

Contract of \_\_\_\_\_ 2022  
on "Supply of electric trains (electric multiple unit trains – EMU),  
spare parts and equipment necessary for their  
maintenance, training of personnel  
and a source of loan-based financing"

## **Annex No.9**

### **PROCEDURE OF VERIFICATION OF THE ACTUAL ELECTRICITY CONSUMPTION**

1. According to the provisions of Annex №3 of the tender procedure rules, the Customer shall verify the compliance of the actual electricity consumption of the electric trains with the one specified in the simulation in the Supplier's tender according to this procedure.
2. No later than 5 (five) working days before the planned test drive, the customer shall send an invitation to the Supplier to participate in the verification of the actual electricity consumption.
3. After the completion of each test drive the customer and the Supplier shall draw up a report on test results.
4. The customer shall make no less than 2 test drives in the section Tashkent-Hojikent observing the stops and the timetable specified in Annex №3. Electricity consumption starts to be registered, when the electric train starts moving from the departure station and the end of registration of consumption is when the electric train arrives to the destination station. After the test drives the customer shall calculate the energy consumption based on the formula provided in Annex №3 (chapter 4) of the tender procedure rules.
5. Conditions of test drives.
  - 5.1. Test drives are conducted within 12 (twelve) months after the Transfer of the first electric train.
  - 5.2. Before test drives the kilometrage of an electric train should be not less than 5000.
  - 5.3. The electric train must meet all contractually agreed technical requirements; all technical changes agreed between the supplier and the customer must be implemented.
  - 5.4. The electric train should be loaded with measuring cargo, which imitates load of the electric train as per passenger loads requirements indicated in Annex №3.

- 5.5. The boundaries conditions indicated in Annex 3 should be used for the test. In case of environmental condition which does not allow the respect of some of the boundaries conditions (e.g. wind speed at 10 m/s  $\pm$  2 m/s):
- the different parameters shall be communicated to the customer before starting the test;
  - the customer shall agree on the execution of the test despite these differences
  - test report shall keep traceability of the points above.

- 5.6. In case boundaries conditions indicated in Annex №3 are not respected and the test cannot be executed, the train builder shall reschedule the test with no additional cost the customer.

6. The customer shall compare the actual electricity consumption of the electric train to the value specified in the Supplier's tender according to the following formula:

$$(\Delta E) = E_{tr} - E_s$$

where:

$\Delta E$  – difference between the actual consumption and the calculated consumption of the electric train based on the data provided for the reference line;

$E_{tr}$  – electric train's actual electricity consumption resulting from the verification test run;

$E_s$  – electric train's simulation on electricity consumption prepared by the Supplier as part of the offer based on data provided for the reference line Tashkent-Hojikent.

7. If the Customer, when comparing the results of the verification test consumption results with the simulation submitted in the tender, finds that the electricity consumption is exceeded, the Supplier shall make modifications to the electric trains to reduce the actual electricity consumption, keeping the electric train compliant with the requirements set in the Technical Specification.

The Supplier should make such changes in the electric trains within the deadline not exceeding 1 (one) year from test execution. A repeated test according to this procedure should be conducted after the implementation of changes in electric trains.

If the Supplier does not use the possibility to make changes to electric trains to reduce their electricity consumption or, exceeding electricity consumption is stated again, the price of each electric train shall be reduced according to the provisions under Clause 46.1 of Annex №13 "Draft of the Contract".