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# PACKAGING MEDIA SCIENTIFIC RESEARCH AND EXPERIMENTAL INSTITUTE, SOFIA <br> DP/BUL/71/500 

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# United Nations Development Programme 

PACKAGING MEDIA SCIENTIFIC. RESEARCH AND EXPERIMENTAL INSTITUTE, SOFIA DP/BUL/71/509
bllgaria

## Proiect findines and rucomonticne

Propared for the Covemmat of Bulgaria by the United Netions Industrial Devolepment Orgmizetion, cocoutine amacy for the United Netions Dovelopment Progrume

Explanatory notes

Peferences to "dollars" (\$) indicate United States dollars.

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## I. INTRODUCTION

The Government of Bulgaria has in recent years encouraged accelerated development of domestic and foreign trade. Trade relations have been established with more than a hundred countries and Bulgarian products are being exported abroad. In a number of reconmendations, the Intemational Organization for Standarlization (ISO), the International Air Transport Association (IATA), the International Civil Aviation Organization (ICAO) and others have slogested that the goors he packaged in accordance with international technical standards and that the quality of packaging should correspond to them in order to be capahle of meeting up-to-date requirements.

Urgent need for improving the packaging standards has also been recognized in relation to the development of a new form of trade in Bulgaria, that is, the self-service shops and supermarkets which are supplied with the individual packaged goods in large quantities.

## Packaging Research Institute

The Government's 5th Five-Year Plan (for 1965-1970) emmhasized the need for the accelerated development of the national packaging industry and in order to ensure the corresponding research and experimental background, it was decided, in April 1967, to establish a packaging research institute. In 1968 the Council of Ministers, in a decree published in the State Newspaper, confirmed the creation of the "Packaging Media Scientific Research and Experimental Institute" (NIERA), Sofia. The purpose of the Institute is to organize research and experimental activities in packaging and undertake extension services to the industry in this field. The Institute is attached to the Ministry of Home/Trade and Services and is supervised by the State Committee for Science and Technology.

The Institute has ten departments, as follows:
Economical research, forecasts and concepts
Packaging technique, pallets and containers
Paper, board, textiles, wood packaging and coating
Notal, glass and plastics packaging
Design
Training
Laboratories for physical-mechanical and physical-chomical tesiing

Analytical laboratory
Scientific and technical information
Administration
Through the joint work of these departments, complete co-ordination is established between the research and design activities. There is at present a total of 120 erployees of whom 50 are engineers.

In order to develop the Institute and strengthen its activities, a project on packaging was included in the country programme for the period 1972-1976 at the 13th Session of the Goveming Council of the United Nations Development Programe (UNDP), January 1972. Following the Govermment's request, a project document was elaborated and prepared in detail with the assistance of the executing agency, the United Nations Industrial Development Organization (UNIDO). It was signed by the Government of Bulgaria, by UNIIO and by URDP on 29 December 1972. At the beginning, the duration of the project was fixed as two years, but during the implementation it was increased to three years, that is, until 31 December 1975.

In view of the fact that the Institute had been in existence for some years and already had a reasonably qualified staff of professionals and technicians as well as the director of the Institute and co-manager of the project, M. Konev, who is well known as a specialist in the packaging field, it was decided to implement the project without a project manager. The project manager's duties, since the beginning, have been carried out by an expert of the UNIDO staff, Alexei Nemtchinov, and the money allocated for the post has been distributed within the project.

At the commencement of the project on 1 January 1973, a new building for the Institute had been erected in Sofia. Owing to the rapid increase in the cost of equipment and in fees charged to training, and difficulties encountered in the recruitment of experts, it was necessary to revise the project in March 1973, in March 1974 and again in February 1975. There were also two tripartite reviews held at the project site, in March 1974 and in February 1975.

## Objectives of the project

The project is primarily research-oriented and does not have a significant investment potential. The major long-term objective is to strengthen the activities of the Institute so that the final application of its research and experimental work will have immediate influence on trade. The major short-term objectives, which were made before starting the project, are:
(a) To co-ordinate, and establish permanent control over, the activities of all production plants and trade organizations in the field of packaging in Bulgaria. (It is envisaged that the Institute will determine present and future perspectives of the packaging industry and establish a plan for co-ordination in package development and production in different branches of the national economy.) The carrying out of investigations and surveys of the packaging industry in the country, in relation to packaging materials and equipment and methods of transportation, will help the Institute in its work and prevent duplication of activities;
(b) To elaborate, for the pertinent production and commercial enterprises, methodical instructions for the manufacture and use of all kinds of ready packages and packaged materials for both domestic aud export markets;
(c) To organize and certify the import of packaging equipment, packaging materials and complete packages;
(d) To assist in the conclusion of special contracts with foreign packaging contractors. (Bearing in mind the state of the packaging industry in the country, its needs and concrete ways to meet them, the Institute is expected to act as a consultant in any bidding and contracting procedures.);
(e) To contribute to improving the professional level of specialists and to widening the scientific-technical information services available. For these purposes, the Institute will organize and carry out courses in packaging, establish permanent contacts with international organizations, and participate in various meetings, symposia and conferences in the country and abroad;
(f) To carry out techno-economic investigations and make projections for the construction of new departments and enterprises for the production of packaging materials and packages based on the use of the latest packaging techniques;
(g) To develop standardization and unification for packages, taking into account the fact that the national packaging industry, whose development is one of the most important goals of the project, must meet international standards. To this end, the Institute will elaborate national packaging standards and regulations, giving special attention to standardization in transport and loading/ unloading processes which use the progressive pallet system;
(h) To assist in designing new consumer and transport packages of all kinds as well as various pallets for the packaging industry.

The rapid increase in commodity prices and the general instability of convertible currencies made for certain difficulties in the implementation of the project. In addition, it is considered that two years are not enough for a large-scale project of this kind. The duration should be, as a general rule, not less than three years.

At the beginning of the project, some difficulties were also encountered in placing the Bulgarian fellows in suitable firms abroad. Nevertheless it may be said that their training programes were successful. They have made it possible to reduce the mumber of intemational experts needed for the project.

At various stages of the project, six international experts and consultants rendered their assistance to the Institute. This assistance permitted the Institute to achieve a basic level of expertise more quickly. All the accepted recommendations of the experts were implemented during the life of the project, as follows:
(a) The technoclimatic laboratory was equipped with a salt-solution spray chamber that includes devices for measuring surface temperatures, air pollution and vibrations during test joumeys;
(b) The mechanical testing laboratory was completed with a machine for tensile, bending and compression testing of materials;
(c) The packaging testing laboratory was equipped with an electronic measuring systcm consisting of oscilloscope, transducers for vibration and shock testing, measuring anplifier, four-track tape reconder and digital event recorder, one-channel direct recorder, frequency spectrometer etc.;
(d) The climatic chmber was completed by the addition of equipment to moasure temperature and selative husidity; to measure temperature on surfaces, in goods and in the air; to measure velocity of air surrounding goods; to determine the dewpoint in the air; to detect the flow and strength of air currents and to determine the gases evolved during ripening processes;
(e) The plastic department was equipped with a gas-chromatograph for qualitative and quantitative determination of retained solvents in coatings, adhesives and lacquers of packaging matorials;
(f) Some of the work premises were reconstructed and, consequently, the capacity of the effective work area of the building was increased by approximately 10 per cent;
(g) All specialists of the Institute have been involved in the preparation of a "NIERA packaging manual".

As a result of the follow-up to the experts' recommendations, the technology in the laboratories was considerably improved.

The training programme was completed in full during the project. A11 the selected fellowship holders were trained abroad and resumed their employment in the project. All of their reports stress the importance of their training, which enables them, in turn, to train Bulgarian specialists in the field and to perfect the qualifications of technical engineering and economics specialists working in the field of trade and economy in the country. For example, more than 350 persons attended the training courses and seminars held by the specialists of the Institute, and three of them took post graduation courses in the Higher Chemical and Technological Institute, Sofia. Ten persons were helped to prepare for their graduation diplomas, with the aim of ensuring their specializing as future experts in packaging. Such activities seem to be very important for the development of packaging in the country and in future similar training progranmes should be foreseen in the working plan of the Institute, especially in the field of construction of plastics and metal packaging, taking into account their rapid development in the world.

As a result of the project implementation, the Institute has gained a high degree of competence in packaging and hence is able to independently organize various seminars and training courses for packaging specialists from developing countries. The Institute has elaborated a special programme which is being used as a pattern for such courses (annex VI). As a good example, a symposium on packaging, with the assistance and participation of the specialists from the Institute, was held in Plovdiv (Bulgaria) in 1974. Some 850 participants from ministries, scientific organizations and enterprises manufacturing packaging materials and packages (including 37 firms from different countries) took part. Thirty-four papers were presented in the course of a week, and 50 reports were delivered by lecturers from 12 countries. The symposium was accommanied hy an exhibition of packaging techniques. The success of both the sumposium and the
exhibition was attested to by all participants. A similar undertaking is scheduled for May 1976 in Sofia.

