





Załącznik nr 5

Specyfikacja Techniczna (Technical Specification)

Postępowania nr EU/39/FL/ZZ/2025 o udzielenie zamówienia w trybie przetargu nieograniczonego na dostawę Układarka 25 Ton sztuk 1 w ramach projektu pt:

"Wyposażenie_terminalu intermodalnego BCT w nowoczesne urządzenia przeładunkowe "

w ramach inwestycji E2.1.3 "Projekty intermodalne" Krajowego Planu Odbudowy i Zwiększania Odporności Projekt nr KPOD.09.09-IW.02-0033/24

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Baltic Container Terminal Ltd.

Technical Specification for the supply of High-Capacity Forklift Truck

Approved by Head of Engineering

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HIGH-CAPACITY FORKLIFT TRUCK SPECIFICATION - OVERVIEW

PROJECT

Supply of the following equipment defined within the Technical Specification:

One (1) HIGH-CAPACITY FORKLIFT TRUCK

CAPACITY

Rated load 25 MT Load center (measured from the front of forks) 1200 mm

DIMENSIONS

Mast Standard duplex

Mast tilt, forward - back min 5-10°
Mast height lowered max 4000 mm
Free lift 0 mm

Lift height min

Maximum height mast extended

O fill 1

4000 mm

max 6000 mm

SPEEDS

Travel speed min 20 km/h

TYRES

Tyre type pneumatic

ELECTRICAL SYSTEMS

Main Voltage 24V

Forklift monitoring On-board and remote

ENGINE

Type of engine diesel Euro Stage -V /according to regulations/

Automatic engine oil refill system yes

FEATURES

Engine block heater heater 230 V external supply

SITE CONDITIONS

Ambient Temperature range -25°C to +45°C

Humidity up to 95%

In Service Wind sustained 22m/sec, gust 25m/sec

DEFECT LIABILITY PERIODS (DLP)

Entire forklift & accessories after taking-over 2 Years Structure 5 Years

Components repaired during DLP 1 Year or balance of DLP

Software upgrades Throughout DLP

Paint 5 Years Galvanizing 5 Years

CARRIAGES

Forks with Terminal West mounting or similar yes

Forks dimensions 250x110x2400 mm

Fork positioning and side-shift yes Independent fork positioners (fork moved individually) yes Additional hydraulic outlet 1 unit for add. equipment yes Multi-purpose quick-disconnect sys. for hydraulic yes

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CABIN

Air conditioning / heating yes Noise level inside max 72 dB Bracket for communication radio 12V DC inverter, 2 pcs 12 V sockets 1 pc 24 V sockets yes Hour meter yes Pneumatic suspension seat, 2 points safety belt + heating yes Weight indicator in display yes Two external mirrors placed on cab yes Operation panel with main working parameters yes

LIGHTS

Working lights

- mast	2 pcs
 front drive lights on the front fenders 	2 pcs
- rear work/drive lights	2 pcs
Orange flashing beacon, on the cab roof.	1 pc
Direction indicators with warning switch	4 pcs
Light and acoustic signal for revere drive	yes

OTHERS

OTHERS	
Central auto lubrication system steering axle/carriage	yes
Fire extinguisher	5 kg
Hydraulic accumulator/damping for lifting function	yes
Wheel nut protection steering wheels	yes
Ultrasonic/ radar rear sensor and camera + 360 deg	yes
General arrangement drawing of the Forklift	yes
Operator manual in Polish and English	2+1 copies + electronic version
Maintenance manual in Polish and English	2+1 copies + electronic version
Spare parts catalogue in English	2 copies + electronic version
Hooking points for easy lifting	4 pcs

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1 FORKLIFT TECHNICAL SPECIFICATION

GENERAL TECHNICAL SPECIFICATION

1.1 MATERIALS

- 1.1.1 Materials used in the forklift shall be new and of the best quality, suitable for the duty.
- 1.1.2 Materials shall be free from flaws. All castings shall be smooth, sharp and free from blowholes, with ample fillets, and correctly centralized cores. All structural sections and plate shall be free from scale.
- 1.1.3 No plates, flat bars or angles used in load bearing structural members, including platform supports, shall be less than 6mm thick.

