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## **QUALITY REPORT 2019**

### **Construction activity**

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## **1. Introduction – Basic information about the survey**

### **1.1 Purpose, goal and subject of the survey**

The aim of survey is to collect the data necessary for the calculation of value inde of construction works done and effective hours worked done on the construction sites.

### **1.2 Legal basis**

The Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 18/12, 47/19) defines provisions for collection, processing, and dissemination of data. The Law provides to the Statistical Office legal powers to collect and access the data necessary for the implementation of Programme and Annual Plan. The Law gives a priority to the use of administrative data and right of access to individual data that are a result of survey of other official statistical producers. As an annex to legal provisions, Statistical Office has signed several memoranda on cooperation with administrative data providers.

### **1.3 Statistical units**

Reporting units are enterprises (companies) whose main activity is construction and who are in the Statistical Business Register registered in sector F of NACE Rev.2 Classification and enterprises (KAU) which are not registered in sector F, but whose local units perform the construction works.

### **1.4 Coverage and scope of survey**

#### **1.4.1 Sectors**

The survey included reporting units with 5 and more employees who are involved in construction, regardless of ownership, association form and of the origin of capital as well as reporting units (KAU) whose business units engaged in construction works. Enterprises with turnover=0 are excluded.

#### **1.4.2 Statistical population**

The 2019 sample comprised 105 enterprises with primary and secondary activity in the construction.

### **1.5 Referent geographical area**

Montenegro.

### **1.6 Concepts and definitions**

Value of construction works - the value of construction works on buildings and civil engineering's which is reporting units performed during the reference period with workers who are directly engaged for execution of work. The VAT is excluded as well as the cost for purchase of land, design and supervision. New contract (orders) - total value of the contracted works in reference period which connected contractors and third party on conducting the construction work, including sub-contractors. Effective working hours - total number of hours worked in the production of reporting units during the reference period.

### **1.7 Classifications**

NACE Rev. 2

### **1.8 Frequency of data collection**

Data are collected quarterly.

## 1.9 Frequency of data dissemination

This survey is quarterly disseminated.

## 1.10 Methodology

A statement of methodology is available on website:

[http://monstat.org/userfiles/file/gradjevinarstvo/gradjevinska%20aktivnost/Construction%20activities\\_Methodology.pdf](http://monstat.org/userfiles/file/gradjevinarstvo/gradjevinska%20aktivnost/Construction%20activities_Methodology.pdf)

## 1.11 Base period

The base year is 2015.

## 1.12 Unit of measure

Index numbers, thous. EUR

## 1.13 Source of data

The data are collected from enterprises which are registered in sector F according to NACE Rev. 2 Classification and KAU whose construction is a secondary activity. The list of companies is taken from the Business Register.

## 1.14 Method of collection data

Data are collected through questionnaires (by post, email or fax).

## 2. Relevance – Data users

### 2.1 User needs

#### International users:

- Eurostat,
- World Bank,
- UN organizations,
- International Monetary Fund

#### National users:

- Ministries and other public administration bodies,
- Local government, and other local government bodies.
- Non-governmental organizations,
- Students,
- Researchers,
- Media.

### 2.2 User satisfaction

The Statistical Office has adopted the Quality Management Strategy, the Guidebook to the Implementation of the Quality Management Strategy, as well as the Plan for the Implementation of the Quality Policy. In order to measure the degree to which fulfills obligations towards users and within the new quality policy, the Statistical Office conducted User satisfaction survey. Data collection was carried out through a web survey, in the period from 1 September to 20 October, 2017. The results of the survey are available on the Statistical Office website, link:

<http://www.monstat.org/userfiles/file/KVALITET/Izvestaj%20o%20zadovoljstvu%20korisnika%20eng.pdf>.

### **3. Accuracy and reliability**

#### **3.1 Accuracy – Overall remark**

The results of quarterly survey of construction activity are based on a sample of reporting units and are subject to the usual types of errors associated with sampling techniques, as well as non-sampling errors, measurement errors, processing errors and non-response.

#### **3.2 Sampling error**

Survey of construction activity is done on a sample basis. Included are all enterprises and KAU with 5 and more employees who are registered in sector F according to the classification NACE Rev.2. The sample includes all reporting units from the class 2 and 3 (50 and more employees), while reporting units from class 1 is selected by random sample.

##### *Indicators of sampling error*

Sampling error is regularly calculated and on average it was 0,001% in 2019. The coefficient of variation was also the same.

#### **3.3 Non-sampling error**

Non-sampling errors are tied to other errors that are not related to the sample. Non-sampling errors include: coverage errors, measurement errors, processing errors, and non-response errors.

##### **3.3.1 Coverage error**

Coverage error is the divergence between the frame population and the target population. The coverage errors include: over – coverage and under – coverage.

##### *Indicators of coverage error*

Over - coverage is appearing when a company which is registered in sector F deliver information to deal with the some other activity (not construction), which means it should not have been found in the frame of sample.

##### **3.3.2 Error of measurement**

Measurement errors are errors that occur during data collection and cause recorded values of variables to be different from the true ones. Indirect analysis based on the results on editing phase is implemented for correction.