Qualification courses are also being organized for specialists from packaging production enterprises throughout the country in collaboration with scientific and technical societies in the cities. Such courses were held at Pleven, Vidin, Razgrad, Tolhuhin, Sofia, Plovdiv etc., during the implementation of the project.

During the last years the Institute has taken part in international packaging symposia, conferences, congresses etc. It participated in the international packaging conference BUDAPAK in Budapest, in an international conference in Dresden and in the meeting of directors of packaging centres from the developing countries in Vienna. Recently it took part in the Congress of the European Packaging Federation where the first step to co-operation with this organization was established. Talks on the condition of participation of the Institute in the work of the organization have been held.

At these conferences and congresses the Institute presented papers on various aspects of packaging, for example, the efficiency or using nonreturnable packages, the prospects of using retumable packages, the mechanization of scientific and technical information in packaging, case study on the organization of packaging centre in a developing country etc. The Institute also participated in exhibitions and symposia on packaging in Dermark, England and the Union of Soviet Socialist Republics.

Additionally, the NIERA Institute has concluded bilateral agreements for cooperation in the field of packaging with the packaging institutes in Czechoslovakia, the Federal Republic of Cermany, the German Democratic Republic, Poland and other countries. Consequently, a continuous exchange of in 'rmation on certain packaging problems has been effected. This co-operation also includes the training of staff members. For instance, in 1975 one staff menber of the Institute received training in Italy in the design of new packaging machines.

One of the important achievements of the Institute during the implementation of the project has been the creation of the Scientific Research Information Service. It gives the Institute the possibility to follow closely all novelties in the development of packaging through a systematic processing of scientific and technical information published all over the world. The Institute subscribes to 160 periodicals and other specialized literature on packaging. This information is circulated anong all specialized institutes in the country.

The Institute has commended issue of a specialized 'Bulletin on packaging" which contains information processed by the staff. This activity is highly appreciated by various organizations and enterprises involved in packaging in the country. The Government of Bulgaria has supported this activity and allocates money in local and foreign currency for this purpose every year.

The rapid increase in the cost of equipment has created many difficulties in the implementation of the project. These have been overcome only through the urgent and effective measures undertaken by special project revision and tripartite review missims. Redistribution of the allocations within the project, necessary to cover the growing needs of the equipment component, have taken place three times already, or practically once a year. At the beginning of the project, a total of $\$ 333,400$ was allocated for the equipment component, covering the UNDP contribution; during the project this sum has been increased to $\$ 419,218$ by the redistribution of funds within the project. Such a flexible policy has contributed to the best practical implementation of the project.

Some of the equipnent delivered could not be installed by the project personnel. In these cases, assistance was given by the corresponding experts recruited to the project and by specialists specially invited from the manufacturing firms concermed. The payments for these services have been included in the total for the corresponding equipment. This is the most convenient arrangement; it accelerates implementation of the project, reduces the price and provides the project with the most competent service persornel.

In spite of delays, most of the equipment, to the value of $\$ 409,000$, has been delivered to the project site. The rest of the equipment has already been ordered and should be delivered to the project site during the first quarter of 1976.

The machinery and equipment delivered to the Institute are in good condition and already in normal operation. Owing to the fellowships awarded during the project's implementation, the staff members are trained and competent enough to handle the supplied equipment. However, it is important that, besides current maintenance, some consumable materials such as films, printing plates, and spare parts should be replaced and supplied periodically, taking into consideration their wearing out, as well as ensuring the proper operation of the machinery and equipment. It has been established, on the basis of statistical data regarding expenses for consumable materials and spare parts incurred for the last two years, that an approximate amount of $\$ 10,000$ should be allocated to ensure the proper maintenance and operation of the equipment supplied.

Finally, all of the above-mentioned undertakings and achievemente of the project have contributed to the working out, by the Institute, of about 400 national standards corresponding to international standards in various fields of packaging. Tinis fact is the most strikirig and the best demonstration of the successful implementation of the project.

The Institute is now able to apply some of the results (in addition to the above-mentioned):
(a) It is assisting Bulgarian industry to design new consumer and transport packages, using all kinds of materials;
(b) Its key staff, through the assistance of the intemational experts and of the former fellows, are now solving problems in modern packaging;
(c) It is organizing and conducting various seminars and courses in packaging for the representatives of developing countries;
(d) It is carrying out contiruous investigations and surveys of the packaging industry in Bulgaria, with particular regard to packaging materials and equipment, methods of transportation, and methods of protecting the environment by means of the re-use or destruction of already used packages;
(e) It is assisting Bulgarian industry to conclude contracts with foreign packaging contractors;
(f) It is carrying out techno-economic investigations in the field of packaging favouring the development of the packaging industry within the country.

In conclusion it can be said, and this is shown above, that practically all the objectives planned for the project at its beginning have been achieved during its inplementation.

## III. RECOMENDATIONS

1. The Covermment of Bulgaria should take all possible mames towands the most effective use of delivered equipment, ensuring the manal delivery of all necessary spare parts, materials and chemicals. An approximate anual average mount of $\$ 10,000$ would be needed.
2. The Institute should send local specialists abroad regularly in order to keep in touch with latest developments in the construction of plastics and netal packages.
3. The Institute should continue to conduct packaging courses and seminars for specialists from the developing countries.
4. The Institute should participate, on regular basis, in axchnge of knowledge and experience between other packaging institutes and centres with wich UNIDD and other international orgmizations are implementing projects. To mehieve this, membership of the Institute in the Buropen Packaging Foderation would be advantageous.
5. Attention should be given to developing further the activities of the Scientific Research Information Service of the Institute. The dissemdnation of scientific and technical information processed and collected by the Institute amons packeging institutes of the developing camtries would be divategous.

| N-20 | Runction | Mission |
| :---: | :---: | :---: |
| A. C. Poulter (United Kingdom) | Consultant on packaging | 30 Jma 1973-21 Mar. 1973 |
| M. Lubieniecki <br> (Federal Republic of Germeny) | Consultent on biological problems | 22 Jen. 1974 - 3 Feb. 1974 |
| 0. Arborg (Denimark) | Expert of climate control | 5 May 1974-29 July 1974 |
| A. J. Krosness (Noway) | consultant on electronic equipment | 16 July 1974-28 July 1974 |
| J. C. Wolfrim <br> (Foderal Republic of Cermany) | Expert on plastics packbging | 16 May 1974-28 July 1974 <br> 16 Oct. 1974 - 24 Nov. 1974 |
| E. Schmidt <br> (Poderal Ropublic of Cerneny) | Expert on tropical and arctic packaging | 22 Jan. 1974-3 Reb. 1974 |

Co-curetin proiect staff (date of assiruat: 1 Jn. 1973)

Ne
M. Konev
E. Marinova
V. Kirilova
E. Peneva
T. Knescebova
S. Sotechanaki

Baction
Director
Logal Advisor
Secrotary
Chiof Accountint
Chiof, Bcenomics Dopartment
Ohiof, Dopartmont of Glass, Plastic and Motal Packaging

## $\mathrm{N}=$

S. Pmajotov
E. Semisove
M. Dischovski
K. Kirkov
R. Stoilov
M. Marinov
L. Jorakov
M. Gormova
J. Tozeva
M. Tschervinka
A. Radoslavov
N. Ivenova
E. Andronov
T. Karaabova
J. Doitschinov
D. Makarieva
J. Ilieva
I. Dimova

Rnction
Chief, Department of Paper, Board and Wood Packages
Chief, Department of Scientific and Technical Information

Chief, Chemical and Biological Laboratories
Senior Research Officer
Chief, Laboratory for Physical and Mochanical Testing
Research Officer, Mechanical Engineer
Scientific Secretary, Research Officer
Chief, Department of Design
Photographer
Photographer
Research Officer, Mechanical Engineer
Research Officer, Chemical Engineer
Research Officer, Nechanical Engineer
Research Officer, Chemical Engineer
Metallurgical Engineer
Metallurgical Engineer
Research Officer, Chemist
Physicist
Annex II
FELLOWSHIPS ANARDED
Country and institution
Befan
25 June 1973 - 30 June 1973
1 July 1973 - 22 July 1973
23 July 1973 - 28 July 1973
13 Aug. 1973 - 23 Sept. 1973

13 Aug. 1973 - 23 Sept. 1973
24 Sept. 1973 - 14 Oct. 1973
15 Oct. 1973 - 3 Nov. 1973
24 Nov. 1973-25 Dec. 1973


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\begin{aligned}
& \text { Federal Peppblic } \\
& \text { of Germiny } \\
& \text { Technical High } \\
& \text { School of Arts }
\end{aligned}
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& \text { United Kingdom } \\
& \text { Wolpert and Jones }
\end{aligned}
$$

