

## EXPERIENȚĂ SIMILARĂ

1. Denumirea și obiectul contractului: "Technical design of 2 on-grid photovoltaic (PV) net-metering systems, their delivery, control, automation and installation at the kindergartens from Mindra village (4,95 KW), and Ratus village (5,4 KW) Telenesti district"
2. Numărul și data contractului: Contract NO: W-RCDP3-2 din 29.07.2022
3. Denumirea/numele beneficiarului: AO "Fondul de Inovații Sociale din Moldova", ONG / Primăria comunei Ratus
4. Adresa beneficiarului: bd. Decebal, nr. 19, of. 133, mun. Chișinău
5. Țara Republica Moldova
6. Calitatea în care a participat la îndeplinirea contractului Antreprenor general  
(se notează opțiunea corespunzătoare)
7. Valoarea contractului                      exprimată în moneda                      exprimată  
   în care s-a    în echivalent  
   încheiat contractul                                      dolari SUA
  - a) inițială  
(la data semnării contractului )    264 000,00 lei    14 668,46 USD
  - b) finală  
(la data finalizării contractului)    264 000,00 lei    14 668,46 USD
8. Dacă au fost litigii privind îndeplinirea contractului, natura acestora și modul lor de soluționare: nu au fost
9. Perioada de executare a lucrării (luni)
  - a) contractată 2 luni
  - b) efectiv realizată 2 luni
  - c) motivul de decalare a termenului contractat (dacă este cazul), care va fi susținut pe bază de acte adiționale încheiate cu beneficiarul nu e cazul
10. Numărul și data procesului-verbal de recepție la terminarea lucrărilor Nr. 2 din decembrie 2022
11. Principalele remedieri și completări înscrise în procesul-verbal de recepție nu sunt
12. Alte aspecte relevante prin care ofertantul își susține experiența similară, cu referire în mod special la suprafețe sau volume fizice ale principalelor capacități și categorii de lucrări prevăzute în contracte nu sunt

Data completării: 21.04.2023

Semnat: \_\_\_\_\_

Nume/prenume: Mereacre Andrei

Funcția în cadrul firmei: Director

Denumirea firmei: AM-Sisteme SRL

VOLUME 2

SECTION 1

CONTRACT FORM

WORKS CONTRACT FOR EUROPEAN UNION EXTERNAL ACTIONS

NO: W-RCDP-2

FINANCED FROM THE

PROJECT AGREEMENT to the Rotary

“Improvement of safe water delivery and preschool education services” grant project in Ratus community, Telenesti district

Between

**PA “Fondul de Inovatii Sociale din Moldova”, NGO**

Official registration number: 1015620000184

Full official address: Bd. Decebal, nr. 19, off 133

MD-2002 mun. Chişinău, Moldova

E-mail : [droscovan@gmail.com](mailto:droscovan@gmail.com)

GSM. 0 692 41 847

Represented by **Dumitru Roşcovan, Chairman, and:**

**Local Public Authority of Ratus village, Telenesti district**

Official registration number: 1007601003909

Full official address: City Hall of Ratus village, Telenesti district

E-mail: [primaria.ratus@gmail.com](mailto:primaria.ratus@gmail.com)

GSM. 0691 28 147

Represented by **Tudor Turcanu, Mayor**

(‘The Contracting Authority’),

of the one part,

and

**“AM SISTEME” SRL**

Official registration number: 1010600043517

Full official address: Stefan cel Mare str. nr. 1A, mun. Straseni, MD-3701, Republic of Moldova

VAT number: 8600840

Represented by **Andrei Mereacre**, GSM 0 693 65 252, E-mail: [andreimereacre@gmail.com](mailto:andreimereacre@gmail.com) / [andrei.mereacre@term.md](mailto:andrei.mereacre@term.md)

(‘the Contractor’)

of the other part,

have agreed as follows:

**PROJECT AGREEMENT** to the Rotary “Improvement of safe water delivery and preschool education services” grant project in Ratus community, Telenesti district

**CONTRACT TITLE: Technical design of 2 on-grid photovoltaic (PV) net-metering systems, their delivery, control, automation and installation at the kindergartens from Mîndra village (4.95kW), and Ratus village (5.4kW) Telenesti district.**

**Identification number RCDP-3**

Whereas the Contracting Authority would like the Contractor to carry out the following works:

- a) **provide professional engineering/design works** with emphasis on the development of design technical documents required for installation and putting into operation of 2 On-grid Photovoltaic (PV) net-metering systems, their delivery, control, automation and installation at 2 Kindergartens. The design works will also include identification of the most efficient technical solution for mounting, development of detailed technical design and engineering documentation including drawings, technical specifications, construction bill of quantities and cost estimates for each PV system, obtaining approval from state expertise, carrying out of author’s control (supervision).

- b) **supply, manufacture, delivery, unloading, installation, connection, commissioning, testing 1 month** of the 2 On-grid Photovoltaic (PV) net-metering systems with cumulative capacity of 10.35 kW.

and has accepted a tender by the Contractor for the execution and completion of such works and the remedying of any defects therein.

**It is hereby agreed as follows:**

- (1) In this Contract, words and expressions shall have the meanings assigned to them in the contractual conditions set out below.
- (2) The following documents shall be deemed to form and be read and construed as part of this Contract, in the following order of precedence:
  - (a) the Contract,
  - (b) the Special Conditions,
  - (c) the General Conditions,
  - (d) the breakdown of lump-sum price,
  - (e) any other documents forming part of the Contract.

The various documents making up the contract shall be deemed to be mutually explanatory; in cases of ambiguity or divergence, they shall prevail in the order in which they appear above. Addenda shall have the order of precedence of the document they are amending.

- (3) In consideration of the payments to be made by the Contracting Authority to the Contractor as hereinafter mentioned, the Contractor undertakes to execute and complete the works and remedy defects therein in full compliance with the provisions of the Contract.
- (4) The Contracting Authority hereby agrees to pay the Contractor in consideration of the execution and completion of the works and remedying of defects therein the amount of:
  - Contract price (including VAT/other taxes) **MDL 264 000 (Two hundred sixty-four thousand MDL).**

or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

- (5) The Parties agree to the set of rights and obligations described in the attached contractual documents, with the following main characteristics, further detailed in the attachments:

		Contract- article:	
1	Price	Lump sum contract	49
		Prices cannot be revised	48
2	Duration	3 months implementation of works "TURN KEY"	34
		Provisional acceptance, after completion of works	60
		Defects liability period of 365 days, after provisional acceptance	61
		Final acceptance, after expiry of defects liability period	62
3	Delay	0.1% of the contract price for every day of delay	36
4	Supervisor	Supervisor and supervisor's representative	5
5	Sub-contracting	Allowed up to 50% of the contract price, with the main Contractor maintaining full responsibility	7
6	Bank guarantees	no performance, pre-financing and retention guarantees	15, 46, 47
7	Insurances	For damage to 3 <sup>rd</sup> parties, unlimited for bodily injury	16
		Contractor all risk insurance	16
		Insurance against accidents at work	16
		Insurance for soundness of works	16
8	Payments	Lump sum advance for 10% of the original contract price, after conclusion of the contract, upon reception of the work plan.	46

	Interim payment for 50% of the contract price, after completion of 70% of the original contract price	49, 50
	Interim payment for 30% of the contract price, after completion of 100% of the original contract price, subject to submission of signed Preliminary statement of account	49, 50
	Retention money 10% of the contract price, within 60 days of the issuing of the signed Final statement of account	47, 49

In witness whereof the parties hereto have signed the Contract. This Contract shall take effect on the date on which it is signed by the last party, namely the Contractor.

