Contract no. 8451-C1.10

between

<u>Moldova Energy Projects Implementation Unit</u> (MEPIU)

and

JV Techno Test SRL & Promintergaz SRL

for

Procurement of Plant Design, Supply and Installation of 120 Individual Heating Substations and associated pipes in Chisinau District Heating System Digitally signed Date: 2023.06.15 Reason: MoldSig Location: Moldo

> signed b 1.01.19 foldSig Moldo

Digitally Date: 202 Reason: Location

Chisinau, 2019

Integral Parts of the Contract:

Part A. Contract Agreement and the Appendices hereto

- Part B. Letter of Bid and Price Schedules submitted by the Contractor
- Part C. Particular Conditions
- Part D. General Conditions
- Part E. Specification and Drawings
- Part F. Other completed bidding forms submitted with the Bid Not applicable
- Part G. Any other documents forming part of the Employer's Requirements Not applicable

Part H. Other documents:

- Employer's Notification of Award
- Minutes at the Contract signing

Slow

(

Part A. Contract Agreement and the Appendices hereto

3

Sloward

C .

Contract Agreement no. 8451-C1.10

THIS AGREEMENT is made the <u>8th day of February</u>, 2019,

BETWEEN

(1) Moldova Energy Projects Implementation Unit (for the Beneficiary – "TERMOELECTRICA" SA), a corporation incorporated under the laws of Republic of Moldova and having its principal place of business at 1, Alecu Russo Street, block A1, office 163, Chisinau, MD-2068, Republic of Moldova (hereinafter called "the Employer"),

and

(2) **Joint Venture Techno Test SRL** and **Promintergaz SRL**, a corporation incorporated under the laws of Republic of Moldova and having its principal place of business at 66, Mihai Eminescu Street, Chisinau, MD-2012, Republic of Moldova (hereinafter called "the Contractor").

WHEREAS the Employer desires to engage the Contractor to design, manufacture, test, deliver, install, complete and commission certain Facilities, viz. *Procurement of Plant Design, Supply and Installation of 120 Individual Heating Substations and associated pipes in Chisinau District Heating System* ("the Facilities"), and the Contractor has agreed to such engagement upon and subject to the terms and conditions hereinafter appearing.

NOW IT IS HEREBY AGREED as follows:

Article 1. Contract1.1Contract Documents (Reference GC Clause 2)DocumentsThe following documents shall constitute the

The following documents shall constitute the Contract between the Employer and the Contractor, and each shall be read and construed as an integral part of the Contract:

- (a) This Contract Agreement and the Appendices hereto
- (b) Letter of Bid and Price Schedules submitted by the Contractor
- (c) Particular Conditions
- (d) General Conditions
- (e) Specification and Drawings
- (f) Other completed bidding forms submitted with the Bid Not applicable
- (g) Any other documents forming part of the Employer's Requirements Not applicable
- (h) Other documents:
 - Employer's Notification of Award
 - Minutes at the Contract signing
- 1.2 <u>Order of Precedence</u> (Reference GC Clause 2)

In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order

4

Price and Terms

of Payment

in which the Contract Documents are listed in Article 1.1 (Contract Documents) above.

1.3 Definitions (Reference GC Clause 1)

Capitalized words and phrases used herein shall have the same meanings as are ascribed to them in the General Conditions.

Article 2. Contract 2.1 Contract Price (Reference GC Clause 11)

The Employer hereby agrees to pay to the Contractor the Contract Price in consideration of the performance by the Contractor of its obligations hereunder. The Contract Price shall be the aggregate of: of **EUR 1,925,175.00** and **MDL 2,337,597.00** (one million nine hundred twenty-five thousand one hundred seventy-five Euro and 00 eurocents and two million three hundred thirty-seven thousand five hundred ninety-seven Moldovan Lei, 00 bani), as specified in Price Schedule No. 5 (Grand Summary), or such other sums as may be determined in accordance with the terms and conditions of the Contract.

2.2 Terms of Payment (Reference GC Clause 12)

The terms and procedures of payment according to which the Employer will reimburse the Contractor are given in the Appendix (Terms and Procedures of Payment) hereto.

ticle 3. Effective 3.1 Effective Date (Reference GC Clause 1)

The Effective Date from which the Time for Completion of the Facilities shall be counted is the date when all of the following conditions have been fulfilled:

- (a) This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor;
- (b) The Contractor has submitted to the Employer the performance security and the advance payment guarantee;

Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable.

- 3.2 If the conditions listed under 3.1 are not fulfilled within two (2) months from the date of this Contract notification because of reasons not attributable to the Contractor, the Parties shall discuss and agree on an equitable adjustment to the Contract Price and the Time for Completion and/or other relevant conditions of the Contract.
- 4.1 The address of the Employer for notice purposes, pursuant to GC4.1 is: 1, Alecu Russo St., Block A1, sixteenth floor, office 163, Chisinau, MD-2068, Republic of Moldova.
- 4.2 The address of the Contractor for notice purposes, pursuant to GC4.1 is: 66, Mihai Eminescu St., Chisinau, MD-2012, Republic of Moldova.

5.1 The Appendices listed in the attached List of Appendices shall be deemed to form an integral part of this Contract Agreement.

Article 3. Effective 3 Date

Article 4. Communications

Article 5. Appendices

(

5.2 Reference in the Contract to any Appendix shall mean the Appendices attached hereto, and the Contract shall be read and construed accordingly.

IN WITNESS WHEREOF the Employer and the Contractor have caused this Agreement to be duly executed by their duly authorized representatives the day and year first above written.

ci ll for and an babalf of the Employer	3 3 TH NOW ON LAREA PROJECTED
Signed by, for and on behalf of the Employer	Aurelia SAMSON
Director, Moldova Energy Projects Implementation	tion Unit (MEPIO)
in the presence of State Secretary, Minister of Economy and Infra	Muse Vitalie IURCU
in the presence of	Silvia PASCARU
Signed by, for and on behalf of the Contract	or
TECHNO	Gheorghe BURDILĂ
Authorized Representative of JV Techno Test	SRL & Promintergaz SRL,
Director, Techno Test SRD	"PROMINTERC
in the presence of	A CONTRACTOR OF THE CONTRACTOR OF TO CONTRACT

UNITATEA CONSOLIDATĂ PENTRU IMPLEMENTAREA ȘI MONITORIZAREA PROIECTELOR ÎN DOMENIUL ENERGETICII (UCIPE)



CONSOLIDATED UNIT FOR IMPLEMENTATION AND MONITORING OF ENERGY PROJECTS (MEPIU)

str. Alecu Russo 1, bloc A1, of. 163, MD-2068, Chişinău tel. +373-22-49-67-90, fax +373-22-49-67-90 E-mail: <u>mepiu@mepiu.md</u>, Pagina web: <u>www.mepiu.md</u> 1, Alecu Russo str., block A1, of. 163, Chisinău, MD-2068 tel. +373-22-49-67-90, fax +373-22-49-67-90 E-mail: <u>mepiu@mepiu.md</u>, Web page: <u>www.mepiu.md</u>

Change Order CO-H-001

To: JV led by "Techno Test" SRL

Date: August 20, 2019

Attention: Mr. Gheorghe Burdila

Contract Name: "<u>Procurement of Plant Design, Supply and Installation of 120 Individual Heating</u> <u>Substations and associated pipes in Chisinau District Heating System"</u>

Contract Number: <u>8451 - C1.10</u>

Dear Mr. Burdila,

We approve the Change Order for the work specified in the Application for Change Proposal (No. CP-H-001 of 05/07/2019), and agree to adjust the Contract Price, Time for Completion and/or other conditions of the Contract in accordance with GC Clause 39 of the General Conditions.

- 1. Title of Change: <u>Adjustment of District Heating network routes including associated</u> infrastructure at Objects nos. 1, 6, 9, 11, 12, 14, 21, 22, 27, 28 and 30.
- 2. Change Request No./Rev.: <u>CR-H-001 of 05/07/2019.</u>
- 3. Change Order No./Rev.: <u>CO-H-001 of 20/08/2019.</u>
- 4. Originator of Change: Contractor: JV led by "Techno Test" SRL.
- 5. Authorized Price: +30,866.00 EURO.

Ref. No.: <u>CR-H-001</u> Date: <u>05/07/2019</u>

Foreign currency portion 30,866.00 EURO plus Local currency portion N/A

- 6. Adjustment of Time for Completion: None.
- 7. Other effects, if any: None.

Authorized by:

2/-

Date: 20, 08

Ovidiu Radu, MEPIU Technical Consultant/Contract Project Manager (Employer)

Authorized by:

Date: 09. 09.

Carolina Celotari, Head of Technical Management Service "Termoelectrica" S.A. (*Beneficiary*)

Accepted by:_

Date: 10.09.19

Digitally s Date: 2021 Reason: M Location:

Gheorghe Burdila, JVA led by "Techno Test" SRL (Contractor)

Conhactor

UNITATEA CONSOLIDATĂ PENTRU IMPLEMENTAREA ȘI MONITORIZAREA PROIECTELOR ÎN DOMENIUL ENERGETICII (UCIPE)



str. Alecu Russo 1, bloc A1, of. 163, MD-2068, Chișinău tel. +373-22-49-67-90, fax +373-22-49-67-90 E-mail: mepiu@mepiu.md. Pagina web: www.mepiu.md

CONSOLIDATED UNIT FOR IMPLEMENTATION AND MONITORING **OF ENERGY PROJECTS** (MEPIU)

1, Alecu Russo str., block A1, of. 163, Chisinău, MD-2068 tel. +373-22-49-67-90, fax +373-22-49-67-90 E-mail: mepiu@mepiu.md. Web page: www.mepiu.md

Change Order CO-H-002

To: JV led by "Techno Test" SRL

Date: January 27, 2020

Attention: Mr. Gheorghe Burdila

Contract Name: "Procurement of Plant Design, Supply and Installation of 120 Individual Heating Substations and associated pipes in Chisinau District Heating System"

Contract Number: <u>8451 - C1.10</u>

Dear Mr. Burdila,

We approve the Change Order for the work specified in the Application for Change Proposal (No. CP-H-002 of 12/11/2019), and agree to adjust the Contract Price, Time for Completion and/or other conditions of the Contract in accordance with GC Clause 39 of the General Conditions.

- Title of Change: Design, supply and installation works for additional Individual Heating 1. Substations and associated pipes in residential buildings (Objects 1 and 2 from the List of
- Change Request No./Rev.: CR-H-002 of 31/10/2019. 2.
- 3. Change Order No./Rev.: CO-H-002 of 27/01/2020. 4.
- Originator of Change: Employer/Beneficiary: <u>MEPIU/ "Termoelectrica" S.A.</u>
- 5. Authorized Price:

Ref. No.: <u>CP-H-002</u> Date: 12/11/2019

Foreign currency portion +505,169.00 EURO plus Local currency portion +306,124.00 MDL.

- Adjustment of Time for Completion: Increase by <u>4 months, but not later than June 25, 2020</u>. 6. 7.
- Other effects, if any: None.

Authorized by:_

Ovidiu Radu, MEPHU Technical Consultant/Contract Project Manager (Employer)

Authorized by:

Date: 05.02.2020

Carolina Cebotari, Head of Technical Management Service "Termoelectrica" S.A.

Accepted by:

Date: 07.02.2020 Gheorghe Burdila, JVA led by "Techno Test" SRL (Contractor)

Completion Certificate No. 4

Date: Loan/Credit Nº:

8451 ICB Nº: 8451-C1.10

Project: District Heating Efficiency Improvement Project To: Joint Venture Techno Test SRL and PROMINTERGAZ SRL Attn: **Mr. Gheorghe BURDILA**

Dear Mr. Burdila.

Pursuant to GC Clause 24 (Completion of the Facilities) of the General Conditions of the Contract entered into between yourselves and the Employer dated February 8, 2019, relating to the Procurement of Plant Design, Supply and Installation of 120 Individual Substations and associated pipes in Chisinau District Heating System; we hereby notify you that the following parts of the Facilities were complete on the date specified below, and that, in accordance with the terms of the Contract, the Employer hereby takes over the said parts of the Facilities, together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below 加

I. Digit Destimation Buttle Factorises or par Date: 2023.06.15 08:58:06 EEST thereof

The following consistent (general) works were carried out: Location: Moldova

- installation of DH pipes
- preparation and repairs of rooms
- installation on new DH substations
- connection of the new DH substations to the DH, CW, SH, DHW, DHWRC systems
- installation of electrical equipment, automation of the control system, valves, strainers, piping and electricity supply systems.

1

The installation/reconstruction works have been performed for the following objects:

1. **Object 3:**

IHS S5 – Grenoble 161/1, str.; IHS S6 – Grenoble 163/1, str.; IHS S7 – Grenoble 165/1, str.; IHS S8 - Grenoble 165/2, str.;

2. Object 4:

IHS S9 – Grenoble 130, str.; IHS S10 – Grenoble 130/1 s.1, str.; IHS S11 – Grenoble 130/1 s.2, str.; IHS S12 – Grenoble 130/1 s.3, str.; IHS S13 – Grenoble 130/2, str.; IHS S14 – Grenoble 130/3 s.2, str.; IHS S15 - Grenoble 130/3 s.2, str.;

3. Object 5:

IHS S16 - Costiujeni 8/3, str.; IHS S17 – Costiujeni 8/4, str.; IHS S18 - Costiujeni 8/2 s.1, str.; IHS S19 – Costiujeni 8/2 s.2, str.; IHS S20 - Costiujeni 8/2 s.3, str.;

IHS S21 - Costiujeni 8/2 s.4, str.;

Digitally signed by Burdil Date: 2021.01.19 11:04:02 Reason: MoldSign Signatu Location: Moldova

4. Object 14:

IHS S70 – Dokuceaev 3 s.1, str.; IHS S71 – Dokuceaev 3 s.2, str.; IHS S72 – Dokuceaev 3/1, str.;

DH associated pipes: <u>Pre-insulated steel pipe with signal wire</u> – DN88,9 \approx 66 m;

<u>Electro-welded steel pipe</u> – DN89 \approx 10 m.

