

On the basis of article 30-a and paragraph (3) of the Law on mineral resources ("Official Gazette of the The Republic of Macedonia "no. 136/12, 25/13, 93/13, 41/14, 160/14 and 129/15), the Minister of Economy, draw

## **Rulebook on content and method of preparation of geological documentation to perform surveying geological researches**

### Article 1

This Rulebook prescribes the content and manner of preparation of geological documentation to perform surveying geological research.

### Article 2

Geological documentation for the surveying geological research consists of:

1. Project for conducting surveying geological researches and
2. Elaborate for the conducted surveying geological researches.

### Article 3

Geological documentation to perform surveying geological researches are prepared in electronic form on CDs and in paper with the hard cover.

### Article 4

Project for conducting surveying geological researches (hereinafter -Project) consists of the following parts:

- 1) General data for the Project;
- 2) Textual part;
- 3) Graphic documentation and
- 4) Analyzes from conducted investigations.

### Article 5

The section on general data contains:

- Project title and the legal entity that has prepared the project, the signature of the author (on the left side) and the person authorized to represent the legal subject (on the right). On the bottom of the page place and year of preparation of the Project;
- List of associates who participated in the preparation of the Project;
- Confirmation of the registered office (activity) of the company that prepares the Project;
- Authorization for preparation of geological documentation;

- License for preparation of geological documentation, execution and supervision of geological researches and
- Concession Agreement for surveying geological researches (original or a copy certified by a notary).

## Article 6

The textual part contains:

1. content of the Project;
2. project task;
3. introduction;
4. general information on the researched area;
5. geological structure and tectonics of the researched area;
6. type and scope of the envisaged investigation;
7. description of envisaged methods of research;
8. way of presenting the results;
9. dynamics of performing the investigation works;
10. calculation of the costs for researches
11. list of the literature and the used documentation.

The content of the project regulates the headlines within the same, by number, page number and a list of appendices arranged in number. Chapters should be in capital letters and numbered with roman numbers, while sub chapters should be lower letters and numbered in arabic numbers.

The project task contains:

- boundary of the investigated area;
- issues that should be resolved with the implementation of the Project;
- purpose and use of the researches;
- expected results.

The introduction contains:

- reasons for preparation of the Project;
- participants in the preparation of the Project;
- conditions under which the project was Prepared;
- period for preparation of the Project.

The chapter general information on the researched area contains a short description on:

- geographic position;
- basic geological characteristics of area predicted for surveying geological researches;
- morphological characteristics;
- hydrographic characteristics and

- climatic characteristics.

The chapter geological structure and tectonics of the researched area in the Project, contains a overview of the geological structures and tectonic characteristics of area predicted for geological researches.

The chapter type and scope of the predicted investigation works in the Project , describes the type and scope of the researches which are predicted for the surveying geological researches.

The chapter description of predicted methods of research in the Project, describes the type of predisted researching methods during the implementation of the surveying geological researches.

The results of conducted surveying researches are explain in text and displayed in tables, charts or other type of graphic display.

#### Article 7

The dynamics of performing the investigation works contains real perceived time of the total duration of the work under the projected positions.

Dynamic schedule is given in the form of a graphic in which are given type of work by positions, and deadline of performance of the same.

#### Article 8

The calculation of the costs for researches include unit prices of each investigative work and cumulative cost of the overall projected works according to Project.

The calculation of costs is made on the basis of the current prices at the time of projecting, research or estimated cost at the time of contracting.

#### Article 9

The list of literature and used documentation includes:

1. ordinal number of the used material;
2. name and surname of the author and title of the project organization;
3. title of work and year of publication, or making and
4. name of the contractor, firm or other entity in whose fund is located the used documentation.

#### Article 10

Graphic documentation consists of:

1. Overview geographical map in scale less than 1: 200 000 with inscribed boundaries of the investigating area;
2. Overview geological map in scale 1: 200 000 with inscribed boundaries of the investigating area;

3. Map with projected investigation works in scale 1: 100 000 and
4. Estimated geological profiles from part areas for surveying geological research in scale 1: 100000 and etc.

#### Article 11

The analysis of the conducted researches consist of:

- Chemical analysis for determining the contents of the elements in the analyzed samples;
- Petrographic analysis to determine the lithologic constitution of the rocks from the analyzed samples and
- Analyses from conducted researches of various applied research methods during the investigations.

After the completion of surveying geological researches, with Project is envisaged delivering one original or notarized copy of the analysis of the conducted investigations.

