Table of Contents

[I. INFORMATION REGARDING MEETING TECHNICAL AND FUNCTIONALITY CONDITIONS OF THE SUBJECT MATTER OF THE CONTRACT: 5](#_Toc104974881)

[Outer sheath extrusion line 5](#_Toc104974882)

[**1.** **Pay-off device** 8](#_Toc104974883)

[2. Pay-off traverse control unit 10](#_Toc104974884)

[3. System of adjustable rollers before the feeding caterpillar 10](#_Toc104974885)

[4. Feeding caterpillar 11](#_Toc104974886)

[5. Al or Cu foil tape pay-off with necessary equipment 12](#_Toc104974887)

[6. System for laser welding of Al or Cu foil tape 13](#_Toc104974888)

[7. Accumulator for Al or Cu foil tape with necessary equipment 14](#_Toc104974889)

[8. System for forming Al or Cu foil tapes 15](#_Toc104974890)

[9. System for supporting cable core between the pay-off and the crosshead (production without application of Al or Cu foil tape) 16](#_Toc104974891)

[10. Laser system (for monitoring and measurement) 17](#_Toc104974892)

[11. X-ray monitoring and measurement system 18](#_Toc104974893)

[12. Extruders in V-configuration 19](#_Toc104974894)

[13. Crossheads 21](#_Toc104974895)

[14. Cooling troughs – three-zone system 24](#_Toc104974896)

[15. Marking device 25](#_Toc104974897)

[16. Non-contact length measurement (metre) counter 26](#_Toc104974898)

[17. Outer sheath continuity tester 27](#_Toc104974899)

[18. Ink-jet printer 28](#_Toc104974900)

[19. Pulling caterpillar 29](#_Toc104974901)

[20. Hydraulic cable cutters 29](#_Toc104974902)

[21. Take-up devices 30](#_Toc104974903)

[22. Line control 31](#_Toc104974904)

[23. Additional equipment 32](#_Toc104974905)

[24. Materials necessary for installation, start-up and commissioning tests of the line, supervision and start-up to be performed by supplier representatives 33](#_Toc104974906)

[**II.** **FLAT-PRICE** 36](#_Toc104974907)

[**III.** **WARRANTY** 37](#_Toc104974908)

[**IV.** **TIME OF ORDER DELIVERY** 38](#_Toc104974909)

[**V.** **SPECIFY VALIDITY TIME OF THE PROPOSAL** 39](#_Toc104974910)

[**VI.** **STAFF TRANING** 39](#_Toc104974911)

[**VII.** **COUNTRY OF ORIGIN OF THE DELIVERY ITEM** 41](#_Toc104974912)

[**VIII.** **CONSENT FOR PROCESSING PERSONAL DATA:** 42](#_Toc104974913)

[**IX.** **REPRESENTATIONS:** 43](#_Toc104974914)

**Annex no. 2**

**to the Request for Proposal no.:**

**02/POIR.01.01.01-00-0005/20/2022**

 A model form of the proposal and the required statements and declarations including technical specification of the Subject Matter of the Contract

 ...............................................................

 Place and date

PROPOSAL FORM

TENDERER:

|  |  |
| --- | --- |
| Name: |  |
| Address: |  |
| Tax Id. No. (NIP) (if any) |  |
| VAT |  |
| Contact person: |  |
| Position: |  |
| e-mail address: |  |
| Telephone no.: |  |

**CONTRACTING ENTITY**: Tele-Fonika Kable S.A., ul. Hipolita Cegielskiego 1, 32-400 Myślenice

Dear Sir/Madame,

In response to the Request for Proposal of ……… (date), request no. **02/POIR.01.01.01-00-0005/20/2022**

for the design development, delivery and start-up of a new, efficient line for application of outer sheaths on Medium and High Voltage cables including necessary control system, which would have functionality and technical parameters meeting the requirements defined in the table below. The line shall consist of the following components:

- pay-off stand for cable cores

- pay-off traverse control system

- adjustable system of rollers

- Feeding capstan (caterpillar)

- Two pay-off devices for Al or Cu foil tapes

- Laser system for cutting and connecting Al or Cu foil tapes

- Accumulator system enabling connection of Al or Cu foil tapes without the necessity to stop the line

- System for forming Al or Cu foil tapes onto the cable core

- System allowing connection of Al or Cu foil tape overlap on its entire width

- System enabling production of cables without Al or Cu foil tapes

- Monitoring and measurement system enabling measurement of XY axes before and behind the crosshead of the extruder as well as behind the cable cooling section

- X-Ray measurement device placed behind the first cooling zone

- System of extruders enabling single or double layer of the compound.

- Extrusion crossheads including necessary tooling.

- Cooling trough with three-zone heating (gradual decrease of water temperature) equipped with interchangeable air wipes

- Marking device with two heated marking wheels (indent marking with the use of interchangeable engraved segments)

- Non-contact length measurement device

- Voltage tester

- Inkjet Marking System with a printing head

- Pulling capstan (caterpillar)

- Hydraulic cable cutters – 2 pcs.

- Two take-up devices

- Line control system with archiving, trend analysis, and process visualisation

- Additional equipment components

- Materials connected with installation, start-up and commissioning tests. Supervision over the installation and start-up to be performed by line supplier representatives.