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& \text { Belgium } \\
& \text { General Adminis- } \\
& \text { tration for Co-operation } \\
& \text { in Development } \\
& \text { Federal Republic of } \\
& \text { Gerniy } \\
& \text { Beratungstelle filr } \\
& \text { secmässigeVerpackung E.V. }
\end{aligned}
$$

$$
20 \text { Mar. } 1974 \text { - } 17 \text { July } 1974
$$

$$
28 \text { Mar. } 1974 \text { - } 1 \text { June } 1974
$$

22 May 1974-23 June 1974

$$
24 \text { June } 1974 \text { - } 20 \text { July } 1974
$$

$$
14 \text { Aug. } 1975-18 \text { Oct. } 1975
$$

One piece each of the following:
nollax

| Climatic chanber | 23,400 |
| :---: | :---: |
| Rumace for lacquering plate | 3,305 |
| Gauge for doep drewing of metals | 5,597 |
| Special hydrmulic press | 3,142 |
| Box vibration tester | 4,590 |
| Box compression tester | 13,750 |
| Pilot coating machine | 63,053 |
| Case sample making table | 11,250 |
| Laboratory heat sealer for platics | 3,300 |
| Plastic corder | 57,119 |
| Side-wall glass distribution malyeer | 5,600 |
| Mutomatic colour developer | 4,407 |
| Offset press | 13,300 |
| Electrostatic copying mechive | 12,130 |
| Composing typewriter | 14,000 |
| Gas chromatograph | 23,000 |
| Oecilloscope with accessories | 34,240 |
| Laboratory lacquering mechive | 2,797 |
| Aluminium deep drwing unit | 2,136 |
| Puncture tester for boand | 2,300 |
| Profilometre for glass bottles | 2,290 |
| Hot-end coating moter for sless | 2,000 |
| Studio-lettering machine | 2,000 |
| Inpact test for tinplate | 2,143 |
| Flat crush test for board | 1,500 |
| Himidity cabinet with refrigorator | 1,925 |
| Impact test for plastic film | 1,091 |
| Opanability test for plastic bees | 1,040 |
| Glass bottle filling line simulitor | 1,100 |
| Portable camera | 1,500 |
| Processing unit for litho-mens | 2,250 |
| Analytical balance | 1,100 |
| Micro-malytical balman | 1,586 |
| Opmi flow fume cupboard | 1,335 |
| Density meter with mocessorios | 6,500 |
| Polariscope with discs | 1,200 |
| Hanthess testor | 1,002 |

## Ancex IV

COURSES AND SEMINARS HELD BY THE SPECLALISTS OF NIERA

| Course of Symposium | Date | Participents |
| :---: | :---: | :---: |
| Post graduate course, Higher Mochanical and Electrical Institute "Lenin", Sofia | $\begin{aligned} & \text { June } 1973 \\ & \text { June } 1974 \end{aligned}$ | $\begin{aligned} & 30 \\ & 25 \end{aligned}$ |
| "Package and packaging techniques" course (under sponsorship of Scientific and Technical Council), Higher Chemical and Technological Institute and Higher Mechanical and Electrical Institute, Sofia | 1st half 1974 2nd half 1974 | $\begin{array}{r} 50 \\ 100 \end{array}$ |
| Seminar on bread packaging | 2nd half 1973 | $\boldsymbol{6}$ |
| Two sominars on packaging, under spensorship of Scientific and Technical Council, held respectively in Veliko Timovo and unkovit | lat anmerter 1973 <br> 2nd anartor 1973 | $\begin{aligned} & 45 \\ & 90 \end{aligned}$ |
| suminar in peckeging techniques, held in Plowdiv | 2mal half 1974 | $\begin{aligned} & 150 \\ & \text { (frum veriaus } \\ & \text { Maistrios otc.) } \end{aligned}$ |

Annex V

DOANENCS PREPARED DURING THE PROJECT

1. "Conception for the development of packaging in the Pecple's Pepublic of Bulgaria up to 1990' (underlines main development trends in packages, packaging materials and techniques)
2. "Programme for industrial portioning and packaging of goods for the Gth Five-Year Plan (1970-1975)" (estublishes the optimum mount of portioned goods in order to ensure self-service in shops)
3. "Programme for portioning and packaging of goods for the period 1976-1980 (7th Five-Year P1an)" (also recammonds solutions to the above problem)
4. "Instruction for the storage, transport, purchase and use of retumable packages" (ensures the re-use of certain forms of package, mainly glass bottles, with a view to saving glass)

## Annax VI

model of sohedule for packacing semank

## Subject

## Introduction into packeging, econonic and lean proolem

Terminology, role and importance of packaging
Basic requirements to packaging: place of package production, returnable or non-returnable packages, place of packaging process
Economic aspects of packaging
Length of discuission
$\qquad$ (hours)

Unification and standardization of packages:
System of dimensions. Intemational standardization orgenizations and their ectivities:

ISO standards
CEA (Cancil for Economic Aid standards, Resolutions of IATA, Resolutions of the International Naval Council, Resolutions of EPF
Indices, symbols and marking of packapes 1
Legal problems in peckaging 3
Lebour security

$$
0
$$

Total

$$
1
$$

$$
20
$$

## Peckerin meterials

## Packeping meterials (types, profuction, aplication):



Subject
Length of discussion (hours)
Dypes of peckeres
Consumer packages (construction, aplication, specific requirements, methods and equipment for production) :
Paper and board
Plastics
Glass
Metals
Combined materials
Combined packages

Transport packages (const ruction, application, specific requirements, mothods and equipment for production) :

| Mood |  | 2 |
| :--- | :--- | :--- |
| Paper and board | 2 |  |
| Textiles |  | $\mathbf{2}$ |
| Petals |  | $\mathbf{1}$ |
| Plastics |  | 2 |
| Combined materials |  | $\frac{2}{2}$ |
|  | roeal | $\mathbf{1 0}$ |

Auxiliary mens of peckuring
Closing systems
Oushioning systoms
Alhesive tapes and bonding strips
Athesives, lecquers and coatings
Length of discussion (hours)
Subject
Testin of packeres
Purpose and basic methods of testing packages ..... 2
Physical and chemical testing ..... 2
Analytical testing ..... 2
Biological testing ..... $\underline{2}$
Total ..... 8
Desin
Basic requirements for the appearace of packages and now trends and requirements conceming the artistic 1ay-out of packages ..... 1
Significunce of print for the grophical lay-out of packages and photo-illustration as method and elomment of the graphical lay-out of packages ..... 1
Methods and equipment for the graphical lay-out of prackapes ..... 1Total
Packerin technolo y
Processes and equipment for packegina of liquide ..... 2
Processes and equipment for packaging of pasty roods ..... 2
Processes and equipment for packaning of poudered goods ..... 2
Processes and equipment for packaging of goods in pieces ..... 2
Processes and equipment for packaging of grumlar goods ..... $\underline{2}$
Total ..... 10
H-din of londs
Pallotization of lome ..... 2
Centaimerization ..... 1
Subject
Length of discussion (hours)
Application of packeres
Modern methods of packaging:
Foods ..... 4
Pharmaceuticals ..... 3
Chemicals ..... 3
Equipment and machinery ..... 4
Ironware ..... 1
Kitchen sets ..... 2
Cosmetic and toilet set ..... 2
Clothes ..... $\underline{1}$
Total ..... 20
Information
Information resources.
Estahlishment and compilation of libraryfunds out of primary and secondary informa-tion resources on packaping2
Introduction into the application of thescientific and technical information topackaging and information research systoms.2
Total ..... 4

| BDS | $\begin{array}{r} 7-74 \\ \mathrm{D} 92 \end{array}$ | Glass bottles for food liquids and drinks. Technical requirements |
| :---: | :---: | :---: |
| BDS | $\begin{aligned} & 7-67 \\ & \text { D } 92 \end{aligned}$ | Glass bottles for food liquids, drinks and chemical products for household needs. General technical requirements |
| BDS | $\begin{array}{r} 24-73 \\ \text { D } 71 \end{array}$ | Transport package. Wooden lattice cases for eggs in oval-cell boards |
| BDS | $\begin{array}{r} 78-70 \\ \text { D } 81 \end{array}$ | Tins for canned food |
| BDS | $\begin{array}{r} 79-68 \\ \text { D } 82 \end{array}$ | Hooped tanks of steel for rolling (medium weight) and for 1iquids |
| BDS | $\begin{array}{r} 87-72 \\ \text { D } 92 \end{array}$ | G1ass bottles for red wines and other alcoholic drinks. Construction |
| BDS | $\begin{array}{r} 112-73 \\ 095 \end{array}$ | Bags and sacks of textile |
| BDS | $\begin{array}{r} 115-69 \\ \text { M } 78 \end{array}$ | Textile bags, sacks and wrapping for packaging tobacco |
| BDS | $\begin{array}{r} 190-72 \\ \text { D } 71 \end{array}$ | Transport package. Wooden case for yellow cheese |
| BDS | $\begin{array}{r} 142-50 \\ \text { D } 71 \end{array}$ | Case for bread |
| BDS | $\begin{array}{r} 191-73 \\ \text { D } 71 \end{array}$ | Transport package. Wooden case for jan |
| BDS | $\begin{array}{r} 193-73 \\ \text { D } 71 \end{array}$ | Transport package. Wooden cases for explosives |
| BDS | $\begin{array}{r} 197-74 \\ \text { D } 22 \end{array}$ | Kegs for food and canned products |
| BDS | $\begin{array}{r} 198-50 \\ \text { D } 74 \end{array}$ | Waxed pots of board |
| BDS | $\begin{array}{r} 206-73 \\ G 36 \end{array}$ | Steel screw nuts for hexahedral bolts and nuts. Dimensions |
| BDS | $\begin{array}{r} 340-72 \\ \text { D } 71 \end{array}$ | Transport package. Case of hard plares made of wooden fibres for camned meat and vegetables |
| BDS | $\begin{array}{r} 341-72 \\ \text { D } 71 \end{array}$ | Transport package. Cases of plares made of wooden fibres for boxes with fish cans |
| EDS | $\begin{array}{r} 343-64 \\ \text { D } 71 \end{array}$ | Wooden cases for porcelain insulators |
| BDS | $\begin{array}{r} 400-73 \\ \text { D } 74 \end{array}$ | Waxed cardboard boxes for frozen foods and vegetables |