1.2 WORKMANSHIP

- 1.2.1 Workmanship shall be of the highest standard
 All plates, sections, etc. shall be straightened or curved as may be required by pressure and not by hammering.
- 1.2.2 Burrs on all material shall be removed before painting. Screw threads shall be accurately produced in accordance with designer's specification and classification.

1.3 QUALITY CONTROL AND INSPECTION

- 1.3.1 The manufacturer shall submit evidence that a formal system of quality control is applied to all purchased materials and equipment.
- 1.3.2 Reasonable access shall be provided by the manufacturer to the Purchaser's inspecting authority which may be requested to attend the manufacturer's works, or works of the manufacturer's sub-contractors, during construction.
- 1.3.3 Load tests shall be carried out prior to shipment. Notwithstanding this the unit will again be checked and will undergo a full operational inspection including proof load test on arrival at the Purchaser's site.
- 1.3.4 The following definitions determine the extent to which substitutions may be produced.
 - "OR APPROVED EQUAL" material, products, or service require approval by addendum prior to the proposal due date. Materials, products or services which the Vendor proposes to substitute, and which he/she considers equal to those specified, must be submitted to the Purchaser, Baltic Container Terminal (BCT), Head of Engineering, not later than 10 days prior to the proposal submittal due date. Requests shall be accompanied by complete technical data and such pertinent information and/or samples as necessary, or as specifically specified, to fully identify and apprise the material, product, or service. Approval of materials, products, or services deemed equivalent will be issued by addendum prior to the proposal submittal due date.

"OR EQUAL" materials, products, or services do not require approval prior to the proposal submittal due date. Materials, products, or services which the Vendor proposes to substitute and which he/she considers equal to those specified shall be submitted to BCT, Head of Engineering for approval. The proposed substitution shall anticipate necessary lead-time required for approval by the Terminal and procurement by the vendor. Such submittal shall be accompanied by complete technical data and such pertinent information as necessary to fully identify and appraise the material,

product, or service. No increase in the contract price or time will be considered when substitution is not approved.

2 MECHANICAL TECHNICAL SPECIFICATION

2.1 MECHANICAL DESIGN

This section covers the provision by the Contractor for all labor and materials supplied:

- 2.1.1 to design, manufacture, ship and install the necessary mechanical materials, equipment and appurtenances.
- 2.1.2 to shop test as far as practicable and to field-test the entire mechanical equipment of the forklift.

2.2 GENERAL

- 2.2.1 Responsibility for the reliable operation of the equipment in accordance with the requirements of this Specification shall be borne entirely by the Contractor. The Contractor shall demonstrate with his drawings and specifications and with the required tests that the equipment is capable of performing all of the required functions with minimum of downtime.
- 2.2.2 The mechanical equipment shall be designed to be fully capable of operating the Forklift reliably at the specified requirements on a continuous duty cycle, safely with minimum noise, vibration and maintenance.
- 2.2.3 All parts of the mechanical equipment shall be designed so that they may be easily assembled, adjusted, removed for replacement and easily accessible for lubrication, inspection, maintenance, and repair. Emphasis shall be placed upon quick replacement of faulty or worn parts as opposed to repair in place. Where necessary for access, permanent platforms, walkways, handrails, stairways and ladders shall be provided.
- 2.2.4 The design shall be system safe as far as practical so that the failure of a component or loss of power precludes accidental lowering or coasting out of control.
- 2.2.5 Parts, components, and purchased sub-systems shall be readily accessible in the country of operation.
- 2.2.6 All materials shall be identified by reference to the specification of an internationally recognized standard association with indication of equivalence to a local standard where applicable.

2.3 DESCRIPTION OF WORKS

2.3.1 The Forklift shall comply with the requirements of the European Machine Guidelines, particularly Machinery Directive 2006/42/EC, Technical Specifications ,appropriate National and Local Standards, Statutory Orders, Regulations, Acts and Codes that apply. The forklift have to be provided with a declaration of conformity and the CE marking and symbol according to the relevant annexes of the Machinery Directive.