# INFORMATION REGARDING MEETING TECHNICAL AND FUNCTIONALITY CONDITIONS OF THE SUBJECT MATTER OF THE CONTRACT:

# Outer sheath extrusion line

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality - Outer sheath extrusion line:** | Information on meeting the functionality parameters**by entering****YES or NO** |
|  | Outer sheath extrusion line for production of MV and HV cables. The line must enable extrusion of PE, PVC, HFFR outer sheath onto cable cores with longitudinally applied Al or Cu tape with copolymer layer closed in the overlap, or directly onto cable cores without the tape. The line must enable extrusion of one or two layers with the possibility of extruding strips in defined colour. The line must enable application of marking on the extruded outer sheath.  |  |
| 1. | Pay-off device on rails with drive and controllable braking force. It must be possible to pull the cable core back.  |  |
| 2. | The system for controlling pay-off traversing.  |  |
| 3. | Set of adjustable rollers |  |
| 4. | Feeding caterpillar for the whole range of diameters and weights of manufactured cables taking into account appropriate tension between the feeding and pulling capstan during production.  |  |
| 5. | Two pay-off devices for Al or Cu foil tapes  |  |
| 6. | Laser welding system for connecting Al or Cu foil tapes  |  |
| 7. | Accumulator enabling connection of Al or Cu foil tapes without the need to stop the line during outer sheath extrusion operation  |  |
| 8. | System for Al or Cu foil tape forming on the cable core |  |
| 9. | System enabling connection of Cu or Al foil tape overlap on its entire width  |  |
| 10. | System enabling production of cables without Al or Cu foil tape |  |
| 11. | Monitoring and measurement system enabling measurement in the XY axes before and behind the crosshead as well as behind the cable cooling section.  |  |
| 12. | X-Ray measurement device placed behind the first cooling zone |  |
| 13. | System of extruders with exchangeable crossheads enabling extrusion of one or two layers of the compound.  |  |
| 14. | Extrusion crossheads with necessary tooling |  |
| 15. | Three-zone cooling trough with gradually decreased temperature equipped with interchangeable air wipes (blowers)  |  |
| 16.  | Marking device with heated wheels (indent marking with interchangeable engraved segments) in two lines (every 180°) equipped with meter counter with automatic length setting of 1m adjusted to the line speed and coding head with possibility to change numbers. Device with adjustable pressing force of printing wheels to the cable surface.  |  |
| 17. | Non-contact length measurement counter  |  |
| 18.  | Voltage tester for verification of outer sheath continuity.  |  |
| 19.  | Ink-jet printer with printing head and automatic nozzle closing system protecting against ink drying out, to be used for printing cable surface.  |  |
| 20. | Pulling caterpillar covering the whole range of diameters and weights of manufactured cables and taking into account necessary tension between feeding and pulling caterpillar during production.  |  |
| 21. | 2 pieces of hydraulic cable cutters with jib crane |  |
| 22. | Two take-up machines installed on rails with traverse system and the device for tension adjustment.  |  |
| 23. | Line control with possibility of archiving, trend analysis and process visualisation.  |  |
| 24. | Necessary additional equipment  |  |
| 25. | Materials necessary for line installation, start-up and commissioning tests. Supervision over installation by supplier representatives, start-up to be performed by supplier representatives. |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – Outer sheath extrusion lines** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering YES or NO)** | Information on meeting the requirement**(enter the parameter value of the offered device)** | Comments(enter if applicable) |
| 1. | Range of cable core diameters (before outer sheath extrusion) | from 20mm to 160 mm |  |  |  |
| 2. | Range of diameters for final cable (after outer sheath extrusion)  | from 25mm to180 mm |  |  |  |
| 3. | Thickness of the first layer | from 0.5mm to 7 mm  |  |  |  |
| 4. | Thickness of the second layer  | from 0.2mm to 4mm |  |  |  |
| 5. | Maximum weight of 1m of cable Minimal weight of 1m of cable | 55 kg/m 2 kg/m |  |  |  |
| 6. | Maximum line speed | 50 m/min |  |  |  |
| 7. | Weight capacity of the pay-off and the first take-up deviceWeight capacity of the second take-up device | 100 t75 t |  |  |  |
| 8. | Range of drum sizes for the pay-off device and the first take-up deviceRange of drum sizes for the second take-up device | Height: 2.8 – 5.0mWidth: 1.8 - 5.0mHeight: 2.8 – 5.0mWidth: 1.8 – 3.9m |  |  |  |
| 9. | Length of the line | approximately 100m- appropriate for the production building |  |  |  |
| 10. | Height of line axis  | 1000 mm |  |  |  |
| 11 | Line direction | Right |  |  |  |
| 12. | Line colours- fixed elements- moving/ rotating elements- panels and control cabinets | Green RAL 6021Yellow RAL 1003Grey RAL 7035 |  |  |  |
| 13 | CE certificate | Yes |  |  |  |
| 14. | Al or Cu tape width Min. – Max. | 100 - 600 mm |  |  |  |
| 15. | Al or Cu tape thickness Min-Max | 0.1-0.3 mm |  |  |  |
| 16. | Operating manuals - language | Polish |  |  |  |
| 17. | Control panel and buttons - language | Polish |  |  |  |

1. **Pay-off device**

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Pay-off device** | Information on meeting the parameter**enter****YES or NO** |
| 1. | Automatic drum lifting and lowering  |  |
| 2. | Possibility of drum changing without the need to stop the line  |  |
| 3.  | Possibility of paying-off the core from the top or the bottom of the drum  |  |
| 4. | Pay-off device with the drive and braking force control |  |
| 5. | Automatic traversing during production  |  |
| 6. | Pay-off control with the use of pendant station or wireless remote control  |  |
| 7. | Drum pusher for 100t drums |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters– Pay-off device** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO**) | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Number of pay-off devices  | 1 piece | …. | …. |  |
| 2. | Range of drum sizes for the pay-off device  | Max. height 5.0mMin. height 2.8mMax. width 5.0mMin. width 1.8m | …. | …. |  |
| 3. | Weight capacity | up to 100 ton | …. | …. |  |
| 4. | Diameters of interchangeable pins  | 123, 138, 178, 198, 248mm | …. | …. |  |
| 5. | Quantity of interchangeable pins  |  2 pcs. per each diameter | …. | …. |  |
| 6.  | Drum pusher for 100 t drum |  1 piece | …. | …. |  |

#  2. Pay-off traverse control unit

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Traversing device** | Information on meeting the parameter**enter****YES or NO** |
| 1. | Pay-off traverse control device  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters- Traversing device** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device**) | Comments(enter if applicable) |
| 1. | Range of core diameter  | 20 - 180mm | …. | …. |  |

