**Joint Action on Harmonised Products 2022 JAHARP2022-03 Chainsaws**

***(Grant Agreement No. JA2021-02-3)***

**Call for Tender for Test Laboratories**

**Electric and Combustion engine-driven Chainsaws**

Appendix III – Detailed Product Testing Requirements and Price List

The testing of chainsaws to be carried out in the framework of this Joint Market Surveillance Action will be based on the following Union legislation and applicable methods.

The compliance of chainsaws is subject to the requirements of:

* Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC.
* Directive 2014/35/EU on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.

The purpose of testing is to identify non-compliances allowing a market surveillance authority to decide whether to take actions against a specific product. The type of product to be tested include:

1. Electric mains-powered (corded) chainsaws (for tree service, non-professional use)
2. Electric battery-powered (cordless) chainsaws (for tree service, non-professional use)
3. Combustion-engine driven chainsaws (for tree service, non-professional use).

The testing of the above-mentioned types of chainsaws in the framework of this Joint Market Surveillance Action will be based on the following harmonised standards:

* ISO 11681-2:2022 - Machinery for forestry - Portable chainsaw safety requirements and testing - Part 2: Chainsaws for tree service.
* EN 62841-1:2015 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 1: General requirements.
* EN 62841-4-1:2020 - Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 4-1: Particular requirements for chain saws.

The project allows for the testing of approximately 15 chainsaw models. It is foreseen that 2 samples of each model will be used for the purposes of testing.

The indicative distribution foresees **11 battery-powered, 2 mains-powered, and 2 combustion engine-driven chainsaws**, however this might change and thus please provide prices in all cells marked in yellow below.

**The final test programme will be determined during the contracting phase, in cooperation with the selected test body or bodies.**

In the table below please provide the unit price, in Euros, excl. VAT, per test parameter and **taking into account the requirements of Section 7 – Financial Offer as set out in the Call for Tender.**

# Indicative test programme and pricing

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Subject**  | **EN 11681-2**  | **EN 62841-4 (1)**  | **EN 60745-2-13(1)** | **Remarks** | **Unit costs testing****(EUR, excl. VAT)** |
| **1-4 product models** | **5-9 product models** | **10-15 product models** |
| 1. Test parameters relevant to:
* Electric mains-powered (corded) chainsaws (for tree service, non-professional use)
* Electric battery-powered (cordless) chainsaws (for tree service, non-professional use)
* Combustion-engine driven chainsaws (for tree service, non-professional use)
 |
| 1 | Chain brake | 4.5 | 19.107 | 19.107 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 2 | Handles | 4.2 | 19.10120.101 | 19.101 20.101 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 3 | Front hand guard | 4.3.1 | 19.10220.102 | 19.10220.102 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 4 | Rear hand guard | 4.3.2 | 19.103 20.10228 | 19.10320.102 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 5 | Chain tensioning | 4.20 | 19.109 | 19.110 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 6 | Chain lubrication | 4.19 | 19.110 | 19.111 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 7 | Balance | 4.4 | 19.11128 | 19.112 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 8 | Chain catcher | 4.6 | 19.10520.103 | 19.105 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 9 | Run down time |  | 19.112 | 19.113 | 2500 cycles only if there is suspicion that product will perform relevantly less after first 20 cycles | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 10 | Resetting after unplanned stop  |  | 23.3 |  |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 11 | Operator presence sensor |  | 21.102 |  |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 12 | Functioning of the start -stop system | 4.10/4.11 stopping | 10 | 23.1.10.1 & 2 (10) | Endurance test up to 2000 cycles only if after 20 cycles there is suspicion of endurance problems | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 13 | Spiked bumper | 4.7 | 21.101 & 3 | 19.106 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 14 | Guide bar cover | 4.9 | 19.108 | 19.109 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 15 | Endurance tests |  | 23.1.10.1&2 | 17.2 (17) |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 16 | Chips discharge | 4.8 |  |  |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 1. Additional test parameters for mains-powered electric chainsaws
 |
| 17 | Internal wiring |  | 22 | (22) |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 18 | Terminals for external conductors |  | 25 | (25) |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 19 | Abnormal operation/electric strength (30% overloading voltage) |  | 18 | 15 (Annex K) |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 20 | Marking | (5.4) | 4.24 label wipe resistance and adhesion(Annex ZB) |  | Only if suspicious | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 1. **Additional test parameters for combustion engine-driven chainsaws**
 |
| 21 | Fuel and oil systems |  |  | 4.17 without drop test |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 22 | Engine starting device | 10 |  | 4.10 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 23 | Engine stopping device |  |  | 4.11 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 24 | Throttle control |  |  | 4.12 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 25 | Drive sprocket guard | 919.104 |  | 4.13 partly |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |
| 26 | Clutch |  |  | 4.14 |  | <Please fill in your unit cost here> | <Please fill in your unit cost here> | <Please fill in your unit cost here> |

# Comments/Suggestions for adjustments of the test programme

*[See Criterion E: Testing experience, Point iii. in the Call for Tender]*

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