### **3.3.3 Non response error**

Non-response errors occur when the survey fails to get response to one or possibly to all questions of the survey. Non-response errors include: 1. unit non response and 2. item non response.

#### *Unresponsive unit rate*

The unit non response rate is calculated as the ratio of the number of units which did not responded to the total number of eligible units.

#### *Non response rate*

The item non response rate is calculated as the ratio of the eligible units which have not responded to a particular item and the in-scope units that are required to respond to that particular item. Average item non response rate was about 7%

### **3.3.4 Error processing the data**

The collected data goes through a series of processes before the final evaluation: encryption, input, editing, imputation, weighting, tabulation, etc. Errors arising in these phases are called processing errors.

#### *Imputation rate*

Not available

## **3.4 Seasonal adjustment**

The data which are transmitted to Eurostat are calendar and seasonal adjusted using JDemetra+ software.

## **3.5 Data revision**

### **3.5.1 Data revision policy**

Statistical Office has adopted the revision policy and it is available on the website:

<http://www.monstat.org/eng/page.php?id=1411&pageid=1411>

### **3.5.2 Data revision practice**

Survey of construction activity uses regular revisions. Large and unplanned revisions are only used in the specific cases defined by the revision policy.

### **3.5.3 Data revision - average size**

Not relevant.

## **4. Timeliness and punctuality**

### **4.1 Timeliness**

The data are published 45 days after the end of the reference period.

#### *Time lag of the first results*

The number of days (or weeks or months) from the last day of the reference period to the day of publication of first results:  $T1 = d_{\text{first}} - d_{\text{ref}}$ ,  $T1 = 35$  days,  $d_{\text{first}}$  - release date of first results;  $d_{\text{ref}}$  - last day (date) of the reference period of the statistics. Deadlines for balance of coal data during 2019 are published according to the Statistical Release Calendar.

### *Time lag of the final results*

The number of days (or weeks or months) from the last day of the reference period to the day of publication of complete and final results. Data for balance of electricity are published 45 days after the end of the reference period in accordance with release calendar.

## **4.2 Punctuality**

Deadlines for publishing have been complied in accordance with the Statistical Release Calendar.

## **5. Availability and clarity**

### **5.1 Statistical Release Calendar**

The Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 18/12, 47/19) stipulates that official statistical producers prepare, update, and publish Statistical Release Calendar. It is published on the website of Statistical Office not later than 20 December for the next year, for all official statistical producers that includes date of releasing statistical data. Any change in date of releasing in the Calendar is published in advance in accordance with the Procedure on Unplanned Revisions.

### **5.2 Access the data Release Calendar**

<https://www.monstat.org/userfiles/file/o%20nama/2019/Kalendar2019MonstatENG.pdf>

### **5.3 Releases**

The data are available on the website: <http://monstat.org/eng/page.php?id=476&pageid=35>

### **5.4 Publication**

Statistical Office publishes the following regular publications:

1. Statistical Yearbook,
2. Montenegro in figures,
3. Monthly statistical review.

In addition to the above regular ones, Statistical Office publishes also additionally publications. Some of the most important additional publications are as it follows:

1. Women and Men in Montenegro,
2. The most often used statistical data

All publication published by Statistical Office are available at the following link:

<http://monstat.org/eng/publikacije.php>

### **5.5 On-line databas**

[http://195.66.179.231/PXWebEng/pxweb/en/Short-term%20indicators/Short-term%20indicators\\_Construction\\_Construction%20activity/table1.px/?rxid=7fa17ab3-0d2e-46f4-ac7f-dbe053d3dfc9](http://195.66.179.231/PXWebEng/pxweb/en/Short-term%20indicators/Short-term%20indicators_Construction_Construction%20activity/table1.px/?rxid=7fa17ab3-0d2e-46f4-ac7f-dbe053d3dfc9)

### **5.6 Access to micro data**

The Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 18/12, 47/19) regulates rules under which external users can obtain an access to individual data for needs of research. Article 58 defines types of scientific and research organizations that can obtain such data. Providing individual data without identifier is possible only upon a written request of scientific and research institutions, with purpose of performing scientific and research activities as well as international statistical organizations and statistical producers from other countries. Research entity signs the agreement with Statistical Office,

and it signs the statement on respecting the confidentiality principle. Official statistical producers keeps a separate records on users and purpose of using the statistical data given to these users.

### **5.7 Metadata occupancy**

The ratio of the number of metadata elements provided to the total number of metadata elements applicable. For these survey, the metadata fill rate is 100%.

## **6. Comparability**

### **6.1 Spatial comparability**

Data are collected in accordance with EU Regulation No. 1165/98 which allows comparability between countries.

### **6.2 Time comparability**

Quarterly survey of construction activity is implemented since 1952. During the last years there have been changes and amendments, but the main variables such as the value of construction works and effective working hours were constantly provided.

#### *Time comparability indicator*

Data on construction activity are available since 2010 on MONSTAT web site, within section [Data](#) and they are comparable over the time.