#  3. System of adjustable rollers before the feeding caterpillar

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – System of rollers before the feeding caterpillar** | Information on meeting the parameter**enter****YES or NO** |
| 1. | Guiding the cable core from the pay-off to the feeding caterpillar |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – system of rollers before the feeding caterpillar**  | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Quantity | 1 piece(Set) | …. | …. |  |

# 4. Feeding caterpillar

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality– Feeding caterpillar** | Information on meeting the parameter**enter****YES or NO** |
| 1. | Cable core feeding  |  |
| 2. | Keeping uniform tension throughout the whole range of speeds and diameters of cable cores whilst taking into account the cable weight.  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – feeding parameter** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Self-centring roller at the entrance and exit of the caterpillar | 2 pcs. |  |  |  |

#  5. Al or Cu foil tape pay-off with necessary equipment

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Al or Cu foil tape pay-off with necessary equipment** | Information on meeting the parameter**enter****YES or NO** |
| 1. | Foil tape paying-off from the top or the bottom  |  |
| 2. | Adjustable braking force  |  |
| 3. | Pay-off placed in the axis of the production line  |  |
| 4. | Equipment for preparation of the Al or Cu foil tape pay-off for production |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – Al or Cu tape pay-off with necessary equipment**  | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Number of pay-offs (pcs.)  | 2 |  |  |  |
| 2. | Inner diameter of the Al or Cu foil tape pad outer diameter of the Al or Cu tape pad | 150 mm1200 mm |  |  |  |
| 3. | Weight Al or Cu foil tape pad | Max 2500 kg |  |  |  |
| 4. | Width of Al or Cu foil tape rollMinMax  | 100 mm600 mm |  |  |  |
| 5.  | Thickness of Al or Cu foil tape MinMax | 0.1 mm0.3 mm |  |  |  |
| 6. | Device with a special lifting sling for changing rolls – lifting capacity min. 2500kg | 1 pcs |  |  |  |

#  6. System for laser welding of Al or Cu foil tape

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – System for laser welding of Al or Cu foil tape**  | Information on meeting the parameter**enter****YES or NO** |
| 1. | Possibility of cutting and welding with the use of laser beam during the outer sheath extrusion process without the need to stop the line and without losing set technical parameters, i.e. outer sheath wall thickness.  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Item- System for laser welding of Al or Cu foil tape** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Quantity (pieces) | 1 |  |  |  |
| 2. | Width of cut and welded Al or Cu foil tapes | Max 600 mm |  |  |  |
| 3. | Thickness of cut and welded Al or Cu foil tapes | 0.1 to 0.3 mm |  |  |  |

# 7. Accumulator for Al or Cu foil tape with necessary equipment

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Al or Cu foil tape accumulator with necessary equipment**  | Information on meeting the parameter**enter****YES or NO** |
| 1. | Must enable welding the tape during the process of outer sheath extrusion without the need to stop the line and loss of set parameters, i.e. wall thickness of extruded outer sheath  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – Cu or Al foil tape accumulator with necessary equipment**  | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Quantity  | 1 |  |  |  |
| 2. | Accumulator capacity | 100 m |  |  |  |

# 8. System for forming Al or Cu foil tapes

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – System for forming Al or Cu foil tapes** | Information on meeting the parameter**enter****YES or NO** |
| 1. | Possibility of longitudinal forming Al or Cu foil tape with the overlap around the circumference of the cable core  |  |
| 2. | Must be equipped with the device for glue application (Hot Melt – up to 240 °C) in between the tape overlap (or similar equipment enabling gluing the overlap with the stripping force in accordance with the current revision of the IEC 60840) |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters - Al or Cu foil tape forming system**  | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Quantity  | 1 piece |  |  |  |
| 2. | System for fixing the forming device to the tape with the possibility of full range of adjustment (up – down; right– left, angle) | 1 piece |  |  |  |
| 3. | Profile formers for selected cables for the range of diameter from 80mm to 130mm and for commissioning tests | Gradual - every 3 mm20 pieces (sets) |  |  |  |
| 4. | System for fixing three forming dies installed in a sequence with the possibility of whole range of adjustment (up-down, right-left, angle).  | 1 piece(set) |  |  |  |
| 5. | The device for glue plasticising with gear pump, feeding hose and glue applicator. Amount of the glue fed must be synchronised with the line speed.  | 1 piece(Set) |  |  |  |
| 6. | Parameters of the glue plasticising unit  | Glue melt point: 240°C |  |  |  |
| 7. | Feeding nozzles adapted for glue application and the width of the tape overlap:up to 10 mmup to 15 mmup to 20 mm  | 3 pcs. |  |  |  |

# 9. System for supporting cable core between the pay-off and the crosshead (production without application of Al or Cu foil tape)

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality– System for supporting cable core between the pay-off and the crosshead (production without application of the Al or Cu foil tape)** | Information on meeting the parameter**enter****YES or NO** |
| 1. | Must ensure appropriate guiding of the cable core  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters - System for supporting cable core between the pay-off and the crosshead (production without application of the Al or Cu foil tape)**  | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Quantity  | 1 piece(Set) |  |  |  |
| 2. | Height adjustment  | 900mm – 1100 mm |  |  |  |
| 3. | Interchangeable support rollers (shape and size appropriate for the diameter of the cable core)  | 1 set |  |  |  |

# 10. Laser system (for monitoring and measurement)

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Laser system (for monitoring and measurement)** | Information on meeting the parameter**enter****YES or NO** |
| 1. | Control of extruded outer sheath geometry  |  |
| 2. | Device measurement results to be used in automatic line control  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters- Laser system (for monitoring and measurement)** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Quantity | 3 pcs. |  |  |  |
| 2. | Location of installation  | 1. Before crosshead
2. Behind crosshead
3. Behind the last zone of the cooling section
 |  |  |  |
| 3. | Range of measured diameters | 20 – 180 mm |  |  |  |