5. Object 15:

IHS S73 – Lomonosov 49/2 s.1, str.; IHS S74 – Lomonosov 49/2 s.2, str.;

6. **Object 16:**

IHS S75 - Negruzzi 2/3, str..

Date of Completion: November 26th, 2019.

However, you are required to complete the outstanding items listed in the Attachment 1, 2 and 3 (beneficiary's objections) hereto as soon as practicable.

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

Project Manager

Ovidiu Radu

MEPIU Technical Supervisor

Iulian Tovarnițchi

Carolina Cebotari

Responsible from "Termoelectrica" SA:

Alexandru Lupan Natalia Mutaf Viorel Babii Ghenadie Oclanschi Alexandru Bucățel Elena Donceac Andrei Prepeliță Veaceslav Djelali Andrei Rusu

and a statistical states of

Attachment 1 to the Completion Certificate

of November 26, 2019 under the Contract No. 8451-C1.10

Outstanding items under the Contract to be completed by the Contractor:

S5 - the gasket from the pressure regulator is leaking; it is necessary to restore the finish of the walls;

S6 - the insulation of the pipes is damaged;

S7 - the grounding wire connected to the door of the distribution panel is not tightened;

S8 - the grounding wire at the vibration damper for the cold-water outline is not connected well; insulation of the pipe without the protection of aluminum foil; the ground wire is not securely fastened to the PE strip;

S9 - the heat exchangers are not insulated; the pressure sensor is not connected to the pipe;

S10 - the dome light is not fixed to the ceiling; the temperature sensor a/e is positioned under the roof of the staircase entrance; the grounding wire at the vibration damper for the hot-water outline is not connected;

S11 - the ground wire is not fastened to the PE strip; the grounding wire at the vibration damper is not connected;

S13 - the clips for fixing the protective tubes for the cables are weakly attached to the ceiling; the heat exchanger is not insulated;

S14, S15 - gasket from the pressure regulator is leaking; the heat exchanger is not insulated;

S16 - the heat exchanger is not isolated; PE strip is not attached to the wall; the insulation of the pipes is damaged; it is necessary to restore the plaster of the walls; servomotors for heat and hot water are missing (after flooding);

S17 - the heat exchanger is not isolated; the temperature sensor is in the sun; the grill for the water evacuation pit is missing; the grounding wire is not fixed at the vibration dampers;

S18 - the connection at the spring-flap, after the cold-water meter, is leaking;

S20 - the ground wire connected to the PE strip is weakly tightened; the temperature sensor is above the door, below the balcony;

S21 - the connection to the pressure gauge leaks; the hot water pipe is not fixed well (hanged with a wire wire);

S72 - the door opening sensor is not fixed; the insulation of the heat exchangers is missing; the coupling at the servomotor is leaking;

S73 - PE strip is not fastened to the wall;

S75 - door opening sensor is missing; the heat exchanger is not isolated; PE strip is not attached to the wall.

3

Sec. Sec.

Attachment 2 to the Completion Certificate

of November 26th, 2019 under the Contract No. 8451-C1.10

Works that were not completed by the Contractor or that for which the provisions of the project were not respected:

S5, S6, S7 - potential equalization on hot water outline was not executed;

S7 - insulation of the hot water pipes is missing; the IHS grounding strip was not painted;

S10 – space shall be cleaned; the PE strip is not painted;

S11 - the PE strip is not painted;

S13 - space shall be cleaned;

S16 - potential equalization was not executed;

S70 - space shall be cleaned; pipes are not isolated on both circuits;

S73 - the primary outline pipes are not isolated; space shall be cleaned;

S74 - the pipes on both circuits are not isolated; space shall be cleaned;

S75 - potential equalization was not executed;

S5 - the grounding wire is not fastened to the PE strip;

S6 - the dome light is not grounded; in the distribution panel (DP) the cables are connected and insulated incorrectly, not complying with the regulations applied in RM;

S7, S18 - in the distribution panel (DP) the cables are connected and insulated incorrectly, not complying with the regulations applied in RM.

S8 - pressure gauge P3 is defective; in the distribution panel (DP) the cables are connected and insulated incorrectly, not complying with the regulations applied in RM;

S11 - in the distribution panel (DP) the cables are connected and insulated incorrectly not complying with the regulations applied in RM; the generator and 220V sockets are mounted exactly below a water drain tap;

and the second design of the second of the second second second second second second second second second secon

the first of the second of the second s

小龙山 化二角 如此 自己的情况 网络小子

S12 - potential equalization wires are not multiwire but monowire;

S21 - automation panel not earthed;

Attachment 3	of November 26th, 2018.	

	S1-1 M.c.Båtrůn, 24 s.1,2 S1-2 M.c.Båtrůn, 24/3 S1-2 M.c.Båtrůn, 24/3 S1-3 str. Grenoble, 157 s.1 S1-4 str. Grenoble, 157 s.2 S1-5 str. Grenoble, 157 s.2 S1-6 str. Grenoble, 161/1 S1-7 str. Grenoble, 163/1 S1-8 str. Grenoble, 165/1 S1-9 str. Grenoble, 165/1 S1-9 str. Grenoble, 165/1 S1-9 str. Grenoble, 130/1 s.1 S1-10 str. Grenoble, 130/1 s.1 S1-12 str. Grenoble, 130/1 s.2 S1-13 str. Grenoble, 130/1 s.2 S1-14 str. Grenoble, 130/1 s.2 S1-13 str. Grenoble, 130/1 s.2 S1-13 str. Grenoble, 130/1 s.2 S1-14 str. Grenoble, 130/1 s.2 S1-15 str. Grenoble, 130/1 s.2 S1-14 str. Grenoble, 130/1 s.2 S1-15 str. Grenoble, 130/2 s.1 S1-15 str. Grenoble, 130/3 s.1 S1-15 str. Grenoble, 130/3 s.2 S1-15 str. Grenoble, 130/3 s.2	Observation 1. AVP curge in connectation 2. Reamont 17° detect; 1. Avp ende in experity intrue seati 1. Avp curge 1. Briting the connectation (64 besi), 2. Seatoral 17° de eab experity intrue seati 1. Ellenge connectation (84 besi), 2. Seatoral 17° de eab experity intrue seati 1. Ellenge connectation (84 besi), 2. Seatoral 17° de eab experity intrue seati 1. Lipesege incluent settimblicontul 81; 2. AvP curge; 1. Lipesege incluent settimblicontul 81; 2. AVP curge;
16 S 1-16 17 S 1-17 18 S 1-18 19 S 1-19 20 S 1-20	A COLORED AND A CO	1. Lipseşte izolarea schimbătorului SI; 2. Senzorul T a/e la soare; 3. Lipseşte grilajul 1. Curge îmbinarea la supapa cu sens unic A/R; 1. Senzorul T a/e deasupra ușii, sub balcon

•

S	str. Costiujeni,8/2 s.4	I. Senzorul I a/e deasupra ușu;
S	Str.Grenoble, 207	
S	Str.Grenoble, 205/2 s.1	
S	Str.Grenoble, 205/2 s.2	
S	s 1-25 str.Cuza Voda, 38/2 s.1	
S	S 1-26 str.Cuza Voda, 38/2 s.2	
S	S 1-27 str.Cuza Voda, 36	
S	S 1-28 bd. Traian, 20 s.1	
s	S 1-29 bd.Traian, 20 s.2	
S	S 1-30 bd.Traian, 16/2	
5	S 1-31 bd.Dacia, 53/2	1. Lipsește izolarea schimbătorului SI;
	S 1-32 bd.Dacia, 53/3	1. Lipsește izolarea schimbătorului SI; 2. Servomotorul ACM nu reacționează
s s	S 1-33 Dacia bd. 53 sec.1	1. Pompa SI vibrează
S	S 1-34 Dacia bd. 53 sec.2	
S	S 1-35 Dacia bd. 53 sec.3	
5	S 1-36 Dacia bd. 53 sec.4	
S	S 1-37 Dacia bd. 53 sec.5	1. Utilajul ruginit după inundație
S	S 1-38 bd.Cuza Voda,23 s.1	
S	S 1-39 bd.Cuza Voda,23 s.2	
S	bd.Cuza Voda,23 s.3 S 1-40	
S	S 1-41 Chimistilor str. 1	1. AVP zgomot; 2. Senzorul T° a/e sub acoperiș la 1 etaj (nivelul subsolului)
S	S 142 Chimistilor str. 3	1. Senzorul T" a/e sub acopertș la 1 etaj

43 S 1	S 1-43 Chimistilor str. 5	
44 S 1	S 1-44 Chimistilor str. 7 s.1	
45 S 1	S 1-45 Chimistilor str. 7 s.2	
46 S 1	S 1-46 Chimistilor str. 9	
47 S 1	S 1-47 Chimistilor str. 11 s.1	
12 S 4	S 1-48 Chimistilor str. 11 s.2	1. Senzorul T* a/e deasupra ușii
49 S 1	S 1-49 Chimistilor str. 13	
50 S 1	S 1-50 Chimistilor str. 15	
51 S I	S 1-51 Dacia bd. 49	
52 S 1	S 1-52 Dacia bd. 49/2 sec.1	
53 S 1	S 1-53 Dacia bd. 49/2 sec.2	
54 S 1	S 1-54 Dacia bd. 49/3	
Sec. 1. 28	S 1-55 Lupu, 55 sec.1	1. Senzorul T° a/e la nivel de 1m, sub balcon; 2. Lipsește izolarea la pompa SI
	S 1-56 Lupu, 55 sec.2	1. Lipsește izolarea la pompa SI
1000	Lupu, 55	1. Senzorul T° a/e la nivel de 1m
1	Lupu, 55	
1000 militari 1000 militari	Lupu, 59	1. Lipsește izolarea schimbător SI
1 1158	Lupu, 59	1. Lipseşte izolarea schimbător SI; 2. Lipseşte grilajul
1 1 1	Lupu, 59/1	1. Lipsește izolarea schimbător SI
A. C.		1. Lipsește izolarea schimbător SI
1.9	S 1-63 Cornului str. 3/1	1. Senzorul T° a/e la nivel de 1m, sub balcon; 2. Lipsește izolarea schimbător SI
1.00	s 1 64 Comului etr 3/7	1. Lipsește izolarea schimbător SI

65	S 1-65	Cornului str. 5	1. Lipsește izolarea schimbător ACM
66	S 1-66	Cornului str. 5/1	
67	S 1-67	Cornului str. 5/2 s.1	
68	S 1-68	Comului str. 5/2 s.2	1. Vuiește pompa SI
69	S 2-1	A.Russo, 57	
02	S 2-2	Docuceaev, 3 sec.1	1. Nu sunt izolate fevile pe ambele circuite
71	S 2-3	Docuceaev, 3 sec.2	1. Filtru pe conturul primar bătut (7,5/4,5 bar);
72	S 2-4	Docuceaev, 3/1	1. Lipsește izolarea schimbătoarelor; 2. Lipsește iluminarea
73	S 2-5	Lomonosov, 49/2, s.1	1. Lipsește izolarea schimbător SI; 2. Nu sunt izolate țevile conturului primar
74	S 2-6	Lomonosov, 49/2, s.2	1. Nu sunt izolate fevile pe ambele circuite; 2. Senzorul T° a/e sub acoperiș intrare scară
75	S 2-7	Negruzzi,2/3	1. Lipsește izolarea schimbător SI; 2. Senzorul T° a/e sub acoperiș intrare scară
76	S 2-8	Grigore Vieru, 29	
77	S 2-9	Saharov, 10	
78	S 2-10	Moscovei, 22	
79	S 2-11	Moscovei, 24	
80	S 2-12	Moscovei, 26	
81	S 2-13	Moscovei, 28	
82	S 2-14	ALC: NAME OF A DESCRIPTION OF A DESCRIPR	
83	S 2-15	str.Cetatea Chilia, 73+E88:J8	
84	S 2-16	bd.Cuza Vodã, 24/2	
85	S 2-17	bd.Cuza Vodă, 26/1	
86	S 2-18	bd.Dacia, 9/1 + arend.	
1.1.1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	1		

