

IVECO EAST-TEST

| WAWRZASZEK | Inżynieria Samochodów | Specjalnych

Medium Fire Fighting Vehicle

Iveco.md / wiss.com.pl

22.12.2025

Publication reference: < ocds-b3wdp1-MD-1761130932840>

" Vehicle for Extinguishing Forest Fires"

For The Causeni Regional Directorate for Exceptional Situations of General Inspectorate for Emergency Situations of the Ministry of Internal Affairs of the Republic of Moldova



the photo of the vehicle is indicative

General Description

Fire Fighting Vehicle built on Iveco Eurocargo, chassis with body made of aluminum and steel. Superstructure integrated with 3000 I water tank and 400 I secondary tank. High quality pump. Vehicle is equipped with 5 lockers.

Chassis

Iveco Eurocargo ML150E25WS-E5 Euro 5 GVW: 15000kg

Engine

6 cylinder 16V, Capacity – 6728

cm3

Max power – 185kW(250HP)

at 2500 rev/min

Maximum torque: 850Nm at

1250 rev/min

1.1 Gearbox

Cambio Automatico ZF **Braking system**

All disc

brakes ABS

system

str.Cucorilor 14 c/f 1003600028532 MD-2020, Chişinău TVA 0604408 e-mail: easttest@mtc.md e-mail: iveco@mtc.md

Mob:+37369087228 i tel: 022-45-03-22 wis

iveco.md wiss.com.pl







Inżynieria Samochodów Specjalnych

1.2 Cabin

Four-door, 6-seat. 2 front seats, driver's seat with adjustable seat and backrest position, equipped with seat belts and headrests.

2. Superstructure

Built as a self-supporting shell construction, made of stainless steel and aluminum, fully resistant to corrosion. Superstructure equipped with working light – 2 on the left side, 2 on the right side and one at the rear of the superstructure. Roof can be used as a working platform or to carry equipment like ladder, suction hoses etc. Access to the roof possible by foldable ladder mounted on a rear wall of the superstructure. All lockers are closed by dust and water-proof, roller shutters with bar grips locked with key. Each compartment contains LED lighting automatically switching on when shutter is opened. Two blue lights on the roof of the cabin, one blue beacon at the back of the superstructure. Two blue LED lights at the front of the cabin.

3. Water and foam tanks

Water tank made of high quality GRP, capacity 3000 I secondary tank, made of GRP, capacity 400 I man hole, breakwaters.

4. Pump compartment and water foam system Pump compartment is located at the back of the vehicle and is closed by dust and water proof roller shutter. In the pump compartment there are pump, foam mixer and piping.

4.1 Rapid intervention line

with a hose, with manual and electric drive. Located in rear right side of superstructure.

4.2 Pump.

Q ≥ 2500 l/min at 10 Bar;

Parameters

Approximate exterior dimensions:



Item	Parametr	Unit	Dimension
1.	Length of vehicle	mm	7000
2.	Width of vehicle	mm	2550
3.	Height of vehicle	mm	3300

str.Cucorilor 14 c/f 1003600028532 MD-2020, Chişinău TVA 0604408

e-mail: easttest@mtc.md e-mail: iveco@mtc.md

Mob:+37369087228 iveco.md tel: 022- 45-03-22 wizz.com.pl

Annex no. 1

to the technical specification

<u>LIST</u> of Equipment and Accessories of the Vehicle for Extinguishing Forest Fires