| BDS | $\begin{array}{r} 450-74 \\ \text { D } 71 \end{array}$ | Sackcloth and sacks. Packaging and marking |
| :---: | :---: | :---: |
| BDS | $\begin{array}{r} 551-73 \\ \mathrm{D} 71 \end{array}$ | Transport package. Wooden case for lumps of sugar |
| BDS | $\begin{array}{r} 556-74 \\ D 71 \end{array}$ | Transport package. Wooden cases for slaughtered birds |
| BDS | $\begin{array}{r} 558-71 \\ \text { D } 81 \end{array}$ | Tins for white brined cheese |
| BDS | $\begin{array}{r} 631-73 \\ \mathrm{D} 71 \end{array}$ | Transport package. Latticed wooden cases for bottles with nutritious liquids and alcoholic drinks |
| BDS | $\begin{array}{r} 662-65 \\ \mathrm{D} 74 \end{array}$ | Cases and boxes for packaging red ground pepper |
| BDS | $\begin{array}{r} 683-73 \\ \mathrm{U} 13 \end{array}$ | Zink-coated pots. Basic dimensions |
| BDS | $\begin{array}{r} 747-66 \\ \text { D } 71 \end{array}$ | Wooden cases for nails, bolts, nuts, crampons and scrows |
| BDS | $\begin{array}{r} 788-72 \\ D 72 \end{array}$ | Transport package. Plywood tanks for oils |
| BDS | $\begin{array}{r} 808-71 \\ D 74 \end{array}$ | Boxes for silk-worm grain |
| BDS | $\begin{array}{r} 1044-74 \\ \text { D } 71 \end{array}$ | Transport package. Wooden case for land and clarified butter |
| BDS | $\begin{array}{r} 1045-72 \\ \text { D } 71 \end{array}$ | Transport package. Wooden cases for fruits and vegetables |
| BDS | $\begin{array}{r} 1046-64 \\ \text { D } 71 \end{array}$ | Transport case for vegetables. Durable package |
| BDS | $\begin{array}{r} 1068-73 \\ \text { D } 71 \end{array}$ | Transport package. Cases from wood fibre boards for soap |
| BDS | $\begin{array}{r} 1094-65 \\ \text { D } 74 \end{array}$ | Consumer packages for tobacco products. Types. Dimensions. Ceneral requirements |
| BDS | $\begin{array}{r} 1101-74 \\ \text { D } 91 \end{array}$ | Glass jars for camned food. Technical requirements |
| BDS | $\begin{array}{r} 1101-65 \\ \text { D } 91 \end{array}$ | Glass jars for camed food. Technical requirements |
| BDS | $\begin{array}{r} 1188-66 \\ \text { D } 72 \end{array}$ | Oaken barrels for ordinary, dessert and liquour wines and vinous distillate |
| BDS | $\begin{array}{r} 1334-74 \\ \text { D } 71 \end{array}$ | Transport package. Wooden case for bakery yeast |
| BDS | $\begin{array}{r} 1434-74 \\ G 86 \end{array}$ | Box-pallet of wood for cotton yarn |
| BDS | $\begin{array}{r} 1484-53 \\ U 11 \end{array}$ | Glass hollow products. Basic standard |

(annex VII continued)

| BDS | $\begin{array}{r} 1504-53 \\ \text { D } 71 \end{array}$ | Transport package. Wooden cases for rubber, leather and furrier's products |
| :---: | :---: | :---: |
| BDS | $\begin{array}{r} 1654-74 \\ \mathrm{D} 71 \end{array}$ | Wonden cases for bottles of aerated soft drinks |
| BDS | $\begin{array}{r} 1666-74 \\ D 71 \end{array}$ | Wooden crates for strawberries and raspberries |
| BDS | $\begin{array}{r} 1859-72 \\ \mathrm{D} 71 \end{array}$ | Transport package. Wooden cases for apples |
| BDS | $\begin{array}{r} 1907-73 \\ \mathrm{D} 71 \end{array}$ | Transport package. Wooden coop for living poultry |
| BDS | $\begin{array}{r} 1954-72 \\ \text { D } 72 \end{array}$ | Oak kegs for drinks |
| BDS | $\begin{array}{r} 2096-74 \\ 071 \end{array}$ | Wooden lattice cage for early cabbage |
| BDS | $\begin{array}{r} 2188-74 \\ \mathrm{D} 92 \end{array}$ | Glass bottles for carbonated soft drinks with capacity 0.251 . Design |
| BDS | $\begin{array}{r} 2188-69 \\ \mathrm{D} 92 \end{array}$ | Bottles for lemanade approximately 0.251. |
| BDS | $\begin{array}{r} 2360-74 \\ \text { D } 74 \end{array}$ | Consumer package. Cardboard boxes foı doughy products |
| BDS | $\begin{array}{r} 2368-71 \\ \text { D } 81 \end{array}$ | Tubes of lead |
| BDS | $\begin{array}{r} 2396-72 \\ \text { D } 71 \end{array}$ | Transport package. Cases from fibreboards for electrodes |
| bDS | $\begin{array}{r} 2397-70 \\ \mathrm{D} 71 \end{array}$ | Transport package. Cardboard box for vineyand sprayer |
| BDS | $\begin{array}{r} 2493-71 \\ \text { D } 75 \end{array}$ | Consumer package. Paper bags |
| BDS | $\begin{array}{r} 2582-75 \\ \text { D } 74 \end{array}$ | Cartons and polyethylene or paper bags for shoes |
| BDS | $\begin{array}{r} 2689-67 \\ \text { D } 71 \end{array}$ | Transport package. Cases from fibreboards for grease |
| mis | $\begin{array}{r} 2690-57 \\ \text { D } 71 \end{array}$ | Transport package. Case from fibreboards for small hardware |
| nis | $\begin{array}{r} 2697-66 \\ \text { D } 97 \end{array}$ | Metal bottle closures of the "Crowncork" type |
| bos | $\begin{array}{r} 2751-72 \\ \text { D } 88 \end{array}$ | Containers up to 5 tons. Types, basic dimensions and parameters |
| BDS | $\begin{array}{r} 2768-70 \\ \mathrm{~L} 71 \end{array}$ | Transport package. Wooden case for lead small shots |