À

S 2-19	9	
S 2-20	0 Cuza Vodă, 29/2	
S 2-21	1 Dacia, 12	
S 2-22	Independentei, 42	1. Lipsește izolarea schimbătorului SI;
S 2-23	Independentei, 42/1, s.1	1. Lipsește izolarea schimbătorului SI;
S 2-24	Independendenței, 42/1, s.2	1. Lipsește izolarea schimbătorului SI;
S 2-25	5 Independendenței, 42/2, s.1	1. Lápsește izolarea schimbătoarelor;
S 2-26	6 Independendenței, 42/2, s.2	
S 2-27	Independendenței, 44	1. Lipsește izolarea schimbătorului SI;
S 2-28	8 Independentei, 46	1. Lipsește izolarea schimbătorului SI;
S 2-29	Independendentei, 4/1	
S 2-30	Independendenței, 4/2	
S 2-31	1 I. Creanga str. 47/2	1. Lipsește izolarea schimbător SI
CE-C 3		1. Lipsește izolarea schimbătorului SI; 2. Senzorul de T°a/e la soare; 3. Cablu senzor intrare nu este conectat/atîmă.
S 2-33	55 1.1 St. B. S.	1. Lipsește izolarea schimbătorului SI; 2. Senzorul de presiune nu este conectat
2-3	120 Longer	1. AVP nu se deschide complet
S 2-35	5 Alexandrescu,17/1	
S 2-1		1. Lipsește senzor ușă; 2. Lipsește izolarea pompă SI; 3. Lipsește izolare schimbător SI
S 3-2	Voluntarilor, 8/1 sec.2	1. Lipsește senzor ușă; 2. Lipsește izolarea pompă SI; 3. Pompa SI face zgomot; 4. De fixat țeava spre vas de exnasiune
S 3-3	Voluntarilor, 10 sec.1	1. Lipsește izolarea schimbătorului SI; 2. Zgomot AVP și regulatorul de T° SI
S 3-4	Voluntarilor, 10 sec.2	1. Lipsește izolarea schimbătorului SI; 2. Zgomot AVP și regulatorul de T° SI; 3. Lipsește izolare pompă SI
2 2 2	Voluntarilor, 10 sec.3	1. Lipsește izolarea schimbătorului SI;

Unimention, 12 ex.2 1. Homest enterimental St. Unimention, 12 ex.3 1. Homest enterimental St. Status, 21.4/- 1. Homest enterimental St. 1. Homest enterimental St. Status, 21.4/- 1. Homest enterimental St. 1. Homest enterimental St. Status, 21.4/- 1. Homest enterimental St. 1. Homest enterimental St. Status, 21.4/- 1. Homest enterimental St. 1. Homest enterimental St. Status, 21.4/- 1. Homest enterimental St. 1. Homest enterimental St. Status, 21.4/- 1. Homest enterimental St. 1. Homest enterimental St. Status, 21.4/- 1. Homest enterimental St. 1. Homest enterimental St. Status, 21.4/- 1. Homest enterimental St. 1. Homest ent	S 3-6	Voluntarilor, 12 sec.1	1. Lipsește izolarea schimbătorului S1;
voluminia, 12 exis Lippet indue actinitionul (3; Voluminia, 121 exi Lippet indue actinitionul (3; 1) restinition on (3; 1)	S 3-7	Voluntarilor, 12	1. Lipsește izolarea schimbătorului SI; 2. Lipsește izolarea pompă SI
Volumentine, (2) exclamenta cariandecondución exc. Acid Volumentine, (2) excla Volumentine, (2) excla Volumentine, (2) excla Shino, 21(2) 1 Unandición, (3) 1 Volumenticio, (4) 1 Unandición, (8) 1 Volumenticio, (8) 1 Volumenticio, (8) 1 Unandición, (8) 1 Volumenticio, (8) 1 Unandición, (8) 1 Volumenticio, (8) 1 <	S 3-8	Voluntarilor, 12	1. Lápsește izolarea schimbătorului SI;
Wonturkit, 121 Lignes tokina propid SI Wonturkit, 121 Lignes tokina relindational SI Synow, 214 Lignes tokina relindational SI Synow, 214 Lignes tokina relindational SI Synow, 214 Lignes tokina relindational SI Wontaffic, 16 Lignes tokina relindational SI Wontaffic, 18 Lignes tokina relindationa	0	0.000000	1. Lipsește izolarea schimbătorului SI; 2. De schimbat poziția reg. ACM
Volumentifier, 121, sec.3 1. Liperge tokinan calinationali St. Spence, 21/3 2 Spence, 21/3 1. Liperge tokinan calinationali St. Spence, 21/4 1. Liperge tokinan pengk St. 2. Liperse tokinan pengk St. 3. Liperse tokinan pengk St. 4. Liperse tokinan pengk St. 4	P 25	Voluntarilor, 12/1 sec.2	
Sylteme, 21:3 Synthem, 21:4 Solution, 21:4 Luperge tackness exhibition (11). Volution (11) Luperge tackness exhibition (11). Volution (18) Luperge tackness prompt S1: 2. Luperse servoncounce (duph inundrie). Volution (18) Luperge tackness prompt S1: 2. Luperse servoncounce (duph inundrie). Volution (18) Luperge tackness prompt S1: 2. Luperse servoncounce (duph inundrie). Volution (18) Luperge tackness prompt S1: 2. Luperse servoncounce (duph inundrie).	1 1	1000 Mar	
Andman Andman Volumention: 16. L. Liperete trainene exhinkitoroluli Si. Volumention: 18.03 L. Liperete trainene pompel Si 2. Jamese arcommente Fi defet Volumention: 18.13 L. Liperete trainene pompel Si 2. Liperese arcommente Fi defet Volumention: 18.13 L. Liperete trainene pompel Si 2. Liperese arcommente Fi defet Volumention: 18.13 L. Liperete trainene pompel Si 2. Liperese arcommente Fi defet Volumention: 18.13 L. Liperete trainene pompel Si 2. Liperese arcommente Fi defet	12	Spătaru, 21/3	
Voluntarifar, 16 1. Lipesta staintistandid Si, Voluntarifar, 18/1 1. Lipesta ponja Si; 2. Atsonen 13 defeat Voluntarifar, 18/2 1. Lipesta ponja Si; 2. Lipesta servencentel (dapi intrabiti) Voluntarifar, 18/3 1. Lipesta ponja Si	1 1		
Volumentilor, 18/1 1. Lipester isoluras pompid SI, 2. Manomento 13 detect Volumentilor, 18/2 1. Lipester isoluras pompid SI. 2. Lipester servomonauel (digit insulatio) Volumentilor, 18/3 1. Lipester isoluras pompid SI.	14	5115 B125	The second se
Volumerilor, 182 1. Lipeste izolarea pompă \$1. Lipeste izolarea pompă \$1. Volumerilor, 183 1. Lipeste izolarea pompă \$1.	1 3	1 C C C C C C C C C C C C C C C C C C C	
Volumentifier, 133 1. Lisestes taolitets pompé S1	1 7	1.000	1. Lipsește izolarea pompă SI; 2. Lipsesc servomotoarele (după inundație)
	1		
	18		

•

•

Attachment 3 of November 26th, 2019.

ACT de verificare

OBJECT: 31-65 . S1-5 . S1-6; S1-7: S1-8 . S1-9: S1-10. S1-11: S1-14 ·51-1.9.51-20 . Se

Scopul

Corespunderea instalației montate cu proiectul. Verificarea documentației de execuție. Corespunderea instalației montate cerințelor DNT.

Caracteristica succintă a instalației electrice examinată vizual:

- 1. Categoria de alimentare III
- 2. Sistem de alimentare <u>TN-C-S</u>
- 3. Tensiunea nominală do 1300
- 4. Puterea electrică <u>3600;</u>
- 5. Tipul încăperii conform cerințelor securității electrice încăpere deosebil de periculoasă

Neajunsurile depistate:

În rezultatul examinării vizuale și în rezultatul efectuării măsurărilor și încercărilor, au fost depestate următoarele neajunșuri:

1. ha panour morcarul automotelor USPSC Nu este indica decumites OTO. a pauenri dechice insesc conductoreslei PE oseste conexcune noest allarle neero Execut nic re cer NAIE 10 rezentato doumente de instala area Mizes ettere constares Rhata relu servicelor corespichale V 2.1.57. NAIF Concluzii: 1k. De "LUN "Heoutoun protetulas; locuit contor trifazat de tip Instalația electrică: auetil noate

TERMOELECTRICA . S.A. Membrii: 15.11. Lo19 SERVICIUL ELECTRIC

S.A. -TERMOELEGTRICA-I ADORATORUL ELECTROTENNIC

ACT de verificare

OBIECT: Sd. N. Sd. 3. St. 4 5d-515d-6 · Sd-7, S3-1. S3-2. S3-3 · S3 6:52-53-8

Scopul

Corespunderea instalației montate cu proiectul. Verificarea documentației de execuție. Corespunderea instalației montate cerințelor DNT.

Caracteristica succintă a instalației electrice examinată vizual:

- 1. Categoria de alimentare III
- 2. Sistem de alimentare <u>TN-C-S</u>
- 3. Tensiunea nominalăldo/380V
- 4. Puterea electrică <u>3ki</u>(;
- 5. Tipul încăperii conform cerințelor securității electrice încăpere deosebit de periculoasă

Neajunsurile depistate:

În rezultatul examinării vizuale și în rezultatul efectuării măsurărilor și încercărilor, au fost depestate următoarele neajunsuri:

panour ele marcanel automatelor CRIC ipsesc demniret de dispectro nauour ellerice. sese tickete de confueri conducto uli caucsiane erte ind ustune etule. DRHIIUI in unoarce negra. Z. Noverelu Executorea nie spiena normat tehnic. 10 Ni inta child. iu De coutor the ara a conform noiectu

Concluzii: Instalația electrică: cate duno Eulatureree

«TERMOELECTRICA» S.A. Membrii: SERVICIUL 26. 11.2019 ELECTRIC

B.A. -TEFLIOELEOTINGA 1780/PATORIUL FL: O (TROTENNIC)

Completion Certificate No. 5

Date: <u>Q2.12.2019</u> Loan/Credit N°: <u>8451-MD/P132443</u> ICB N°: <u>8451-C1.10</u>

Project:District Heating Efficiency Improvement ProjectTo:Joint Venture Techno Test SRL and PROMINTERGAZ SRLAttn:Mr. Gheorghe BURDILA

Dear Mr. Burdila,

Pursuant to GC Clause 24 (Completion of the Facilities) of the General Conditions of the Contract entered into between yourselves and the Employer dated February 8, 2019, relating to the **Procurement of Plant Design, Supply and Installation of 120 Individual Substations and associated pipes in Chisinau District Heating System**; we hereby notify you that the following parts of the Facilities were complete on the date specified below, and that, in accordance with the terms of the Contract, the Employer hereby takes over the said parts of the Facilities, together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below.

I. Description of the Facilities or part thereof:

The following consistent (general) works were carried out:

- installation of DH pipes
- preparation and repairs of rooms
- installation on new DH substations
- connection of the new DH substations to the DH, CW, SH, DHW, DHWRC systems
- installation of electrical equipment, automation of the control system, valves, strainers, piping and electricity supply systems.

The installation/reconstruction works have been performed for the following objects:

1. **Object 6:**

IHS S22 – Grenoble 207, str.;

IHS S23 – Grenoble 205/2 s.1, str.;

IHS S24 – Grenoble 205/2 s.2, str.;

IHS S25 – Cuza Voda 38/2 s.1, str.;

IHS S26 - Cuza Voda 38/2 s.2, str.;

IHS S27 – Cuza Voda 38, str.;

DH associated pipes:

<u>Pre-insulated steel pipe with signal wire</u> – DN168,3 \approx 80 m; DN76,1 \approx 50 m;

<u>Electro-welded steel pipe</u> – DN219 \approx 8 m; DN159 \approx 7 m; DN133 \approx 16 m; DN89 \approx 90,5 m; DN76 \approx 4 m; DN45 \approx 1 m; DN32 \approx 1 m; DN25 \approx 2 m.

2. Object 7:

IHS S28 – Traian 20 s.1, str.; IHS S29 – Traian 20 s.2, str.; IHS S30 – Traian 16/2, str.;

> Digitally signed by Burdila Gheorghe Date: 2021.01.19 11:07:36 EET Reason: MoldSign Signature Location: Moldova



3. Object 9:

IHS S38 – Cuza Voda 23 s.1, str.; IHS S39 – Cuza Voda 23 s.2, str.; IHS S40 – Cuza Voda 23 s.3, str.;

DH associated pipes: <u>Pre-insulated steel pipe with signal wire</u> – DN114,3 \approx 220 m.

- 4. Object 21: IHS S83 – Cetatea Chilia 73, str.;
- 5. Object 22: IHS S84 – Cuza Voda 24/2, str.; IHS S85 – Cuza Voda 26/1, str.;

DH associated pipes: <u>Pre-insulated steel pipe with signal wire</u> – DN76,1 \approx 72 m;

<u>Electro-welded steel pipe</u> – DN76 \approx 30 m.

- 6. **Object 23:** IHS S86 – Daci 9/1, bd.;
- 7. Obiectul 24: IHS S88 – Cuza Voda 29/2, str.;
- Obiectul 25: IHS S89 – Dacia 12, bd.;
- 9. Obiectul 27: IHS S97 – Independenței 4/1, str.; IHS S98 – Independenței 4/2, str.

DH associated pipes: Pre-insulated steel pipe with signal wire – DN114,3 \approx 34 m;

<u>Electro-welded steel pipe</u> – DN219 \approx 8 m; DN108 \approx 33 m; DN76 \approx 15 m; DN45 \approx 3 m; DN25 \approx 2 m;

see strate the treatment of the

Date of Completion: December 2nd, 2019.