Done in English in three originals, two originals for the contracting authority, and one original for the contractor.

For the contractor		For the contracting authority	
Name:	<b>Andrei Mereacre</b>	Name:	<b>Tudor Turcanu</b>
Title:	<b>“AM SISTEME” SRL</b>	Title:	<b>Mayor of Ratus village Telenesti district REPUBLIC OF MOLDOVA</b>
Signature:		Signature:	
		Title:	<b>Dumitru Roşcovan Chairman of PA “Fondul de Inovatii Sociale din Moldova” NGO REPUBLIC OF MOLDOVA</b>
Signature:		Signature:	
Date:	29 July 2022	Date:	29 July 2022

**VOLUME 2**  
**SECTION 2**  
**SPECIAL CONDITIONS**

**CONTENTS**

These conditions amplify and supplement the General Conditions governing the Contract. Unless the Special Conditions provide otherwise, the General Conditions remain fully applicable. The numbering of the Articles of the Special Conditions is not consecutive but follows the numbering of the General Conditions. Other Special Conditions should be indicated afterwards.

**Article 2 Language of the Contract**

2.1 The language used shall be English.

**Article 4 Communication**

4.1 Any written communication relating to this Contract between the Contracting Authority, on the one hand, and the Contractor on the other must state the Contract title and identification number, and must be sent through e-mail, fax or by hand to:

**For the Contractor**

**Andrei Mereacre, Administrator of  
"AM SISTEME" SRL  
GSM 0 693 65 252,  
Address: Stefan cel Mare str. nr. 1A, mun.  
Straseni, MD-3701, Republic of Moldova  
E-mail: [andreimereacre@gmail.com](mailto:andreimereacre@gmail.com) /  
[andrei.mereacre@term.md](mailto:andrei.mereacre@term.md)**

**For the Contracting Authority**

**Dumitru Roșcovan – Project Manager,  
GSM: 0692 41 847  
Address: Decebal str. 19, apt 133, MD-2002,  
mun Chișinău, Moldova  
E-mails: [droscovan@gmail.com](mailto:droscovan@gmail.com) /**

**Article 5 Supervisor and Supervisor's representative**

5.2 Under this contract, the supervisor does not delegate his duties and authority to a supervisor's representative.

**Article 9 Access to the site**

9.1 The Contractor is reminded that there is a Rotary Club Düsseldorf-Pempelfort (RCDP), District 1870, Germany in the state of the Contracting Authority. The Contractor is obliged to give the Head of RCDP free access to its sites, factories, workshops, etc., and generally assist the Head of RCDP, like the project Supervisor, in the performance of his duties. The same provisions also apply to the appointed representatives of the RCDP in Moldova.

**Article 12 General Obligations**

12.9 A project information passport shall be installed at the project site for visibility reasons. The details for the text and sizes shall be coordinated with the Contracting Authority.

**GENERAL CONDITIONS FOR CONSTRUCTION PROJECTS**

**Prove, warn and advisory obligation of the Contractor during project implementation**

The Contractor is obliged to inform the Contracting Authority in written form about circumstances that could lead to defects or damages. This obligation applies not only on the services and works implemented by the Contractor himself, but also on services and works implemented by other companies on the construction site he is aware of.

**Information about the construction site during the tender preparation**

The Contractor is obliged to inform himself about the situation on the site (e.g. access to the site, access to the installation areas, infrastructure, connections with electricity, fresh water, sewage, etc.)

### **Actual measurements**

The Contractor is obliged to take on site measurements and comparing the measurements with provided plans and documents. In case of deviations, the Contractor must inform the Site Supervision and the Contracting Authority in written form before starting the implementation.

### **Access to the site, streets, damages, cleaning during project implementation**

The Contractor has to organize and to coordinate the access to the construction site. Costs for damages should be borne by the Contractor. The construction site has to be cleaned periodically (once a week)

### **Power, fresh water, sewage, toilets**

Access to electricity: The Contractor has to organize and prepare a central access (main distributor) to electricity in consultation with the Municipality or Project Team and to install an electricity meter. The costs for electricity should be borne by the Contractor.

Access to fresh water: The Contractor has to organize and prepare a central access to fresh water and to install a fresh water meter in consultation with the Municipality or Project Team. The costs for fresh water should be borne by the Contractor.

Access to sewage system: The Contractor is obliged to respect the relevant regulations and requirements on the site.

Toilets must be provided and maintained by the Contractor (if needed).

### **Survey of the existing situation (surfaces, etc.)**

The Contractor must take evidence of the construction site prior to the construction works (i.e. photo documentation, description of the defects). The document should be signed (and a copy provided to) by the following parties: Contractor, Project Team or Municipality.

### **Safety regulations (incl. fire safety)**

The Contractor has to respect all national safety regulations. He is responsible for providing all required safety equipment for workers to prevent accidents.

### **Project Manager of the Contractor**

A responsible project manager must be available at the site during the entire construction period.

### **Job meetings**

The Contractor is obliged to participate in all meetings arranged and coordinated by the Site supervision, Project Team or the Municipality. Job meetings will be scheduled weekly during the construction period.

Representatives of the following parties shall participate in the meetings: Municipality, Contracting Authority, Site Supervision, Contractor's Project Manager, Facility/Institution, Project Design Company (on demand) and other interested parties.

The purpose of the job meeting is to assure proper coordination, determine construction progress, monitor progress and update the implementation schedule, review requisitions and change orders, expedite completion of the project in accordance with the contract documents and review other relevant items.

### **Changes of services and works during the construction – Change Order**

The Contracting Authority is entitled to change the contracted services and works by a Change Order. The Contractor has to submit his Change Proposal prior to the implementation of the works and services. The Contractor shall include detailed breakdowns of labour and materials for all trades involved and the estimated impact on the implementation schedule. The offer must be approved by the Contracting Authority prior to the implementation.

Works and services implemented without written approval by the Contracting Authority cannot be invoiced.

In case of significant changes in the technical design, these changes must be approved by the RCDP.

### **Samples to be approved**

The Contracting Authority is entitled to demand samples of equipment and materials which are planned to be installed by the Contractor. Those equipment and materials must be approved by the Contracting Authority prior to the installation. Costs should be borne by the Contractor.