| BIS | $\begin{array}{r} 2842-71 \\ \text { D } 74 \end{array}$ | Consumer package. Candboard boxes for mercerized thread |
| :---: | :---: | :---: |
| BIS | $\begin{array}{r} 2879-57 \\ \text { D } 72 \end{array}$ | Transport package. Case for rennet for cheese in bottles |
| BDS | $\begin{array}{r} 2881-66 \\ 192 \end{array}$ | Glass bottles for beer of 0.51. |
| BLS | $\begin{array}{r} 3021-57 \\ \text { D } 92 \end{array}$ | Giass bottles for ether ethylic pro narcosis |
| BIS | $\begin{array}{r} 3065-57 \\ \text { D } 81 \end{array}$ | Tin cans for sugar products |
| BDS | $\begin{array}{r} 3131-71 \\ \text { D } 75 \end{array}$ | Paper sacks |
| BIS | $\begin{array}{r} 3162-73 \\ \text { L } 63 \end{array}$ | Rubber closures for penicillin vials |
| BDS | $\begin{array}{r} 3188-72 \\ D 81 \end{array}$ | Steel tins for liquid food and oil |
| BDS | $\begin{array}{r} 3230-64 \\ \mathrm{D} 92 \end{array}$ | Pharmaceutical bottles. Capacity |
| RnS | $\begin{array}{r} \text { x } 2 \mathrm{~K} 5-7 x \\ \text { D } 74 \end{array}$ | Consumer package. Box for hunting capsule "Zivelo" |
| BDS | $\begin{array}{r} 3319-58 \\ \text { D } 92 \end{array}$ | Glass packages. Jars for bromic salt |
| BDS | $\begin{array}{r} 3323-58 \\ \mathrm{D} 92 \end{array}$ | Glass packages. Jars for modicines |
| BDS | $\begin{array}{r} 3330-58 \\ K 70 \end{array}$ | Paper guts (artificial) for sausage products |
| BDS | $\begin{array}{r} 3339-68 \\ \text { D } 81 \end{array}$ | Tin-plated steel ewer for foodstuffs |
| BDS | $\begin{array}{r} 3340-58 \\ \text {.D } 81 \end{array}$ | Semicircular, steel-trmsport, tin-plated ener of 201 |
| BDS | $\begin{array}{r} 3376-73 \\ \text { D } 71 \end{array}$ | Cases for switchboards and electrometers for dwelling houses. Dimensions |
| BDS | $\begin{array}{r} 3433-71 \\ \text { D } 75 \end{array}$ | Paper bags for meal, semolina and rice |
| BDS | $\begin{array}{r} 3466-72 \\ \text { D } 71 \end{array}$ | Containers for packaging and trensportation of flat window glass. General requirements |
| BDS | $\begin{array}{r} 3498-64 \\ \text { D } 92 \end{array}$ | Vials for antibiotics |
| BDS | $\begin{array}{r} 3600-73 \\ \text { D } 71 \end{array}$ | Wooden cases for earth bore cores |
| BDS | $\begin{array}{r} 3629-62 \\ \text { D } 71 \end{array}$ | Transport package. Wooden crate for fresh fruits and vegetables |


| BDS | $\begin{array}{r} 3659-73 \\ \text { D } 71 \end{array}$ | Transport package. Wooden cases for glass pots with camed foods |
| :---: | :---: | :---: |
| BDS | $\begin{array}{r} 3688-59 \\ R 19 \end{array}$ | Perfume products. Pack, marking and rules for acceptance |
| BDS | $\begin{array}{r} 3740-59 \\ \text { D } 93 \end{array}$ | Glass tubes |
| BDS | $\begin{array}{r} 3826-71 \\ \text { D } 97 \end{array}$ | Cork closures |
| BDS | $\begin{array}{r} 3850-59 \\ \text { D } 92 \end{array}$ | Glass packages. Vials for serums, vaccines and others. Preparations for veterinary needs |
| BDS | $\begin{array}{r} 3852-73 \\ \mathrm{D} 74 \end{array}$ | Cardboand box for screws for wood |
| BDS | $\begin{array}{r} 3853-74 \\ \text { D } 74 \end{array}$ | Transport package. Corrugated cartons for boxes of matches |
| BDS | $\begin{array}{r} 3884-71 \\ \mathrm{D} 74 \end{array}$ | Cartons for foam extinguishers' charges |
| BDS | $\begin{array}{r} 3904-59 \\ \mathrm{D} 74 \end{array}$ | Corrugated cartons for tins with canned food |
| BDS | $\begin{array}{r} 3961-60 \\ \text { D } 74 \end{array}$ | Carton for horse-nails |
| BDS | $\begin{array}{r} 3963-74 \\ \text { D } 74 \end{array}$ | Cartons for packing fittings for bags and suitcases |
| BDS | $\begin{array}{r} 3977-73 \\ \mathrm{D} 71 \end{array}$ | Wooden lattice case for $0.5 \mathrm{dm}^{3}$ bottles with fruit and vegetable juices and syrups |
| BIDS | $\begin{array}{r} 3988-74 \\ K 23 \end{array}$ | Wooden drums for cables and wires |
| bos | $\begin{array}{r} 3990-60 \\ \text { U } 11 \end{array}$ | Hollow glassware out of glass wastes |
| BDS | $\begin{array}{r} 4175-71 \\ \mathrm{~J} 58 \end{array}$ | Tanks for coudensed water |
| BDS | $\begin{array}{r} 4369-74 \\ D 74 \end{array}$ | Transport package. Cases from corrugated boand for cigarettes |
| B06 | $\begin{array}{r} 4382-73 \\ \text { D } 72 \end{array}$ | Transport package. Plywood casks for fruit pulp |
| D0S | $\begin{array}{r} 4411-74 \\ \mathrm{D} 75 \end{array}$ | Paper bags of the pharmaceutical type |
| Dos | $\begin{array}{r} 4532-73 \\ \text { D } 71 \end{array}$ | Wooden cases for faience tiles |
| 105 | $\begin{array}{r} 4541-73 \\ \mathrm{D} 71 \end{array}$ | Transport package. Wooden case for tin box packed choese |


| BDS | $\begin{array}{r} 4549-73 \\ \text { D } 71 \end{array}$ | Transport package. Cases from wood fibreboards for hollow glassware |
| :---: | :---: | :---: |
| BDS | $\begin{array}{r} 4609-70 \\ \text { D } 71 \end{array}$ | Transport package. Wooden boxes for batteries |
| BDS | $\begin{array}{r} 4644-65 \\ \text { D } 71 \end{array}$ | Transport package. Wooden case for medicinal herbs and mushrooms |
| BDS | $\begin{array}{r} 4703-65 \\ \text { D } 70 \end{array}$ | Packages. System of dimensions |
| BDS | $\begin{array}{r} 4752-69 \\ \text { D } 71 \end{array}$ | Transport package. Cases of wood fibreboards for doughy products |
| BDS | $\begin{array}{r} 4762-70 \\ \mathrm{D} 71 \end{array}$ | Wooden cases for bo+t1es, type 'Maria Farina'. Types. Dimensions. Technical requirements |
| BDS | $\begin{array}{r} 4802-66 \\ \text { D } 71 \end{array}$ | Transport package. Wooden cases for bottles with mineral water |
| BDS | $\begin{array}{r} 4821-72 \\ \text { D } 74 \end{array}$ | Transport package. Cases from corrugated boand for antibiotics |
| BDS | $\begin{array}{r} 4175-71 \\ \mathrm{~J} 58 \end{array}$ | Tanks for condensed water |
| BDS | $\begin{array}{r} 4703-65 \\ \text { D } 70 \end{array}$ | Packages. System of dimensions |
| BDS | $\begin{array}{r} 4828-73 \\ G 40 \end{array}$ | Tanks and apparatuses. Nominal volumes |
| BDS | $\begin{array}{r} 4900-63 \\ \text { D } 71 \end{array}$ | Latticed wooden cases for eggs in honeycomb trays |
| BDS | $\begin{array}{r} 5041-71 \\ \text { D } 71 \end{array}$ | Transport package. Wooden cages for fresh peppers for export |
| BDS | $\begin{array}{r} 5042-63 \\ \text { D } 71 \end{array}$ | Transport package. Wooden latticed cage for lettuce, tumips and other vegetables |
| BDS | $\begin{array}{r} 5043-72 \\ \text { D } 71 \end{array}$ | Transport package. Wooden crate for greenhouse tomatoes |
| BDS | $\begin{array}{r} 5144-74 \\ \text { D } 71 \end{array}$ | Transport package. Cases of solid wooden fibreboards for silk, linen and cotton fabrics |
| BDS | $\begin{array}{r} 5151-74 \\ \text { D } 71 \end{array}$ | Wooden crate for germination of potatoes |
| BDS | $\begin{array}{r} 5165-74 \\ \text { D } 71 \end{array}$ | Transport package. Wooden case for alcoholic drinks |
| BDS | $\begin{array}{r} 5166-64 \\ \text { D } 71 \end{array}$ | Wooden cases for tooth-paste |
| BDS | $\begin{array}{r} 5183-74 \\ \text { D } 71 \end{array}$ | Box pallets and semi-pallets from solid wooden fibreboards for household porcelain and faience articles |