However, you are required to complete the outstanding items listed in the Attachment 1, 2 and 3 (beneficiary's objections) hereto as soon as practicable.

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

Project Manager

Ovidiu Radu

MEPIU Technical Supervisor

Iulian Tovarniţchi

Carolina Cebotari

LIZ

1.9

Responsible from "Termoelectrica" SA:

的复数使用 法保证的 医白癜白 清晰

Alexandru Lupan Marcel Condrea Viorel Babii Ghenadie Oclanschi Alexandru Bucățel Tatiana Comaniuc Andrei Prepeliță Veaceslav Djelali

Leonid Țiganu

3

Transfer and the

Attachment 1 to the Completion Certificate

of December 2^{mol}, 2019 under the Contract No. 8451-C1.10

Outstanding items under the Contract to be completed by the Contractor:

At all IHS's to check the bolts on the flanges of the pipes with rubber vibration dampers (some are weakly tightened)

S22 - 1) PE strip is not painted and is not fixed to the wall; 2) the dome light is not fixed to the ceiling;

S23 - 1) PE strip is not fixed to the wall; 2) the actuator flap is skipping during rotation (verification is required); 3) the welding points of the IHS frame must be painted;

S24 - the welding points of the IHS frame must be painted;

S25 - 1) cleanliness inside the room must be ensured; 2) the dome lights are not grounded; 3) the differential pressure regulator must be checked (gives no impulse);

S27 - both heat exchanger insulators are missing;

S28, S29 - 1) the heat exchanger insulator is missing; 2) data transmission is not configured;

S30 - 1) the door opening sensor is not fixed; 2) data transmission is not configured; 3) the servomotor nut is rusty;

S38 - 1) the door opening sensor is not fixed; 2) the PE strip is not fixed to the wall; 3) the heat exchanger isolator is missing; 4) the temperature sensor must be moved (indicates the wrong temperature);

S39-1) the door opening sensor is not fixed; 2) the heat exchanger isolator is missing; 3) the differential pressure regulator must be checked (it does not adjust across the entire spectrum / adjust with limitations);

S40 - 1) the heat exchanger insulator is missing; 2) the polyethylene pipe for water has no support from the ceiling;

S83 - 1) cleanliness inside the room must be ensured; 2) the grill is missing at the water drainage pit; 3) the connections in the electrical distribution panel are not completed;

S84 - PE strip is not fixed to the wall, used nices?

S85 - 1) the heat exchanger insulator is missing; 2) the grill is missing at the water drainage pit; 3) the PE rail is not painted;

S86 - 1) the door opening sensor is not fixed; 2) the heat exchanger isolator is missing; 3) the PE rail is not fixed to the wall;

S88 - both heat exchangers are not insulated;

S97 - 1) the door opening sensor is not fixed; 2) the heat exchanger isolator is missing;

S98 – the heat exchanger isolator is missing;

Attachment 2 to the Completion Certificate

of December 2nd, 2019 under the Contract No. 8451-C1.10

Works that were not completed by the Contractor or that for which the provisions of the project were not respected:

S22, S23, S24, S25, S26, S27, S28, S29, S30, S38, S39, S40, S83, S84, S85, S89 - the potential equalization is not executed at the pipes separated by rubber vibration dampers;

S28, S29, S38, S39, S40, S84, S85, S86, S89 - the automation panel is not grounded;

S83, S86, S88, S89 - pipes on both circuits are not isolated;

S23 - 1) the electrical distribution panel (DP) is not grounded; 2) The IHS is not grounded;

S27 - 1) in the DP the cables are connected with insulating tape; 2) all the cables are of one color (at the top of the circuit breakers);

S40 - the DP cables are all of one color (at the top of the circuit breakers);

S86, S88 - In the DP the Null is connected in series instead of in parallel (all circuit breakers depend on a single connection which is not secure and not according to the regulations).

化化学学 化合成化合成化合物 化合成化物化合物化合物

 $\|f_{i,j}(x)-f_{i,j}(x)-g^{i,j}(x)-f_{i,j}($

ji vindensi sana karendari baken di siya sakara shtera si na sina sina sina sina sina sa ta'na sina. Karakar tarakar di

a service a service service of the service service of the service of the service of the service of the service The service of the serv Service of the service

[5] Addited and the state of the second sta

יצריין הארי האמצור – לא לאור היאשוני ביני ליכוא של אורי שלי היו העבר בכייוני 10 היו שאאריאי הרביאלי שלי. איז אינה היו היא אלי היא היא הארי הלא לאור הארי היה לה היה האריל היה האריל הבריא הארילים.

Attachment 3 of December 2nd, 2019.

ACT de verificare

OBIECT: St-dd 'St-d3' St-24' St-25' St-26'S

Scopul

Corespunderea instalației montate cu proiectul. Verificarea documentației de execuție. Corespunderea instalației montate cerințelor DNT.

Caracteristica succintă a instalației electrice examinată vizual:

- 1. Categoria de alimentare III
- 2. Sistem de alimentare <u>TN-C-S</u>
- 3. Tensiunea nominală 🚣 🖉
- 4. Puterea electrică 3 k 1/;
- 5. Tipul încăperii conform cerințelor securității electrice încăpere deosebit de periculoasă

Neajunsurile depistate:

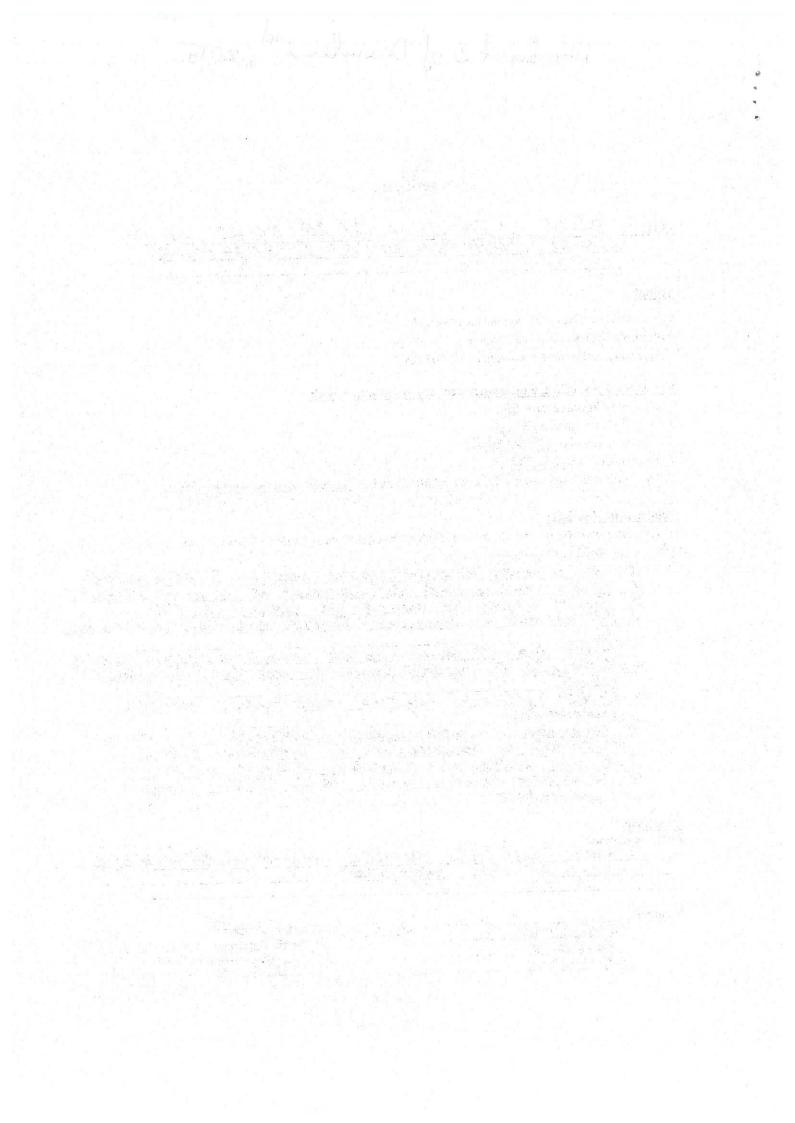
În rezultatul examinării vizuale și în rezultatul efectuării măsurărilor și încercărilor, au fost depestate urmățgarele neajunsuri:

Daupeor MORCA ul alctonustelm enury elles Fichete norco corner! unea conductorales; dicat teusiuneo de prisclos electrice here impand utores over to 24 entone realizato onetour arle ear PD nu 100or normativ - tehnic u 1.31. De typaza de conform projectale

Concluzii:

Instalația electrică: Lula Sura rec

Membrii: 26.11.2019 0 FTERMOELECTRICA» S.A lar 10 SERVICIUL S.A. WTERMORE EXTRECT ELECTRIC (ABOBATORUL ELEDTROTEMMIC



Completion Certificate No. 6

Date: <u>06-12.</u> Loan/Credit N°: <u>8451-MD /</u> ICB N°: <u>8451-C1.10</u>

11 Table Better, et an son die

Project:District Heating Efficiency Improvement ProjectTo:Joint Venture Techno Test SRL and PROMINTERGAZ SRLAttn:Mr. Gheorghe BURDILA

Dear Mr. Burdila,

Pursuant to GC Clause 24 (Completion of the Facilities) of the General Conditions of the Contract entered into between yourselves and the Employer dated February 8, 2019, relating to the **Procurement of Plant Design, Supply and Installation of 120 Individual Substations and associated pipes in Chisinau District Heating System**; we hereby notify you that the following parts of the Facilities were complete on the date specified below, and that, in accordance with the terms of the Contract, the Employer hereby takes over the said parts of the Facilities, together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below.

I. Description of the Facilities or part thereof:

The following consistent (general) works were carried out:

- installation of DH pipes
- preparation and repairs of rooms
- installation on new DH substations
- connection of the new DH substations to the DH, CW, SH, DHW, DHWRC systems
- installation of electrical equipment, automation of the control system, valves, strainers, piping and electricity supply systems.

The installation/reconstruction works have been performed for the following objects:

1. **Object 1:**

IHS S1 – Mircea cel Bătrân 24 s.1,2 bd.; IHS S2 – Mircea cel Bătrân 24/3 bd.;

DH associated pipes:

<u>Pre-insulated steel pipe with signal wire</u> – DN114,3 \approx 45 m;

<u>Electro-welded steel pipe</u> – DN108 \approx 30 m; DN76 \approx 1 m; DN45 \approx 3 m.

1

2. Object 13:

IHS S69 – A. Russo 57 str.;

- 3. Object 17: IHS S76 – Grigore Vieru 29 str.;
- 4. **Object 18:** IHS S77 – Saharov 10 str.;

Digitally signed Date: 2021.01.1 Reason: MoldS Location: Mold 5. Object 19:

IHS S78 – Moscova 22 bd.; IHS S79 – Moscova 24 bd.; IHS S80 – Moscova 26 bd.; IHS S81 – Moscova 28 bd.;

DH associated pipes: Electro-welded steel pipe – DN133 \approx 4 m.

and the second sufficients

which a the solution of the price of the

6. **Object 31:**

IHS S115 – Spătaru 21/3 str.; IHS S116 – Spătaru 21/4 str.

Date of Completion: December 2nd, 2019.

However, you are required to complete the outstanding items listed in the Attachment 1, 2 and 3 (beneficiary's objections) hereto as soon as practicable.

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

Project Manager

Ovidiu Radu

MEPIU Technical Supervisor

Iulian Tovarnițchi

Carolina Cebotari

Responsible from "Termoelectrica" SA:

Alexandru Lupan Larisa Dimitriu Viorel Babii Ghenadie Oclanschi Alexandru Bucățel Tatiana Comaniuc Andrei Prepeliță Veaceslav Djelali Sergiu Berezan Peteu Buzila Valepiu Vozian



Attachment 1 to the Completion Certificate

of December 6th, 2019 under the Contract No. 8451-C1.10

Outstanding items under the Contract to be completed by the Contractor:

S1 - 1) the heat exchanger insulator is missing; 2) the door opening sensor is missing; 3) gasket of the flow regulator is missing;

S2 - door opening sensor is not fixed;

S69 – insulation of both heat exchangers is missing;

S76 - 1) the heat exchanger insulator is missing; 2) pressure gauge 1 is defective; 3) the door opening sensor is missing;

S77 - 1) PE strip is not attached to the wall; 2) the welding of the IHS frame is not painted; 3) The grounding wire of the automation panel is not fastened with a nut.

S78 - 1) it is necessary to restore the plastering of the walls; 2) the door opening sensor is missing; 3) the data transmission antenna is not fixed to the pipe (suspended on its own cable); 4) there is no isolation of the heat exchanger;

S79, S80 - 1) the door opening sensor is missing; 2) there is no isolation of the heat exchanger;

S81 - 1) the door opening sensor is missing; 2) there is no isolation of the heat exchanger; 3) a dome light is not closed with screws (partially opened);

S115 - the door opening sensor is fixed poorly;

S116 - the servomotor is not mounted.

4

Attachment 2 to the Completion Certificate

of December 6th, 2019 under the Contract No. 8451-C1.10

Works that were not completed by the Contractor or that for which the provisions of the project were not respected:

S2, S69, S76, S77, S79 - the potential equalization is not executed at the pipes separated by rubber vibration dampers;

4

S2, S69 - the pipes on both circuits are not isolated;

S2, S76 - the automation panel is not grounded;

S76 - the grounding wire of the electrical installation is not connected to the PE strip;

S115 - the electrical distribution panel (DP) is not grounded.