No	of Equipment and Accessories of the Vehicle for Extinguishing Fore Name	MU	Qu anti ty
	EQUIPMENT AND ACCESSORIES	<u>l</u>	- V
1.	4-inch (Type A) suction coupling, mounted at the suction point, in the case of the vehicle being supplied with water from unpressurized sources, positioned at the rear of the vehicle, without obstructing the operation of the control panel during suction	Unit	1
2.	4-inch (Type A) blind coupling.	Unit	1
3.	Fixed Type B coupling (mounted for discharge and water supply to the vehicle's tank from pressurized sources).	Unit	4
4.	Blind Type B coupling.	Unit	4
5.	Fixed Type C coupling (mounted for discharge).	Unit	2
6.	Blind Type C coupling.	Unit	2
7.	Fork with a minimum of 3 teeth, with a handle. The handle shall be made of composite material (PAFS or equivalent). The fork shall be made of heat-treated steel, resistant to torsion, bending, and extreme temperatures, secured with a system to prevent accidental detachment.	Unit	4
8.	Shovel: - Length: minimum 1200 mm - Weight: maximum 3 kg The handle shall be made of fiberglass-reinforced polyester (PAFS) obtained through the pultrusion process, non-conductive, and resistant to shocks, flames, water, UV damage, and low temperatures.	Unit	4
9.	Wildfire beater with a handle. The handle shall be made of material (PAFS or equivalent). The beater shall be made of rubber, resistant to shocks and high temperatures (200 degrees Celsius for at least 5 minutes), attached with rivets to the handle	Unit	4
10.	Hydrant key made of heat-treated steel, resistant to torsion, bending, mechanical shocks, and extreme temperatures. Designed for operation of the type B portable hydrant from the position no. 29.	Unit	1
11.	Hydrant key made of heat-treated steel, resistant to torsion, bending, mechanical	Unit	1
12.	Coffret key made of heat-treated steel, resistant to torsion, bending, mechanical shocks, and extreme temperatures.	Unit	1
13.	Type A coupling key made of heat-treated steel, resistant to torsion, bending, mechanical shocks, and extreme temperatures.	Unit	2
14.	Type B coupling key made of heat-treated steel, resistant to torsion, bending, mechanical shocks, and extreme temperatures.	Unit	2
15.	Type C coupling key made of heat-treated steel, resistant to torsion, bending, mechanical shocks, and extreme temperatures.	Unit	2
4 -	Hose tying cord: Type C.	Unit	4
16.		T T :4	1
17.	Suction hose support cord: Type A.	Unit	
17. 18.	Suction basket.	Unit	1
17. 18. 19.	Suction basket. Elbow for hose.	Unit Unit	1 2
17. 18. 19. 20.	Suction basket. Elbow for hose. Distributor B-CBC made of aluminum alloy.	Unit Unit Unit	1 2 1
17. 18. 19. 20. 21.	Suction basket. Elbow for hose. Distributor B-CBC made of aluminum alloy. Distributor C-DCD made of aluminum alloy.	Unit Unit Unit Unit	1 2 1 2
17. 18. 19. 20.	Suction basket. Elbow for hose. Distributor B-CBC made of aluminum alloy.	Unit Unit Unit	1 2 1

Mob:+37369087228 iveco.md

wiss.com.pl

25.	Type B Hose, w	rith type B "STORZ"	' fittings, protected on the out	side by		
		rub	ber.			
	which the fittings to pressure.	s are made shall be	he material (corrosion-resistar made from aluminum alloys e	xposed		
	The hose shall be collapsible, made from rubber-coated textile material, whose cross-section becomes circular only under internal pressure, and in an unfilled state, it can be folded and rolled flat. The inner diameter and length shall comply with the table below:					100
	The hose shall meet the conditions at hydrostatic pressure according to the table below:					
	Product	Cł	neck pressure [bar]			
		Test pressure	Minimum burst pressure			
	Hose type B	25	40			
	Type C Hose , with type B "STORZ" fittings, protected on the outside by rubber.					
	To increase mechanical resistance, the material (corrosion-resistant) from which the fittings are made shall be made from aluminum alloys exposed to pressure.					
	whose cross-sec in an unfilled stat	ction becomes circul	from rubber-coated textile mater only under internal pressured for the first of the first online from the first online of the	re, and	M.L.	100
The hose shall meet the conditions at hydrostatic pressure according to the table below:						
	Product	Cł	neck pressure [bar]			
	Tioddot	Test pressure	Minimum burst pressure			
	Hose type C	25	40			

Mob:+37369087228 iveco.md tel: 022- 45-03-22 wiss.com.pl

		outsi rub	TORZ" fittings, protected on de by ber.			
			he material (corrosion-resistar made from aluminum alloys e	,		
27.	The hose shall be collapsible, made from rubber-coated textile material, whose cross-section becomes circular only under internal pressure, and in an unfilled state, it can be folded and rolled flat. The inner diameter and length shall comply with the table below:				200	
	Product	Cł	neck pressure [bar]			
		Test pressure	Minimum burst pressure			
	Hose type D	30	50			
28.	Progressive hose pack backpack (for 2 D type hoses)				Unit	5
29.	Bag for keys with straps and handles				Unit	1
30.	0. Bandage bag for discharge hose.					1

31.	Portable hydrant type B with valves (according to EN 14339)	Unit	1
32.	Portable hydrant (GOST type, used in the post-Soviet Union countries) with valves.	Unit	1
	Portable LED lighting lamp with rechargeable battery, charger connected to the vehicle's electrical system, and a 230 V AC charger. - ATEX certification or equivalent; - Usage: handheld and mountable in a desired working position; - The reflector is equipped with a swiveling head that can be directed to the desired direction by maneuvering it; - Weight: maximum 2 kg (including batteries); - Brightness: minimum 500 lumens (high) / 200 lumens (low); - Light intensity: minimum 18,000 candelas (high) / 6,500 candelas (low); - Light source: LED; - Weatherproof, water and dust resistant; - Battery life: minimum 4 hours (high) / minimum 10 hours (low); - Batteries are included (2 per set);	Unit	2
34.	- 230VAC charger (1 pcs.) Rubber hose bridge for 2 type B hoses that ensures the safe passage of the fire truck. Construction material – rubber.	Unit	2

