***This document includes the criteria needed to submit a Ventilator project to the TEL database. Below are the details needed for each form box.***

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| **\*\*\* Solution name:**  | *JamVent* |

**\*\*\*Category & Subcategories**

* Health & Medical Care

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| **\*\*\* Solution purpose and how it works (up to 1500 characters):**  |
| *This is a AmbuBag device.**The device can help medics on the frontline as they battle the pandemic.**Summary Specs:**\** |

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| **\*\*\* Solution history & development (up to 1000 characters):** |
| *The ventilator, called JamVent, has been designed by a team of bioengineers and medics at Imperial College London so that it doesn’t rely on specialist parts. It is developed particularly for health services in developing countries. The design doesn’t rely on specialised parts and can be built with ‘off-the-shelf’ components from various manufacturers. Its primary components are 2 pressure transducers, 4 on/off solenoid valves and a 2 litre airtight container. The system doesn’t require gas to drive it and utilises only the air and oxygen required by the patient, Testing of the prototype has shown that it can perform to MHRA specifications and can carry out the critical functions of ICU ventilators for COVID-19 patients.**The project was started by Imperial medic Dr Jakob Mathiszig-Lee, who was treating COVID-19 patients at the Royal Brompton hospital and watching the tragedy unfold around the world and recognised there would be an urgent, overwhelming need for ventilators worldwide.* |

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| **\*\*\* Publicly available - Is solution publicly available (yes/no)? (Answer "No" if still only in prototype or trial stage):**  | ***Yes*** |

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| **\*\*\* Price Range:** | **X** |
| Free – design is available free for manufacturers to download | X |
| 1 to 20 USD |  |
| 20 to 50 USD |  |
| 50-100 USD |  |
| 100-200 USD |  |
| Over 200 USD |  |
| Contact supplier for quote |  |

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| **\*\*\* Countries where available or where it can be shipped:**  |
| *The team is working with UK-based manufacturers RPD and TestWorks, as well as groups in the USA, Australia and South America, to produce assembly-line prototypes in early May, and will seek approval from regulatory bodies, including the UK's MHRA, and the USA's FDA, for use in clinical settings.* |

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| **Countries where spare parts can be purchased:** |
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| **\*\*\* Can solution be offered or licensed for local manufacture? (yes/no):** | ***Yes*** |

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| **Approximate Dimensions (if physical product):** |
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| **Approximate Weight (if physical product):** |  |

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| **\*\*\* Link to the solution provider’s website:**  |
| <https://www.imperial.ac.uk/news/196955/low-cost-emergency-ventilator-tackle-coronavirus/> |

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| **\*\*\* Link to the specific solution webpage on website:** |
| <https://www.imperial-consultants.co.uk/areasofexpertise/emergency-ventilator/> |

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| **Link to external video:** |
| *Include videos if they have any.*  |

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| **Link to published documents such as articles, reviews, testimonials:**  |
| *Use this to include the main documentation for the ventilator* |

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| **\*\*\* Solution Provider - (name of Company/Organization that provides the solution):**  | Imperial College London |
| **Street Address:**  | 58 Prince’s Gate Exhibition Road |
| **City:**  | London |
| **Postal Code:**  | SW7 2PG |
| **\*\*\* Country:**  | England UK |
| **Phone:** |  |
| **\*\*\* Email:** | consultant-support@imperial.ac.uk |