2.4 AREA OF USE

2.4.1 The forklift will be required to operate only within the confines of the Purchaser's port boundaries.

2.5 GENERAL DESCRIPTION

- 2.5.1 The forklift shall be designed as a container-handling unit for heavy-duty terminal applications. It shall be mounted upon pneumatic rubber-tired wheels and shall be powered by a diesel engine via an automatic transmission unit. It shall be complete with a single forward facing, forward control, fully enclosed central placed drive cab.
- 2.5.2 The design of the forklift shall recognize that the machine will be subjected to an arduous duty cycle. Particular attention shall be given to maintainability.

The forklift will be operating continuously with utilization up to 70%, 7 days per week operation interrupted only as required for Contractors recommended maintenance.

2.6 STRUCTURE

- 2.6.1 The forklift shall be constructed from standard hot-rolled steel sections. The steel grades shall be of weldable quality not requiring special temperature conditions for repair works.
- 2.6.2 The structure shall be so designed that water pockets are not formed in any member or by the inter-section of members and be such that there shall be no unsealed blind areas where paint cannot be applied. Adequate drainage holes shall be provided to discharge water clear of the structure in all cases where there is a tendency for water to collect.

2.7 LOAD CAPACITY

2.7.1 The forklift shall be designed to lift a gross weight of 25,000 kgs

2.8 SPEED OF OPERATION

2.8.1 Unladen

The maximum speed when traveling unladen shall be 25kph.

2.9 OPERATORS CABIN

- 2.9.1 The forklift shall be provided with a weather-tight, totally enclosed, forced ventilated, air conditioned, single man, forward facing, forward control, center placed drive operator cabin, robustly designed and constructed to provide the Operator with a safe, practical and efficient working environment.
- 2.9.2 The air conditioning unit shall be sized to maintain internal cab temperature of 20°C maximum under all external ambient temperature conditions up to and including 45°C. An adjustable thermostat, within reach of a seated operator shall be provided.

2.9.3 Access

The cabin shall be equipped at least with a side door opening onto an access platform

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2.9.4 Mountings

The cabin shall be isolated from the engine compartment and the forklift chassis. To provide access required to maintain and or remove the engine and transmission easily, the cab shall be arranged to tilt forward by 45 degrees. The tilting mechanism shall be an electric over hydraulic pump system.

2.9.5 Noise Level

The maximum noise level at the operator's head level shall not exceed the following decibel levels at the defined governed engine speeds with the forklift stationary on either concrete or asphalt pavement:

i) At operator's head level with doors and windows closed

In operator's cabin – engine idle speed max 68 db (A)
In operator's cabin – engine governed speed max 72 db (A)

These noise levels shall be the maximum levels occurring while the forklift is operating on either a concrete or asphalt surface.

The combination of sound insulation, covering material and associated adhesives shall comply with local Health and Safety Requirements and the Contractor shall state the classification of this combination.

2.9.6 Windows

The cabin shall be fitted with fixed laminated front, rear and roof screens, door and offside sliding windows mounted in rubber. All windows should be equipped with sun visors.

2.9.7 Windscreen Wipers and Washers

Electrically operated, self-parking windscreen wipers shall be provided for the front, roof and rear windows.

2.9.8 Seat

An air suspended seat approved by Purchaser unit shall be fitted which has adjustments for height, distance from the front window, angle of squab, back rest and degree of suspension. The seat shall be covered and ventilated, non-slip type material.

2.9.9 Mirrors

A rear view mirror shall be provided inside the cabin together with two external heavy duty glass mirrors mounted on robust brackets one each side of the cabin (mirrors 400 mm H x 175 mm W minimum view) to provide a clear view along both sides of a connected terminal trailer. Mirrors should be equipped with heating system

2.9.10 Air Conditioning and Ventilation

An adequate system of air conditioning and ventilation shall be provided such that the temperature inside the cabin can be maintained at 20°C in ambient temperature up to 40°C.

Air-flow shall be arranged such that de-frosting and de-misting operations may be efficiently carried out on all primary windows.

