

STATEMENT OF WORK FOR DRAWING UP TECHNICAL SPECIFICATIONS AND HOLDING A TENDER FOR THE DELIVERY OF ROLLING STOCK AND ITS MAINTENANCE AND REPAIR

1. Introduction

Year by year the issue of transport infrastructure in large cities is becoming more pressing due to the increasing mobility of the population.

In the long term, it is planned to expand the railway infrastructure and its capacity in the Moscow region, increase the speed of travel and construct interchanges and transport hubs by 2030. To implement this task, new rolling stock that meets the demands of increasing passenger traffic is required.

As part of the ongoing programme of developing passenger railway and intermodal transportation services in the Moscow and Tver regions, Aeroexpress is currently developing projects devoted to replacing the fleet of electric multiple units.

The main activities of Aeroexpress as a railway operator are as follows:

- Suburban passenger transportation.
- Express regional or interregional passenger transportation.
- Express passenger transportation between the city centre and airports.

The common goals of the projects are as follows:

- Renewal of the rolling stock by acquiring new modern electric multiple units.
- Making trains more comfortable in order to attract new passengers.
- Expanding railway capacity by increasing the speed of travel and the capacity of the rolling stock.
- Optimization of operating and maintenance costs.

2. Project Objectives

- Purchase of rolling stock. The number of carriages and types of trains shall be determined based on stipulations which will ensure the most rational use of their technical resources on the operation site.
- Arrangement of maintenance and repair services. To maintain and repair electric multiple units, it is required to construct new depots or reconstruct old ones. Remote depots or plants can be used for major repairs.
- Financial support of the projects.

In order to achieve the objectives described above, the operator is holding a tender to select a general contractor that will provide the services.

3. Details of the Objectives

To implement the project, the contractor is required to provide the following services:

3.1 Preparation stage

3.1.1 Carrying out an analysis of passenger traffic and migration flows, bearing in mind transport system development prospects up until 2030 in all directions.

3.1.2 Selecting the rolling stock type and determining its main technical specifications based on the results of the analysis, and bearing in mind the main operator's requirements and experience in its operation of railway rolling stock.

3.1.3 Developing a rail traffic management system and a rolling stock operation and maintenance plan.

3.1.4 Drawing up a project financing scheme.

3.1.5 Preparing and developing a financial model for the project, based on a cost-benefit analysis.

3.1.6 Preparing and developing technical specifications of the rolling stock that meet the requirements of the existing Russian regulatory documents, as well as specific requirements set out by the operator.

3.2 Arranging and holding the tender, and selecting the contractor(s).

3.2.1 Compiling, approving, and mailing the tender documentation to rolling stock suppliers in order to receive technical and commercial offers from them.

3.2.2 Considering and carrying out an expert review of technical and commercial offers. Selecting the suppliers which submitted the most rational offers.

3.2.3 Arranging meetings with suppliers, who shall present their offers.

3.2.4 Carrying out an expert review of suppliers to assess their capabilities to deliver the rolling stock within the agreed terms together with the operator's specialists.

3.2.5. Carrying out an expert appraisal of production.

3.2.6 Holding the final stage of the tender among the preferred candidates.

3.3 Negotiating the contract terms and conditions. Preliminary design and technical projects.

- 3.3.1 Supporting negotiations of the contract terms and conditions.
- 3.3.2 Negotiating the statement of work for the rolling stock.
- 3.3.3 Monitoring the technical project and manufacturing the rolling stock.
- 3.3.4 Monitoring the preparation of rolling stock maintenance and repair facilities.
- 3.3.5 Arranging and monitoring the training of the operating and service staff.
- 3.3.6 Putting the first train into service.

While implementing the project, the contractor shall negotiate and approve any activities with the operator.

Documents Required to Be Submitted to Participate in the Tender

The candidates must submit the following information about their company:

- 4.1 Brief information about the company and its form of incorporation.
- 4.2 Company's field of activity.
- 4.3 Experience in the implementation or participation in similar projects.
- 4.4 Total number of employees.
- 4.5 List of key employees who will be involved in the project and their brief CVs.
- 4.6 Commercial offer showing the calculation of costs.
- 4.7 Schedule of activities, set out in Section 3.
- 4.8 Quality management system applied by the company.
- 4.9 Quality control system applied by the company.
- 4.10 Examples of completed projects where similar tasks were implemented.