Mob:+37369087228 iveco.md tel: 022- 45-03-22 wiss.com.pl

	Halligan tool: forged steel tips, solid handle (steel or durable composite		
	material),		
	At one end, two points: - one flat, long, smooth, angled (for forcing windows and doors), the other sharp (cone-shaped and slightly curved).		
	At the other end: two sharp and parallel claws.		
35.	Axe: Minimum weight 2400 g. and 3000 g. (2+2 pieces),		
	Handle made of fiberglass or composite,		
	• The blade made of steel, one end is an axe, and the opposite end is		
	beveled,		
	beveled,		
	Axe blade width: 100 mm - 150 mm.		
36.	Reduction coupling B-C.	Unit	2
37.	Reduction coupling C-D.	Unit	4
38.	Strainer with mesh made of lightweight metal materials or corrosion-resistant aluminum alloy.	Unit	1
	A pickaxe designed for emergency interventions related to fire extinguishing.	Unit	
20	The handle is made of composite material (PAFS or equivalent). The axe blade is		2
<i>3</i> 9.	made of hardened steel, resistant to impact in metal. The axe shall have a sheath with a fastening system and a strap for shoulder		
	carrying.		
	A small axe designed for emergency interventions related to fire extinguishing. The	Unit	
40.	handle is made of composite material (PAFS or equivalent). The axe blade is made		5
-10.	of hardened steel, resistant to impact in metal.		
	The small axe shall have a sheath with attachment systems for a belt or strap.	TT '4	
41.	Suction hose type A with couplings for the pumping unit. Minimum length of 4 meters.	Unit	2
	Type C Water Discharge nozzle:	Unit	
	automatic pressure regulation system with variable flow between 0 (zero) l/min and	Cint	
	minimum 400 l/min at 6 bar pressure;		2
	- optimized for the technique of pushing in the form of pulses;		2
	body made of composite material (polymers reinforced with glass fiber or equivalent)		
	or aluminum alloy;		
42.	- pistol grip for support;		
	close-close valve, the valve is operated by moving back and forth, the position of the		
	valve shall be on the opposite side of the support handle;		
	- the valve and the handle shall be sized for using the gun with protective gloves;		
	external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet: compact, conical		
	and dispersed as a protective curtain;		
	- the outer selection ring shall allow all forms of the jet to be traversed;		
	- internal sieve to prevent large impurities from entering;		
	- teeth cut in aluminum for the generation of fine drops;		
	type C connection in the back on the same axis as the nozzle, with the possibility		
	of 360° rotation of the gun connected to the hose.		

Set.

Halligan tool set 760 mm:

Mob:+37369087228 iveco.md

wiss.com.pl

- automatic pressure regulation system with variable flow; - optimized for the technique of pushing in the form of pulses; - body made of composite material (polymers reinforced with glass fiber or equivalent) or aluminum alloy; - pistol grip for support; - close-close valve, the valve is operated by moving back and forth, the position of the valve shall be on the opposite side of the support handle; 43 the valve and the handle shall be sized for using the gun with protective gloves; - external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet: compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: minimum 1600 l/min Minimum working flow rate: minimum 1600 l/min Maximum discharge pressure: at least 2.5 bar. 44. Solid particle diameter that can be absorbed: up to 30 mm Maximum eight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 7 kg: - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite ma				1
- optimized for the technique of pushing in the form of pulses; body made of composite material (polymers reinforced with glass fiber or equivalent) or aluminum alloy; - pistol grip for support; - close-close valve, the valve is operated by moving back and forth, the position of the valve shall be on the opposite side of the support handle; 43 the valve and the handle shall be sized for using the gun with protective gloves; - external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet: compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg: - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel,		Type D Water Discharge nozzle:	Unit	
body made of composite material (polymers reinforced with glass fiber or equivalent) or aluminum alloy; - pistol grip for support; - close-close valve, the valve is operated by moving back and forth, the position of the valve shall be on the opposite side of the support handle; - the valve and the handle shall be sized for using the gun with protective gloves; - external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet; compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: minimum 1600 l/min Maximum discharge pressure: at least 2.5 har Water discharge will be performed using type B hoses Maximum discharge pressure: at least 2.5 har Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 7 kg cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 4.8 HP; - bar length: minimum 4.8 HP; - bar length: minimum 112 dB(A); - carburetor with self-adjustment. Thermal imaging				
equivalent) or aluminum alloy; - pistol grip for support; - close-close valve, the valve is operated by moving back and forth, the position of the valve shall be on the opposite side of the support handle; 43 the valve and the handle shall be sized for using the gun with protective gloves; external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet: compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar. 44 Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge will be performed using type B hoses Maximum weight: 80 kg Minimums working flow rate: 1000 l/min at a pressure of at least 2 bar. 45. Maximum weight: 80 kg Minimums uction depth: 7.5 m Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: maximum 7 kg: - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity; minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves: adjustable serve				4
- pistol grip for support; close-close valve, the valve is operated by moving back and forth, the position of the valve shall be on the opposite side of the support handle; - the valve and the handle shall be sized for using the gun with protective gloves; - external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet: compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Boll/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpeni				
- close-close valve, the valve is operated by moving back and forth, the position of the valve shall be on the opposite side of the support handle; - the valve and the handle shall be sized for using the gun with protective gloves; external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet: compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine. - Engine power: minimum 7 HP. - Equipped with a self-priming system. - Water discharge flow rate: minimum 1600 l/min. - Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar. - Solid particle diameter that can be absorbed: up to 30 mm. - Maximum discharge pressure: at least 2.5 bar. - Water discharge will be performed using type B hoses. - Maximum weight: 80 kg. - Minimum suction depth: 7.5 m. - Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable serve for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine powe		equivalent) or aluminum alloy;		
the valve shall be on the opposite side of the support handle; - the valve and the handle shall be sized for using the gum with protective gloves; - external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet: compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Boll/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg: - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 48 HP; - obar length: minimum 50 cm; - weight without cutting e		- pistol grip for support;		
the valve shall be on the opposite side of the support handle; - the valve and the handle shall be sized for using the gun with protective gloves; - external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet: compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360" rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Boll/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting e		close-close valve, the valve is operated by moving back and forth, the position of		
43 the valve and the handle shall be sized for using the gun with protective gloves; external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet; compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar. 44. Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge wilb be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bott/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 48 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imagi				
external discharge mode selection ring, made of polyurethane, with tactile indicator to indicate the conical shape of the jet, with 3 main shapes of the jet: compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine. - Engine power: minimum 7 HP. - Equipped with a self-priming system. - Water discharge flow rate: 1000 l/min at a pressure of at least 2 bar. Solid particle diameter that can be absorbed: up to 30 mm. - Maximum discharge pressure: at least 2.5 bar. - Water discharge will be performed using type B hoses. - Maximum weight: 80 kg. - Minimum suction depth: 7.5 m. - Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;	43.			
to indicate the conical shape of the jet, with 3 main shapes of the jet; compact, conical and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar. 44 Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
and dispersed as a protective curtain; - the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine. - Engine power: minimum 7 HP. - Equipped with a self-priming system. - Water discharge flow rate: minimum 1600 1/min. - Minimum working flow rate: 1000 1/min at a pressure of at least 2 bar. 44 Solid particle diameter that can be absorbed: up to 30 mm. - Maximum discharge pressure: at least 2.5 bar. - Water discharge will be performed using type B hoses. - Maximum weight: 80 kg. - Minimum suction depth: 7.5 m. - Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutting capacity: minimum 10 mm; - handles made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- the outer selection ring shall allow all forms of the jet to be traversed; - internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Water discharge flow rate: minimum 1600 l/min Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- internal sieve to prevent large impurities from entering; - teeth cut in aluminum for the generation of fine drops; - type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- teeth cut in aluminum for the generation of fine drops; type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar. 44. Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;		· · · · · · · · · · · · · · · · · · ·		
type D connection in the back on the same axis as the nozzle, with the possibility of 360° rotation of the gun connected to the hose. Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine. - Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: 1000 l/min at a pressure of at least 2 bar. - Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar. - Water discharge pressure: at least 2.5 bar Water discharge with be performed using type B hoses Maximum wischarge pressure: at least 2.5 bar Water discharge with be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
Motor pump for dirty water, with connections compatible with the pumping unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2-4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
Motor pump for dirty water, with connections compatible with the pumping unit. Specifications:				
unit. Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
Specifications: - 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				1
- 4-stroke engine Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spane chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;			Cpi.	1
- Engine power: minimum 7 HP Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 48 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- Equipped with a self-priming system Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- Water discharge flow rate: minimum 1600 l/min Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- Minimum working flow rate: 1000 l/min at a pressure of at least 2 bar Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
44 Solid particle diameter that can be absorbed: up to 30 mm Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- Maximum discharge pressure: at least 2.5 bar Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;		•		
- Water discharge will be performed using type B hoses Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;	44.	<u>*</u>		
- Maximum weight: 80 kg Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- Minimum suction depth: 7.5 m Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- Metal frame with the ability to be transported by 2–4 operators. Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
Includes a suction hose with a minimum length of 6 m, equipped with connections compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;		- Minimum suction depth: 7.5 m.		
compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;		- Metal frame with the ability to be transported by 2–4 operators.		
compatible with the pump's inlet connection and a strainer. 45. Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
Collapsible Water Tank (minimum volume 1000 Liters) suitable for installation of the suction hoses of the motor pump 1				
Solt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
Bolt/Rebar Cutter: - length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;	/15 1	<u> </u>	Unit	1
- length: minimum 850 mm; - weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;		1 1		
- weight: maximum 7 kg; - cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;			Unit	
- cutter head made of high-alloy chrome-molybdenum forged material; - cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- cutting capacity: minimum 10 mm; - handles made of composite material (PAFS or equivalent), steel, or PVC, ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;	46.			1
ergonomic to allow work with protective gloves; adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
adjustable screw for grip spacing Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
Motor chainsaw with chain, spare chain set, sharpening file, and wrench: - engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- engine power: minimum 4.8 HP; - bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;			** .	
- bar length: minimum 50 cm; - weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;			Unit	
- weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;				
- weight without cutting equipment: maximum 6.5 kg; - noise level: maximum 112 dB(A); - carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;	47			2
- carburetor with self-adjustment. Thermal imaging device: - designed for use in firefighting;	• , •	l - weight without cutting equipment: maximum 6.5 kg:		
Thermal imaging device: - designed for use in firefighting;				
- designed for use in firefighting;		- noise level: maximum 112 dB(A);		
		- noise level: maximum 112 dB(A); - carburetor with self-adjustment.		
1 48. 1 - detector sensor resolution minimum 384x288 pixels:		 noise level: maximum 112 dB(A); carburetor with self-adjustment. Thermal imaging device:		
		 noise level: maximum 112 dB(A); carburetor with self-adjustment. Thermal imaging device: designed for use in firefighting; 		
	48.	 noise level: maximum 112 dB(A); carburetor with self-adjustment. Thermal imaging device: designed for use in firefighting; detector sensor resolution minimum 384x288 pixels; 		
- sensor frequency minimum 60 Hz;		 noise level: maximum 112 dB(A); carburetor with self-adjustment. Thermal imaging device: designed for use in firefighting; detector sensor resolution minimum 384x288 pixels; detectable temperature range minimum from -40°C to minimum 1100°C; 		

