**Joint Action on HARmonized Products 2020 JAHARP2020-2 - Work Package (WP) 1**

**Grant Agreement No. GA SI2.848980**

**Call for Tender for Test Laboratories**

**Tumble Dryers including Smart Appliances**

Appendix I – Detailed Product Testing Requirements and Price List

The tests to be carried out in the framework of this Joint Market Surveillance Action will be based on the latest valid harmonised (as published in the Official Journal of the European Union – OJEU) editions of EN 60335-1 and EN 60335-2-11 and must include the testing criteria listed in the table below. The purpose of testing is to identify non-compliances allowing a market surveillance authority to decide whether a specific tumble dryer poses a risk to consumers such that action may be taken against it. Testing must therefore focus on areas where products are likely to fail.

The testing covers conventional tumble dryers in the scope of the EU Low Voltage Directive 2014/35/EU, and smart/connected tumble dryers where the EU Radio Equipment Directive 2014/53/EU, Article 3.1(a) applies with respect to the safety requirements set out in Directive 2014/35/EU, but with no voltage limit applying.

Testing is a ‘smart-screening’ approach and not type testing. Testing is targeted at safety-critical criteria likely to result in significant failures and potential hazards. Testing personnel should use their professional judgement in selecting the most appropriate clause/sub-clause for the product under test. The project allows for the testing of 30 product samples, with only one sample of each tumble dryer product being provided.

The suggested maximum testing duration per product is 6 hours. Testing criteria details are provided in the table below. You are invited to suggest alternative or additional testing, or both, that may be carried out within this time.

Please provide the price in Euros per clause including the price for producing a short-form report for each product under test and a total price for product testing and test report production for each product under test.

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| **TUMBLE DRYERS according to the latest valid (harmonised) editions of EN 60335-1 and EN 60335-2-11** | | |
| Clause | Testing criteria | Price (EUR) |
|  | **General remarks**: As this is a ‘smart-screening’ approach and not type testing, please use your professional judgement in selecting the most appropriate clause/sub-clause from the criteria listed below for the product under test and refer to EN 60335-1 and EN 60335-2-11 when doing so. The testing should focus on areas that are likely to reveal a nonconformity/product hazard. Please plan to perform the potentially destructive testing near or at the end of the testing sequence, as only one sample of each tumble dryer product will be provided.  Please note the condition of the sample on arrival and perform an initial functional check to determine whether it operates in accordance with the user instructions provided. |  |
| 7 | Marking and instructions –  In addition to checking the product markings and user instructions, please perform the marking durability test where necessary. |  |
| 8 | Protection against access to live parts -  Apply appropriate standard probes, in particular, clauses 8.1 and 8.2 |  |
| 10 | Power input and current |  |
| 11 | Heating –  Please note the addition in EN 60335-2-11, clause 11.3, involving the test probe of Figure 101 and the temperature rise values in Table 101.  **NB**: The laboratory is asked to include a comment in the test report concerning the recorded temperatures of non-functional surfaces that are likely to be touched by vulnerable users (as per CENELEC Guide 29) |  |
| 13 | Leakage current and electric strength at operating temperature |  |
| 15 | Moisture resistance |  |
| 16 | Leakage current and electric strength |  |
| 19 | Abnormal operation –  Please select the tests most likely to reveal a nonconformity, while recognizing that only one sample of each tumble dryer type is available for testing. |  |
| 20 | Stability and mechanical hazards |  |
| 21 | Mechanical strength |  |
| 22 | Construction –  Pay particular attention to the possibility of releasing an interlock by means of test probe B and test probe 18 of EN 61032.  **NB: Please consider how to simulate the accumulation of lint, which is a non-standard test. The feasibility of such non-standard testing will be discussed in more detail with the selected laboratory**. |  |
| 23 | Internal wiring |  |
| 24 | Components –  Inspection only, as individual component data/approvals documentation will not be provided. |  |
| 25 | Supply connection and external flexible cords |  |
| 27 | Provision for earthing |  |
| 29 | Clearances, creepage distances, and solid insulation –  Inspection with measurement in cases of doubt |  |
| 30 | Resistance to heat and fire –  Subject external parts of non-metallic material, parts of insulating material supporting live parts including connections, and parts of thermoplastic material providing supplementary or reinforced insulation to the appropriate testing such as glow wire, needle flame, etc. |  |
| Price (EUR) for producing test report (per sample of each tumble dryer) | |  |
| Total price (EUR) for testing and test report production of each tumble dryer | |  |