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2.9.11 Controls and Instruments

The Operator's cabin shall be equipped with the following controls, instruments and warning alarms as a minimum requirement:

Engine Gauge and Warning Panel:

Coolant Temperature Gauge Oil Pressure Gauge

Speedometer in KPH

. Tachometer

Air Pressure

Transmission Temperature

Engine Oil Temperature

Fuel Gauge

Air Diffuser Control

Headlight Switch

Panel Lights Dimmer

Water in Fuel

Service soon Indicator Light

Wait to Start Indicator Light

Check Engine Indicator Light

Stop Engine Indicator Light

LH Turn Signal Indicator Light

Low Fuel Level Light

Headlight High Beam Indicator

Reversing Alarm

Hour meter (non-resettable)

Remote monitoring system Activation

USB port for downloading data log and software updates (if applicable)

Cab Control Panel:

Voltmeter

Hour meter

Floodlight Switch

Ignition Switch

Heater Controls

Hi Beam Indicator Light

RH Turn Signal Indicator Light

Heater Fan Control

Transmission Temperature Indicator Light

Brake Air Indicator Light

Wipers Switch

Hazard Light Switch

Horn

Air Conditioning Controls

Switch lock and indicator light for active tilt boom system

Gearshift lever on the right side of the steering column

The accelerator pedal on the right side of the steering column

The brake pedal on the left side of the steering column

Brake Control Panel:

Standard Air Gauge Forklift Park Control

Operations Panel: PTO/Air PTO Control

Warning alarms:

High water temperature buzzer
Low coolant level warning light and buzzer
Low engine oil level warning light and buzzer
Low engine oil pressure light and buzzer
Low air pressure light and buzzer
Low fuel level indicator light and buzzer

All warning alarm indications shall be mounted in the dashboard and grouped together whereby all the warning lights and labeling can be easily read and identified by the operator without movement of his head away from the front windscreen.

2.9.12 Flooring

To be designed to promote cleanliness by the elimination of recesses into which debris is likely to collect and where ribbed flooring is used to ensure that the ribs can be swept easily towards the door of the cabin.

2.9.13 Mobile Radio and Terminal RF Supply

Permanent mounting shall be provided inside the drivers' cabin at the front right hand side at roof level in order that Vendor can install a mobile communications radio unit. The enclosure shall permit a radio with the following maximum dimensions, H 6cm x W 19m x D 26cm, to slide into position and allow electrical connections to be made at the rear.

A regulated two Power Supply within the range 12 to 13.6 Volts DC (Negative Ground) shall be installed and protected through an appropriately sized circuit breaker. A cable shall be routed from a dedicated Circuit Breaker to the radio enclosure. Current drain characteristics for this type of radio equipment shall not exceed 10 Amps.

An aperture shall be provided at or near radio location for installation of coaxial R 58 cable connecting to an externally mounted aerial. Aperture shall be fitted with appropriate waterproof fitting ready for acceptance of coaxial cable. Both Radio and RF will be delivered by Purchaser mounted by the Vendor.

Both Radio and RF will be delivered by Purchaser mounted by the Vendor.

2.9.14 Additional Fitments

- Strobe Light with amber lens strobe shall be fitted to the top of the cabin.
 Vertical light shall be restricted by an overhead shield to prevent glare for Operators.
 Working lights:
 - mast 2 pcs
 - front drive lights on the front fenders 2 pcs
- ii) Floodlight mounted rear work/drive lights 2 pcs .
- iii) Fire extinguisher one (1) ABC powder type fire extinguisher of 2 kg capacity shall be mounted inside the cabin.
- iv) Direction indicators with warning switch 4 pcs
- v) Light and acoustic signal for revere drive

2.10 ENGINE

- 2.10.1 The engine shall be in accordance with applicable in force emission standards and in full compliance with all latest Site, Region and/or Country environmental regulations applicable today and in near future, known to be applicable in warranty period.
- 2.10.2 The forklift shall be powered by a diesel engine appropriately rated to provide continuous operation according to the specification hereby defined.
- 2.10.2 Exhaust shall be heavy-duty upswept type manufactured from stainless steel.
- 2.10.3 The engine shall be fitted with automatic shutdown "safety circuits" in event of loss of oil pressure, low coolant level or high water temperature. The system shall be "circuit safe" whereby interruption of an electrical signal will identify an unhealthy condition and shut down the engine. Indicators shall identify the reason for shut down and remain illuminated after the engine has stopped. A reset push button, out of the operator's cabin, will permit the engine to be restarted for troubleshooting purposes.