	- optic lens protected with a germanium window;		
	- LCD screen size: minimum 3.5 inches;		
	- startup time maximum 5 seconds;		
	- color display modes: at least fire, search, cold, inverted, multicolor;		
	- freeze-frame function with color scheme change capability;		
	- built-in laser pointer;		
	- video recording with auto-start option upon camera activation, with storage		
	for at least 8 hours and simultaneously 1000 photos;		
	- USB interface for accessing, transferring, and deleting saved data;		
	- USB cable for PC connection;	Cpl.	1
	- detachable handle and retractable strap with carabiner;		
	- minimum battery life of 5 hours;		
	- two sets of LiFePO4 batteries, safe against fire and impact;		
	- charger with 230V AC adapter;		
	- vehicle charger for charging the device and backup batteries simultaneously;		
	- minimum protection rating of IP67;		
	- drop resistance of at least 2 meters;		
	- temperature resistance of 150°C for 15 minutes and 260°C for 5 minutes;		
	- device weight with batteries: maximum 1 kg;		
	rigid carrying case for transport.		
40	Self-contained breathing apparatus set with 4 panoramic masks, air cylinder and	Unit.	4 SCBA
49.	transport harness.		16 masks
50.	Spare compressed air cylinders.	Unit.	4
	TETRA handheld radio terminals.	Unit.	6
52.	Crowbar 1700 mm, 7.2 kg.	Unit.	1
53.	53. Crowbar 800 mm x 19 mm.		
54. Sledgehammer, 2 kg, handle made of fiberglass.			1
55. Sledgehammer, 10 kg, handle made of fiberglass.			1
	Carpenter's hammer with split claw, 14" (570 g).	Unit.	1
57.	Medical Backpack (Red) – Dimensions: 65 cm x 40 cm x 30 cm	Unit.	1

Note: All accessories and equipment shall be certified/approved according to EU standards and regulations. The flame-resistant protective suit falls into risk category III and is subject to the conformity assessment procedure, regulations, and conditions for applying the CE marking, corresponding to PPE category III. Only products bearing the CE marking accompanied by the number of the EU notified certification body shall be accepted.

All equipment and accessories that are not secured in/on drawers, floors, doors, or side walls shall be arranged in compartments, in durable plastic boxes with handles for handling. The boxes shall contain a list of the materials contained for easier identification during intervention. The boxes shall be numbered, and the inventory of the complete firefighting vehicle to be provided shall be structured in the order of the boxes. Items fixed to the firefighting vehicle shall be included in an annex to the complete inventory.

Mob:+37369087228

tel: 022- 45-03-22

iveco.md

wiss.com.pl

e-mail: easttest@mtc.md

e-mail: iveco@mtc.md

Annex no. 2

to the technical specification

LIST of specific materials on the chassis

No	Product name	U.M.	Quantity
1.	First aid kit for vehicles	units	1
2.	Tool kit and specific accessories for the chassis	units	1
3.	Hydraulic jack that allows the replacement of a wheel on a fully loaded vehicle	units	1
4.	Reflective triangles	units	2
5.	Jack support plate	units	1
6.	Spare wheel (rim + tire) mounted on the chassis or vehicle	units	1
7.	Type P6 fire extinguisher mounted in the cabin	units	1
8.	Wheel chocks	units	2
10.	Anti-slip chains for all driving wheels of the vehicle	Set	2

e-mail: easttest@mtc.md

e-mail: iveco@mtc.md

Mob:+37369087228 iveco.md

wiss.com.pl

Annex no. 3

to the technical specification

TETRA RADIO TERMINALS

The communications module for vehicles shall consist of:

- One TETRA standard radio terminal for installation in vehicles;
- Six portable TETRA standard radio terminals.