# 11. X-ray monitoring and measurement system

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality– X-ray monitoring and measurement system** | Information on meeting the parameter**enter****YES or NO** |
| 1. | Control of geometry of produced cables  |  |
| 2. | Parameters recording during production process |  |
| 3. | Possibility of recording data, easy data exporting and possibility of reading the data on an additional computer |  |
| 4. | Possibility of viewing trends on the basis of saved data  |  |
| 5. | Possibility to measure one or two layers extruded from different materials |  |
| 6.  | The device to be located behind the first cooling trough  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters– X-ray monitoring and measurement system** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Range of diameters | 25 – 180 mm | …. | …. |  |
| 2. | USB port | 2 pcs. |  |  |  |
| 3. | Keyboard, mouse  | 1 piece(set) |  |  |  |

# 12. Extruders in V-configuration

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Extruders in V- configuration**  | Information on meeting the parameter**enter****YES or NO** |
| 1. | Extrusion of the following outer sheathing materials: HDPE, MDPE, LDPE, PVC HFRR, PEp  |  |
| 2. | Extruders to be equipped with hoppers with automatic feeding and material level control,  |  |
| 3. | Each extruder to be equipped with two dosing units for additives (synchronised with the capacity of the main extruders) (with the capacity of up to 10% and 25%) with automatic feeding and level control  |  |
| 4. | Extruder screws with internal cooling |  |
| 5. | Possibility of extruding a single outer sheath with the use of two extruders  |  |
| 6. | Possibility of using any extruder individually for extrusion of a cable outer sheath  |  |
| 7. | Possibility of extruding two layers of the outer sheath with the use of two different types of material at the same time |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – extruders in the V-configuration**  | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement(enter the parameter value of offered device) | Comments(enter if applicable) |
| 1. | Number of extruders | min. 2 |  |  |  |
| 2. | Total capacity of extruders Compression ratio  | Min. 1300 dm3 /h (for HDPE)24:1 |  |  |  |
| 3. | Extruder no. 1 (main/leading) | Min. Ø120, max. Ø 175, min. 22D, automatic by-pass at the connection point with the crosshead  |  |  |  |
| 4. | Screws for extruder no. 1  | 1 screw for PE and PVC1 screw for HFFR  |  |  |  |
| 5. | Extruder no. 2  | Ø120, min. 22D, automatic by-pass at the connection point with the crosshead  |  |  |  |
| 6. | Screws for extruder no. 2 | 1 screw for PE and PVC1 screw for HFFR |  |  |  |
| 7. | Hardness of screw and barrel surface  | 1000 HV |  |  |  |
| 8. | Trolleys for loading the screws inside extruders  | 2 pcs. |  |  |  |
| 9 | Trolley for screw transportation and storage | 1 cascade trolley for the specified screw |  |  |  |
| 10.  | Stationary platforms at the extruders for operating storage and feeding hoppers  | 2 pcs.  |  |  |  |

# 13. Crossheads

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Crossheads** | Information on meeting required functionality**enter****YES or NO** |
| 1. | Extrusion crossheads: single layer, one layer with strip or semi-con layer, one layer from both extruders, two layers  |  |
| 2. | Manual centring for each layers  |  |
| 3. | Easy dismantling of extruder connectors  |  |
| 4. | Docking station and a station for crosshead maintenance with the tooling and control system  |  |
| 5. | Slewing Jib Crane with a hoist for crosshead dismantling next to the docking station  |  |
| 6. | The crossheads must enable tube and pressure extrusion of the material |  |
| 7. | Necessary equipment |  |
| 8. | Tooling for extrusion during commissioning tests: 3 sets  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters- Crossheads** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Number of crossheads | Minimum 2  |  |  |  |
| 2. | Crosshead 1 | Possibility of extrusion of outer sheaths onto the cores of up to 90mm Extrusion: one layer, one layer with strip or semi-con skin, one layer from two extruders, two layers The crosshead with transport trolley enabling docking in the service station  |  |  |  |
| 3. | Crosshead 2 | Possibility of extrusion of sheaths onto cores with diameters from 80 up to 160 mm Extrusion: one layer, one layer with strip or semi-con skin, one layer from two extruders, two layers The crosshead with a transport trolley enabling crosshead rotation for tooling disassembly and docking the crosshead in the service station  |  |  |  |
| 4. | Rotating jib crane with a hoist for crosshead dismantling at the service station with the set enabling disassembly of crosshead tooling.Weight capacity:  | Slewing jib crane with a hoist500kg |  |  |  |
| 5. | Docking station and crosshead service/maintenance station with necessary equipment and control system enabling assembly, disassembly, pre-heating with the possibility of control of crosshead operation before production start. | 1 piece(set) |  |  |  |
| 6. | Service/maintenance station with necessary equipment (specialist wrenches, torque wrench, scissor lift trolleys for transportation of the equipment – 2 pieces).  | 1 piece(set ) |  |  |  |
| 7. | Transport-storage trolley for crosshead no. 2 distributors.  | 1 piece(Set) |  |  |  |