### **List of products**

The Contractor is obliged to provide a list of the products (product, type, manufacturer, place of installation) which will be installed latest 2 weeks after signing of the contract. The list must be approved by the Contracting Authority and Site Supervision.

### **Ancillary works and services to be included in the unit prices (without additional compensation)**

All unit prices include all costs for personal and materials, which are required to deliver a turnkey project. In particular, the following must be included:

- Site overhead (if not otherwise stated)
- Effective safeguards of the entire construction site to avoid accidents (if not otherwise stated)
- Effective protection of materials against theft
- Define a geodesic fix point level (i.e height indicator for building construction)
- Prices are valid for works and services without any difference of levels, heights and depth for the entire construction site (if not otherwise stated)
- Effective preservation measures against wind, rain, snow, frost, etc. In case damages occur even if the Contractor had foreseen preservation measures, the Contractor is obliged to remove barriers that hinders the continuation of works and repair damages without any additional compensation
- All unit prices for the offered works and services must include all required materials, delivery, installation, fixing materials, testing, cutoffs and broken materials
- Participation of job meetings
- Maintaining the construction site logbook
- Difficulties due to weather conditions (snow, wind, rain, ice, etc.)
- Difficulties due to the delivery the works and services in sections (to maintain the facilities/institutions operation)
- Certificates for materials
- Requested samples of materials and installation procedures
- All required documents, calculations and measurements for invoicing
- All design services which are required for the construction and installation (if not otherwise stated)
- Documents which are required for the authorities (certificates, attestations, documents, etc.) (if not otherwise stated)

### **Taking into operation parts of the works and services**

The Contracting Authority is entitled to take in operation parts of the finalized work prior to the final acceptance. This does not affect the final acceptance procedure of the entire works and services described below.

### **Requirements of the provisional acceptance:**

Availability of a complete documentation of the completed works (technical datasheets, user manuals, maintenance plan, etc.)

### **Final acceptance**

The final acceptance has to be carried out in following manner:

- 1) The Contractor informs the Contracting Authority in written form about the completion of the project. Installations which are not visible any more at the time of the final acceptance (i.e. covered water supply pipes, electric cables works) shall be approved by the Site Supervisor prior to the finalization of such works. The Contractor is obliged to inform the Site Supervision in due time for the approval of such works.
- 2) The Contracting Authority organizes a meeting at the construction site with the following participants: Contracting Authority, Municipality, Project Team, Site Supervision, Contractor, Facility/Institution, Support Team (or expert provided by Support Team) and other relevant parties. During this meeting the finalization of the services and works will be verified. Major construction defects or any other major deviation from the agreed services and works will be recorded (pictures, minutes, etc.). The list of construction defects will be signed by all parties at the end of the meeting.
- 3) A list of construction defects incl. deadlines for their correction will be handed over to the Contractor by the Contracting Authority.
- 4) After correction of the construction defects, the Contractor has to inform the Contracting Authority in written form about the completion.
- 5) The Contracting Authority organizes a meeting at the construction site to verify the corrections of the construction defects. In the event that all defects have been corrected the final acceptance protocol will be signed by all parties.

### **In the event of conflicts between the project documents, the following sequence shall be agreed:**

- 1) Contract incl. general terms of condition
- 2) Technical drawings and schemes
- 3) Bill of Quantities, incl. Annex (detailed descriptions)

**Article 15 Performance guarantee**

- 15.1 By derogation to Article 15 of the General Conditions, no performance guarantee is required under this contract.

**Article 16 Liabilities and Insurance**

- 16.1 a) By way of derogation from Article 16.1, a) paragraph 2, of the general conditions, compensation for damage to the works resulting from the Contractor's liability in respect of the Contracting Authority is capped at an amount equal to the contract value.
- 16.1 b) By way of derogation from Article 16.1, b), paragraph 2, of the general conditions, compensation for damage resulting from the Contractor's liability in respect of the Contracting Authority is capped at an amount equal to the contract value.

**Article 17 Programme of implementation of tasks**

- 17.1 The Contractor shall provide the Supervisor with a simplified programme of implementation of the tasks. This programme shall include at least the order and time limits in which the Contractor proposes to carry out the works, and shall be based on the tranches foreseen in art. 49.1 of the special conditions.
- 17.2. The Supervisor shall return this document to the Contractor with any relevant remarks within 10 days of receipt, save where the Supervisor, within those 10 days, notifies the Contractor of its wish for a meeting in order to discuss the documents submitted.

**Article 21 Exceptional risks**

- 21.4 Only those provided in safety rules for corresponding types of works RM (weather conditions and other force majeure circumstances).

**Article 34 Period of implementation of tasks**

- 34.1 up to 3 (three) months from the Contract signing date.

**Article 36 Delays in the implementation of tasks**

- 36.1 The rate of liquidated damages for delays in the completion of works shall be 0.1% of the contract price for every day or part thereof which elapses between the end of the period of implementation of tasks and the actual date of completion, up to a maximum amount of 10% of the contract price or, if the contract is subdivided into phases, 10% of the price of the phase concerned.

**Article 39 Work register**

- 39.1 Work register is required, according to national standards in construction, and shall be completed by the Contractor.
- 39.2 Technical rules for drawing up statements are as follows:

During implementation, the supervision will be carried out by the local technical supervisor and the Contracting Authority's consultant in technical issues.

**Statement of Accomplished Works (SAW)** - As works progress the Contractors will submit a SAW to the Contracting Authority. The LPA of Ratus will sign off on the accomplished works after they are verified by the local supervisor, who has to sign the SAW. The SAW will include the following information:

- Quantity of Work and Accumulated Quantity since the last SAW, reflecting any amendment to the original amount of works (change orders);
- Kind of completed works, the total budgeted amount, accumulated disbursement, and the amount to be disbursed.

The signed SAW is verified by the consultant in technical issues and, if accepted, the payments are done to the contractors.

**Subproject Hand Over and Certification** - A Hand over Committee will be formed, consisting of the Contracting Authority, Local supervisor and Contractor's representatives. Upon completion of the civil works, a completion and hand over meeting will be held and the members



of the Hand Over Committee will gather at the subproject site and verify the satisfactory completion of all works. The Hand Over Committee will examine the quantity and quality of works completed and will render a decision regarding the completion.

- If the Hand Over Committee determines that the works are fully completed and the quality is satisfactory to all concerned parties and corresponds to the terms of the original contract, then the Provisional Hand Over Agreement without comments will be signed.
- If the Hand Over Committee determines that some details need to be completed, a Provisional Hand Over will be signed with written recommendations, and the date of the Hand Over will be designated. On this day, the Hand Over Committee will gather once again and verify that all concerns were met, and assure that the requirements are fulfilled. If the subproject is acceptable, then the Final Hand Over Agreement will be signed.