2.11 FUEL TANK

2.11.1 A fuel tank shall be provided giving good access for refilling and maintenance yet suitably protected against impact damage. A strainer shall be incorporated into the filler neck and an inspection plate which will permit access for cleaning inside the entire tank. The capacity of the tank shall be minimum 100 liters. An easily accessible water trap shall be provided in the fuel line designed to collect all impurities before the fuel reaches the injectors. The diameter of the fuel filler should be 70 mm.

2.12 TRANSMISSION/TORQUE CONVERTER

- 2.12.1 The forklift shall be fitted with fully automatic transmission system incorporating a torque converter giving minimum 3 speeds 'forward' and minimum 1 speed 'reverse'.
- 2.12.2 Convenient access to the dipstick/filler shall be provided. Oil cooling shall be provided.
- 2.12.3 An inhibitor shall be fitted to prevent reverse direction selection whilst road wheels are rotating forward (and vice versa).

2.13 AXLES AND SUSPENSION

2.13.1 Front axle

Heavy duty axle with reduction drive axle incorporated within the forklift chassis frame

2.14 WHEELS AND TIRES

2.14.1 Spigot mounted wheels shall be supplied for both front and rear assemblies. The Contractor shall determine the tire/rim size to suit the duty specified. Each forklift must be delivered with a complete spare wheel.

2.15 BRAKING SYSTEM

2.15.1 Normal service braking



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2.15.2 Parking and Emergency braking

Dry disc parking brake mounted on drive shaft, spring loaded, off when signal from ECU

2.16 BODYWORK

- 2.16.1 Heavy duty rolled steel sections and steel plate covers shall be provided to give full all round mechanical protection to the chassis members and to the side fittings such as air reservoirs, fuel tanks, batteries and hydraulic tanks.
 - Where steel plate covers are used to protect components, which require regular inspection, maintenance or replenishment then a means of easy access shall be provided. Particular care shall be given to the selection of hinges, which may be subjected to wear or corrosion because of the prevailing conditions.
- 2.16.2 Access, platforms, stairways and handrails shall comply with European Machinery Directives and European Standard EN 13586:2009-05.
- 2.16.3 All horizontal steel cover plates, which may be used for access, shall be treated with a proven, durable anti-slip surface.
- 2.16.4 Built-in recesses and/or steps shall be provided for access to and from ground level and where required corrosion resistant 'hand-holds' shall be fitted.
- 2.16.5 Where sections of the engine exhaust system are adjacent to an access route or where they may be used as handholds then substantial temperature shielding shall be provided.

2.17 MUDGUARDS

2.17.1 Mudguards shall be fitted over both front and rear wheels.

2.18 TOWING FACILITIES

2.18.1 The forklift shall be provided with towing facilities at rear

3 ELECTRICAL SPECIFICATION

3.1. ELECTRICAL SUPPLY SYSTEM

The electrical system shall be designed and installed in compliance with Society of Automobile Engineers current standards.

3.1.1 Supply Capacity

A 24 volts D.C. supply system shall be provided by adequately sized two 12 volt batteries each with a minimum inrush current of 140 Ampere.

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3.1.2 Isolation Switch

A battery isolation switch shall be provided in an accessible and clearly marked position outside the cabin.

3.1.3 Lighting

The headlights shall be of highway standard. Stop and tail lights incorporating reflectors shall be all wired through the key switch.

The head lamps shall be able to withstand the vibration encountered in this type of operation.

Directional indicators, flashing type front and rear.

Cabin interior dome light shall be of the type which has the lens secured by recessed Allen screws.

All externally mounted driving lights shall be recessed into the structure and protected against impact damage.

Anti-theft mountings shall be provided where practical.