| BDS | $\begin{array}{r} 5271-66 \\ \text { G } 86 \end{array}$ | Box pallets and post pallets. Types, basic external sizes and parameters |
| :---: | :---: | :---: |
| BDS | $\begin{array}{r} 5294-64 \\ \text { D } 79 \end{array}$ | Cases of cardboard. Methods for testing the mechanical properties |
| BDS | $\begin{array}{r} 5349-74 \\ \text { D } 92 \end{array}$ | Bottle throats with "crown" closing. Design |
| BDS | $\begin{array}{r} 5350-74 \\ \text { D } 92 \end{array}$ | Glass bottles for soft drinks. Basic parameters |
| BDS | $\begin{array}{r} 5351-69 \\ \text { D } 71 \end{array}$ | Transport package. Cases of wooden fibreboards for batteries and dry elements |
| BDS | $\begin{array}{r} 5382-64 \\ \text { D } 70 \end{array}$ | Cases of corrugated board. Types. General technical requirements |
| BDS | $\begin{array}{r} 5451-66 \\ \text { G } 86 \end{array}$ | Flat pallets. Types. Basic dimensions and parameters |
| BDS | $\begin{array}{r} 5463-64 \\ \text { D } 69 \end{array}$ | Wooden cases. Regulations for sampling. Their preparation for testing and reading the test results |
| BDS | $\begin{array}{r} 5526-65 \\ \mathrm{D} 70 \end{array}$ | Wooden cases. Types. Dimensions of the parts. General technical requirements |
| BDS | $\begin{array}{r} 5529-72 \\ 071 \end{array}$ | Transport package. Cases of plywood and solid wooden fibreboads. Types. Dimensions. General requirements |
| BDS | $\begin{array}{r} 5555-74 \\ \mathrm{D} 92 \end{array}$ | Bottle for beer of $0.33 \mathrm{dm}^{3}$ capacity. Design |
| BDS | $\begin{array}{r} 5565-65 \\ \text { D } 69 \end{array}$ | Wooden cases. Test methods. Determination of compression strength |
| BDS | $\begin{array}{r} 5566-65 \\ \text { D } 69 \end{array}$ | Wooden cases. Test methods. Determination of strength during drop testing |
| BDS | $\begin{array}{r} 5567-65 \\ \text { D } 69 \end{array}$ | Wooden cases. Test methods. Determination of strength during inclined plain test. |
| BDS | $\begin{array}{r} 5568-65 \\ \text { D } 69 \end{array}$ | Transport package of wood. Regulations of acceptance |
| BDS | $\begin{array}{r} 5569-65 \\ \text { D } 70 \end{array}$ | Volume package. Paper bags. System of dimensions |
| BDS | $\begin{array}{r} 5614-65 \\ \mathrm{D} 92 \end{array}$ | Bottle neck for combined closure. Shape and dimensions |
| BDS | $\begin{array}{r} 5630-68 \\ \text { D } 92 \end{array}$ | Glass bottles for milk. Form and dimensians |
| BDS | $\begin{array}{r} 5631-65 \\ \text { D } 92 \end{array}$ | Bottle throat closed by means of foil cap. Shape and dimensions 1 |
| BDS | $\begin{array}{r} 5643-65 \\ \mathrm{~J} 58 \end{array}$ | Motal cylindrical tanks. Elliptical bottoms. Shapes and dimensions |


| BDS | $\begin{array}{r} 5686-65 \\ \mathrm{D} 81 \end{array}$ | Metal cases for milk bottles |
| :---: | :---: | :---: |
| BDS | $\begin{array}{r} 5687-68 \\ \text { D } 81 \end{array}$ | Metal case for lemonade bottles |
| BDS | $\begin{array}{r} 5688-65 \\ \mathrm{D} 92 \end{array}$ | Glass and plastics bottles. Caps. Types. Classification. General requirements |
| BDS | $\begin{array}{r} 5770-65 \\ \text { G } 86 \end{array}$ | Box pallets for fruits and vegetables. Technical requirements |
| BnS | $\begin{array}{r} 5787-65 \\ \text { D } 81 \end{array}$ | 601 tin |
| BIS | $\begin{array}{r} 5796-74 \\ \text { D } 74 \end{array}$ | Consumer package. Cardboard boxos for sugar products |
| BDS | $\begin{array}{r} 5827-65 \\ \text { I } 19 \end{array}$ | Glass. Determination of water resistance |
| BDS | $\begin{array}{r} 5868-66 \\ \text { D } 91 \end{array}$ | Glass packages. Determination of thermal resistance |
| BDS | $\begin{array}{r} 5869-66 \\ \text { D } 92 \end{array}$ | Jar throat for sterilized canned foods of the "Garden" type. Shapes and dimensions |
| BDS | $\begin{array}{r} 5905-66 \\ D 70 \end{array}$ | Basic joining dimensions for packages. Transport and storage |
| BDS | $\begin{array}{r} 5907-74 \\ G 86 \end{array}$ | Flat timber pallets. Methods for strength tests |
| BDS | $\begin{array}{r} 5931-66 \\ \mathrm{D} 91 \end{array}$ | Household glass jars. Design |
| BDS | $\begin{array}{r} s y 32-66 \\ \text { D } 92 \end{array}$ | Household glass demijohn. Design |
| BDS | $\begin{array}{r} 5933-66 \\ \mathrm{D} 92 \end{array}$ | Transport glass demijohn. Design |
| BDS | $\begin{array}{r} 5934-71 \\ \mathrm{D} 81 \end{array}$ | Aluminium tubes |
| BDS | $\begin{array}{r} 5935-74 \\ \text { D } 92 \end{array}$ | Glass jars for canned food. Jar throat of the "Omia" type. Design |
| BDS | $\begin{array}{r} 5935-66 \\ \text { D } 92 \end{array}$ | Glas jars for carned food of the "Omia" type. Throat. Design |
| BDS | $\begin{array}{r} 5944-66 \\ \mathrm{D} 92 \end{array}$ | Glass containers. Methods for physical-mechanical tests |
| BDS | $\begin{array}{r} 6015-73 \\ \text { D } 81 \end{array}$ | Metal boxes for shoe crean and pastes for stove polish |
| BDS | $\begin{array}{r} 6016-68 \\ \text { D } 92 \end{array}$ | Glass packages for vegetable oils. Shupes and dimensions |


| BDS | $\begin{array}{r} 6017-66 \\ \mathrm{D} 91 \end{array}$ | Glass jar for sour milk of 0.51 . Design |
| :---: | :---: | :---: |
| BIS | $\begin{array}{r} 6018-71 \\ 092 \end{array}$ | Glass bottle for white wines. Design |
| BDS | $\begin{array}{r} 6019-69 \\ \mathrm{n} 72 \end{array}$ | Storage oak barrels |
| BIS | $\begin{array}{r} 6102-66 \\ 092 \end{array}$ | Glass containers. Methods for testing the intemal pressure resistance |
| RDS | $\begin{array}{r} 6121-66 \\ \square 95 \end{array}$ | Tarpaul in sack |
| mos | $\begin{array}{r} 6122-66 \\ \mathrm{G} 74 \end{array}$ | Cardboard boxes for records and phonocards |
| BDS | $\begin{array}{r} 6204-74 \\ 092 \end{array}$ | Glass containers. (Straight throat closed with cork). Design |
| bos | $\begin{array}{r} 6205-66 \\ \mathrm{D} 71 \end{array}$ | Package for electric trucks and motor-trucks for oversea transport. Basic parameters and technical requirements |
| bDS | $\begin{array}{r} 6303-71 \\ 074 \end{array}$ | Candboard boxes for metal cans |
| BDS | $\begin{array}{r} 6304-67 \\ 074 \end{array}$ | Cases of corrugated boand for sugar products. Transport packages |
| BDS | $\begin{array}{r} 6309-72 \\ 082 \end{array}$ | Metal barrels without hoops for turning over |
| BD6 | $\begin{array}{r} 6312-67 \\ 081 \end{array}$ | Metal ewers. Basic dimensions. Technical requirements |
| BRS | $\begin{array}{r} 6319-67 \\ \text { D } 74 \end{array}$ | Transport package. Cases of corrugated cardboand for home refrierators |
| RDS | $\begin{array}{r} 6326-67 \\ 182 \end{array}$ | Metal barrels with hoops for tuming over. Basic dimensions. Technical requirements |
| BDS | $\begin{array}{r} 6390-74 \\ 074 \end{array}$ | Consumer package. Folding cartons. Volume package. System of dimensions |
| BDS | $\begin{array}{r} 6423-67 \\ \text { D } 71 \end{array}$ | Transport package. Timber cage for bicycles |
| RIS | $\begin{array}{r} 6422-67 \\ \text { D } 71 \end{array}$ | Transport package. Timer cage for motorcycles |
| dDS | $\begin{array}{r} 6425-74 \\ \mathrm{D} 92 \end{array}$ | Glass bottles for carbonated mineral water with capacity 330 cm . Design |
| mos | $\begin{array}{r} 6425-67 \\ 092 \end{array}$ | Glass bottle for carbonated mineral water with capacity $0.3301$ |
| nos | $\begin{array}{r} 6528-72 \\ \text { D } 91 \end{array}$ | Glass jars for jam |