#### **Article 40 Origin and quality of works and materials**

- 40.1** All goods purchased under the Contract must originate in any eligible source country as defined in Regional Programme in the Eastern Neighbourhood in support of the Eastern Partnership Flagship Initiative on Sustainable Municipal Development, Covenant of Mayors programme. However, the goods to be purchased may originate from any country, whenever the total price of the estimated quantity of those goods, as reflected in a separate item of the Breakdown of the Lump-sum Price (Volume 4.2.3) is below 100.000 €. A category of similar goods to be purchased shall not be broken down over more than 1 item of the Breakdown of the Lump-sum Price (Volume 4.2.3)

For these purposes, 'origin' means the place where the goods are mined, grown, produced or manufactured and/or from which services are provided. The origin of the goods must be determined according to the EU Customs Code or the applicable international agreement.

When importing goods, any change in the specified origin must be pointed out to the project Supervisor and approved by him.

- 40.2** The works and the objects, appliances, equipment or materials used in their construction must comply with the following specifications:

- **BREAKDOWN OF THE LUMP-SUM PRICE**

#### **Article 43 Ownership of plant and materials**

- 43.2** The equipment, temporary structures, plant and materials on the site shall, for the duration of the execution of the works, be vested in the Contracting Authority.

#### **Article 44: General principles for payments**

- 44.1** Payments shall be made in national currency MDL.

#### **Article 46 Pre-financing**

- 46.1** The only prefinancing granted to the Contractor, is the lump sum advance referred to in Article 46.1(a).

- 46.2** By derogation to Article 46.2 of the General Conditions, the lump sum advance referred to in Article 46.1(a) shall be 10% of the original contract price.

- 46.3(c)** By derogation from Article 46.3(c) of the General Conditions, no pre-financing guarantee is required.

- 46.8** The tranches laid down in Article 49.1 of these Special Conditions are determined so that the pre-financing is fully repaid before Provisional Acceptance.

#### **Article 47 Retention monies**

- 47.1** The sum retained to guarantee implementation of the Contractor's obligations during the defects liability period is 10% of the contract price. By derogation to Article 47.1 of the General Conditions, that money is not retained from interim payments. The tranches laid down in Article 49.1 of these Special Conditions are determined so that the retention sum amounts to 10% of the contract price at the moment of the Certificate of provisional acceptance.

47.2 By derogation to Article 47.2 of the General Conditions, the retention sums cannot be substituted by a retention guarantee.

**Article 48 Price revision**

48.1 Prices are fixed and shall not be revised.

**Article 49 Measurement**

49.1 This is a lump-sum contract.

The amounts due shall be calculated by measuring the percentage of works carried out in relation to the firm quantities of each item of the Breakdown of the Lump-sum Price and by applying that percentage to the lump-sum price of the related item, through the following tranches:

	<b>Percentage</b>	<b>Nature</b>	<b>Timing</b>
1.	10%	Lump-sum advance of Article 46.1(a)	Lump sum advance for 10% of the original contract price, after conclusion of the contract, upon reception of the work plan.
2.	50%	Interim payment of Article 50	Interim payment for 50% of the contract price, after completion of 70% of the original contract price
3.	30%	Interim payment of Article 50	Interim payment for 30% of the contract price, after completion of 100% of the original contract price, subject to submission of signed Preliminary statement of account
5.	10%	Retention money of Article 47	Retention money 10% of the contract price, within 60 days of the issuing of the signed Final statement of account

**Article 50 Interim payments**

50.7 The interim payments will be paid as determined in Article 49.1 of these Special Conditions.

**Article 61 Defects liability**

61.1 The defects liability period is defined as the period commencing on the date of provisional acceptance, during which the Contractor is required to make good any effect in, or damage to, any part of the work which may appear or occur during this period as notify by the Supervisor or the Contracting Authority. The rights and obligations of the parties with regard to this defects liability period are laid down in Article 61 of the General Conditions.

**Article 68 Dispute settlement**

68.4 Any dispute arising out of or relating to this Contract which cannot be settled otherwise shall be referred to the exclusive jurisdiction of the Republic of Moldova in accordance with the national legislation of the state of the Contracting Authority.

\* \* \*

**Primăria comunei Ratuș, r-nul Telenești  
AO Fondul de Inovații Sociale din Moldova ONG**

**PROCES-VERBAL  
DE RECEPȚIE LA TERMINAREA LUCRĂRILOR  
Nr. 2 din \_\_\_\_\_ 2022**

Privind efectuarea lucrărilor la obiectul: **"Instalarea sistemului fotovoltaic de 5,4 kW la grădinița de copii din satul Ratuș"** în cadrul contractului nr. W-RCDP3-2 din 29 iulie 2022 încheiat între **Primăria com. Ratuș r-nul Telenești, AO "Fondul de Inovații Sociale din Moldova", ONG și "AM SISTEME" SRL**

1. Lucrările au fost executate în baza **Autorizației de construcție nr. 5**, eliberată de către Primăria com. Ratuș, r-nul Telenești la 28.11.2022, cu valabilitate de 6 luni.
2. Comisia de recepție și-a desfășurat activitatea în intervalul \_\_\_\_\_ decembrie 2022 fiind formată din:  
**Președintele comisiei:**  
Țurcanu Tudor - Primarul com. Ratuș  
**Membrii comisiei:**  
Pavlov Ira - Contabil șef, com. Ratuș  
Cernica Raisa - Director gradinita  
Ciobanu Raisa - Consilier local  
Lungu Vladimir - Șef inspecție pentru protecția mediului Telenești  
Ciobanu Vladimir - Șef secției construcție Consiliul Raional Telenești  
Neaga Igor - Responsabil Tehnic
3. Au mai participat la recepție:  
Roșcovan Dumitru- Director AO "Fondul de Inovații Sociale din Moldova", ONG  
Damian Ion - Consultant, probleme tehnice AO "Fondul de Inovații Sociale din Moldova", ONG  
Mereacre Andrei - Administrator "AM SISTEME" SRL
4. Constatările comisiei de recepție:
  - 1) din documentația scrisă și desenată, care trebuia prezentată, au lipsit sau sînt incomplete lucrările cuprinse în lista-anexă nr. 1
  - 2) lucrările cuprinse în lista-anexă nr. 2 nu au fost executate;
  - 3) lucrările, cuprinse în lista-anexă nr.3, pentru care nu s-au respectat prevederile proiectului.
5. Comisia de recepție, în urma constatărilor făcute, propune:  
**Recepția obiectului "Instalarea sistemului fotovoltaic de 5,4 kW la grădinița de copii din satul Ratuș" la terminarea lucrărilor**
6. Comisia de recepție motivează propunerea făcută prin:  
**Obiectul construit corespunde cu proiectul tehnic de execuție, NCM și legislației în vigoare a RM**
7. Comisia de recepție recomandă următoarele: - **Recepția și exploatarea obiectului conform destinației**
- 7<sup>1</sup>. Descrierea obiectului recomandat spre recepție:
  - a) **Panouri fotovoltaice cu P<sub>tot</sub>=5,4 kW – 12 unități.**
  - b) **Invertor trifazat - 1 unitate.**

c) Panouri electrice de distribuție din material plastic și metal pentru sistemul fotovoltaic – 2 unități.

