstuff: grain, flour and flour products, etc. At the same time, FIBCs are neutral due to environmental friendliness. Packing is facilitated by the valve.
- In construction - for transportation of building materials: fillings, cement, sand, crushed stone, waste, etc. Strong bags allows lifting heavy weight freight, whereas loops allows holding it by a lift loader.
- In metallurgy - for transportation and storage of sand, copper sulfate and iron vitriol, ferroalloys and other materials necessary for industrial process.
- In mining industry - for sand, clays, betonites, kaolin, abrasive substances, etc. For these purposes high durability bags are required.
- For products of woodworking industry: biofuels (briquettes, pellet), sawdust. The large volume of FIBC and loading convenience are of great importance.





# SUPPLY CHAIN MANAGEMENT

## Ordering and analysis



## Production



## Destination point



## Multimodal transportation



Bir Dunya company applies a supply chain management system. With opening of our plant on FIBCs production, the chain of possible services considerably extended. The team of our experts starts their work with processing of your order. Our employees analyze your requirements and characteristics of freight and develop an optimum route for the delivery.

Our plant and its employees manufacture FIBCs using first grade polypropylene, arranging the production of a shipment to meet the transportation requirements of your order, whether it be transportation of cement or wheat.

Depending on indicators of transportation, FIBCs are designed in the required option of pre-selected type of the FIBC cover, bottom and size/capacity. This provides convenience at loading/unloading and transportation.

Ready big-bags are packaged on pallets, loaded into our truck with further delivering to a place where they can be filled with cargo, for which they were produced.

Sewing



Ready big bags



Customs services



Packing and loading



Ready FIBCs are packed and placed on the pallets, loaded into our trucks to transport them to the place where they will be filled with products for which they were manufactured.

After filling FIBCs with products, our company carries out loading works. Depending on a geographical location of the destination point, one type of transport or several types in a complex (multimodal transportation) can be used. Our experts process all documents including customs papers. The freight follows a strictly specified route developed by our experts. Further, our client receives the freight at the destination point.

We are ready to provide all services to you from start to finish saving your time and money!

# QUALITY CONTROL



Our company pays special attention to our production quality assurance.

Quality control is carried out in the laboratory equipped with modern instrumentation and includes several stages:

1. control of strength characteristics of polypropylene flat threads, stitching threads and loops – by the computerized strength testing machine;
2. control of weight parameters of ready packaging;
3. quality control of logo printing;
4. quality control of end product.

In addition to stage-by-stage laboratory quality tests, our technologists oversee compliance of the technological process on each production operation with the established regulations, terms and conditions of your order.

# OUR CERTIFICATES

The products manufactured by our company are standardized, certified and meet hygienic requirements.

Sanitary and epidemiological certificate



Certificate for measuring instruments



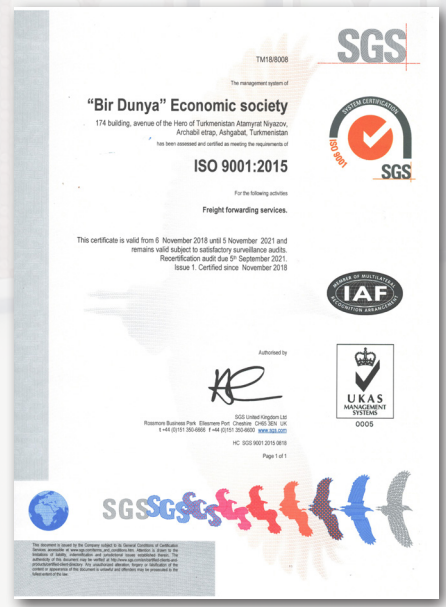
Safety Certificate



Certificate for EFIBCA



SGS Certificate



# OUR CONTACTS

## HEAD OFFICE

№174, "Union of Industrialists and Entrepreneurs", 10th level, A.Niyazov avenue, Ashgabat 744001, Turkmenistan.

+993-12-210725

+993-12-210729

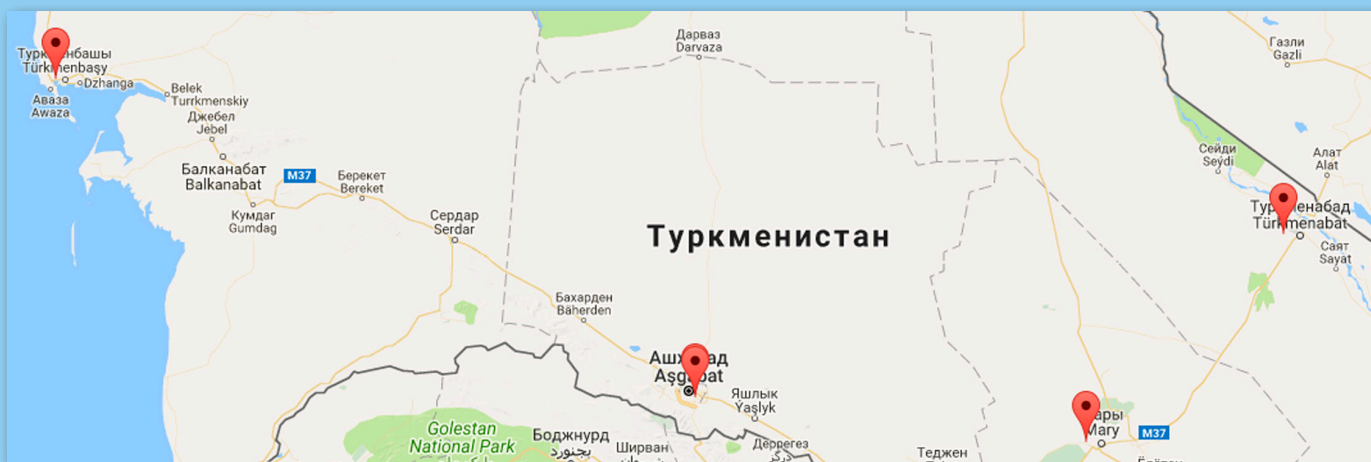


## FACTORY

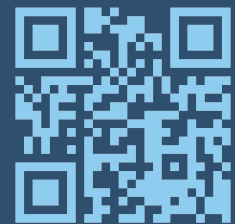
Polipropilen big-bags production factory industrial zone, block 15, Ak-Bugday, Ahal region, Ashgabat, Turkmenistan

+993-12-210725

+993-12-210729



№174, Union of Industrialists and Entrepreneurs  
10th level, A.Niyazov avenue  
Ashgabat 744000, Turkmenistan  
Tel.: +993-12-210725  
Fax: +993-12-210729  
Email: [info@birdunya.com](mailto:info@birdunya.com)  
Web: [www.birdunya.com](http://www.birdunya.com)



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TRANSPORT SERVICES



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