Attachment 3 of December 6th, 2013.

ACT de verificare

51-1; 51-2 **OBIECT:** 53-12; 53-13 52-1

Scopul

Corespunderea instalației montate cu proiectul. Verificarea documentației de execuție. Corespunderea instalației montate cerințelor DNT.

Caracteristica succintă a instalației electrice examinată vizual:

- 1. Categoria de alimentare III
- 2. Sistem de alimentare <u>TN-C-S</u>
- 3. Tensiunea nominală 220 ;
- 4. Puterea electrică 3 kW;
- 5. Tipul încăperii conform cerințelor securității electrice încăpere deosebit de periculoasă

<u>Neajunsurile depistate:</u>

În rezultatul examinării vizuale și în rezultatul efectuării măsurărilor și încercărilor, au fost depestate următoarele neajunsuri:

Lipsesc tichete de morcaj pe cabluri in este indicat Lensinnea de lucau prizelos electrice lagistzela Empamenta rea 10 este vopsita 14 nu Cu los neo new 20 4. realizato eleganca patentialelon Cou noiectulu Executod conexiune loz CaBP かわ

conespunde Cu documentatia normativ - tohai sunt indeplenite cerintele P. 2.1. 31. 7 La objectul 52-1 nu sunt indente

Conditiile tehnice

Concluzii:

Instalația electrică: laturanes 2n Junctia diena denustate

Membrii:

clanss

Bot nar

Bobi

TRICA» S.A. 06.12.2019 VICIUL CTRIC 名品 いきに やい! Dete nC. LATORIA 1075hHtc

ochment 3

ACT

de verificare

OBIECT: S& 8; SL-9; SL-10 - SL-11 - SL- 12; SL- 13 - SL-16 · Sh - 29 5 2 - 30

Scopul

Corespunderea instalației montate cu proiectul. Verificarea documentației de execuție. Corespunderea instalației montate cerințelor DNT.

Caracteristica succintă a instalației electrice examinată vizual:

- 1. Categoria de alimentare <u>III</u>
- 2. Sistem de alimentare <u>TN-C-S</u>
- 3. Tensiunea nominală do
- 4. Puterea electrică <u>344</u>;
- 5. Tipul încăperii conform cerințelor securității electrice încăpere deosebit de periculoasă

Neajunsurile depistate:

În rezultatul examinării vizuale și în rezultatul efectuării măsurărilor și încercărilor, au fost depestate următoarele neajunsuri:

1. La panagor) électrice l'eserce puercapiel auctoniatelor k. L'épterc de pupujelle de déspection la panouri électrice. 3. L'épterc de moreaj pe callaire in PD 4. La corpurite de l'ancient Copseste consonnée conductoreller. PE. 5. Nu esche indicent tenormées de luceres missolo électrice.

indicat lephice. en culcarea nea pra rste KORGIZAI utiabelor 101 conform projecteles Sxeultoreo couly unelon In PD du codespunde cu documente uamaris- Echnic. Ne sunt mdeslen cuillele NAIF p. d.1.3

Concluzii: Instalația electrică:

dupo 2ulatora rea usurior

Membrii:

26.11.2019 JERMOELECTRICA . S.A SERVICIUL B.A. ATENIOSIECT ELECTRIC LASCHATORIS. ELECTROTENNIC

Completion Certificate

Date: Loan/Credit Nº: 8451-MD / P ICB Nº: 8451

District Heating Efficiency Improvement Project Project: Joint Venture Techno Test SRL and PROMINTERGAZ SRL To: Mr. Gheorghe BURDILA Attn:

Dear Mr. Burdila,

Pursuant to GC Clause 24 (Completion of the Facilities) of the General Conditions of the Contract entered into between yourselves and the Employer dated February 8, 2019, relating to the Procurement of Plant Design, Supply and Installation of 120 Individual Substations and associated pipes in Chisinau District Heating System; we hereby notify you that the following parts of the Facilities were complete on the date specified below, and that, in accordance with the terms of the Contract, the Employer hereby takes over the said parts of the Facilities, together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below.

I. Description of the Facilities or part thereof:

The following consistent (general) works were carried out:

- 1.962 installation of DH pipes
 - preparation and repairs of rooms
 - installation on new DH substations
 - connection of the new DH substations to the DH, CW, SH, DHW, DHWRC systems
 - installation of electrical equipment, automation of the control system, valves, strainers, piping and electricity supply systems.

The installation/reconstruction works have been performed for the following objects:

1. Object 8:

IHS S31 – Bd. Dacia 53/2; IHS S32 – Bd. Dacia 53/3; IHS S33 – Bd. Dacia 53 sec. 1; IHS S34 - Bd. Dacia 53 sec. 2; IHS S35 – Bd. Dacia 53 sec. 3; IHS S36 – Bd. Dacia 53 sec. 4; IHS S37 - Bd. Dacia 53 sec. 5;

2. Object 11:

IHS S51 - Bd. Dacia 49; IHS S52 – Bd. Dacia 49/2, s.1;

IHS S53 - Bd. Dacia 49/2, s.2;

IHS S54 – Bd. Dacia 49/3;

DH associated pipes:

Electro-welded steel pipe – DN219 approx. 70 m; DN159 approx 12 m; DN108 approx. 12 m; DN76 approx. 5 m.

> Digitally signed by Burdila Gheorghe Date: 2021.01.19 11:09:08 EET Reason: MoldSign Signature Location: Moldova

3. Object 26:

IHS S90 - str. Independenței 42;

IHS S91 - str. Independenței 42/1, s.1;

IHS S92 – str. Independentei 42/1, s.2;

IHS S93 - str. Independentei 42/2, s.1;

IHS S94 – str. Independentei 42/2, s.2;

IHS S95 – str. Independenței 44;

IHS S96 - str. Independenței 46.

DH associated pipes:

<u>Pre-insulated steel pipe with signal wire</u> – DN114,3 approx. 52 m; DN88,9 approx. 56 m;

·新闻》: "我们的问题。"

<u>Electro-welded steel pipe</u> – DN108 approx. 46 m; DN89 approx. 87 m; DN76 approx. 1 m; DN57 approx. 10 m; DN45 approx. 2 m.

II. Date of Completion: November 13, 2019.

However, you are required to complete the outstanding items listed in the Attachment 1 and 2 hereto as soon as practicable.

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

Project Manager

Ovidiu Radu

MEPIU Technical Supervisor

Iulian Tovarnitchi

Responsible from Termoelectrica SA:

Carolina Cebotari Alexandru Lupan

Marcel Condrea

Ghenadie Oclanschi

Bucățel Alexandru

Tatiana Comaniuc

Veaceslav Djelali

Andrei Prepeliță

Leonid Ţîganu

Attachment 1 to the Completion Certificate

of November 13, 2019 under the Contract No. 8451-C1.10

Outstanding items under the Contract to be completed by the Contractor:

S31, S32	The isolation of both plate heat exchangers is missing
S37	Pavement to be finished (a tile is missing)
S53	The isolation of one plate heat exchanger is missing
S51	The modem for Data transmission into SCADA is not yet configured
S54	1) The isolation of one plate heat exchanger is missing 2) Door opening sensor is loose
S90, S91, S92, S93	The isolation of one plate heat exchanger is missing
S94	1) The isolation of one plate heat exchanger is missing; 2) Dome light fixture is loose (to be fitted to the ceiling)
S95	1) The isolation of one plate heat exchanger is missing; 2) Pavement to be finished (a tile is missing)
S96	 The isolation of one plate heat exchanger is missing; 2) Dome light fixture is loose (to be fitted to the ceiling); 3) Walls plastering (one side deteriorated because of panel removal); 4) The electric panel is not grounded.
	All rooms shall be cleaned from waste and garbage.
	이 그 그 것 같아. 가는 것 같아. 그는 것 가슴이 가슴 것이 것 같아. 가지 않는 것 같아.

Attachment 2 of November 13, 2018.

ACT

de verificare

OBIECT: <u>S31</u>, <u>S32</u>, <u>S33</u>, <u>S34</u>, <u>S35</u>, <u>S36</u>, <u>S37</u>, <u>S38</u>, <u>S39</u>, <u>S40</u>, <u>S51</u>, <u>S52</u>, <u>S53</u>, <u>S54</u>, <u>S86</u>, <u>S83</u>, <u>S41</u>, <u>S48</u>, <u>S44</u>, <u>S45</u>, <u>S46</u>, <u>S47</u>, <u>S48</u>, <u>S49</u>, <u>S50</u>. Corespunderea instalației montate cu proiectul.

Corespunderea instalației montate cu proiectul. Verificarea documentației de execuție. Corespunderea instalației montate cerințelor DNT.

Caracteristica succintă a instalației electrice examinată vizual:

- 1. Categoria de alimentare III
- 2. Sistem de alimentare <u>TN-C-S</u>
- 3. Tensiunea nominală 2201/3801/
- 4. Puterea electrică <u>3 k W</u>;
- 5. Tipul încăperii conform cerințelor securității electrice încăpere deosebit de periculoasă

Neajunsurile depistate:

În rezultatul examinării vizuale și în rezultatul efectuării măsurărilor și încercărilor, au fost depestate următoarele neajunsuri:

Ea sugart corespica De Inlacee la eq. Concluzii: Instalația electrică:

inlot

15.11.19 Membrii: 5 *TERMOELECTRICA .S.A S.A. «TERMOELECTRICA SERVICIUL LABORATORUL ELECTRIC ELECTROTE

Investitor (beneficiar): SA "TERMOELECTRICA"

PROCES VERBAL

DE RECEPȚIE LA TERMINAREA LUCRĂRILOR

Nr. <u>A</u> din 13 noiembrie 2019

privind lucrările pentru "Proiectarea, Furnizarea și Instalarea a 120 Puncte Termice Individuale (PTI) și a rețelelor termice aferente", executate în cadrul Contractului nr. 8451 – C 1.10 din 08.02.2019 încheiat între UCIPE (beneficiar SA "Termoelectrica") și JV "TECHNO TEST SRL" & "Promintergaz SRL" în cadrul Proiectului de Îmbunătățire a Eficienței Sistemului de Alimentare Centralizată cu Energie Termică (SACET) în mun. Chișinău, în conformitate cu cerințele Acordului de Finanțare nr. 8541-MD din 15.04.2015, semnat între Banca Internațională de Reconstrucție și Dezvoltare și Guvernul Republicii Moldova.

1. Comisia de recepție și-a desfășurat activitatea în intervalul cu începere de la ora 09:00, fiind formată din:

Nr.	Nume	Prenume	Calitatea	Organizația
1.	Dl. Radu	Ovidiu	Președintele Comisiei/ Consultant tehnic	UCIPE
2.	Dna Cebotari	Carolina	Vicepreședintele Comisiei/ Șef Serviciul Management Tehnic	SA "Termoelectrica"
3.	Dl. Tovarnițchi	Iulian	Secretarul Comisiei	UCIPE
4.	Dl. Burlacu	Anatol	Consultant Mediu	UCIPE
5.	Dl. Condrea	Marcel	Serviciul Planificare și Organizare Mentenanță	SA "Termoelectrica"
6.	Dl. Oclanschi	Ghenadie	Serviciul Electric	SA "Termoelectrica"
7.	Dl. Bucățel	Alexandru	Serviciul Automatizări și Instalații Termotehnice	SA "Termoelectrica"
8.	Dna Comaniuc	Tatiana	Serviciul Management Tehnic	SA "Termoelectrica"
9.	Dl. Djelali	Veaceslav	Inginer Sector Sisteme SCADA	SA "Termoelectrica"
10.	Dl. Prepeliță	Andrei	Inginer Sector Sisteme SCADA	SA "Termoelectrica"
11.	Dl. Ţîganu	Leonid	Şef Rețele Termice Botanica	SA "Termoelectrica"

2. Au mai participat la recepție ca invitați:

Nr.	Nume	Prenume	Calitatea	Organizația
1	Dl. Burdilă	Gheorghe	Administrator	"Techno Test" SRL
2	Dl. Ceban	Alexandr	Manager de Proiect	"Techno Test" SRL
3	Dl. Burlacu	Anatol	Consultant Mediu	UCIPE
4				

1

3. Constatările comisiei de recepție:

a) din documentația scrisă și desenată, care trebuia prezentată, au lipsit sau sânt incomplete piesele cuprinse în lista - anexă nr. 1;

b) lucrările cuprinse în lista - anexă nr. 2 nu au fost executate;

c) în lucrările, cuprinse în lista - anexă nr. 3, nu s-au respectat prevederile proiectului.

4. Comisia de recepție, în urma constatărilor făcute, propune:

<u>Recepționarea lucrărilor de construcții – montaj cu volumele fizice îndeplinite deplin conform</u> <u>documentației de proiect și caietului de sarcini.</u>

5. Comisia de recepție motivează propunerea făcută prin:

Finalizarea lucrărilor de construcții – montaj de către Antreprenor.

6. Comisia de recepție recomandă următoarele:

Recepție la terminarea lucrărilor și transmiterea obiectivelor spre lucrările de testare și reglare.