Costul total al lucrărilor recepționate este de 135 600 MDL, inclusiv TVA.

8. Prezentul proces-verbal, conținând 2 file și 3 anexe numerotate, cu un total de 5 file, a fost încheiat astăzi \_\_\_\_\_ 2022 în 5 exemplare.

9. Concluzia Agenției pentru Supraveghere Tehnică:

(funcția, numele, prenumele)

(semnătura)

Comisia de recepție:

Președintele comisiei:

ȚURCANU TUDOR

Membrii comisiei:

PAVLOV IRA

CERNICA RAISA

CIOBANU RAISA

LUNGU VLADIMIR

CIOBANU VLADIMIR

NEAGA IGOR

Contrasemnat de:

ROȘCOVAN DUMITRU

DAMIAN ION



*IR*  
*C. Raissa*



10. Lucrarea executată la obiectul "Instalarea sistemii fotovoltaice de 5,4 kW la grădinița de copii din satul Rătuș" este:

TRANSMISĂ:  
EXECUTANTUL:

" \_\_\_\_ " Decembrie 2022

ANDREI MEREACRE  
Administrator AM SISTEME SRL

L.Ș.

(semnătura)



PRIMITĂ:  
BENEFICIARUL

" \_\_\_\_ " Decembrie 2022

ȚURCANU TUDOR  
Primarul com. RĂTUȘ, rn. Telenești

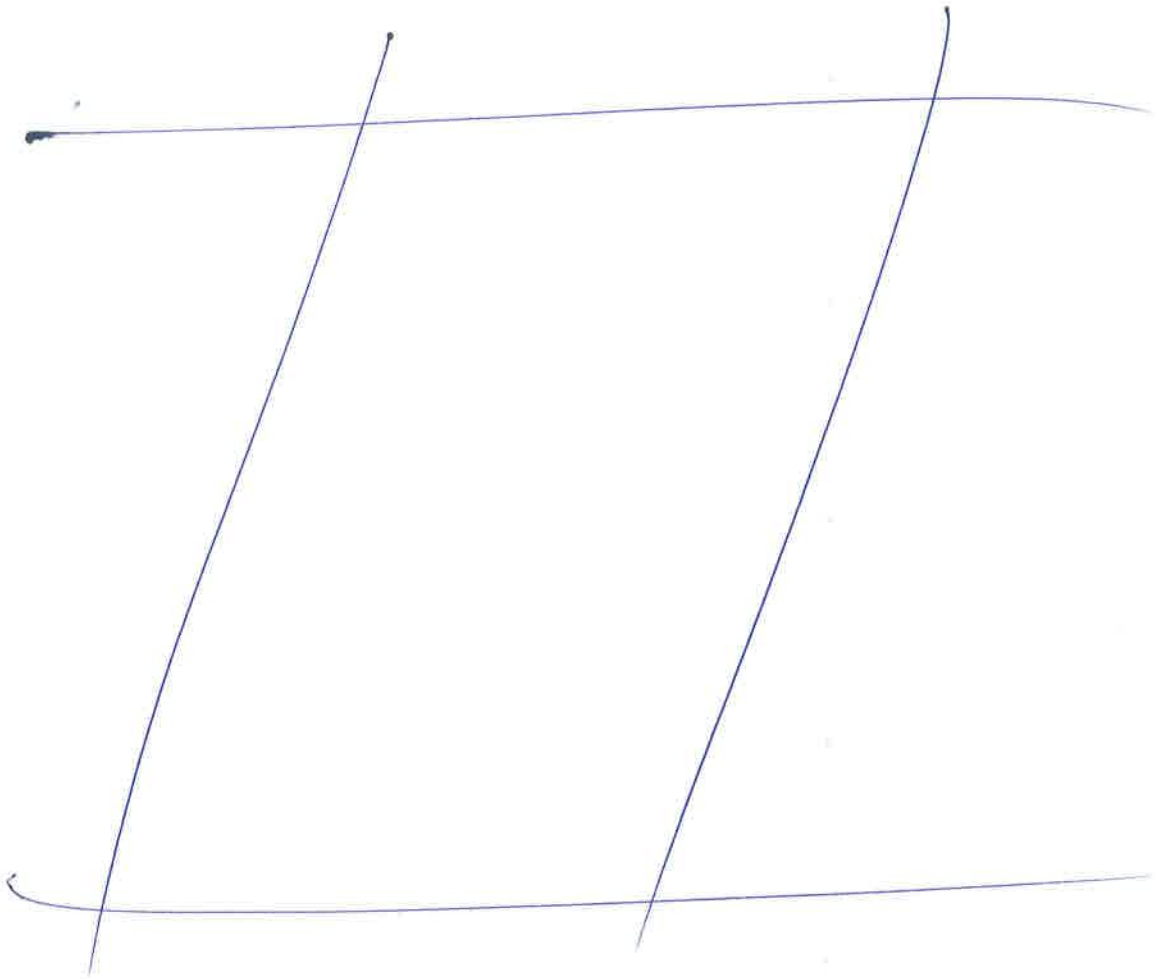
L.Ș.

(semnătura)