3.1.4. Audible Alarms

- i) Electrically actuated, pneumatically operated warning horn shall be provided.
- ii) An electrically operated audible reversing alarm shall be fitted which shall be automatically actuated when 'reverse' gear is selected.

3.1.5. Strobe Beacon

An amber, cab-roof mounted, rotating beacon shall be supplied complete with an overhead shield, mounted to withstand vibration.

3.1.6. Wiring

Electrical Wiring shall be designed and installed according to National and Local Standards, Statutory Orders, Regulations, Acts and Codes that apply in compliance with the following recommended practice, inclusive of color code & circuit identification.

4 HYDRAULIC SYSTEM

4.1. HYDRAULIC SYSTEM

4.1.1. Pump

Main hydraulic system pressure shall not exceed 20 MPa. The hydraulic system shall consist of one separated pump. To ensure safe maneuverability at all moments, priority supply while forklift is driving shall be directed to the steering system.



5 PAINTING SYSTEM

5.1. PAINTING SYSTEM

- 5.1.1 During construction and after fabrication has been completed, the forklift shall be thoroughly cleaned and painted in a manner as specified using paint products approved by the Purchaser and in accordance with paint manufacturer's instructions.
- 5.1.2 Painting system shall be suitable for "Exterior exposed polluted coastal atmosphere" and in accordance with the following standard or equivalent:

Typical time to first maintenance 10 years.

5.1.3 Color

The color scheme for the forklift shall be:

i) Chassis including bumpers

Traffic Orange RAL 2009

- ii) Operator's Cab as per manufacturer standards Refer to Appendix Two for details of paint scheme, Purchasers logo and asset number location.
- 5.1.4. Logo and Identity Number

The Purchasers Logo to be applied as defined in Appendix Two

Plant Identity Numbers shall be applied as shown in Appendix Two.

Note: Exact location of logo and plant numbers may vary according to forklift design, but the contractor shall submit drawings to Purchaser for approval.

6 SAFETY, INSPECTION, DRAWINGS AND MAINTENANCE MANUALS

6.1. SAFETY PROVISIONS

6.1.1 In the design and construction of the forklift, all local safety legislation shall be observed.

6.2. INSPECTION

- 6.2.1 Contractor shall submit a "Tests on Completion" schedule 4 weeks prior to "in house" testing for Purchasers review.
- 6.2.2 The Purchaser may carry out of inspections prior to and during manufacture at the Contractor's works either with one of his own inspectors or by an outside appointed inspector. The contractor shall allow access for the purpose of these inspections.

6.3. DRAWINGS

6.3.1 On completion of the contract, a copy of 'as made' drawings shall be supplied on disc or CD in PDF Format, and copies of spare part schedules shall be supplied at the Contractor's expense to the purchaser within one month of Completion.

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- 6.3.2 The drawings shall include such details as:
 - i) Circuit diagrams, wiring diagrams and schematic diagrams of all electrical equipment.
 - ii) Hydraulic schematics, piping diagrams.
 - iii) Fully dimensioned detail drawings of all major components and assemblies.
 - iv) General Arrangement of the forklift.