#### Article 12

Elaborate from performed surveying geological researches (hereinafter: Elaborate) consists of:

1. general data the Elaborate
2. textual part of the Elaborate
3. graphic documentation and
4. Analysis from conducted investigations.

#### Article 13

The section of general data contains:

- Elaborate title and the legal entity that has prepared the Elaborate, the signature of the author (on the left side) and the person authorized to represent the legal subject (on the right). On the bottom of the page place and yearsof preparation of the Elaborate;
- List of associates who participated in the preparation of the Elaborate;
- Confirmation of the registered office (activity) of the company that prepares the Elaborate;
- Authorization for preparation of geological documentation;
- License for preparation of geological documentation, execution and supervision of geological researches and
- Concession Agreement for surveying geological researches (original or a copy certified by a notary).

## Article 14

The textual part contains:

1. content of Elaborate;
2. introduction;
3. general information for the researched area;
4. geological structure and tectonics of the researched area;
5. type and scope of conducted investigation works;
6. description of the methods used in surveying geological researches;
7. results obtained from the surveying geological researches;
8. proposed areas for concessions for detailed geological researches and
9. list of literature and used documentation.

The content of the project regulates the headlines within the same, by number, page number and a list of appendices arranged in number. Chapters should be in capital letters and numbered with roman numbers, while sub chapters should be lower letters and numbered in arabic numbers.

The introduction contains:

- reasons for preparation of the Elaborate;
- participants in the preparation of the Elaborate ;
- conditions under which the Elaborate was prepared and
- time of implementation of the researches and preparation of the Elaborate.

The chapter general data for the researched area contains a short description on:

- geographic position;
- regional geological characteristics of the area in which are conducted surveying geological researches
- morphological characteristics;
- hydrographic characteristics and
- climatic characteristics.

The chapter geological structure and tectonics of the researched area contains a overview of the geological structures and tectonic characteristics of area covered with surveying geological researches.

The chapter type and scope of conducted investigation works of the Elaborate describes the type and scope for every individual conducted investigation work of the researches on the area.

The chapter description of the methods used in surveying geological researches of the Elaborate describes the methods used in the implementation of surveying geological researches, or :

- geological surveying methods;
- geochemical surveying methods;

- geophysical surveying methods;
- special surveying methods and
- other applied methods.

The chapter results obtained from surveying geological researches for each method applied are individually presented results of the research.

The results from surveying geological researches are presented in tables, graphics and suitable oleates.

The chapter proposed areas for concessions and detailed geological researches, based on the results of surveying geological researches and analysis it determines which areas are of concern for detailed geological researches.

Proposed areas provided for detailed geological researches with their coordinates are applied to the topographical and geological map in scale 1: 25 000 or 1: 50 000.

#### Article 15

The list of literature and used documentation includes:

1. ordinal number of the used material;
2. name and surname of the author and title of the project organization;
3. title of work and year of publication, or making and
4. name of the contractor, firm or other entity in whose fund is located the used documentation.

#### Article 16

Graphic documentation consists of:

1. overview geographical map in scale less than 1: 200 000 with inscribed boundaries of the investigating area;
2. overview geological map in scale 1: 200 000 with inscribed boundaries of the investigating area;
3. geological map with conducted investigation works in scale 1: 100 000;
4. estimated geological profiles of promising areas for further detailed geological researches in scale 1: 100 000;
5. oleates with content of elements from gained results (anomalies) with certain methods of surveying research in scale 1: 25 000 or 1: 50 000;
6. topographic map with coordinates and inscribed borders of the proposed area for detailed geological researches in scale 1: 25 000 or 1: 50 000;
7. geological map with coordinates and inscribed borders of the proposed area for detailed geological researches in scale 1: 25 000 or 1: 50 000.

#### Article 17

The analysis of the conducted researches are consist of:

1. Reports with results from chemical, mineralogical, sedimentological and other investigations conducted by surveying geological researches;
2. Reports with results from hydro chemical, geophysical and other surveys and
3. Photographic album with pictures during the survey (characteristic rock outgrowth, investigative wells, digging, geochemical sampling, etc.). corms characteristics,
4. exploration wells, digging, geochemical sampling, etc.)

After the completion of surveying geological researches, with Elaborate is envisaged delivering one original or notarized copy of the analysis of the conducted investigations.

#### Article 18

This Regulation shall enter into force the day after its publication in the Official Gazette of the Republic of Macedonia.

No.24-5238/3

28.09.2015

Skopje

Minister of Economy

Bekim Neziri