Instructions for the Registration Stage of the Project Information

**First: Project Abstract:**

It is a summary of the scientific project. It includes a clear distinction between the objectives of the project, the scientific procedures applied in it, the data resulting from it, and the conclusions made by the researcher after checking the data obtained. The arbitrators and evaluators use the project abstract at all levels for inferring the content of the project, what it aims at, and what is concluded.

**Required Abstract Items:**

1. **Research Question and its Importance**
   The research problem or hypothesis that has been proven or denied.

2. **Project Purpose**
   The importance and the purpose of the project.

3. **Testable Hypothesis**
   The steps and experiments carried out to prove or deny the problem and hypothesis. They are mentioned very briefly. In case of innovation, the design of the product and the method of its experiment are indicated.

4. **Research Procedures and How Data Are Analyzed**
   The steps taken to carry out the experiments (the method used, variables, materials and tools used in the project), as well as the results obtained from the procedures and experiments. They are in a form of specific, clear and very brief numbers.

5. **Conclusion**
   It summarizes what has been concluded and related to the hypothesis that has been proven or denied.

**Important Information:**

- The abstract can be written in Arabic or English.
- It should not be more than 300 words and not less than 80 words.
- It should be written well and in the past form. It must include its required items. The Competitions Department has the right to exclude the projects that do not have basic scientific information in the project abstract.

**Second: Project Plan:**

The project plan is a necessary item for all projects of the National Olympiad for Scientific Creativity "Ibdaa". It means to write the outline that was developed before starting the project. It should include the following elements:

1. **Project Problem or Hypothesis**
   It means to clarify the research problem or hypothesis that will be proven or denied. It also states the scientific background of literature for the same or similar project idea, making sure that it is an original hypothesis that represents a real creativity.
2- Project Objective and its Importance:
The importance and the purpose of the project. As well as its contribution to knowledge enrichment.

3- Procedures or Methods of Work
The steps and scientific experiments that will be carried out to prove or deny the problem and hypothesis in detail and to clarify everything related to the experiments and procedures in terms of the place and quality of the experiments, frequency and the target group of the experiments, taking into account the controls of scientific ethics, instructions and conditions to be adhered to. If there is an engineering design or innovative model, it must be a clear and complete prototype, and it must show how the model works and how to test it in several and tested conditions.

4- Results
The answers and data that will be obtained from the procedures and experiments that will be carried out. They are in a form of specific and clear numbers tabulated in tables and illustrated at graphs and pictures. There must be a confirmation that the same results will be obtained when repeating the experiments. In addition to an explanation of the method that will be used to analyze the data in a form of statistical ratios to prove or deny the hypothesis.

5- Conclusion or Recommendation
It means to relate what will be concluded to the hypothesis that will be proven or denied, and to make upcoming recommendations and feasibility study for the project.

6- References
The sources of information that will be checked and related to the idea of the project. They include scientific books, research paper, scientific theses, documented articles, scientific websites, interviews and visits. Taking into account that the number of references should not be less than 5 scientific references and they must be written in a scientific method applied in the References tab. If the project includes Vertebrates, a certified and specialist reference in animal protection must be used.

Important Information:
- The outline can be written in Arabic or English.
- It should not be less than 100 words.
- It should be written in detail. It must include its required items. The Competitions Department has the right to exclude the projects that do not have basic scientific information in the project outline.

Third: Research Paper:
Writing a detailed report on what was implemented in the project in Arabic or English, including the following elements:

1- Problem and Research Questions
Clarifying the research problem or hypothesis that will be proven or denied. They also state the scientific background of literature for the same or similar project idea. They also indicate the research objective well.
2- Design and Methodology
The steps and scientific experiments that will be carried out to prove or deny the problem and hypothesis in detail. They clarify everything related to the experiments and procedures in terms of the place and quality of the experiments, frequency and the target group of the experiments, taking into account the controls of scientific ethics, instructions and conditions to be adhered to. If there is an engineering design or innovative model, it must be a clear and complete prototype, and it must show how the model works and how to test it in several and tested conditions. It must indicate the basic materials and tools.

3- Implementation
The experiments that were carried out, and their frequencies. If there is an engineering design or innovative model, its test method should be explained in several conditions.

4- Result and Analysis
The answers, results and data obtained from the procedures and experiments carried out. They are in a form of specific and clear numbers tabulated in tables and illustrated at graphs and pictures. There must be a confirmation that the same results will be obtained when repeating the experiments. In addition to an explanation of the method used to analyze the data in a form of statistical ratios to prove or deny the hypothesis.

5- References and Literature Review
The sources of information checked and related to the idea of the project. They include scientific books, research paper, scientific theses, documented articles, scientific sites, interviews and visits. Taking into account that the number of references should not be less than 5 scientific references and they must be written in a scientific method applied in the References tab. If the project includes Vertebrates, a certified and specialist reference in animal protection must be used.

6- Creativity
The project must represent a real creativity in the research subject or in the experiment design, its methodology, the number of experiments and the volume of data obtained. For example, the research subject discussed in the research may be completely new, or had not been completed in the past, or the part that the project dealt with was not covered in the same way of the research. The project may not represent an integrated solution, but it helps simplify or develop an existing system or improve the performance efficiency of a known product. The mechanism for carrying out experiments may be innovative and was not previously known, or the number of the results and variables covered was not previously discussed.

Important Information:
- The research paper can be written in Arabic or English.
- It should be written well and in the past form. It must include its required items to clarify what was really made in the project.