**Challenge Statement: To automate the collection and pre-processing of soiled crockery for centralised dishwashing**

**Title of Proposal:**

# PART A – APPLICATION(S)[[1]](#footnote-1) INFORMATION

## A1: Particulars

|  |  |
| --- | --- |
| Organisation Name: |  |
| Contact Person (Principle Investigator): |  |
| Email Address: |  |
| Contact Number: | [Office no.] |
| [HP no.] |
| Business Address: |  |
| Corporate Website URL: |  |
| Company UEN: |  |
| Number of Employees: |  |
| Sales Turnover: |  |
| Percentage of Local Shareholder: |  |
| Are you currently receiving any Government Grant or Funding *(Yes/No, if Yes, Please state)* |  |

# PART B – BREAKDOWN OF COSTING

## B1: Development of Working Prototype for Test-bedding and Pilot Deployment phases

### Expenditure on Manpower (EOM)

*[****Instructions:*** *Please list employees in the company involved in the project and explain their involvement.]*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No. | Name | Designation | Role in Project | Involvement (Man-hours) | Monthly Salary (S$) | Total Cost (S$) |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total *(EOM)* | | | | | |  |

### Equipment/Software Cost

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Item Description | Proposed Quantity | Unit Cost (S$) | Total Cost excluding GST (S$) | Total Cost (S$) |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
|  |  |  |  |  |  |
| Total *(Equipment)* | | | | |  |

### Professional Services

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Description | Total Cost excluding GST S($) | Total Cost  including GST S($) |
| (i) Consultancy *(involving institutes of higher learning/research institutes, if applicable)*  Name of IHL/RI:  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |  |  |  |
| (ii) Consultancy *(excluding tertiary institutions/research institutes, if applicable)*  Name of Organisation: |  |  |  |
| (iii) Subcontracting/ Prototyping |  |  |  |
| (iv) Others |  |  |  |
|  | **Total *(Professional Services)*** |  |  |

1. Other Operating Expenses (OOE)

*[****Instructions****: Please list down Materials & Consumables]*

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Item description | Total Cost excluding GST S($) | Total Cost including GST S($) |
| 1 |  |  |  |
| 2 |  |  |  |
| **Total *(OOE)*** | | |  |

1. Others

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Item description | Total Cost excluding GST S($) | Total Cost including GST S($) |
| 1 |  |  |  |
| 2 |  |  |  |
| **Total (Others)** | | |  |

1. Total Project Cost of Development of Working Prototype

*[f = a + b + c + d + e]*

|  |  |  |
| --- | --- | --- |
|  | Excl. GST | Incl. GST |
| **Total Project Cost of Development of Working Prototype** | **S$** | **S$** |

1. Please provide a breakdown of the costing above according to the detailed project timeline and development milestones, indicating clearly the deliverables of each milestone

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Phase | Key Activity | Personnel, Role and  Man-hours | Resources | Start Date | End Date |
| 1. | Eg. Development of system with XX functions | Eg. John Lim – 80h  Hardware design engineer to design and test weather sealed housing to industrial standard  (To be hired) – 60h  Software architect to design communication module and compatibility with software | Eg. Thermal camera for the measurement of sub-surface defects, $30k | (mm/YYYY) | (mm/YYYY) |
| 2. | Eg. Development of system with YY functions |  |  |  |  |
| 3. | E.g. Conducting user-acceptance test during Test-bedding phase |  |  |  |  |
| 4. | E.g. Providing support during Pilot Deployment phase |  |  |  |  |
| Overall Project Cost: S$ | | | | | |

1. Please provide expected sale price of the developed solution for Commercial Deployment

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Item description** | **Total Price** | **Remarks** |
| 1 | Expected commercial sale price of the developed solution (per unit)  *Note: Can be either CAPEX or Subscription-based (to indicate minimum committed time period)* |  |  |
| 2 | Estimated monthly operating cost including maintenance cost (per unit) |  |  |

# Estimated return on investment: \_\_\_\_\_\_\_ months/years *[To provide calculation breakdown, as well as assumptions made]*

1. Estimated Commercial Lease Price:

Estimated monthly lease amount: S$\_\_\_\_\_ with a minimum committed time period of \_\_\_\_\_ months

1. Estimated cost for the additional items (to be borne by NEA):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Item Description | Total Cost excluding GST S($) | Total Cost including GST S($) | Remarks |
| **1** | **System Frontage (per unit)** | | | |
| *i* | *Design, fabricate and install a system frontage inclusive of*   1. *a non-timbre material enclosure to box up the machine with anti-bird perching feature* 2. *Stickers for the entire external enclosure panel* |  |  |  |
| *ii* | *Supply and install rack at system frontage (to hold non-standard crockery, fragile crockery)* |  |  |  |
| *iii* | *Supply and install a digital screen (no less than 15”) above tray receiving point (to display no. of trays returned, play videos and audio messages)* |  |  |  |
| **2** | **Monetary Dispensing Machine (per unit)** | | | |
| i | *To dispense a tray deposit (e.g. 50 cents coin) upon sensing the return of a tray* |  |  |  |

# PART C – DECLARATION

## C1: Declaration of other Funding Support

*[****Instructions:*** *Applicants[[2]](#footnote-2) shall provide the details for all grants currently held or being applied using the format given below. Indicate N.A. if there are no grants currently held or being applied.]*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Grant Title & ID | Funding Agency | Status | Amount *(S$ ‘000)* | Years of Support | Expiry Date | Role Played *(i.e. PI or Collaborator)* |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

## C2: Declaration Form

In submitting this proposal, I declare, as the authorised signatory of the applicant, that the contents stated in this proposal and the accompanying information are true. If any part of this proposal and the accompanying information is found to be false, ESG and/or the participating partners reserves the right to reject the proposal and/or where funds have been granted to the Applicant, to demand that the funds granted to the Applicant be refunded.

Proposers and its company/organisation(s)/partner(s) that is/are part of the Consortium (if applicable) are required to declare that they are free from any litigation pertaining to the project in Singapore or overseas. Project is to be endorsed by either the Dean of Institution, Chair of Faculty, Organisation CEO, MD or equivalent.

|  |  |
| --- | --- |
| Name: |  |
| Designation: |  |
| Signature and Date: |  |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Organisation Stamp

1. Lead applicant and collaborators *(if any)* are to provide the necessary information. [↑](#footnote-ref-1)
2. Lead applicant and collaborators *(if any)* are to declare any fundings received. [↑](#footnote-ref-2)