# 14. Cooling troughs – three-zone system

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Cooling trough– three zone system** | Information on meeting required functionality**enter****YES or NO** |
| 1. | System of cooling troughs divided into three zones  |  |
| 2. | Zone no. 1 and no. 2 – water heated from tanks of the closed system with the system of pumps. Trough no. 1 and no. 2 with closing flaps to keep water temperature constant. Zone no. 3 – running water with the system of pumps – water from closed system.  |  |
| 3. | The trough no. 1 to be equipped in pump of high capacity enabling quick trough filling with water.  |  |
| 4. | Through no. 1 to have possibility of installation marking wheels in its moving/extension part (wheels for embossing marking application in two lines – 180° in relation to each other around the cable circumference |  |
| 5. | Trough no. 1 to be equipped in rollers for adjusting cable position during production. |  |
| 6. | Cooling trough no. 1 with the possibility of moving it closer to the crosshead.  |  |
| 7. | Troughs of all the zones to be equipped in valves enabling very quick water drainage.  |  |
| 8. | Troughs to be equipped with rollers guiding the cable with the manual height adjustment.  |  |
| 9. | The troughs to be equipped with tilting air wipes (vertical axis of opening), with the use of compressed air. The air wipes are to be interchangeable to cover the whole range of produced cables. Air wipes to be located in closed sections of troughs.  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – cooling troughs – three-zone system**  | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Cooling trough no. 1 Min. length of the trough:  | 5m plus additional approx. 1m of horizontal extension towards the crosshead | …. | …. |  |
| 2. | Water temperature in trough no. nr 1  |  from 15 to 75° C  | …. | …. |  |
| 3.  | Trough no. 2Min. length of the trough no. 2: | 4m |  |  |  |
| 4. | Water temperature in trough no. 2 | from 15 to 55 ° C  |  |  |  |
| 5. | Trough no. 3Min. length of the trough: | 24 m |  |  |  |
| 6. | Water temperature in trough no. 3 | Max 25° C |  |  |  |
| 7. | Air wipes (blowers) with the use of compressed air | Before the X-Ray device and at the end of the trough no. 3  |  |  |  |

# 15. Marking device

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Marking device**  | Information on meeting required functionality**enter****YES or NO** |
| 1. | Possibility of marking application in two lines every 180°  |  |
| 2. | Possibility of installing interchangeable segments |  |
| 3. | Top wheel with the drive with the possibility of assembling 4- and 5-digit meter counter with the possibility of correcting of 1m length adjustment, and automatic resetting to 0m.  |  |
| 4. | Bottom wheel with the possibility of assembling 5-digit coding head with manual change of the next number.  |  |
| 5. | Marking wheels to be heated with temperature control (adjustment).  |  |
| 6. | Marking wheels with adjustable, pneumatic pressure (pressing force) to the cable surface.  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – Marking Device** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | 4-digit metre counter head. Height of letters: 5mm with the ‘m’ letter fixed in the housing  | 2 pcs. | …. | …. |  |
| 2. |  5-digit metre counter head, height of letters: 5mm with ‘m’ letter fixed in the housing  |  2 pcs. | …. | …. |  |
| 3.  | 5-digit coding head. The first digit – printed letter from A to J, the remaining four digits are to be numbers from 0 to 9 with manual change of numbers every number.  | 2 pcs. |  |  |  |

# 16. Non-contact length measurement (metre) counter

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality– Non-contact length measurement (metre) counter** | Information on meeting required functionality**enter****YES or NO** |
| 1. | Possibility of measurement of length of produced cable  |  |
| 2. | Possibility of reading measured length in the main panel of the line as well as on the device  |  |
| 3. | Possibility of resetting the length in the main panel and the device  |  |
| 4. | Calibration certificate from an accredited laboratory |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – Contact-less length measurement metre counter**  | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Measurement accuracy  | 0.2 % or better | …. | …. |  |
| 2. | Quantity  | 1 piece | …. | …. |  |

# 17. Outer sheath continuity tester

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – outer sheath continuity tester**    | Information on meeting required functionality**enter****YES or NO** |
| 1. | Possibility of verification of extruded sheaths continuity (with the use of voltage)  |  |
| 2. | Signalling and recording of breakdown location (metres) in the device  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – outer sheath continuity tester**  | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments**(enter if applicable)** |
| 1. | Voltage of outer sheath testing | 35 kV | …. | …. |  |
| 2. | Quantity | 1 piece | …. | …. |  |
| 3. | Tooling for verification of tester functionality | 1 piece(set) |  |  |  |

# 18. Ink-jet printer

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Ink-jet printer**  | Information on meeting required functionality**enter****YES or NO** |
| 1. | Ink colour: white |  |
| 2. | Ink adhesion to rubber compounds must meet marking durability requirements after 10-time rubbing with a fabric wipe |  |
| 3. | Printer operation must be integrated with laser and counter |  |
| 4. | Supplier to provide all the components necessary for operation in the production line: encoder, encoder divider, underpressure control in the printing head, installation elements of the printing head, table for the printer with an arm for the printing head, signalling (alarm) lamp, station for head cleaning, the table to be equipped with a place (pocket) for basic instructions and manuals |  |
| 5. | Automatic closing of the nozzle preventing ink drying and eliminating the necessity of cleaning before and after operation.  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters- Ink-jet printer** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Height of printed signs | up to 32x24mm | …. | …. |  |
| 2. | Print colour | white |  |  |  |
| 3. | Quantity | 1 piece | …. | …. |  |
| 4 | Printing speed | from 0m/min to 250 m/min |  |  |  |

# 19. Pulling caterpillar

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – pulling caterpillar** | Information on meeting required functionality**enter****YES or NO** |
| 1. | Keeping uniform tension in the whole range of speeds and diameters of cable cores taking into account of the cable weight  |  |
| 2. | Collecting cable core |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters– Pulling caterpillar** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Range of cable diameters | 25 – 180 mm | …. | …. |  |
| 2. | Max weight of cable  | 55 kg/m |  |  |  |
| 3. | Quantity | 1 piece | …. | …. |  |
| 4. | Self-centring rollers at the entrance and exit of the caterpillar | 2 pcs. |  |  |  |
| 5. | Production speed | 0 - 50 m/min |  |  |  |

# 20. Hydraulic cable cutters

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Hydraulic cable cutters**  | Information on meeting required functionality**enter****YES or NO** |
| 1. | Possibility of cutting the product |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – hydraulic cable cutters** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Cable cutters covering the diameter range of 0-120 mm with the pump and transport trolley |  1 piece | …. | …. |  |
| 2. | Cable cutters covering the diameter range of 0-180 mm with the pump and transport trolley | 1 piece |  |  |  |
| 3. | Jib crane for hanging cable cutters  | 1 piece |  |  |  |