*Tudor*



**Lista pieselor din documentația scrisă și desenată a obiectului  
care sunt lipsă sau incomplete.**



**PRIMARUL, Președintele Comisiei**



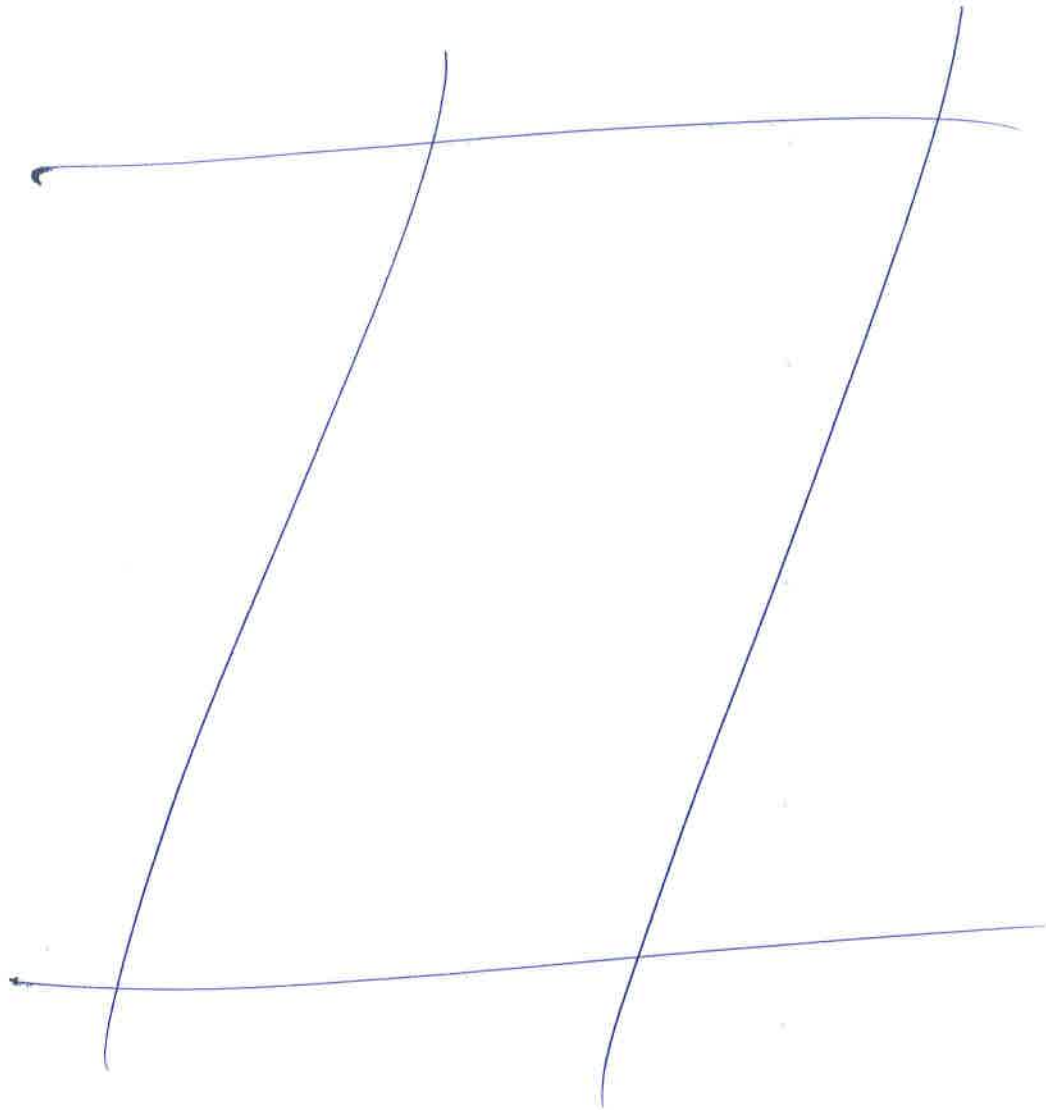
**ȚURCANU TUDOR**

**RESPONSABIL TEHNIC**



**NEAGA IGOR**

**Lista lucrărilor cuprinse in Documentația Tehnică  
ce n-au fost executate.**



**PRIMARUL, Președintele Comisiei**



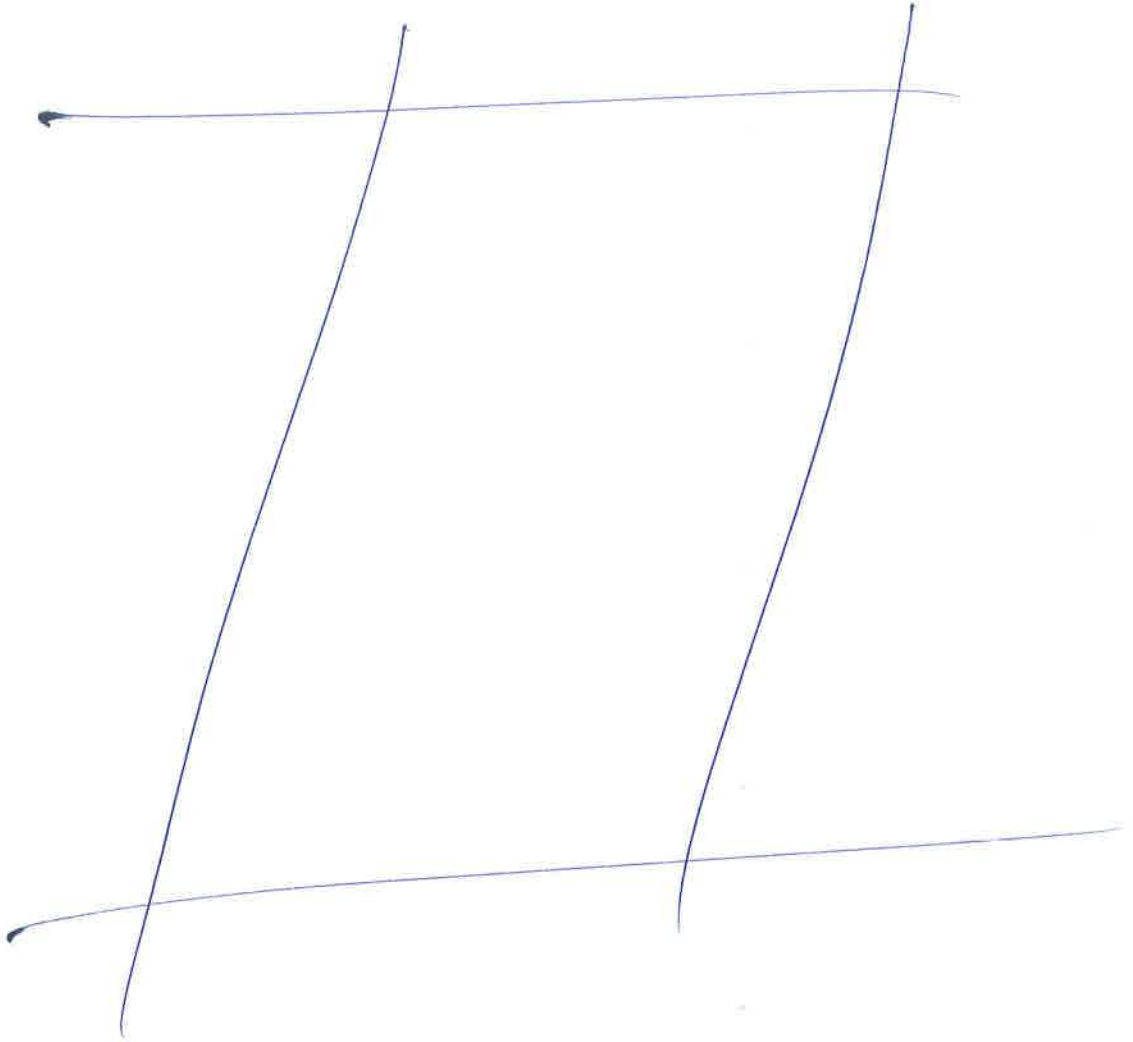
**ȚURCANU TUDOR**

**RESPONSABIL TEHNIC**



**NEAGA IGOR**

**Lista lucrărilor cuprinse in Documentația Tehnică  
la care nu s-au respectat prevederile proiectului.**



**PRIMARUL, Președintele Comisiei**

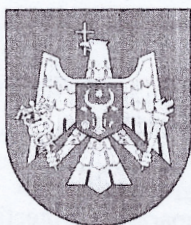


**ȚURCANU TUDOR**

**RESPONSABIL TEHNIC**



**NEAGA IGOR**



## Republica Moldova

### Agencia Națională pentru Reglementare în Energetică ANRE

str. Pușkin, nr. 52A, MD-2005, Chișinău, tel: 022 823 955, [anre@anre.md](mailto:anre@anre.md), <http://www.anre.md>