7. Descrierea obiectului recomandat spre recepție:

Objectul 8:

PTI S31 – Bd. Dacia 53/2; PTI S32 – Bd. Dacia 53/3; PTI S33 – Bd. Dacia 53 sec. 1; PTI S34 – Bd. Dacia 53 sec. 2; PTI S35 – Bd. Dacia 53 sec. 3; PTI S36 – Bd. Dacia 53 sec. 4; PTI S37 – Bd. Dacia 53 sec. 5;

Obiectul 11:

PTI S51 – Bd. Dacia 49; PTI S52 – Bd. Dacia 49/2, s.1; PTI S53 – Bd. Dacia 49/2, s.2; PTI S54 – Bd. Dacia 49/3;

Obiectul 26:

PTI S90 – str. Independenței 42; PTI S91 – str. Independenței 42/1, s.1; PTI S92 – str. Independenței 42/1, s.2; PTI S93 – str. Independenței 42/2, s.1; PTI S94 – str. Independenței 42/2, s.2; PTI S95 – str. Independenței 44; PTI S96 – str. Independenței 46. 8. Prezentul proces-verbal, conține 3 file și 3 anexe numerotate, cu un total de 6 file, a fost încheiat astăzi 13.11.2019 în cadrul contractului C 1.10, în 6 exemplare.

Nr.	Nume	Prenume	Organizația	Semnătura
1.	Dl. Radu	Ovidiu	UCIPE	Royal
2.	Dna Cebotari	Carolina	SA "Termoelectrica"	and the former
3.	Dl. Tovarniţchi	Iulian	UCIPE	O 65-2015 1 0550 1 0550 1 12 1 1
4.	Dl. Burlacu	Anatol	UCIPE	RI SPEC
5.	Dl. Condrea	Marcel	SA "Termoelectrica"	
6.	Dl. Oclanschi	Ghenadie	SA "Termoelectrica"	00
7.	Dl. Bucățel	Alexandru	SA "Termoelectrica"	Agnen
8.	Dna Comaniuc	Tatiana	SA "Termoelectrica"	Conf
9.	Dl. Djelali	Veaceslav	SA "Termoelectrica"	Da
10.	Dl. Prepeliță	Andrei	SA "Termoelectrica"	August.
11.	Dl. Ţîganu	Leonid	SA "Termoelectrica"	2 m

9. Lucrarea este:

TRANSMISĂ:

EXECUTANTUL:

,, L.Ş._ (semnătura)

PRIMITĂ:

INVESTITORUL L.Ş._

(semnătura)

Anexa 1: Lista pieselor care sânt lipsă sau sânt incomplete

<u>S37 – finisarea pavajului (lipsește o placă)</u>

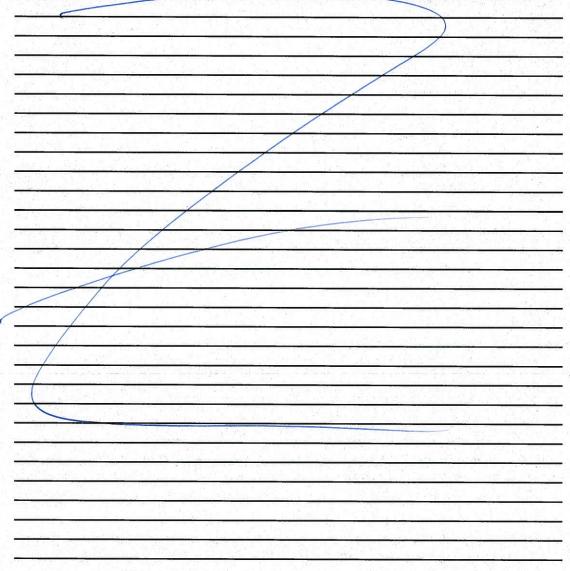
<u>S31, S32 – lipsește izolația ambelor schimbătoare de căldură</u>

S53, S90, S91, S92 – lipsește izolația schimbătorului de căldură

<u>S54 – lipsește izolația schimbătorului de căldură; fixarea senzorului de deschidere a ușii e slabă</u> <u>S93 – lipsește izolația schimbătorului de căldură; electricitatea e conectată pe schema</u> temporară și încă nu e sigilat de Gas Natural Fenosa

<u>S94 – lipsește izolația schimbătorului de căldură; electricitatea e conectată pe schema</u> temporară și încă nu e sigilat de Gas Natural Fenosa; plafonul pentru iluminat nu este fixat bine <u>S95 – lipsește izolația schimbătorului de căldură; finisarea pavajului (placă defectă)</u>

<u>S96 – lipsește izolația schimbătorului de căldură; plafonul pentru iluminat nu este fixat bine;</u> <u>finisajul pereților încăperii (un perete este cu finisajul deteriorat din motivul eliminării unui</u> panou vechi)

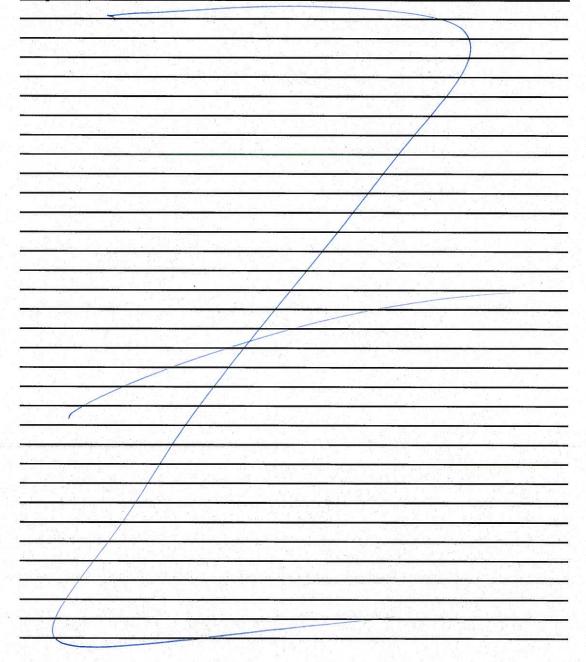


Anexa 2: Lista lucrărilor care nu au fost executate

<u>S51 – moedmul de transmitere a datelor în sistemul SCADA încă nu este configurat</u> <u>S96 – panoul electric de distribuție nu are legătura la pământ</u>

Trebuie asigurată curățenia în interiorul încăperilor precum la punctele S31, S35 și toate celealtele.

În toate încăperile în care sunt prezente circuite electrice vechi, trebuie asigurată izolarea cablurilor dezgolite care prezintă pericol de electrocutare. (ex. S31 – Dacia 53/2; S95 – Independenței 44, etc.)



5

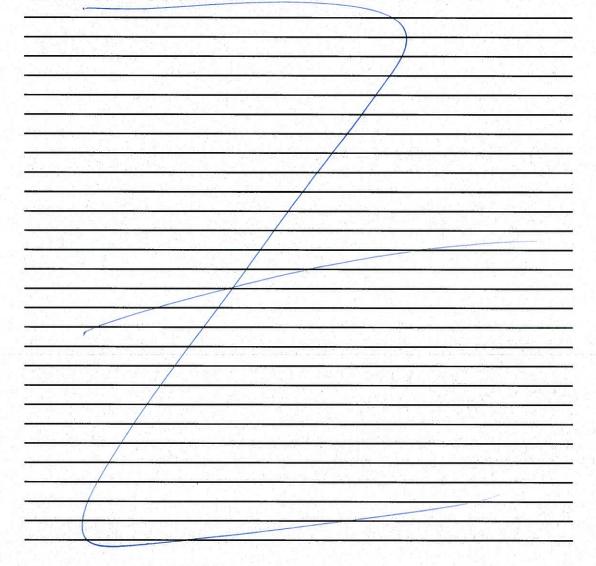
Anexa 3: Lista lucrărilor la care nu s-au respectat prevederile proiectului

<u>S92 – conexiuni improvizate între cablurile din interiorul panoului electric de distribuție.</u> Urmează a fi verificate toate conexiunile și remediate problemele întrucât au fost depistate neconformități la șina neutrului din interiorul panoului; Plafoanele de iluminat nu au legătură cu impământarea. Plintusul de pe perimetrul încăperii trebuie restabilit (cad bucăți de materiale de pe pereți, partea inferioară)

<u>896 – conexiuni improvizare între cablurile din interiorul panoului electric de distribuție.</u>

Măsurările electrice de laborator nu au indicat în procesele verbale toate punctele de conexiuni unde se necesită de a verifica continuitatea în conformitate cu proiectul.

Finisajul pereților trebuie să fie executat calitativ în toate încăperile unde sunt montate PTI-uri în conformitate cu prezentul contract.



6

Completion Certificate No. 2

Date:

Loan/Credit Nº: 8451-MD / P132443 ICB Nº: 8451-C1.10

Project: District Heating Efficiency Improvement Project To: Joint Venture Techno Test SRL and PROMINTERGAZ SRL Attn: Mr. Gheorghe BURDILA

Dear Mr. Burdila,

Pursuant to GC Clause 24 (Completion of the Facilities) of the General Conditions of the Contract entered into between yourselves and the Employer dated February 8, 2019, relating to the Procurement of Plant Design, Supply and Installation of 120 Individual Substations and associated pipes in Chisinau District Heating System; we hereby notify you that the following parts of the Facilities were complete on the date specified below, and that, in accordance with the terms of the Contract, the Employer hereby takes over the said parts of the Facilities, together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below.

I. Description of the Facilities or part thereof:

The following consistent (general) works were carried out:

- Č, installation of DH pipes
- preparation and repairs of rooms
- installation on new DH substations
- 4 connection of the new DH substations to the DH, CW, SH, DHW, DHWRC systems
- installation of electrical equipment, automation of the control system, valves, strainers, piping and electricity supply systems.

We set the set of the second second second

The installation/reconstruction works have been performed for the following objects:

1. Object 10:

IHS S41 – Chimistilor 1 str.;

IHS S42 – Chimistilor 3 str.;

IHS S43 – Chimiştilor 5 str.;

IHS S44 – Chimistilor 7 s.1 str.;

IHS S45 – Chimistilor 7 s.2 str.;

IHS S46 – Chimiştilor 9 str.;

IHS S47 – Chimiştilor 11 s.1 str.;

IHS S48 – Chimistilor 11 s.2 str.;

IHS S49 – Chimiştilor 13 str.;

IHS S50 – Chimistilor 15 str.;

DH associated pipes:

Pre-insulated steel pipe with signal wire – DN139,7 approx. 50 m; DN76,1 approx. 2 m.

Digitally signed by Burd Date: 2021.01.19 11:08: Reason: MoldSign Signa Location: Moldova

2. Object 12:

Cart WardWood and Adapted t IHS S55 – Lupu 55 sec. 1, str.; IHS S56 – Lupu 55 sec. 2, str.; IHS S57 – Lupu 55 sec. 3, str.; IHS S58 – Lupu 55 sec. 4, str.; IHS S59 – Lupu 59 sec. 1, str.; IHS S60 – Lupu 59 sec. 2, str.; IHS S61 – Lupu 59/1, str.; IHS S62 – Lupu 59/2, str.; IHS S63 – Cornului 3/1, str.; IHS S64 – Cornului 3/2, str.; IHS S65 – Cornului 5, str.; IHS S66 – Cornului 5/1, str.; IHS S67 – Cornului 5/2, s.1 str.; IHS S68 – Cornului 5/2, s.2 str.;

DH associated pipes:

Pre-insulated steel pipe with signal wire - DN168,3 approx. 120 m; DN114,3 approx. 16 m; DN76,1 approx. 46 m; DN60,3 approx 16 m.

Electro-welded steel pipe - DN219 approx. 4 m; DN159 approx. 10 m; DN133 approx. 10 m; DN108 approx. 14 m; DN76 approx. 30 m; DN57 approx. 25 m; DN25 approx. 3 m.

and the second second second

Contraction and the second second

3. Object 28:

IHS S99 - Ion Creangă 47/2, str.;

DH associated pipes: Pre-insulated steel pipe with signal wire - DN114,3 approx. 80 m.

Electro-welded steel pipe - DN108 approx. 6 m; DN45 approx. 1 m.

Subjects and the Constant of the State of the

4. Object 29:

IHS S100 – Alexandrescu 13, str.; IHS S101 – Alexandrescu 15, str.; IHS S102 – Alexandrescu 17, str.; IHS S103 – Alexandrescu 17/1, str. Π. Date of Completion: November 19, 2019.

> However, you are required to complete the outstanding items listed in the Attachment 1, 2 and 3 hereto as soon as practicable.