| PDS | $\begin{array}{r} 6542-71 \\ \text { D } 70 \end{array}$ | Packages and packaging. Terms |
| :---: | :---: | :---: |
| BDS | $\begin{array}{r} 6546-67 \\ \square 81 \end{array}$ | Transport package. Metal cases for jogurt jars |
| BDS | $\begin{array}{r} 6549-67 \\ G 86 \end{array}$ | Flat four-way wooden pallet |
| BDS | $\begin{array}{r} 6672-73 \\ \text { D } 74 \end{array}$ | Transport cases of plastics for beer bottles of 0.330 and $0.500 \mathrm{dm}^{3}$ capacity |
| BDS | $\begin{array}{r} 6673-67 \\ \text { D } 74 \end{array}$ | Transport case of plastics for 1 litre bottles for milk. Dimensions |
| BDS | $\begin{array}{r} 6674-67 \\ 174 \end{array}$ | Transport case of plastics for 0.51 jars for jogurt. Dimensions |
| EDS | $\begin{array}{r} 6675-67 \\ \text { D } 74 \end{array}$ | Transport case of plastics for bottles for soft drinks with a maximum diameter of 63 mm . Dimonsions |
| BDS | $\begin{array}{r} 6676-67 \\ \text { D } 74 \end{array}$ | Transport case of plastics for 0.51 bottles for beer. Dimensions |
| BDS | $\begin{array}{r} 6677-67 \\ \text { D } 91 \end{array}$ | Packaging in glasswares of ordinary glass-metal |
| BIS | $\begin{array}{r} 6681-74 \\ K \quad 24 \end{array}$ | Blind (armour) for furniture boands |
| BRS | $\begin{array}{r} 6695-67 \\ \mathrm{~J} 58 \end{array}$ | Cylindrical horizontal tanks of steel. Test methods |
| BDS | $\begin{array}{r} 6816-68 \\ \text { D } 74 \end{array}$ | Case of corrugated board for eggs. Trasport package |
| BDS | $\begin{array}{r} 6849-68 \\ \text { D } 92 \end{array}$ | Glass bottles for cognac |
| BDS | $\begin{array}{r} 6850-68 \\ G 86 \end{array}$ | Netal semi-pallet of the box type with a cover |
| BAS | $\begin{array}{r} 6936-68 \\ K 71 \end{array}$ | Ordinary cardboard (bristol) |
| BDS | $\begin{array}{r} 6986-68 \\ \text { D } 81 \end{array}$ | Aluninium caps for glass jars of the "Omnia'type |
| BDS | $\begin{array}{r} 7063-74 \\ \text { D } 71 \end{array}$ | Transport cases of corrugated boand for poultry |
| His | $\begin{array}{r} 7084-68 \\ \text { D } 71 \end{array}$ | Transport cases of corrugated boand for honey |
| BDS | $\begin{array}{r} 7166-68 \\ P 65 \end{array}$ | Transport packaging sets for radioactive substances. Types and basic parameters |
| DDS | $\begin{array}{r} 7184-74 \\ \text { D } 74 \end{array}$ | Case of corrugated board for packed lard. Transport package |

G 86 7398-69

D 74

D 92 7564-69

D 92 7609-73

D 91 7657-74

D 74 7659-73

G 86 7671-69

D 81 7690-69

D 71
7827-70
D 92
D 71 7876-70

D 92

Transport package. Low density polyethylene bags. Classification and dimensions
Consumer package. Low density polyethylene bags
Paper bags. Test method for drop strength
Consumer glass pachages. Bottle for bleaching liquid
Consumpr glass packages. Bottles for petroleum products. Basic cimensions and technical requirements
Glass jars for canned foods. 'Twist-off' screw type neck. Design and technical requirements
Transport package. Cases of corrugated board for packed butter
Collapsible metal box pallet for bricks and tiles
Transport package. Returnable packages.
Metal cases and cases combined with metal scaffolding. Basic dimensions. General technical requirements
Transport package. Wooden case for frogs
Consumer package. Glass bottle for natural frothy wines
Transport package. Wooden cases for ink and glue
Consumer package. Glass bottle for mineral water with 31 capacity
Transport package. Cases of corrugated board for products pre-packed in metal cans
Transport package. Wooden cases for emerywheel washers

Pranppat packa
Transport package. Cases of corrugated board for washing preparations

Transport package. Case of corrugated board for paste products
Additional metal storey to a flat wooden pallet for fireproof and ordinary bricks
Transport package. Case of corrugated board for hand candies
Transport package. Cases of corrugated board for jam

| BDS | $\begin{array}{r} 7967-70 \\ 074 \end{array}$ | Consumer package. Cartons and paper bags for washing preparations |
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| BDS | $\begin{array}{r} 8152-70 \\ G 86 \end{array}$ | Collapsible standing pallet for textiles |
| BDS | $\begin{array}{r} 8153-70 \\ G 86 \end{array}$ | Net-shaped hox pallet for knitwear |
| BDS | $\begin{array}{r} 8322-70 \\ \text { D } 74 \end{array}$ | Consumer package. Cartons for toothpicks |
| BDS | $\begin{array}{r} 8459-71 \\ \text { D } 74 \end{array}$ | Transport package. Cases of corrugated board or flat board for pre-packed filled metal tubes |
| BDS | $\begin{array}{r} 8544-71 \\ \text { B } 66 \end{array}$ | Steel bottles for condensed gasses with capacity of 0.85-51. Basic parameters. Technical requirements. Test methods |
| BDS | $\begin{array}{r} 8624-71 \\ M 78 \end{array}$ | Textile sacks. Test methods |
| BDS | $\begin{array}{r} 8641-71 \\ \text { D } 91 \end{array}$ | Glass jars with circular cut for canned foodstuffs. Basic parameters and dimensions |
| BDS | $\begin{array}{r} 8642-71 \\ \text { [) } 74 \end{array}$ | Case of corrugated board for polyester fibres |
| BDS | $\begin{array}{r} 8643-71 \\ \text { D } 81 \end{array}$ | Tins for dyes, lacquers and other chemical products. Basic parameters. Technical requirements |
| BIS | $\begin{array}{r} 8948-71 \\ \text { D } 80 \end{array}$ | Aluminium foil packages for the catering industry |
| BDS | $\begin{array}{r} 8949-71 \\ \text { D } 93 \end{array}$ | Plastics packages for products of the catering industry |
| BDS | $\begin{array}{r} 8950-71 \\ \text { D } 70 \end{array}$ | Cartons for products of the catering industry |
| BDS | $\begin{array}{r} 8951-71 \\ \text { D } 76 \end{array}$ | Packages from comination materials for products of the catering industry |
| BDS | $\begin{array}{r} 8954-71 \\ \text { D } 91 \end{array}$ | 0.51 glass jars for canned food. Design |
| BDS | $\begin{array}{r} 8955-71 \\ \text { D } 91 \end{array}$ | Glass containers. Determination of the tempering degree |
| BDS | $\begin{array}{r} 9162-71 \\ \text { D } 74 \end{array}$ | Transport package. Case of corrugated board for toothpicks |
| BDS | $\begin{array}{r} 9244-71 \\ G 45 \end{array}$ | Containers for concrete mixtures. Effective capacity |
| BDS | $\begin{array}{r} 9257-74 \\ \text { D } 74 \end{array}$ | Transport package. Cases of corrugated board for bread yeast |
| BDS | $\begin{aligned} & 9386-72 \\ & \mathrm{D} 71, \mathrm{D} 74 \end{aligned}$ | Cases for meat and ineat products. Dimensions. Technical requirements |