#### ACT DE CORESPUNDERE

a instalației electrice de utilizare noi/reconstruite, sistemului de distribuție închis,  
centralei electrice și pentru transmiterea cu titlu gratuit a instalațiilor electrice

1. Proprietarul, Primăria com. Ratuș, r-nul Telenеști, com. Ratuș, 025871460, 1007601003909,  
denumirea, adresa juridică, tel., IDNO, e-mail

Centrală electrică fotovoltaică, r-nul Telenеști, s. Ratuș, 9007, NLC 1375808  
destinația instalației, adresa locului de consum

2. Reprezentantul proprietarului: primar, Tudor TURCANU  
funcția, numele, prenumele

3. Proiectul instalației electrice de racordare este elaborat de: \_\_\_\_\_

denumirea instituției de proiectare, nr. certificatului, coordonarea proiectului, data coordonării

4. Proiectul instalației electrice de utilizare/**centralei electrice** SF22/22-LEA este elaborat de SRL „NASA”, mun. Chișinău, proiectant Svetlana POLIVANA, certificat nr. 0427 din 2019, domeniile C.4; verificator de proiecte nr. 042 Vladimir TITARCIUC, domeniile C. 4, 6b valabil de la 21.01.2020 până la 21.01.2025, nr. 277/09.2022 de înregistrare a avizului; coordonat cu Î.C.S. „PREMIER ENERGY DISTRIBUTION” S.A. la 18.10.2022, proiectant Alexei VASILIU, certificat nr. 0665 din 2020, domeniile B. 1, 2, 7; verificator de proiecte nr. 004 Eugenia CIOBANU, domeniile B. 1, 2, 7 valabil de la 07.02.2018 până la 07.02.2023, nr. CE-404/19.10.2022 de înregistrare a avizului.

denumirea instituției de proiectare, nr. certificatului, coordonarea proiectului, data coordonării

5. Executantul instalației electrice de racordare este \_\_\_\_\_

persoană fizică/ agent economic

electricianul autorizat \_\_\_\_\_ nr. autorizației \_\_\_\_\_ valabilă până la \_\_\_\_\_  
numele, prenumele

Declarația electricianului autorizat din \_\_\_\_\_

6. Executantul instalației electrice de utilizare/**centralei electrice** este Mereja Serghei

persoană fizică/ agent economic

electricianul autorizat Mereja Serghei nr. autorizației 28 valabilă până la 29.07.2025  
numele, prenumele

Declarația electricianului autorizat nr. f/n din 07.11.2022.

7. Parametrii instalației electrice \_\_\_\_\_

- Linii electrice aeriene: lipsesc - Tipul \_\_\_\_\_; Tensiunea \_\_\_\_\_ kV; Puterea proiectată \_\_\_\_\_ kW; Lungimea \_\_\_\_\_ km; Marca conductoarelor \_\_\_\_\_ și S, - \_\_\_\_\_ mm<sup>2</sup>; Marca stâlpilor \_\_\_\_\_ și nr. de stâlpi \_\_\_\_\_; Intersecții cu alte comunicații \_\_\_\_\_; Suspendarea comună cu LEA \_\_\_\_\_; Pierderi de tensiune (conform proiectului) \_\_\_\_\_, V.
- Linii electrice în cablu: lipsesc - Tipul \_\_\_\_\_; Tensiunea \_\_\_\_\_ kV; Puterea proiectată \_\_\_\_\_ kW; Modul de amplasare \_\_\_\_\_; Lungimea \_\_\_\_\_ km; S, - \_\_\_\_\_ mm<sup>2</sup>; Intersecții cu alte comunicații \_\_\_\_\_; Pierderi de tensiune (conform proiectului) \_\_\_\_\_, V.
- Posturi de transformare: lipsesc Tipul \_\_\_\_\_; Nr./Puterea transformator de forță \_\_\_\_\_ kVA; Tensiunea / / kV; Schema conectării înfășurărilor / /; Aparat de protecție U=V, tip \_\_\_\_\_, I nom \_\_\_\_\_ A; R prizei pământ \_\_\_\_\_ Ω; R izolație transformator \_\_\_\_\_ Ω; Sistemul de răcire al transformatorului \_\_\_\_\_.



- d. Instalații de compensare a puterii reactive: lipsesc Tipul instalației \_\_\_\_\_; Tensiunea în punctul de racordare \_\_\_\_\_ kV; Puterea proiectată \_\_\_\_\_ kVAr; Numărul de faze \_\_\_\_\_; Numărul de trepte de reglare \_\_\_\_\_; Curentul maxim de lucru  $I_{max}$  \_\_\_\_\_ A; Diapazonul de reglare a valorii factorului de putere  $\cos\phi$  \_\_\_\_\_;
- e. Generatoare electrice autonome: lipsesc Tip generator \_\_\_\_\_; Nr./Puterea \_\_\_\_\_ kVA; Numărul de faze \_\_\_\_\_; Tensiunea \_\_\_\_\_ kV; Tip aparat de protecție \_\_\_\_\_;  $I_{nom}$  \_\_\_\_\_ A; Tip întreruptor basculant \_\_\_\_\_;  $I_{nom}$  \_\_\_\_\_ A.
- f. Centrale electrice fotovoltaice: Tip module LR4-72HPH-450M; Nr./Puterea 12/0,45kW; Tip invertor GEP6.0-3-10;  $I_{max}$   $2 \times 15$  A; Tensiunea 140-950 V; Tip aparat de protecție curent continuu, element fuzibil gPV  $I_{fiz}$  16 A; Numărul de faze, trifazat \_\_\_\_\_.
- g. Centrale electrice eoliene: lipsesc Tip instalație \_\_\_\_\_; Nr./Puterea \_\_\_\_\_ kW; Tip generator \_\_\_\_\_; Tensiunea \_\_\_\_\_ kV; Tip aparat de protecție curent continuu \_\_\_\_\_;  $I_{nom}$  \_\_\_\_\_ A; Numărul de faze \_\_\_\_\_.
- h. Centrale electrice hidroelectrice: lipsesc Tip instalație \_\_\_\_\_; Nr./Puterea \_\_\_\_\_ kW; Tip generator \_\_\_\_\_; Tensiunea \_\_\_\_\_ kV; Tip aparat de protecție curent continuu \_\_\_\_\_;  $I_{nom}$  \_\_\_\_\_ A; Numărul de faze \_\_\_\_\_.
- i. Centrale de cogenerare pe biogaz: lipsesc Tip instalație de ardere \_\_\_\_\_; Nr./Puterea \_\_\_\_\_ kW; Tip generator \_\_\_\_\_; Tensiunea \_\_\_\_\_ kV; Tip aparat de protecție curent continuu \_\_\_\_\_;  $I_{nom}$  \_\_\_\_\_ A; Numărul de faze \_\_\_\_\_.
- j. Centrale de cogenerare pe biomasă solidă: lipsesc Tip cazan \_\_\_\_\_; Nr./Puterea \_\_\_\_\_ kW; Tip turbină \_\_\_\_\_; Tip generator \_\_\_\_\_; Tensiunea \_\_\_\_\_ kV; Tip aparat de protecție curent continuu \_\_\_\_\_;  $I_{nom}$  \_\_\_\_\_ A; Numărul de faze \_\_\_\_\_.