# 21. Take-up devices

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Take-up devices** | Information on meeting required functionality**enter****YES or NO** |
| 1. | Possibility of spooling produced cables onto drums  |  |
| 2. | Possibility of taking-up from the top and the bottom of the drum  |  |
| 3. | Automatic traversing during winding operation |  |
| 4. | Take-up operation synchronised with the line operation  |  |
| 5. | Possibility of take-up control with the use of pendant station and the remote control  |  |
| 6. | Drum pusher |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters– Take-up devices** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Quantity of take-up devices | 2 pcs. | …. | …. |  |
| 2. | Range of drum sizes for the first take-up deviceRange of drum sizes for the second take-up device  | Height: 2.8 – 5.0mWidth: 1.8 – 5.0mHeight: 2.8 – 5.0mWidth: 1.8 – 3.9m |  |  |  |
| 3. | Weight capacity of the first take-up deviceWeight capacity of the second take-up device | up to 100 tonup to 75 ton |  |  |  |
| 4. | Diameters of interchangeable pins  | 123, 138, 178, 198, 248mm |  |  |  |
| 5. | Amount of pins | 2 pieces per each diameter |  |  |  |
| 6. | Drum pusher 100 t | 1 piece |  |  |  |

# 22. Line control

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality- line control** | Information on meeting required functionality**enter****YES or NO** |
| 1. | Central control panel with the touchscreen for line control located near the crosshead  |  |
| 2. | Main panel installed on the extension arm with the possibility of rotating  |  |
| 3. | Monitoring of the whole production process and individual line components. |  |
| 4. | System of alarms connected with the line functioning divided into priorities.  |  |
| 5. | Production history, trend analysis, possibility of printing data |  |
| 6. | Possibility of recording line data on the server location and on external drive.  |  |
| 7. | Must be integrated with measuring devices. |  |
| 8. | Control panes, description of buttons for line operation and manuals to be in Polish |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – line control** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Control panel  | 1 piece | …. | …. |  |
| 2. | USB port | 2 pcs. |  |  |  |
| 3. | Keyboard, mouse  | 1 piece(set) |  |  |  |

# 23. Additional equipment

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Additional equipment**  | Information on meeting required functionality**enter****YES or NO** |
| 1. | Machine vision (4 camera, monitor, HDD recorder) for operators. View from the top onto the take-up. View of the locations of line control (pay-off, take-up). |  |
| 2.  | Battery operated reciprocating saw |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – additional equipment** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1.  | Machine vision (CCV) on the location of: - take-up devices- line pay off- tape pay-off- markingMonitor and HDD recorder in the area of the control panel – operator’s desk | 1 piece(set) |  |  |  |
| 2. | Battery operated reciprocating saw with two accumulators and a charger – possibility of cutting cables with diameters of up to 180mm  | 1 piece(set) |  |  |  |

# 24. Materials necessary for installation, start-up and commissioning tests of the line, supervision and start-up to be performed by supplier representatives

|  |  |  |
| --- | --- | --- |
| **Item** | **Functionality – Materials necessary for installation, start-up and commissioning tests of the line, installation supervision and start-up to be performed by supplier representatives** | Information on meeting required functionality**enter****YES or NO** |
| 1. | Set of cabling and wiring |  |
| 2. | Control and power cabinets  |  |
| 3.  | cable trays and anchors for connecting the machine the control cabinet |  |
| 4.  | Remaining materials necessary for line installation and start-up |  |
| 5. | Set of tooling for commissioning tests with selected cables |  |
| 6. | Supplier supervision during line installation, line start-up to be performed by the Supplier |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Technical parameters – Materials necessary for installation, start-up and commissioning tests of the line, supervision and start-up to be performed by supplier representatives** | **Value** | Information on meeting the requirement(declare whether the value meets the requirement **by entering****(YES or NO)** | Information on meeting the requirement**(enter the parameter value of offered device)** | Comments(enter if applicable) |
| 1. | Set of cabling/wiringControl leadPower supply cordICT cablesSpecial cables and connectors necessary for line connection and start up | 1 set1 set1 set1 set |  |  |  |
| 2.  | Control and power cabinetsPower cabinetsControl cabinets | 1 set1 set  |  |  |  |
| 3. | Cable trays, anchors and other materials necessary for line installation and start-up | 1 set |  |  |  |
| 4. | Sets of tooling for commissioning tests on selected cables | 3 sets |  |  |  |
| 5.  | Supplier supervision during installation and line start-upa. supplier supervision during installationb. line synchronisation and start-up c. commissioning tests and training for personnel of the customerd. costs connected with transport and accommodation of supplier representatives | min. 10 daysmin. 35 daymin. 10 days1 set |  |  |  |

1. **FLAT-PRICE**

|  |  |  |
| --- | --- | --- |
| Subject Matter of the Contract  | Net flat-rate price - currency | Gross flat-rate price(if applicable[[1]](#footnote-1)) |
| Design development, delivery and start-up of a new, efficient line for application of outer sheaths on Medium and High Voltage cables including necessary control system, which would have functionality and technical parameters meeting the requirements defined in the table below. The line shall consist of the following components:- pay-off stand for cable cores- pay-off traverse control system- adjustable system of rollers- Feeding capstan (caterpillar)- Two pay-off devices for Al or Cu foil tapes - Laser system for cutting and connecting Al or Cu foil tapes- Accumulator system enabling connection of Al or Cu foil tapes without the necessity to stop the line - System for forming Al or Cu foil tapes onto the cable core - System allowing connection of Al or Cu foil tape overlap on its entire width - System enabling production of cables without Al or Cu foil tapes- Monitoring and measurement system enabling measurement of XY axes before and behind the crosshead of the extruder as well as behind the cable cooling section- X-Ray measurement device placed behind the first cooling zone- System of extruders enabling single or double layer of the compound. - Extrusion crossheads including necessary tooling. - Cooling trough with three-zone heating (gradual decrease of water temperature) equipped with interchangeable air wipes - Marking device with two heated marking wheels (indent marking with the use of interchangeable engraved segments)- Non-contact length measurement device- Voltage tester- Inkjet Marking System with a printing head- Pulling capstan (caterpillar)- Hydraulic cable cutters – 2 pcs.- Two take-up devices- Line control system with archiving, trend analysis, and process visualisation - Additional equipment components- Materials connected with installation, start-up and commissioning tests. Supervision over the installation and start-up to be performed by line supplier representatives. |  ….. - …. [[2]](#footnote-2)(price- currency) | ….. - ….(price- currency) |

