

## **METHODOLOGY**

### **CONSTRUCTION PRODUCTION INDEX**

#### **1. Purpose, nature and use**

The Construction Production Index is an indicator of the activity the enterprises in section 'Construction'. The monthly indices indicate the short-term changes of the construction production between two comparable periods.

The methodology used for statistical survey is harmonized with the requirements of : REGULATION (EC) No 2019/2152 of the European Parliament and of the Council of 27 November 2019 on European business statistics, repealing 10 legal acts in the field of business statistics; Commission Implementing Regulation (EC) No 2020/1197 of 30 July 2020 laying down technical specifications and arrangements pursuant to Regulation (EC) No 2019/2152 of the European Parliament and of the Council on European business statistics repealing 10 legal acts in the field of business statistics;

#### **2. Object and scope of the survey**

The objects of the survey are the construction enterprises operating in the country. The survey is representative for the country and it is conducted on the base of a sample from construction enterprises. The respondents are construction enterprises fall into the sample.

#### **3. Model and sample size**

The sample used is formed on the base of the information from annual reports of all construction enterprises which are observed exhaustively. The survey population includes the construction enterprises with more than 4 persons employed. The sample of the surveyed enterprises is formed 75% from turnover in construction.

The sample method used is Stratified Random Sample. Criterion for stratification of the enterprises is 'number of persons employed'. First enterprises are stratified by groups (2-nd digit level of NACE.BG 2008) and then in each group they are stratified by number of persons employed. Enterprises with 30 or more employed are surveyed exhaustively. The enterprises with employed from 5 to 14 and from 15 to 29 employed are randomly sampled, enterprises that have less than 4 persons employed are not observed monthly.

#### **4. Classifications used**

Classification of Economic Activities (NACE.BG 2008) and Classification of types of construction (CC). According to the Classification of types of constructions (CC) the building construction includes construction of residential and no-residential buildings and civil engineering - infrastructure construction of roads, bridges, pipelines, power lines, telecommunication and other construction equipment.

#### **5. Calculation of Construction Production Index**

Construction Production Indices - total and separately for building construction, civil engineering and specialized construction activities are calculated from the actual hours worked of directly employed with the construction works.

## **6. Treatment in non-response (estimation of missing values)**

There are several strategies in dealing with non-response. In the case of non-responding enterprises from exhaustive strata, imputation is made for each non-responded enterprise separately using different techniques for estimation the missing values. Non-responses in sampling strata are estimated by adjusting the extrapolation coefficients to make account of response rates.

## **7. Publicity and transparency**

Data on indices of construction production are available to all users on the NSI website under the heading Statistical data - Business statistics - Short-term Business Statistics - Construction Production Indices or in the on-line database INFOSTAT.