Technical Specification

"TETRA radio terminals for installation in special vehicles"

1. Compatibility

All the terminals offered shall be compatible with the services available on the operational TETRA system infrastructure in the Republic of Moldova.

2. Applicable technical requirements

2.1. Environmental Requirements

The offered TETRA terminals shall have the following environmental characteristics:

- Operating temperature: -30 / +60° C
- Humidity: ETSI 300 019-1-5 CLASS 5.2
- Shocks and vibrations: ETSI 300 019-1-5 CLASS 5M3
- Dust and water protection: minimum IP 54.

2.2. Configuration

For easy installation, the mobile terminal shall be in "dash mount" or "remote mount" configuration depending on the vehicle model and installation possibilities in the cabin.

2.3. RF

The offered TETRA terminals shall have the following RF characteristics:

- a) RF band (TMO&DMO): 380-400 MHz
- b) Modulation: $\pi/4$ DQPSK
- c) Receiver: Class A and B
- d) Power Tx terminal: minimum 10 W

2.4. TETRA services and functionalities

2.4.1. *Voice services*

- a) Group call (minimum 200 pre-programmed TMO groups);
- b) Semi-duplex and full duplex individual call;
- c) Emergency call;
- d) Full duplex telephone call;
- e) Call in DMO mode (at least 100 pre-programmed DMO groups).

2.4.2. Additional services

- a) TPI, CLIP, DGNA, Late entry, Priority call; Tx inxibit;
- b) Group scanning (minimum 10 groups);
- c) Operation as a "DMO repeater";
- d) Operation as "TMO/DMO and DMO/TMO gateway.

2.4.3. *Data Services* - SDS/SDS-TL, Status messages, IP PDS.

2.5. Mobility

- a) Cell selection/reselection: type 3 or higher (according to the ETSI TETRA 300 392-2 standard);
 - b) Supports multiple networks (MNC) based on a list programmed in the terminal.

2.6. Security

- a) The authentication keys shall be provided in a format that complies with TETRA MoU recommendations. The authentication keys shall be provided respecting the security rules established by the TETRA MoU SFPG recommendations.
 - b) Air Interface Encryption;
- c) Encryption on the radio interface TEA1 (**Terminals shall be supplied with the TEA1 algorithm**);
 - d) Security class: class 1 (Clear), class 2 (SCK) and class 3 (DCK and CCK);
- f) Disable/Enable terminals (Remote disable/enable).

2.7. Other features

a) Transmission inhibition in special environments (function to prevent transmission in sensitive areas to radio frequencies).

3. Specific technical requirements for the mobile TETRA terminal

3.1. Nominal power supply conditions:12 V DC

3.2. User interface (MMI)Display

- color display, number of display colors: minimum 65K;
- backlight, flip screen, large icons and scalable text font options;
- multiple display languages, user selectable;
- indicators displayed on the display for working modes (eg: TMO, DMO, Tx inhibit, etc.);
 - menu navigation with intuitive operation
 - A) Keypad alphanumeric keypad;
 - menu navigation keys;
 - emergency call initiation button/key;
 - button/key for group selection;
 - volume button/key.
 - B)phonebook (tel. no. + private no. up to. 1000 contacts);
 - easy calling (e.g. by searching in the phone book, the last dialed numbers, etc.)
 - a) <u>Interfaces:</u>

- for connecting audio accessories;
- $\ multifunctional \ interface \ for \ programming/data \ transmissions/AT \ commands.$

3.3. Integrated GPS receiver

- a) The TETRA mobile terminal shall be equipped with an integrated GPS receiver with the following specifications:
 - satellites received simultaneously: minimum 10;
 - sensitivity: min. 152 dBm;
 - precision/accuracy: max 5 m.
 - b) The TETRA mobile terminal shall support the ETSI LIP protocol.
- c) The TETRA mobile terminal shall support simultaneous location data transmission (from the user's point of view) using the TETRA Packet Data service.

4. Accessories and installation kit

For each terminal the Seller shall provide accessories and installation kit. These shall include:

- standard microphone with PTT and fixing support;
- speaker with connecting cable and fixing support;

- power cable with fuse and suitable connectors (adapted to practical situations);
- fixing support in the vehicle;
- omnidirectional car antenna, band 380...400 MHz, VSWR<1.5 in the band of interest, impedance 50 ohms, type of fixation on the body, provided with an installation kit (fixation, RF cable, connectors, etc.);
- converter from 24V DC to 12V DC (if the voltage available on the vehicle requires it);
- active GPS antenna integrated on the same support as the UHF antenna, band 1.5...1.6GHz, VSWR<1.5 in the band of interest, impedance 50 ohm, type fixing on the vehicle chassis body, provided with an installation kit (fixing, RF cable, connectors, etc.).