#### 8. Componenta sarcinii

se enumeră principalele receptoare electrice cu indicarea puterii lor nominale, inclusiv receptoarele de categoria I și II kW

9. Au fost prezentate următoarele documente tehnice:

a. Avizul de racordare nr. G20952022070006 din "22" iulie 2022, emis de I.C.S. „PREMIER ENERGY DISTRIBUTION” S.A. pentru  $P_{aprobata} = 10$  kW;  $I_{sc} = 296$  A,  $U = 380$  V.

Punctul de racordare este stabilit la PDC-140, fid. 1, PT-94H fid.3, LEA-0,4 kV, stâlpul-9/1

b. Raportul tehnic de măsurări și încercări în instalațiile electrice de racordare și de utilizare:

Raport tehnic nr. 48 din 05.10.2022 cu privire la efectuarea măsurărilor și încercărilor de reglare-recepție și profilactice, ca parte integrantă a procesului de mentenanță a instalației electrice care include următoarele procese verbale:

Proces - verbal nr. 68-1/10/22 din 05.10.2022 „Verificarea continuității electrice dintre priza de pământ și instalațiile protejate”;

- Proces - verbal nr. 68-2/10/22 din 05.10.2022 „Măsurarea rezistenței prizei de pământ”;

- Proces - verbal nr. 68-3/10/22 din 05.10.2022 „Măsurări a rezistenței a izolației echipamentelor, aparatelor și linilor electrice;

- Proces - verbal nr. 68-4/10/22 din 05.10.2022 „Verificarea acționării protecției în instalațiile electrice cu neutrul legat la pământ cu sistemul de legare la pământ TN”.

denumirea, numărul, data, procesele verbale

întocmite de către laboratorul electrotehnic SRL „LT Power Group”

autorizația nr. 1, valabilă până la 19 aprilie 2025, șeful laboratorului Constantin LISNIC

Concluziile: Raportului tehnic confirmă că, instalațiile electrice de racordare și utilizare corespund cerințelor documentelor normativ-tehnice. corespund

- Proces - verbal nr. 01-1/8 din 07.11.2022 „Măsurarea rezistenței de izolație a aparatelor electrice, circuitelor secundare, cablurilor, rețelelor de iluminat cu tensiunea până la 1000 V”

întocmit de către laboratorul electrotehnic SRL „Ialelectroserv”

autorizația nr. 11, valabilă până la 24 februarie 2023, șeful laboratorului Ion MURZIN

Concluzie: Procesul verbal confirmă că, rezistența izolației cablului, aparatelor de protecție și a firelor de conexiune corespund normelor pct. NAIE 1.8.37.

c. Alte documente prezentate:

existența în

- Borderoul echipamentului electric montat din 17.10.2022;
- Act de recepție a lucrărilor de executare a instalației electrice;
- Schema monofilară de alimentare a centralei electrice fotovoltaice din 17.10.2022;
- Act de transmitere a echipamentului montat pentru efectuarea lucrărilor de reglare-demarare;
- Cerere pentru eliberarea actului de corespundere al centralei electrice fotovoltaice din posesia primăriei com. Ratuș, r-nul Telenești, înregistrată la ANRE, cu nr. 16047 din 10.11.2022;
- Pașaportul inverterului de modelul GEP6.0-3-10,  $P_{AC} = 6 \text{ kW}$ ,  $U = 230/400 \text{ V}$ ,  $P_{DC} = 12 \text{ kW}$  anul producerii inverterului, 2021;
- Pașaportul modulelor fotovoltaice de tip LR4-72HPH450W,  $P_{tot} = 5,4 \text{ kW}$ , anul producerii modulelor fotovoltaice, 2021;
- Lista mijloacelor de protecție și Rapoartele tehnice ale acestora.

denumirea documentului, data

10. Persoana responsabilă de gospodăria electrică/exploatarea inofensivă a instalației electrice este: Sergiu Cristea, desemnată conform ordinului/contract de deservire nr. 02/1-7-49 din

nume, prenume

18.11.2022, atestată la grupa de securitate electrică IV, talonul de autorizare nr. 183 este eliberat de Serviciului Teritorial ANRE Călărași

denumirea Serviciului Teritorial

11. Date suplimentare:  $P$  contractată/declarată 10/5,4 kW

Tip aparat de protecție :		Tablou de evidență				$I_{sc} = 157 \text{ A}$	
Siguranță fuzibilă:		$I_{nom}, \text{A}$		$I_{fuz}, \text{A}$			
Înterupător automat:		BA47-29 3P		$I_{nom} = 25 \text{ A}$		Caracteristica de declanșare	
Declanșator reglabil:				k=		B	
Termic	$I_n$	A	$I_r =$	$\times I_n =$	A		
Electromagnetic	$I_n$	A	$I_{sd} =$	$\times I_r =$	A		
			sau $I_{sd} =$	$\times I_n =$	A		
Electronic	$I_n$	A	$I_r =$	$\times I_n =$	A	t act.reg=	s
			$I_m =$	$\times I_r =$	A	t act.reg=	s
			$I_m =$	$\times I_n =$	A	t act.reg=	s

Tip aparat de protecție :		Inverter				$I_{sc} = 146 \text{ A}$	
Siguranță fuzibilă:		$I_{nom}, \text{A}$		$I_{fuz}, \text{A}$			
Înterupător automat:		BA47-29 3P		$I_{nom} = 20 \text{ A}$		Caracteristica de declanșare	
Declanșator reglabil:				k=		B	
Termic	$I_n$	A	$I_r =$	$\times I_n =$	A		
Electromagnetic	$I_n$	A	$I_{sd} =$	$\times I_r =$	A		
			sau $I_{sd} =$	$\times I_n =$	A		
Electronic	$I_n$	A	$I_r =$	$\times I_n =$	A	t act.reg=	s
			$I_m =$	$\times I_r =$	A	t act.reg=	s
			$I_m =$	$\times I_n =$	A	t act.reg=	s

### Concluzii:

Instalația electrică corespunde cerințelor documentelor normativ-tehnice.

în cazul admiterii pe etape/provizoriu se va menționa despre existența

Inspector ST Călărași Andrei VRABIE


inspector superior / inspector Serviciu Teritorial numele, prenumele

Inspector șef ST Călărași Nicolae STRATAN

Șef Serviciu Teritorial / inspector superior / inspector Serviciu Teritorial

semnătura

numele prenumele



Actul este înregistrat la ANRE cu nr. 721 din 18.11.2022

Notă. Actul se perfectează în două exemplare. 1 – se emite consumatorului final; 2 – se păstrează la ANRE.