6.4. MAINTENANCE AND OPERATION MANUALS

- 6.4.1 Good quality printed maintenance instruction manuals per contract in English and Polish language covering in detail the operation and maintenance of the forklift shall be provided immediately prior to Acceptance Testing. A PDF copy of the maintenance manual shall also be provided separately.
- 6.4.2 The following shall be included in the Maintenance Manual:
 - i) Index.
 - ii) Full technical specification and detailed description of the terminal forklift as a whole and of each item of machinery and equipment for guidance of the maintenance staff and management. Where the Contractor's standard published literature is used, it shall be suitably edited to delete irrelevant information.
 - iii) General arrangement and layout drawings in PDF format schematic diagrams for power and control circuits whether electrical or hydraulic etc. The control sequence shall be fully described. General arrangement drawings shall show all leading dimensions, and a visual chart of safe working loads.
 - iv) Performance characteristics, copies of Works and Site Test Certificates, recommended settings of adjustable features, necessary.
 - v) Recommended schedules and programs for inspection, lubrication and routine maintenance. Lubrication charts and specifications. Full technical details for operation, adjustment, maintenance and testing of equipment and control.
 - vi) A means shall be provided for systematic trouble shooting, to enable detection and analysis of faults, with recommendations as to dealing with different types of problems likely to arise. This shall take the form of a compendium of cause/effect/solutions based upon experiences reported by users of the equipment split between electrical and mechanical systems.
 - vii) Dismantling, repair, assembly, setting up and testing procedures and instructions, including electronic 'black box' units, for the whole of the equipment being purchased, fully illustrated. These shall include exploded views of all main components with part numbers shown to assist in dismantling and re-assembling complicated items and for identifying replacement parts.
 - viii) Spare parts lists, Contractor's part numbers and the actual source manufacturers (if applicable), part numbers, together with source manufacturers address for ease of cross reference identification when ordering.
 - ix) Special tools and instruments required, if any, for testing, maintenance and repair work.

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- x) Description of special safety features such as safety interlocks; limits; indication; warning and cut-out devices, etc. Testing adjustment and maintenance procedures for such devices and circuits. Special hazards and precautions to be taken by maintenance staff.
- 6.4.3 Two copies of good quality printed Operation Manual per forklift in English and local language /Polish/ covering in detail the operation and maintenance of the forklift shall be provided immediately prior to Acceptance Testing. A PDF copy of the maintenance manual shall also be provided separately.
- 6.4.4 The following shall be included in the Operation Manual:
 - i) Index
 - ii) Full technical specification and detailed description of the forklift as a whole and of each item of machinery and equipment for guidance of the Operation staff and management. Where the manufacturer's standard published literature is used, it must be suitably edited to delete irrelevant information.
 - iii) Description of special safety features such as safety interlocks; limits; indication; warning and cut-out devices, etc. Operating procedures for forklift. Special hazards and precautions to be taken by Operation staff.
 - (iv) The operating instruction manual shall clearly state the start-up procedure of every device on the forklift including all bought-in equipment, and all the points to be observed or checked during the start up.
 - (v) Corrections shall be made for any changes made in the instructions during the commissioning period, and the revised instruction books shall be submitted one (1) month after the notification of successful completion

Manuals	Language	Copies / Order
Operators manual	Polish & English	2+1+ e-version
Maintenance manual	Polish & English	2+1+ e-version
Spare parts manual	English	2+ e-version

7 TRAINING

7.1. PRODUCT TRAINING

- 7.1.1 The Contractor shall provide detailed product training for four Purchaser's engineers at the Purchaser's Site for a period of one full working days.
- 7.1.2. The following shall be included;
 - i) Training documentation and or materials as required.
 - ii) Certificate of Attendance for each attendee of manufacturers training completed.
 - iii) Details of course content shall be submitted to the Engineer at least 1 months before the scheduled delivery date.



8 MAINTENANCE TOOLS

8.1 ELECTRICAL/ELECTRONIC TOOLS

(i) Diagnostic tool to communicate with Engine Control Module (ECM) and Transmission Control Module (TCM) shall be provided along with instructions for use.

8.2 MECHANICAL TOOLS

The following mechanical tools shall be provided per contract:

- (i) Plug-in pressure gauges for the Hydraulic System one (1) set.
- (ii) Set of long access Allen and Torx Keys to adjust hydraulic pumps, fit solenoids and maintain other hydraulic components one (1) set.
- (iii) Torque Wrench with socket sets one (1) set.

9 Appendix One - Corporate Livery and Identification

The following paint color scheme based on the <u>RAL</u> standard shall be used for the final finish coat. For comparison, the original register cards issued by RAL shall be the controlling reference.

PAINT COLOR	ITEM	COMMENTS
Supplier colors	Main Cab Structure	Exterior Only
Traffic Orange RAL 2009	Chassis	
Traffic Black RAL 9017	Wheel Rim	

Asset Number and Decals:

Description of Equipment	Purchaser's Asset Number	Comment
Asset Numbers color is Traffic I	Black RAL 9017 in Arial Bold Font	x 250mm High

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