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Containers up to 5 tans (series 3).
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Containers up to 5 tons (series 3),
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| BDS | $\begin{array}{r} 10020-72 \\ \text { D } 09 \end{array}$ | Containers. Method for testing the salt mist effect |
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| BDS | $\begin{array}{r} 10021-72 \\ \mathrm{D} 09 \end{array}$ | Transport packages. Methods for testing the shock resistance during drop tests |
| BDS | $\begin{array}{r} 10035-72 \\ \text { B } 66 \end{array}$ | Steel bottles for secondary gases of 12-80 $\mathrm{dm}^{3}$ |
| BDS | $\begin{array}{r} 10297-72 \\ \mathrm{D} 74 \end{array}$ | Consumer packages. Cartons for babies' and children's (up to 3 years of age) clothes. Types. Dimensions. Technical requirements |
| BDS | $\begin{array}{r} 10198-72 \\ \text { D } 74 \end{array}$ | Cases of corrugated board for babies' clothes |
| BDS | $\begin{array}{r} 10271-72 \\ \text { E } 07 \end{array}$ | Techniques on safety. Vessels under compression. Requirements to bottles for transportation of compressed, 1iquified and dissolved under compression gasses |
| BDS | $\begin{array}{r} 10290-72 \\ \mathrm{D} 92 \end{array}$ | Glass packages for medical purposes. Jars for infusion solutions. Design |
| BDS | $\begin{array}{r} 10291-72 \\ \text { D } 92 \end{array}$ | G1ass packages for medical purposes. Jars infusion solutions Necks. Design |
| BDS | $\begin{array}{r} 10292-72 \\ \text { D } 92 \end{array}$ | Glass packages for medical purposes. Technical requirements |
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| BDS | $\begin{array}{r} 10294-72 \\ \mathrm{D} 92 \end{array}$ | Glass packages for medical purposes. Necks closed with polyethylene caps without thread. Design |
| BDS | $\begin{array}{r} 10295-72 \\ \text { D } 93 \end{array}$ | Glass packages for medical purposes. Necks closed with cork cap. Design |
| BDS | $\begin{array}{r} 10422-72 \\ \mathrm{D} 99 \end{array}$ | Glass packages. Autoclave method for testing the water resistance of the imer surface |
| BDS | $\begin{array}{r} 10424-72 \\ \text { D } 99 \end{array}$ | Glass packages. Method for defining the seam height |
| BDS | $\begin{array}{r} 10425-72 \\ \text { D } 99 \end{array}$ | Glass packages. Method for defining the wall and botton thickness |
| BDS | $\begin{array}{r} 10426-72 \\ \text { D } 99 \end{array}$ | Glass packages. Method for defining the mass |
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| BDS | $\begin{array}{r} 10428-72 \\ \text { D } 99 \end{array}$ | Glass packages. Method for defining the non-parallelism between the bottom and mouth planes |
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10559-72 Glass jars of $650 \mathrm{~cm}^{3}$ capacity for canned food.
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| BDS | $\begin{array}{r} 10585-72 \\ K 74 \end{array}$ | Corrugated cardboard for consumer packages and packaging bracings |
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| BDS | $\begin{array}{r} 10623-72 \\ D 90 \end{array}$ | Glass packages. Defects. Terms |
| BDS | $\begin{array}{r} 10624-72 \\ \mathrm{D} 74 \end{array}$ | Consumer package. Cardboard boxes for antibiotics |
| BDS | $\begin{array}{r} 10625-72 \\ \mathrm{D} 74 \end{array}$ | Case-hangers for ready-made clothes |
| BDS | $\begin{array}{r} 10632-72 \\ \mathrm{~L} 93 \end{array}$ | Plastics packages. Neck threads for bottles and jars. Technical requirements |
| BDS | $\begin{array}{r} 10657-73 \\ \text { D } 74 \end{array}$ | Transport package. Case from corrugated board for autodynamoes |
| BDS | $\begin{array}{r} 10658-73 \\ \mathrm{D} 92 \end{array}$ | Glass jar of $380 \mathrm{~cm}^{3}$ capacity for canned food. Design |
| BDS | $\begin{array}{r} 10659-73 \\ 097 \end{array}$ | Consumer packages. Labelling. General requirements |
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| BDS | $\begin{array}{r} 10878-73 \\ \text { P } 86 \end{array}$ | Metal box-pallet with an opening bottom |
| BDS | $\begin{array}{r} 10895-73 \\ \mathrm{G} 32 \end{array}$ | Screws with a hidden head and a cut for thin metal sheets. Basic parameters |
| BDS | $\begin{array}{r} 10928-73 \\ \mathrm{~K} 68 \end{array}$ | Packaging laminated material of aluminium foil and paper |
| BDS | $\begin{array}{r} 10930-73 \\ G 02 \end{array}$ | Large tonnage freight containers for general destination (series 1). Basic dimensions and gross weight |
| BnS | $\begin{array}{r} 10931-73 \\ D 78 \end{array}$ | Large tannage containers for general destination (series 1). Test methods |
| BDS | $\begin{array}{r} 10932-73 \\ \mathrm{G} 02 \end{array}$ | Large tannage freight containers for general destination (series 1). Technical requirements |
| BnS | $\begin{array}{r} 10952-73 \\ \text { K } 11 \end{array}$ | Bottle neck for combined closing. Design |
| BDS | $\begin{array}{r} 11447-66 \\ \text { G } 86 \end{array}$ | Two-way wooden flat pallet |
| BDS | $\begin{array}{r} 11199-73 \\ D 91 \end{array}$ | Glass jars for canned food. Neck of the "Euro-cap" type. Design and technical requirements |
| BDS | $\begin{array}{r} 11200-73 \\ \mathrm{~K} 22 \end{array}$ | Unprocessed details from the timber of coniferous tree species for furniture packaging |
| BDS | $\begin{array}{r} 11230-73 \\ G 44 \end{array}$ | Rolling equipnent. Lines for packaging end sheet binding into packages. Basic parameters |


| BDS | $\begin{array}{r} 11282-73 \\ 074 \end{array}$ | Consumer package. Cardboand boxes for sodium bicarbonate, coffee and tea |
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| BDS | $\begin{array}{r} 11283-73 \\ \text { D } 75 \end{array}$ | Consumer package. Paper enve lopes for spectacle lens |
| BDS | $\begin{array}{r} 11284-73 \\ D 74 \end{array}$ | Unit package. Cardboard boxes for spectacle lens |
| BDS | $\begin{array}{r} 11285-73 \\ 074 \end{array}$ | Consumer package. Cardboard boxes for fuse links (chucks) and bases for high power fuses |
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| BDS | $\begin{array}{r} 11337-73 \\ \mathrm{M} 05 \end{array}$ | Floor covers from unwoven textiles. Package, marking, storage and transport |
| BDS | $\begin{array}{r} 11356-73 \\ \mathrm{D} 09 \end{array}$ | Transport package. Method for testing the compression resistance with applied load |
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| BDS | $\begin{array}{r} 11359-73 \\ \mathrm{D} 09 \end{array}$ | Transport packages. Method for horizontal shock test on an inclined plain |
| BDS | $\begin{array}{r} 11375-73 \\ \mathrm{D} 74 \end{array}$ | Cases from corrugated cardboand for household electric boilers |
| BDS | $\begin{array}{r} 11376-73 \\ \text { D } 75 \end{array}$ | Commercial package. Envelopes with handles for ready made clothing |
| BDS | $\begin{array}{r} 11453-73 \\ G 28 \end{array}$ | Gauges and templets for package control. Technical requirements |
| BDS | $\begin{array}{r} 11454-73 \\ \mathrm{G} 28 \end{array}$ | Gauges and templets for necks of glass bottles with outer screw thread. Shape and dimensions |
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| BDS | $\begin{array}{r} 11457-73 \\ G 28 \end{array}$ | Gauges for cork stoppers. Shape and dimensions |
| BDS | $\begin{array}{r} 11458-73 \\ G 28 \end{array}$ | Gauges for plastics capsules. Shape and dimensions |
| BDS | $\begin{array}{r} 11459-73 \\ G 28 \end{array}$ | Gauges and templets for metal caps of the 'Pilferproof" type. Shape and dimensions |
| EDS | $\begin{array}{r} 11460-73 \\ G 28 \end{array}$ | Gauges and templets for metal caps of the "twist-off" type. Shape and dimensions |


| BDS | $\begin{array}{r} 11461-73 \\ G \quad 28 \end{array}$ | Gauges and templets for metal caps of the "Omnia" type. Shape and dimensions |
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| BDS | $\begin{array}{r} 11462-73 \\ G 28 \end{array}$ | Gauges and templets for metal caps of the 'Kronencork' type. Shape and dimensions |
| BIS | $\begin{array}{r} 11463-73 \\ G 28 \end{array}$ | Gauges and templets for metal caps for cylindrical tins. Shape and dimensions |
| BDS | $\begin{array}{r} 11464-73 \\ G, 28 \end{array}$ | Gauges and templets for metal caps for square tins. Shape and dimensions |
| BIS | $\begin{array}{r} 11465-73 \\ G 28 \end{array}$ | Gauges and templets for drawn square metal tins. Shape and dimensions |
| BDS | $\begin{array}{r} 11466-73 \\ G 28 \end{array}$ | Gauges and templets for drawn and assembly metal tin bodies. Shape and dimensions |
| BDS | $\begin{array}{r} 11467-73 \\ G 28 \end{array}$ | Gauges and templets for glass necks with screw tiread type 'Pilferproof'. Shape and dimensions |
| BIS | $\begin{array}{r} 11468-73 \\ G 28 \end{array}$ | Gauges and templets for glass jar necks of the "Omia" type. Shape and dimensions |
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| BDS | $\begin{array}{r} 11536-73 \\ 093 \end{array}$ | Consumer package. Plastics baskets for fresh and soft fruits |
| BDS | $\begin{array}{r} 11608-73 \\ 081 \end{array}$ | Aluminium caps for jars for infusion solutions |
| BDS | $\begin{array}{r} 11609-73 \\ D 71 \end{array}$ | Transport package. Wooden cases for car and tractor radiators |
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| BDS | $\begin{array}{r} 11611-73 \\ G 86 \end{array}$ | Box pallet of wood for fruits in bulk |
| BDS | $\begin{array}{r} 11612-73 \\ \text { D } 71 \end{array}$ | Transport package. Hard fibreboand cases for typewriters |
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| BDS | $\begin{array}{r} 11694-74 \\ \mathrm{D} 74 \end{array}$ | Consumer package for powdernd and dried foodstuffs. Types. Dimensions. Technical requirements |
| BDS | $\begin{array}{r} 11823-74 \\ \mathrm{D} 92 \end{array}$ | Gauges and templets for necks of the glass type "twist-off'. Forms and dimensions |
| BDS | $\begin{gathered} 12003-74 \\ \text { D } 74 \end{gathered}$ | Transport package. Case from corrugated cardboard for sodium bicarbonate, tea and coffee |
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EDS 11190-73 Glass jars for canned foods. Neck of the "Euro-pack" type. D 91 Design and technical requirements
DSS 12261-74 Consumer package. Cartons for men's shirts
SES $\begin{gathered}12609-75 \\ G 60\end{gathered}$ Wooden box pallets for lead batteries for oversea transport

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