1. **WARRANTY**

|  |  |
| --- | --- |
| Subject matter of the contract | Warranty period(in full months |
| Design development, delivery and start-up of a new, efficient line for application of outer sheaths on Medium and High Voltage cables including necessary control system, which would have functionality and technical parameters meeting the requirements defined in the table below. The line shall consist of the following components:- pay-off stand for cable cores- pay-off traverse control system- adjustable system of rollers- Feeding capstan (caterpillar)- Two pay-off devices for Al or Cu foil tapes - Laser system for cutting and connecting Al or Cu foil tapes- Accumulator system enabling connection of Al or Cu foil tapes without the necessity to stop the line - System for forming Al or Cu foil tapes onto the cable core - System allowing connection of Al or Cu foil tape overlap on its entire width - System enabling production of cables without Al or Cu foil tapes- Monitoring and measurement system enabling measurement of XY axes before and behind the crosshead of the extruder as well as behind the cable cooling section- X-Ray measurement device placed behind the first cooling zone- System of extruders enabling single or double layer of the compound. - Extrusion crossheads including necessary tooling. - Cooling trough with three-zone heating (gradual decrease of water temperature) equipped with interchangeable air wipes - Marking device with two heated marking wheels (indent marking with the use of interchangeable engraved segments)- Non-contact length measurement device- Voltage tester- Inkjet Marking System with a printing head- Pulling capstan (caterpillar)- Hydraulic cable cutters – 2 pcs.- Two take-up devices- Line control system with archiving, trend analysis, and process visualisation - Additional equipment components- Materials connected with installation, start-up and commissioning tests. Supervision over the installation and start-up to be performed by line supplier representatives. |  …. (in months, enter the number of months) |

1. **TIME OF ORDER DELIVERY**

|  |  |
| --- | --- |
| Subject Matter of the Contract | The expected date of order completion from the moment of signing the contract (in months)(the order completion date should include the entire subject of the contract as described in part I of the request for proposal, i.e. including design, delivery, commissioning and acceptance) |
| Design development, delivery and start-up of a new, efficient line for application of outer sheaths on Medium and High Voltage cables including necessary control system, which would have functionality and technical parameters meeting the requirements defined in the table below. The line shall consist of the following components:- pay-off stand for cable cores- pay-off traverse control system- adjustable system of rollers- Feeding capstan (caterpillar)- Two pay-off devices for Al or Cu foil tapes - Laser system for cutting and connecting Al or Cu foil tapes- Accumulator system enabling connection of Al or Cu foil tapes without the necessity to stop the line - System for forming Al or Cu foil tapes onto the cable core - System allowing connection of Al or Cu foil tape overlap on its entire width - System enabling production of cables without Al or Cu foil tapes- Monitoring and measurement system enabling measurement of XY axes before and behind the crosshead of the extruder as well as behind the cable cooling section- X-Ray measurement device placed behind the first cooling zone- System of extruders enabling single or double layer of the compound. - Extrusion crossheads including necessary tooling. - Cooling trough with three-zone heating (gradual decrease of water temperature) equipped with interchangeable air wipes - Marking device with two heated marking wheels (indent marking with the use of interchangeable engraved segments)- Non-contact length measurement device- Voltage tester- Inkjet Marking System with a printing head- Pulling capstan (caterpillar)- Hydraulic cable cutters – 2 pcs.- Two take-up devices- Line control system with archiving, trend analysis, and process visualisation - Additional equipment components- Materials connected with installation, start-up and commissioning tests. Supervision over the installation and start-up to be performed by line supplier representatives. | 1. Execution of the Sheathing line design: ………
2. Sheathing line delivery: ………
3. Commissioning and final acceptance of the Sheathing line: ………

 (in months, enter the number of months)  |

1. **SPECIFY VALIDITY TIME OF THE PROPOSAL**

|  |  |
| --- | --- |
| Validity time of the Proposal(in days) | …(in days, enter the number of days) |

1. **STAFF TRANING**

|  |  |
| --- | --- |
| Subject Matter of the Contract | The price of the Subject Matter of the Contract includes staff training |
| Design development, delivery and start-up of a new, efficient line for application of outer sheaths on Medium and High Voltage cables including necessary control system, which would have functionality and technical parameters meeting the requirements defined in the table below. The line shall consist of the following components:- pay-off stand for cable cores- pay-off traverse control system- adjustable system of rollers- Feeding capstan (caterpillar)- Two pay-off devices for Al or Cu foil tapes - Laser system for cutting and connecting Al or Cu foil tapes- Accumulator system enabling connection of Al or Cu foil tapes without the necessity to stop the line - System for forming Al or Cu foil tapes onto the cable core - System allowing connection of Al or Cu foil tape overlap on its entire width - System enabling production of cables without Al or Cu foil tapes- Monitoring and measurement system enabling measurement of XY axes before and behind the crosshead of the extruder as well as behind the cable cooling section- X-Ray measurement device placed behind the first cooling zone- System of extruders enabling single or double layer of the compound. - Extrusion crossheads including necessary tooling. - Cooling trough with three-zone heating (gradual decrease of water temperature) equipped with interchangeable air wipes - Marking device with two heated marking wheels (indent marking with the use of interchangeable engraved segments)- Non-contact length measurement device- Voltage tester- Inkjet Marking System with a printing head- Pulling capstan (caterpillar)- Hydraulic cable cutters – 2 pcs.- Two take-up devices- Line control system with archiving, trend analysis, and process visualisation - Additional equipment components- Materials connected with installation, start-up and commissioning tests. Supervision over the installation and start-up to be performed by line supplier representatives. | ❑YES ❑ NO [[3]](#footnote-3)  |