> This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

Project Manager Ovidiu Radu

MEPIU Technical Supervisor

STATISTICS STATISTICS

Iulian Tovarnitchi

Responsible from "Termoelectrica" SA: Carolina Cebotari

Alexandru Lupan

Tatiana Lisnic

Viorel Babii

Bucățel Alexandru

Natalia Slabenco

Andrei Prepeliță

mental and the second device the second s

a da a ser a segura da a ser a través de la construcción de la construcción de la construcción de la construcci Por la construcción de la construcció

Contraction and the second second

Vladimir Buruian 2011年1月1日8月11日

and the president have a solar and have the price that see a le

VARA

Attachment 1 to the Completion Certificate

of November 19, 2019 under the Contract No. 8451-C1.10

Outstanding items under the Contract to be completed by the Contractor:

S44, S46 - The ground wire at the vibration damper is not connected to the flange;

S45 - The grounding wires at the vibration dampers are not connected to the flanges;

S47 - The ground wire at the vibration damper is weakly fixed to the bolt. The plastic clips for securing the cable protection tubes are not fixed to the ceiling and do not fulfill their purpose. The door opening sensor is missing;

S49 - Door opening sensor is missing;

S50 - the grill is missing above the water drainage pit;

S55 - 1) the weld on the IHS frame must be painted 2) the grounding strip is not fixed to the wall;

S56 - in the Electric Distribution Panel (DP) a circuit breaker is mounted reverse (upside down);

S57 - hot water pressure gauge leaks;

S58 - 1) the door opening sensor is not fixed; 2) DP cables are not fastened to the circuit breakers (weak connections); 3) the grounding wire of the DP is not fixed by the PE strip;

S59, S60, S63, S65, S99, S100 - heat exchanger insulation is missing;

S61 - 1) defective pressure gauge (does not hold pressure); 2) there is no isolation on the heat exchanger;3) the connection to the water meter is leaking and above it on the same pipe at the joint;

S62 - 1) cleanliness must be ensured in the room and outside of it (repair materials thrown out); 2) there is no isolation on the heat exchanger;

S64 - 1) there is no isolation on the heat exchanger; 2) the door opening sensor is not fixed;

S66 - the grill is missing above the water drainage pit;

S67 - the pump produces a strange noise;

S100 - door opening sensor is not fixed;

S101 - 1) there is no isolation of the heat exchanger; 2) the pressure sensor is not connected to the pipe;3) the door opening sensor is not fixed properly;

S102 - 1) there is no isolation of the heat exchanger; 2) the door opening sensor is not fixed; 3) the paint on the walls must be restored; 4) AVP does not open completely;

S103 - 1) the external temperature sensor must be moved from the metal plate (the heat from the sun will mess the parameters); 2) there is no isolation of the heat exchanger; 3) the cable must be attached to the ceiling; 4) the earthing wire is not properly attached to the PE strip.

Attachment 2 to the Completion Certificate

of November 19, 2019 under the Contract No. 8451-C1.10

Works that were not completed by the Contractor or that for which the provisions of the project were not respected:

S44, S46 – Cleanliness inside the rooms must be ensured.

S42, S48 – door opening sensor present, but not fixed.

S49 – old materials were not evacuated from the room. The pipe is fixed to the wall only with a wire;

S62, S102 – balancing of potentials (grounding) between separate rubber vibration pipes has not been done;

S41, S42 - both dome lights are not grounded (the ground wire is cut inside the dome case);

S43, S49 - the grounding wire of the installation is not connected to the grounding strip (whereas the Minutes of JSC "Energoservice" electrotechnical laboratory state that there is electrical continuity between the grounding strip and the installation);

S44, S45, S48 - there is a difference of 200A between the L-N and L-PE voltages; wire connections must be checked;

S55 - Electrical Distribution Panel (DP) is not grounded;

S56 - DP and the dome lights are not grounded;

S57 - in the DP, the cables are connected to each other and there are ends of non-insulated cables (danger of electric shock); Neutral rail is not fixed;

S59 - there grounding to the PE strip;

S60, S61 - cables of different colors connected between each other with insulating tape;

Attachment 3 of November 19, 2019.

ACT

de verificare

<u>OBIECT: 51-55; 51-56; 51-57 51-58; 51-59; 51-60; 51-61; 51-62; 51-6</u> 51-67; 51-68; 52-31; 52-32; 52-33; 52-34; 52-35; 63.51-64

Scopul

Corespunderea instalației montate cu proiectul. Verificarea documentației de execuție. Corespunderea instalației montate cerințelor DNT.

Caracteristica succintă a instalației electrice examinată vizual:

- 1. Categoria de alimentare III
- 2. Sistem de alimentare <u>TN-C-S</u>
- 3. Tensiunea nominală ddo V/ 380V
- 4. Puterea electrică <u>3 e W</u>;
- 5. Tipul încăperii conform cerințelor securității electrice încăpere deosebit de periculoasă

Neajunsurile depistate:

În rezultatul examinării vizuale și în rezultatul efectuării măsurărilor și încercărilor, au fost depestate următoarele neajunsuri:

1, da obiectele inpectate PO lipsere trehete de morcos de collero 1A L. e andre chowellei da purile de linseste ecucritinea PE Ne este indicata tensuenea de ance mitelor electrice Macsicalo de Empanciatore ille este the enlocies reports Voprito realizato egaloree Fialelor contorm Morcen poten 6. Procesele -verbale dalità nu corestuena (valorile Verificerea continuitatii electrice dute prita PRACHA iustalatice easte I. Xa obictele punctul 41 600A ribila umhnx Siguran Molecher conton ACCESU 9. marcaful seste autoriatelor. dispectrat auqui electrice. conform proinchelani) 11. de 24locu coll 1020 de Concluzii: Instalația electrică; in la funareo uctie coate denistate MOELECTRICA» S.A. 1911.2019 Membrii: Delausch SERVICIUL ELECTRIC on 81

S.A. TERMOELECTRICA

Investitor (beneficiar): SA "TERMOELECTRICA"

PROCES VERBAL

DE RECEPȚIE LA TERMINAREA LUCRĂRILOR

Nr. _____ din 15-19 noiembrie 2019

privind lucrările pentru "Proiectarea, Furnizarea și Instalarea a 120 Puncte Termice Individuale (PTI) și a rețelelor termice aferente", executate în cadrul Contractului nr. 8451 – C 1.10 din 08.02.2019 încheiat între UCIPE (beneficiar SA "Termoelectrica") și JV "TECHNO TEST SRL" & "Promintergaz SRL" în cadrul Proiectului de Îmbunătățire a Eficienței Sistemului de Alimentare Centralizată cu Energie Termică (SACET) în mun. Chișinău, în conformitate cu cerințele Acordului de Finanțare nr. 8541-MD din 15.04.2015, semnat între Banca Internațională de Reconstrucție și Dezvoltare și Guvernul Republicii Moldova.

1. Comisia de recepție și-a desfășurat activitatea în zilele de **15** și **19 noiembrie**, fiind formată din:

Nr.	Nume	Prenume	Calitatea	Organizația
1.	Dl. Radu	Ovidiu	Președintele Comisiei/ Consultant tehnic	UCIPE
2.	Dna Cebotari	Carolina	Vicepreședintele Comisiei/ Șef Serviciul Management Tehnic	SA "Termoelectrica".
3.	Dl. Tovarnițchi	Iulian	Secretarul Comisiei	UCIPE
4.	Dl. Burlacu	Anatol	Consultant Mediu	UCIPE
5.	Dna Lisnic	Tatiana	Serviciul Planificare și Organizare Mentenanță	SA "Termoelectrica"
6.	Dl. Babii	Viorel	Serviciul Electric	SA "Termoelectrica"
7.	Dl. Bucățel	Alexandru	Serviciul Automatizări și Instalații Termotehnice	SA "Termoelectrica"
8.	Dna Slabenco	Natalia	Serviciul Management Tehnic	SA "Termoelectrica"
9.	Dl. Prepeliță	Andrei	Inginer Sector Sisteme SCADA	SA "Termoelectrica"
10.	Dl. Buruian	Vladimir	Șef Secție Rețele Termice Buiucani	SA "Termoelectrica"
11.				

2. Au mai participat la recepție ca invitați:

Nr.	Nume	Prenume	Calitatea	Organizația
1	Dl. Ceban	Alexandr	Manager de Proiect	"Techno Test" SRL
2				second and the second second
3				and the set of the set
4				

1

3. Constatările comisiei de recepție:

a) din documentația scrisă și desenată, care trebuia prezentată, au lipsit sau sânt incomplete piesele cuprinse în lista - anexă nr. 1;

b) lucrările cuprinse în lista - anexă nr. 2 nu au fost executate;

c) în lucrările, cuprinse în lista - anexă nr. 3, nu s-au respectat prevederile proiectului;

d) obiecțiile beneficiarului - act de verificare.

4. Comisia de recepție, în urma constatărilor făcute, propune:

Receptionarea lucrărilor de construcții – montaj cu volumele fizice îndeplinite deplin conform documentației de proiect și caietului de sarcini.

5. Comisia de recepție motivează propunerea făcută prin: alianth Att althought his and a second with the base and the base second second second second

Finalizarea lucrărilor de construcții – montaj de către Antreprenor.

6. Comisia de recepție recomandă următoarele:

<u>Recepție la terminarea lucrărilor și transmiterea obiectivelor spre lucrările de testare și reglare.</u>

 $[2m^2,q^4G^2,q^4G^2,q^4G^2]$

158 miles 2 18 1 1

Charles States

and the Principal Ph

where the set of the second second

7. Descrierea obiectului recomandat spre receptie:

Objectul 10:

PTI S41 – str. Chimiștilor 1; PTI S42 – str. Chimistilor 3; PTI S43 – str. Chimiștilor 5; PTI S44 – str. Chimiștilor 7 s.1; PTI S44 – str. Chimiştilor 7 s.2; PTI S45 – str. Chimiştilor 7 s.2; PTI S46 – str. Chimiștilor 9; PTI S47 – str. Chimiștilor 11 s.1; PTI S48 – str. Chimiștilor 11 s.2; PTI S49 – str. Chimiștilor 13; PTI S50 – str. Chimiștilor 15.

Retele Termice aferente:

Teavă din otel Preizolată cu Poliuretan Rigid (PUR) cu semnalizare - DN139,7 aprox. 50 m și DN76,1 aprox. 2 m.

Objectul 12:

PTI S55 - str. Lupu 55 sec. 1; PTI S56 - str. Lupu 55 sec. 2; PTI S57 – str. Lupu 55 sec. 3; PTI S58 – str. Lupu 55 sec. 4; PTI S59 – str. Lupu 59 sec. 1; PTI S60 - str. Lupu 59 sec. 2; PTI S61 – str. Lupu 59/1;

PTI S62 – str. Lupu 59/2; PTI S63 – str. Cornului 3/1; PTI S64 – str. Cornului 3/2; PTI S65 – str. Cornului 5; PTI S66 – str. Cornului 5/1; PTI S67 – str. Cornului 5/2 s.1; PTI S68 – str. Cornului 5/2 s.2.

Retele Termice aferente:

<u>Teavă din oțel Preizolată cu Poliuretan Rigid (PUR) cu semnalizare</u> – DN168,3 aprox. 120 m; DN114,3 aprox. 16 m; DN76,1 aprox. 46 m; DN60,3 aprox. 16 m.

<u>Teavă din oțel electrosudată</u> – DN219 aprox. 4 m; DN159 aprox. 10 m; DN133 aprox. 10 m; DN108 aprox. 14 m; DN76 aprox. 30 m; DN57 aprox. 25 m; DN25 aprox. 3 m.

Obiectul 28: PTI S99 – str. Ion Creangă 47/2

Retele Termice aferente:

Teavă din otel Preizolată cu Poliuretan Rigid (PUR) cu semnalizare - DN114,3 aprox. 80 m.

<u>Teavă din oțel electrosudată</u> - DN108 aprox. 6 m; DN45 aprox. 1 m.

Obiectul 29:

PTI S100 – str. Alexandrescu 13; PTI S101 – str. Alexandrescu 15; PTI S102 – str. Alexandrescu 17; PTI S103 – str. Alexandrescu 17/1.



8. Prezentul proces-verbal cu un total de 7 pagini, ce conține 3 anexe numerotate, a fost încheiat astăzi 19.11.2019 în cadrul contractului C 1.10, în 4 exemplare. Tot aici se anexează obiecțiile SA "Termoelectrica" în Actul de verificare întocmit de Beneficiar.

Nr.	Nume	Prenume	Organizația	Semnătura
1.	Dl. Radu	Ovidiu	UCIPE	Balgat
2.	Dna Cebotari	Carolina	SA "Termoelectrica"	AUTON PTOP
3.	Dl. Tovarnițchi	Iulian	UCIPE	SPORT Amm
4.	Dl. Burlacu	Anatol	UCIPE	M
5.	Dna Lisnic	Tatiana	SA "Termoelectrica"	Gleer
6.	Dl. Babii	Viorel	SA "Termoelectrica"	n
7.	Dl. Bucățel	Alexandru	SA "Termoelectrica"	hykon
8.	Dna Slabenco	Natalia	SA "Termoelectrica"	H.C.f
9.	Dl. Prepeliță	Andrei	SA "Termoelectrica"	durg.
10.	Dl. Buruian	Vladimir	SA "Termoelectrica"	Alun
11.				

9. Lucrarea este:

TRANSMISĂ:

EXECUTANTUL: L.Ş (semnătura) S.R CU RA 4

PRIMITĂ:

INVESTITORUL:

llon L.Ş.