5. Terminal installation:

- The contractor shall carry out the installations of mobile TETRA terminals;
- The installation shall be based on a prototype installation agreed between the Contractor and the Beneficiary;
- The installation of the equipment (radio terminal and accessories), the DC power supply solution, the RF and DC cable routes, the power supply solution, shall be established/carried out on the basis of solutions coordinated with the Beneficiary as well as with the manufacturer (official representative) of the vehicle so as not to affect the warranty for the vehicle;
- All installations shall allow easy access to the radio unit of the terminal so that the beneficiary can program the terminal without being removed from the vehicle.

Technical Specification

"Portable (handheld) TETRA radio terminals"

1. Interoperability

All the terminals offered shall be compatible with the services available on the operational TETRA system infrastructure in the Republic of Moldova

2. Applicable technical requirements

2.1. Environmental Requirements

The offered TETRA terminals shall have the following environmental characteristics:

- Operating temperature: -30 / +70° C
- Humidity: ETSI 300 019-1-7 CLASS 7.3E
- Shocks and vibrations: ETSI 300 019-1-7 CLASS 5M3
- Dust and water ingress protection: IP 65/66/67

2.2. RF

The offered TETRA terminals shall have the following RF characteristics:

a) RF band (TMO&DMO): 380-400 MHz
 b) Modulation: π/4 DQPSK
 c) Receiver: Class A şi B

d) Power Tx terminal: adjustable in steps up to **1.8W** (class **3L**);

2.5. TETRA services and functionalities

2.5.1. Voice services

- a) Group call (minimum 200 pre-programmed TMO groups);
- b) Semi-duplex and full duplex individual call;
- c) Emergency call;
- d) Full duplex telephone call;

- e) Call in DMO mode (at least 100 pre-programmed DMO groups).
- 2.5.2. Additional services
- a) TPI;
- b) CLIP;
- c) DGNA;
- d) Late entry;
- e) Priority Call;
- f) Group scanning (minimum 10 groups in scanning);
- g) Operation in "repeater" mode;
- h) Operation in "gateway interface" mode.

2.5.3. Data Services

- a) SDS/SDS-TL;
- b) Status messages
- c) IP PDS;
- d) AT Commands.

2.6. Mobility

- a) Cell reselection: type 3 or higher;
- b) Supports multiple networks (MNC) based on a list programmed in the terminal.

2.7. Security

- a) The authentication keys shall be provided in a format that complies with TETRA MoU recommendations. The authentication keys shall be provided respecting the security rules established by the TETRA MoU SFPG recommendations;
 - b) Air Interface Encryption;
- c) Encryption on the radio interface TEA1 (**Terminals shall be provided** with the **TEA1 encryption algorithm**).
- d) Security class: class 1 (Clear), class 2 (SCK) and class 3 (DCK and CCK);
- f) Disable/Enable terminals (Remote disable/enable).

2.8. Other features

a) Transmission inhibition in special environments (function to prevent transmission in sensitive areas to radio frequencies).

3. Connectivity

3.1. Wi-Fi

- supported IEEE Standards 802.11 a, b, g, n, ac;
- Wi-Fi bands: 2.4GHz and 5GHz;
- authentication and encryption;
- security TLS 1.2.

3.2. Bluetooth

- supported versions: at list Bluetooth 4.0, and 2.1;
- headset profile (HSP), fast PTT with accessories.

4. User interface (MMI)

- a) Display
- color screen with the possibility of rotating the image;
- color display minimum 1.7 inches;
- backlight, flip screen, large icons and scalable text font options;
- multiple display languages, user selectable;
- indicators shown on the display for working modes (eg: TMO, DMO, etc.);

- menu navigation with intuitive operation.
- b) Keypad
- alphanumeric keypad;
- menu navigation keys;
- emergency call initiation button/key;
- button/key for selecting group and volume;
- user configurable one touch buttons and keys;
- keypad lock.
- c) Phonebook
- phonebook (tel. no. + private no. up to 1000 contacts);
- easy dialing (e.g. by searching in the phone book, the last dialed numbers, etc.)
- d) Audio & programming interface/data transmissions
- audio amplifier and speaker (the amplifier and speaker shall have sufficient power to ensure the terminal is usable in noisy environments);
- audio mode: loudspeaker/discrete (loud/discrete) selectable from the MMI. The audio volume shall be controllable from the MMI;
 - possibility of using audio accessories;
 - multifunctional interface for programming/data transmissions;
 - supports Over-The-Air Programming.

5. Integrated GPS receiver

- a) The portable TETRA terminal shall be equipped with an integrated GPS receiver with the following specifications:
 - satellites received simultaneously: minimum 8;
 - sensitivity: min. 163 dBm;
 - precision/accuracy: max 5 m (50% probability);
 - b) Active GPS antenna, integrated in the TETRA antenna or in the terminal;
 - c) The TETRA portable terminal shall support ETSI LIP.