1. **COUNTRY OF ORIGIN OF THE DELIVERY ITEM**

|  |  |
| --- | --- |
| Subject Matter of the Contract | Country of origin of the Subject Matter of the Contract |
| Design development, delivery and start-up of a new, efficient line for application of outer sheaths on Medium and High Voltage cables including necessary control system, which would have functionality and technical parameters meeting the requirements defined in the table below. The line shall consist of the following components:- pay-off stand for cable cores- pay-off traverse control system- adjustable system of rollers- Feeding capstan (caterpillar)- Two pay-off devices for Al or Cu foil tapes - Laser system for cutting and connecting Al or Cu foil tapes- Accumulator system enabling connection of Al or Cu foil tapes without the necessity to stop the line - System for forming Al or Cu foil tapes onto the cable core - System allowing connection of Al or Cu foil tape overlap on its entire width - System enabling production of cables without Al or Cu foil tapes- Monitoring and measurement system enabling measurement of XY axes before and behind the crosshead of the extruder as well as behind the cable cooling section- X-Ray measurement device placed behind the first cooling zone- System of extruders enabling single or double layer of the compound. - Extrusion crossheads including necessary tooling. - Cooling trough with three-zone heating (gradual decrease of water temperature) equipped with interchangeable air wipes - Marking device with two heated marking wheels (indent marking with the use of interchangeable engraved segments)- Non-contact length measurement device- Voltage tester- Inkjet Marking System with a printing head- Pulling capstan (caterpillar)- Hydraulic cable cutters – 2 pcs.- Two take-up devices- Line control system with archiving, trend analysis, and process visualisation - Additional equipment components- Materials connected with installation, start-up and commissioning tests. Supervision over the installation and start-up to be performed by line supplier representatives. |  …(enter the name of the country) |

1. **CONSENT FOR PROCESSING PERSONAL DATA:**

I hereby declare that:

- I have read the information clause for Tenderers included described below

**❑YES, ❑ NO[[4]](#footnote-4)1**

- I give my consent for my personal data to be processed within the scope defined in listed below

**❑YES, ❑ NO[[5]](#footnote-5)2**

As far the personal data is concerned, Tele-Fonika Kable S.A informs that the data Administrator is TELE-FONIKA Kable S.A. with its registered office in Myślenice; 32-400, ul. Hipolita Cegielskiego 1 (hereinafter referred to as the “Company”). The administrator can be contacted via the email address: daneosobowe@tfkable.com in all matters concerning processing of personal data and the use of rights in relation to the data processing. Your data will be processed for needs of responding to enquiries submitted by you; the legal basis for data processing is the necessity of implementation of the legitimate interest of the Administrator. A legitimate interest of the Administrator is selling and supporting the sale of its products and services, purchasing and supporting the purchase of goods and services and taking the opportunity to submit information about its services to the customer submitting offers tailored to needs and interests of the customer and increasing the sales of its services. Your personal data may be shared with:

* entities processing the personal data on behalf of the administrator (among others, providers of IT services) – these companies process the data on the basis of an agreement with the Administrator and solely on the instructions from the Administrator;
* entities providing or settling funding from public funds;
* entities providing consulting services, entities providing auditing services;
* other data administrators entitled to obtain data on the basis of applicable law, including the Ministry of Investment and Development as a data administrator in the Central Information System SL 2014.

Your personal data will be stored util the expiry of the storage obligation resulting from the provisions of the law, including applicable regulations on State aid. You have the right to access your data and to request their rectification, erasure, or limitation of their processing. At your request, the Administrator shall provide a copy of the personal data that are subject to processing, whilst any subsequent copies requested by you may be subject to a fee imposed by the Administrator at a reasonable amount resulting from administrative costs. You have the right to withdraw your consent to processing of your data. Consent withdrawal does not affect the lawfulness of the processing, which had taken place on the basis of the consent given prior to the withdrawAl To the extent that your data are processed by automated means with a view to the conclusion and execution of the Contract or data processed on the basis of your consent, you have also have the right to transfer your personal data, namely to obtain your personal data in a structured, widely-used machine readable form. You can also forward the data to another data administrator. You also have the right to issue a complaint to the supervisory authority in charge of personal data protection. In order to exercise these rights, please contact the Data Administrator. The contact details are provided above. Providing personal data for the aforementioned purposes is voluntary. The Tenderer declares that they have read the information clause for Tenderers and give their consent to personal data processing by confirming the above in the Proposal Form that constitutes Annex 2 to this Request for proposal

1. **REPRESENTATIONS:**
2. **WE DECLARE,** that we have read the content of the Request for proposal, explanations and changes to the Request for proposal provided by the Contracting Entity and we deem ourselves bound with the provisions contained therein and the terms and rules of the tender procedure.
3. **WE ACCEPT** the payment terms specified by the Contracting Entity in the Request for proposal
4. **WE ARE** bound by the Proposal for the time period defined in the Request for proposal, however, not shorter than 90 days.
5. **We undertake** to submit performance bond along with all the applicable warranties guarantees specified in the Request for Proposal.
6. The devices presented in the Proposal are **NEW** and **COMPLY** with all legislation which allows for its use in Poland.
7. **WE ARE a manufacturer or an authorized representative of the manufacturer** of the subject of the contract described in section I of the Request for proposal On the request of the Contracting Entity we shall provide documents that confirm cooperation with the manufacturer that enables us to deliver the subject matter of the contract.
8. **WE DECLARE** that the subject matter is free of legal defects and the interest of third parties.
9. **WE ATTACH to the Proposal the technical specification of the Subject Matter of the Contract**

 ...................................................

 Signature of the Tenderer

1. [↑](#footnote-ref-1)
2. Enter price together with the currency in which the price is expressed [↑](#footnote-ref-2)
3. Tick the applicable [↑](#footnote-ref-3)
4. 1 Tick the applicable [↑](#footnote-ref-4)
5. 2 TIck the applicable [↑](#footnote-ref-5)