(semnătura)

Anexa 1: Lista pieselor care sânt lipsă sau sânt incomplete

S44, S46 – Firul de împământare la amortizorul de vibrații nu este conectat la flanșă;

S45 – Firele de împământare la amortizoarele de vibrații nu sunt conectate la flanșe;

S47 – Firul de împământare la amortizorul de vibrații este slab fixat în bulon. Clemele de plastic de fixarea tuburilor de protecție pentru cabluri nu sunt fixate de tavan și nu își îndeplinesc scopul. Lipsește senzorul de deschidere a ușii;

S49 – Lipsește senzorul de deschidere a ușii;

S50 – lipsește grătarul deasupra groapei de evacuare a apei;

S55 - 1) trebuie vopsită sudura de pe rama PTI-ului 2) șina de împământare nu este fixată de perete;

S56 – în Panoul electric de Distribuție (PD) un automat este montat invers (cu capul în jos);

S57 – manometrul de apă caldă curge;

S58 - 1) senzorul de deschidere a ușii nu este fixat; 2) cablurilde din PD nu sunt fixate bine în automate (conexiuni slabe); 3) firul de împământare al PD nu este fixat de șina PE;

S59, S60, S63, S65, S99, S100 - lipsește izolarea schimbătorului de căldură;

S61 – 1) manometru defect (transpirat și nu ține presiunea); 2) lipsește izolarea schimbătorului de căldură; 3) curge conexiunea la contor și mai sus de acesta pe aceiași țeavă la îmbinare;

S62 – 1) trebuie asigurată curățenia în încăpere și în afara ei (materiale de la reparație aruncate afară); 2) lipsește izolarea schimbătorului de căldură;

S64 - 1) lipsește izolarea schimbătorului de căldură; 2) senzorul de deschidere a ușii nu este fixat;

S66 – lipsește grătarul deasupra groapei de evacuare a apei;

S67 – pompa produce un sunet straniu;

S100 – senzorul de deschidere a ușii nu e fixat;

S101 - 1) lipsește izolarea schimbătorului de căldură; 2) senzorul de presiune nu este conectat la conductă; 3) senzorul de deschidere a ușii nu e fixat bine;

S102 - 1) lipsește izolarea schimbătorului de căldură; 2) senzorul de deschidere a ușii nu e fixat; 3) trebuie restabilită vopseaua pe pereți; 4) AVP nu se deschide complet;

S103 - 1) senzorul de temperatură exterioară trebuie mutat de pe placa de metal (la soare va da parametri greșiți); 2) lipsește izolarea schimbătorului de căldură; 3) cablul trebuie prins de tavan; 4) firul de împământare nu e prins bine de șina PE.

Anexa 2: Lista lucrărilor care nu au fost executate

S44, S46 – Trebuie asigurată curățenia în interiorul încăperilor.

S42, S48 - senzorul de deschidere a ușii prezent, dar nu este fixat.

S49 – nu au fost evacuate materialele vechi din încăpere. Conducta nu este fixată de perete decât cu sârmă;

S62, S102 – egalarea potențialurilor (împământarea) între conductele separate de antivibratoare de cauciuc;

channel construction with the sign of the second of the second states and the second states and the second s

a particular de la desta de la compansión d

We want to a second second as Magdarets in the second of the second second second second second second second s

Anexa 3: Lista lucrărilor la care nu s-au respectat prevederile proiectului

S41, S42 – ambele plafoane de iluminat nu sunt împământate (firul de împământare e tăiat în plafon);

S43, S49 – firul de împământare al instalației nu e conectat la șina de împământare (pe când Procesul Verbal al laboratorului electrotehnic de la SA "Energoservice" declară că există continuitate electrică între priza de pământ și instalație);

S44, S45, S48 – este o diferență de 200A între tensiunile L-N și L-PE; trebuiesc verificate conexiunile firelor;

S55 - Panoul Electric de Distribuție (PD) nu este conectat la împământare;

S56 – PD și plafoanele de iluminat nu sunt împământate;

S57 – în PD cablurile sunt conectate între ele și sunt capete de cabluri neizolate (pericol de electrocutare); șina Neutrului nu este fixate;

S59 – lipsește împământarea la șina PE;

S60, S61 - cabluri de diferite culori legate între ele cu bandă izolantă;

ACT de verificare

OBIECT: 51-55; St-56; St-54 S1-58; S1-59; St-60; St-61; S1-62; St-63.51-64 S1-64 S1-68 St-.31 .S.L - .3d 52-33 52-34

Scopul

Corespunderea instalației montate cu proiectul. Verificarea documentației de execuție. Corespunderea instalației montate cerințelor DNT.

Caracteristica succintă a instalației electrice examinată vizual:

- 1. Categoria de alimentare III
- 2. Sistem de alimentare <u>TN-C-S</u>
- 3. Tensiunea nominală ddo V / 380V
- 4. Puterea electrică 3 et ;
- 5. Tipul încăperii conform cerințelor securității electrice încăpere deosebit de periculoasă

Neajunsurile depistate:

În rezultatul examinării vizuale și în rezultatul efectuării măsurărilor și încercărilor, au fost depestate următoarele neajunsuri:

1. La obiectele impectar PD psere fichate de Marcal DE allere emidiector deliei Enses Coucouhen PF indicata Ne este horce ectrice. Empaniatore nu este eulocies reports Ne nn 6. Procesele ena coulstu valor Veri ficerea continuita niza the iustalet li le 7. Xa sichel auctu GODA este bela figuras projecties cou 8 ACCESU 9. automatelor. seste nurea 10 peerat electrice. ucion 11. a COIP form presectateri) Concluzii: Instalația electrică; DOTE 0

HOELECTRICA» S.A. 19.11.2019 Membrii: nich SERVICIUL ELECTRIC ion S.A. TERMOELECTRICA LEBORATORUL ELECTROTENNIC

nisto.

Completion Certificate No. 3

Date: <u>2</u> Loan/Credit Nº: <u>8451</u> ICB Nº: <u>8451</u>

Project:District Heating Efficiency Improvement ProjectTo:Joint Venture Techno Test SRL and PROMINTERGAZ SRLAttn:Mr. Gheorghe BURDILA

Dear Mr. Burdila,

Pursuant to GC Clause 24 (Completion of the Facilities) of the General Conditions of the Contract entered into between yourselves and the Employer dated February 8, 2019, relating to the **Procurement of Plant Design, Supply and Installation of 120 Individual Substations and associated pipes in Chisinau District Heating System**; we hereby notify you that the following parts of the Facilities were complete on the date specified below, and that, in accordance with the terms of the Contract, the Employer hereby takes over the said parts of the Facilities, together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below.

I. Description of the Facilities or part thereof:

The following consistent (general) works were carried out:

- installation of DH pipes
- preparation and repairs of rooms
- installation on new DH substations
- connection of the new DH substations to the DH, CW, SH, DHW, DHWRC systems
- installation of electrical equipment, automation of the control system, valves, strainers, piping and electricity supply systems.

The installation/reconstruction works have been performed for the following objects:

1. Object 30:

IHS S104 – str. Voluntarilor 8/1 s.1; IHS S105 – str. Voluntarilor 8/1 s.2; IHS S106 – str. Voluntarilor 10 s.1; IHS S107 – str. Voluntarilor 10 s.2;

IHS S108 – str. Voluntarilor 10 s.2, IHS S108 – str. Voluntarilor 10 s.3;

IHS S109 – str. Voluntarilor 12 s.1;

IHS S110 – str. Voluntarilor 12 s.2;

IHS S111 – str. Voluntarilor 12 s.3;

IHS S112 – str. Voluntarilor 12/1 s.1;

IHS S113 – str. Voluntarilor 12/1 s.2;

IHS S114 – str. Voluntarilor 12/1 s.3.

DH associated pipes:

<u>Pre-insulated steel pipe with signal wire</u> – DN114,3 \approx 52 m;

<u>Electro-welded steel pipe</u> – DN108 \approx 35 m; DN57 \approx 5 m; DN45 \approx 1 m.

Digitally signed by Date: 2021.01.19 1 Reason: MoldSign Location: Moldova 2. Object 32:

IHS S117 – str. Voluntarilor 16; IHS S118 – str. Voluntarilor 18/1; IHS S119 – str. Voluntarilor 18/2; IHS S120 – str. Voluntarilor 18/3.

DH associated pipes:

<u>Pre-insulated steel pipe with signal wire</u> – DN114,3 \approx 175 m; DN88,9 \approx 46m;

<u>Electro-welded steel pipe</u> – DN108 \approx 2 m; DN89 \approx 7 m; DN76 \approx 1,5 m; DN45 \approx 5,5 m; DN32 \approx 6,5 m.

Date of Completion: November 20, 2019.

However, you are required to complete the outstanding items listed in the Attachment 1, 2 and 3 (beneficiary's objections) hereto as soon as practicable.

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

Project Manager

Π.

MEPIU Technical Supervisor

Ovidiu Radu

Iulian Tovarnitchi

Responsible from "Termoelectrica" SA:

Carolina Cebotari Alexandru Lupan

Larisa Dimitriu

Viorel Babii

Alexandru Bucățel

Tatiana Comaniuc

Andrei Prepeliță

Veaceslav Djelali

Sergiu Berezan

All holds

Attachment 1 to the Completion Certificate

of November 20, 2019 under the Contract No. 8451-C1.10

Outstanding items under the Contract to be completed by the Contractor:

S104, S105 - 1) PE strip is not painted; 2) the door opening sensor is not installed; 3) cleanliness must be ensured;

S106, S107 - 1) PE strip is not painted; 2) the heat exchanger insulation is missing;

S108, S110 - 1) the door opening sensor is not installed; 2) the heat exchanger insulation is missing; 3) PE strip is not painted;

S109 - 1) the door opening sensor is not fixed properly; 2) the heat exchanger insulation is missing; 3) PE strip is not painted; 4) the ground wire is not fastened to the PE strip; 5) a bulb is missing in one of the dome lights;

S111 - 1) the door opening sensor is not fixed properly; 2) the heat exchanger insulation is missing; 3) the ground wire at the vibration damper is weakly fixed at the bolts;

S112 - 1) the door opening sensor is not installed; 2) the heat exchanger insulation is missing; 3) the PE strip is not fixed to the floor and presents a danger for moving around the installation;

S113 - 1) the door opening sensor is not installed; 2) PE strip is not painted;

S114 - 1) the heat exchanger insulation is missing; 2) PE strip is not painted; 3) the bolts are not tightened at the grounding wire for equalizing the potentials (at the vibration damper);

S117 - 1) the heat exchanger insulation is missing; 2) the external DH pipes are not isolated;

S118 - 1) the pressure gauge leaks at the socket; 2) the ground wire is not fastened to the PE strip;

S119 - 1) the door opening sensor is not fixed properly; 2) the PE strip is not fixed to the floor and presents a danger for moving around the installation; 3) the servomotors are missing; 4) the glass of a dome light is missing;

S120 - 1) defective pressure gauge; 2) the dome light is not fixed well on the ceiling; 3) grounding on the PE strip not executed;

Attachment 2 to the Completion Certificate

of November 10, 2019 under the Contract No. 8451-C1.10

Works that were not completed by the Contractor or that for which the provisions of the project were not respected:

S117, S118, S119, S120 - the modem for remote data transmission is not set.

S105 - IHS installed too close to the wall and does not allow operation as well as maintenance at the back of the equipment;

S118 - in the DP the cables are connected to each other with insulation tape and present a short circuit danger;

S119 - the bulb is incandescent (inefficient) dome light that also misses the protective glass.

and the second secon In the second second

a da a servicia de conciencia a construir d'al que las construirs en alcana en alcana de la cara a La caracteristica de construir de characteristica de la construir a device de construir de construir en caracter

的复数金属工作 有限的现在分词 计可能结构性 原因的 化合成偏合物

(4) (a) and the sectors (as the line for 2) P₁, where a set of the line set of the ²s terms in the set of the se

the contraction of the second state of the sec

en al en tribula per la secola farendi della per della per della per la periode della periode della periode de

and a series being general and the protection of the series of the protection of the protection of the series The series and the set gaves a series of the set generation of the set of the series of the series of the series A series of the series of the set of the set of the set of the series of the series of the series of the series

(interstern state state solling opperation) (in the state solution operation of the state solling operation of the solution operation.

Attachment 3 of November 20th, 2019.

ACT de verificare

OBIECT: Sd. d: Sd.3; St.4; Sd. -5 1Sd. 6 . Sd. 7 , S.3 - 1 . S.3 - 2 . S3 - 3 . S3. 53-9-53-10-53-11-53-14-53-8

Scopul

Corespunderea instalației montâte cu proiectul. Verificarea documentației de execuție. Corespunderea instalației montate cerințelor DNT.

Caracteristica succintă a instalației electrice examinată vizual:

- 1. Categoria de alimentare III
- 2. Sistem de alimentare <u>TN-C-S</u>
- 3. Tensiunea nominală 20/3801/
- 4. Puterea electrică <u>3kW</u>;
- 5. Tipul încăperii conform cerințelor securității electrice încăpere deosebit de periculoasă

Neajunsurile depistate:

În rezultatul examinării vizuale și în rezultatul efectuării măsurărilor și încercărilor, au fost depestate următoarele neajunsuri:

paciouri electrice lipserc marcanel suctomatelor psesc demnirele de disperso ellerice. sese Gehete de u confuer caucsiane conducto relei teustune 1aniInterla pareo neporo sal recilerelus rilar ne le decencentatio mariariu. inde 10, 2840 ore a pa ruit TUP ectedel. 11. Re contor trep ara conform de Moiectu

Concluzii:

Instalația electrică: loate uctie duro Eulofureree 1 de escor

Membrii:

10

TERMOELECTRICA» S.A. SERVICIUL 26. 11.2019 ELECTRIC

S.A. (TERMORIECTINGA 1/ SUPATORUL FL: O/ROTENNIC