6. Battery

- a) Battery type: Lithium-Ion or Lithium-Polymer;
- b) Capacity: minimum 1950 mAh;
- c) Autonomy for mode 5/5/90 (Tx/Rx/Standby): ≥ 18 hours.

7. Accessories

Each terminal shall be supplied with the following accessories:

- compact RF Antenna;
- handsfree accessory with integrated microphone, loudspeaker and PTT button, equipped with a rotating clip for attachment to the lapel;
 - clip for fixing the portable terminal to the belt;
 - dual charger for simultaneous charging of terminal and battery (EU plug);
 - vehicle charger;
 - spare battery with specifications according to point 6.

I. Terminal programming and general requirements for all TETRA radio terminals

(for vehicle and handheld terminals mentioned)

1. Programing

- 1.1 The programming of the TETRA terminals shall be possible by the Beneficiary through a PC/laptop equipped with a USB port.
- 1.2 A programming set shall be provided for the entire quantity of TETRA mobile terminals. This shall contain all the necessary elements for programming the

TETRA mobile terminals provided, namely:

- USB programming cable;
- programming application (including radio software versions);
- the license/hardware key for the programming application (if applicable);
- for the programming application, the User Guide shall be delivered,

which shall include the description of how to install and operate the application, in English;

For TETRA terminals, an instance of the software application and/or hardware device shall be provided for uploading the authentication/encryption keys (**only if the TETRA radio communication system administrator does not have such software/hardware products**), so that the keys authentication/encryption can be loaded by the Beneficiary on any of the types of terminals provided. If uploading authentication/encryption keys is done with a software application, it shall work on any PC/laptop with Windows 10/11 64-bit operating system.

2. General requirements

- 2.1 The terminals shall be programmed by the Beneficiary with the support of the Seller, in collaboration with the administrator of the TETRA radio communication system, in which they are to be integrated. The Bidder undertakes that, at the Beneficiary's request, it shall provide technical assistance free of charge, whenever necessary, during the entire programming period of the terminals, including the phase of entering the authentication/encryption keys, respectively of registering the terminals in the TETRA infrastructure.
- 2.2 The delivered products shall be new and unused. Equipment declared by the manufacturer as EoS (End of Sale) or EoL (End of Life), or to be declared as EoS or EoL in the year of purchase, shall not be accepted.
- 2.3 Any software/firmware license required for the operation of the equipment according to the technical specifications within this specification shall be provided and included in the equipment price
- 2.4 Any material or accessory, device or sub-assembly and any other similar materials, which are necessary for the correct installation and operation at the parameters specified in this specification shall be considered a priori requested, and the equipment shall be delivered with all of them.
 - 2.5 A user manual in English shall be provided for each portable terminal.

3. Warranty

The warranty for the supplied equipment, including its accessories, of 24 months from the date of final acceptance.

4. Abbreviations for all TETRA radio terminals:

AL - Ambience Listening

ARL - Automatic Resource Location AVL

- Automatic Vehicle Location

CLIP - Calling Line Identification

Presentation DGNA - Dynamic Group

Number Assignment DMO - Direct Mode

Operation

DTE - Data Terminal Equipment

ETSI - European Telecommunications Standards

Institute GC - Group Call

GPS - Global Poitioning System IC

- Individual Call

IP - Internet Protocol

ISCOM - Istituto Superiore delle Comunicazioni e delle Tecnologie deirinformazione (Italian Ministry of Communications Laboratory)

LIP - Location Information Protocol MCC

- Mobile Country Code

MNC - Mobile Network Code

MoU - Memorandum of Understanding PC

- Personal Computer

PDS - Packet Data Services

PEI - Peripheral Equipment

Interface PIN - Personal

Identification Number PTT - Push

To Talk

PSU - Power Supply Unit RF

- Radio Frequency Rx -

Receive

SDS - Short Data Services

SFPG - Security and Fraud Prevention

Group ST - Technical Specification

SwMI - Switching and Management Infrastructure

TEA - Tetra Encryption Algorithm

TETRA - Terrestrial Trunked

Radio TL - Transport Layer

TMO -Trunk Mode Operation

TPI - Talking Party Identification
Tx - Transmit
URL - Uniform Resource Locator
V+D - Voice + Data
VSWR - Voltage Standing Wave
Ratio WAP - Wireless
Application Protocol

WARRANTY IVECO AND WIZZ	5 years or 150 000 km
Post-Warranty	10 years
Place of delivery	Republic of Moldova, Causeni city, Mihail Kogălniceanu
Flace of delivery	street no. 11, beneficiary's headquarters.
Terms of delivery:	no later than 01.11.2026
Offer validity:	120 days

e-mail: easttest@mtc.md

e-mail: iveco@mtc.md

Mob:+37369087228 iveco.md

wiss.com.pl