

**Minutes of the Contract Negotiations
Contract GLM04/18/Cantemir**

Date: 17 July 2018

Place: Chisinau, AEER Office, Puskin Street 5A, of. 13

List of participants:

Irina Plis, GLM Project Manager represented by AEER

Tatiana Talmatchi, GLM Project Financial Manager represented by AEER

Alexandr Matrohin, GLM Project Technical Expert represented by AEER

Roman Ciubaciuc, Mayor of Cantemir

Iurie Casap, Director, Galicus SRL

In her welcoming speech, Irina Plis congratulated Galicus SA representatives on being considered as the winning bidder following the results of the tender GLM 04/18. After the welcoming words, the parties went on to discuss the contract on Supply and Installation of Street Lighting Systems in Cantemir, Phase II following the **Tender GLM04/18**.

As a result of the discussions, the parties agreed on the following:

1. The present minutes are an integral part of the contract:

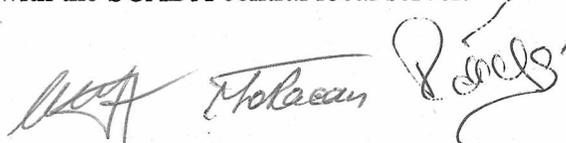
2. The Contractor shall supply all the necessary equipment and materials, and shall perform all the works in full and strict accordance with the requirements of the Contract, technical specifications and best engineering practices for the installation of the new street lighting systems in the city of Cantemir, and as necessary for their operation according to the above-mentioned requirements, particularly the following:

2.1 The installed luminaries shall fulfill the requirements of the standards acting on the territory of RM and shall ensure at least the minimum level prescribed by the standards during their life time (at least 50000 h), so that the luminance level on the surfaces (cd/m^2) degradation will not decrease the quality and quantity of street lighting below levels required by the norms acting on the territory of RM during the whole life cycle (at least 50000 h).

2.2 The dimming function shall correspond to the technical requirements: LED drivers shall support the dimming function from 10% to 100% load.

2.3 The control, operation and monitoring system shall correspond to the technical requirements of the Technical Specifications and particularly:

- a) All data regarding power consumption ((see p.3 of the Technical Specifications, Annex II+III of the Tender Dossier: Scanning frequency data from the electronic electricity meter) shall be collected by local certified electronic electricity meters for commercial metering and transferred to centralized monitoring point located in the office indicated by the Beneficiary. The systems has to scan the data at least 1 scan per 10 seconds with possibility of increasing the time of scanning up to 10 min.
- b) In the local cabinet shall be backup power (required 48 h of operation without external power) to ensure at least the possibility to do monitoring of the voltage presence of power supply and door open/close state in case of no power.
- c) Availability of an autonomous calendar that operates without external power supply with possible synchronization with the SCADA central local server.



- d) Presence of HMI (manual local setting): Contractor shall supply one portable electronic device with necessary application to ensure access and operation of local data concentrator and its settings.
- e) Remote monitoring using web browser;
- f) Possibility to review the database in both a table and graphical form with the possibility to filter the information. Min number of parameters - 50 pcs;

2.4 Features of the operational and control systems:

- a) Real-time monitoring of Power Supply and Current status;
 - b) Store and forward when communication is down (no IP connection);
 - c) Historical data for equipment performance evaluation (e.g. types of failure, frequency of failure and downtime);
 - d) Visual alarm verification;
 - e) Data for management, planning and evaluation;
 - f) Shall provide for future expansion to allow remote access to the system via wireless LAN or other available types of wireless communication compatible with another systems;
 - g) Shall be easily expandable in the future to cover more remote stations.
3. The Contractor confirms that the price of its offer includes all necessary works, materials, equipment, sim cards etc., to perform all the works under the contract fully and in accordance with the requirements and engineering practices;
 4. The Contracting Authority will appoint the person responsible for technical supervision within 5 calendar days after signing this contract;
 5. The effective date of this Contract is the date of the signing this contract. The deadline for implementation of works in Cantemir is **25 September 2018**.
 6. Within 10 days after the signing of the contract, the Contractor shall provide a detailed weekly plan for the performance of works under this contract;
 7. Payments for work under the contract (interim payment) will be made after the completion of all works according to the Article 5 of the Contract;
 8. The Contracting Authority reserves the right to test supplied luminaries for compliance of their characteristics with the ones declared and required in the Contract in an accredited laboratory; the luminaries for testing will be selected by the Contracting Authority. In case of positive results (if the compliance of the luminaries is confirmed by the tests) - the costs associated with testing will be borne by the Contracting Authority. In the event that the test results do not correspond to the declared parameters, the payment for the luminaries will not be made until they are completely replaced with ones that correspond to the requirements of the contract. In this case, all costs for laboratory tests and analysis shall be covered by the Contractor; (Article 30 of GC - Verification operations).
 9. The advance payment will be made by the Customer in accordance with paragraph 46.3. General Conditions of the Contract.
 10. The total cost of the Contract for Cantemir is 116 890,34 euro.
 11. Payment for work under the contract (interim payment) will be carried out in accordance with paragraph 49 of the Special Conditions of the Contract. The supplies shall be at the risk of the Contractor until their final acceptance (Art.29 of GC).

12. The Contractor is responsible for all equipment, materials, etc. dismantled and installed under the contract, until the commissioning is accepted.
13. The Contractor gives a warrantee of 5 years for all equipment supplied (at least for the following: luminaries, cables, brackets, elements of the control operation and monitoring system).
14. The Contractor gives a warrantee of 5 years for all works supplied.
15. The Contractor provides training to personnel on the use, operation, management and monitoring of the system. At the end of the training, the trainees will have to pass a test conducted by the Contractor.
16. The Contractor shall supply 1 computer for municipality including parameters suitable for normal monitoring, control and operation of the lighting systems, accessories (mouse, keyboard, flat monitor (IPS or equivalent matrix) with min 24 inches diagonal size, UPS).
17. The contractor shall transport all dismantled equipment to the place indicated by the Contracted Authority and pass to the Contracting Authority based on the Commissioning Act.

The minutes are signed by:

For the Contractor	For the Contracting Authority	Contracting Authority's representative
Iurie Casap	Roman CIUBACIUC	Irina PLIS
Name:	Name:	Name:
Director of "Galicus" SRL	Mayor of Cantemir	President of AEER
Title: S.R.L.	Title:	Title: ALIANȚA PENTRU EFICIENȚA ENERGETICĂ ȘI REGENERABILĂ
		
Signature and stamp:	Signature and stamp:	Signature and stamp:
17 July, 2018	17 July, 2018	17 July, 2018
Date:	Date:	Date:


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