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| --- |
| **PROJECT PROPOSAL FOR SUBMISSION TO JTC INNOVATION CHALLENGE** |
| 1. The information in each proposal furnished to JTC will be treated with strict confidence, with the understanding that it shall be used or disclosed for evaluation, reference and reporting purposes. All sections are to be completed. Incomplete submissions will not be accepted. Completed submissions should be saved as one folder and titled **“[*Project Title*] by [*Company Name*]”**.
 |

1. To facilitate regulatory acceptance and public sector adoption, JTC will invite relevant public agencies as Public Agency Collaborators to the project if supported. Proposals submitted will be shared with the public agency, if they are interested.
2. Sections B, C, D of the proposal (including any clarifications accepted by JTC) will form the content in Schedule 1 of the Project Agreement, if supported.
3. Self-check the following and submit all necessary document to the Gov-PACT website (<https://gov-pact.ipi-singapore.org/grant-call/jtc-innovation-challenge>) by the Closing Date of the respective Challenge Statements.

|  |  |
| --- | --- |
| ***Submission Documents/Checklist*** | ***Check if you have done so*** |
| *Project Proposal* |  |
| *Quad chart* |  |
| *Declaration of Financial Solvency* |  |
| *Other attachment for project proposal (include a content page and label in sequence of appearance if you referred in the proposal)* |  |
| *Requested funding not more than S$250,000* |  |
| *Project duration not more than 1 year* |  |

**SECTION A: INFORMATION**

**Challenge Statement addressed:**

**Others** *(Yes, if applying for earlier challenge statements)***: (Yes/ No)**

**Company Name:**

\*I/We, <insert name of authorised person>, <insert designation, e.g. Director/Managing Director/Partners, etc>, warrant, represent and declare that \*I am/we are duly authorised to submit this application, receive instruction, give any information, accept any contract and act for and on behalf of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Insert Name of Firm or Company).

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Authorised Signature**

**GeBIZ Trading Partner Reference No.:**

**Name of Point of Contact (if different from above):**

**Email Address:**

**Contact Number:**

*\*delete where necessary*

1. **State the stages of development to be covered by the proposal:**

|  |  |
| --- | --- |
| **Stage** | **Covered? (Yes/No)** |
| Proof-of- concept |  |
| Development of prototype |  |
| Trial/ test-bed |  |
| Commercialisation Plan |  |

1. **Has the scope of work from this proposal received funding or used to apply to other public agency funding?**

**YES/NO**

1. **Other Public Agency Funding**

Has the applicant received public agency funding for other innovation projects? If **yes,** please specify.

|  |  |  |  |
| --- | --- | --- | --- |
| ***Project Title*** | ***Funding Agency POC*** | ***Start-end date*** | ***Project Value (S$)*** |
|  |  |  |  |
|  |  |  |  |

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

1. **Background of Company/ Profile of Team**

*[Concisely indicate the nature of business, business type (startup, SME, LLE, MNC), global presence, and number of employees, the technologies / products / services provided, annual sales turnover. Background of key team members who will be working on the project.]*

**SECTION B: PROPOSAL TO REQUEST FOR FUNDING OF UP TO $250,000 AND DURATION UP TO 12 MONTHS**

1. **Title of Proposal [keep it succinct and short]**

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

1. **Project Team**

*[Describe the roles and responsibilities of the project team directly involved using the table below. Please do not give a description of their normal job scope but describe specifically their involvement in this project.]*

|  |  |  |  |
| --- | --- | --- | --- |
| **Name & Designation** | **Company** | **Background/Qualification** | **Role in this Project** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

 Table 1 Project team

1. **PUBLIC AGENCY COLLABORATORS**

JTC will invite relevant public agencies as Public Agency Collaborators to the project if the proposal is supported. This is to i) facilitate regulatory acceptance; and ii) steer development to better meet end-user requirements. JTC will insert JTC PI and the Public Agency Collaborator. Applicant may put Public Agency Staff as collaborator, but should furnish letter of support from the Public Agency.

|  |  |  |
| --- | --- | --- |
| **Name, Designation** | **Agency** | **Role in project** |
| <JTC PI> | JTC |  |
|  |  |  |

Table 2 Public Agency Collaborator

1. **Proposed Solution/Approach**

*[Describe: a) aims of the project, b) describe solution/approach, c) main technologies used and its Technology Readiness Level (TRL) and target TRL at the end of the project, d) aspect in challenge statement being addressed, e) innovativeness and differentiation against commercially-off-the-shelf product/solution. Explain how proposed work will address the challenge statement.]*

1. **Project Scope**

*[State objectives, indicate the scope of work required to meet these objectives for the proposed solution. State the expected outcome and its expected performance. The expected performance should be described with quantitative element as far as possible.]*

1. **Description of Proof-of-Concept and Prototype Development Stages**
	* Referring to paragraph 9, describe the tasks needed for the scope of work and its implementation;
	* Include COVID-19 Safe Management Measures implementation to ensure safety while carrying out tasks:
	* safe distancing measures to ensure safety of their staff such that the quality and timeline for the works are not affected; and
	* cleaning regime to maintain good hygiene during the conduct of the Proof-of-Concept and Prototype Development activities;
	* List task and timeline for Proof-of-Concept and Prototype Development *(Refer to* Table 3*).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S/N** | **Description of Task (inclusive of sub-tasks)** | **Estimated Duration (months)** | **Target Start, T0 as effective date** | **Target Completion,** **T0 as effective date** |
|  |  |  | T0+ \_\_Months | T0+ \_\_months |
|  |  |  | T0+ \_\_Months | T0+ \_\_months |
|  | *<add more rows if required>* |  |  |  |

Table 3 Timeline of Task for Proof-of-Concept and Prototype Development

1. **Description of Trial/Test-bed Stages**
	* Referring to paragraph 9, describe the trial/test-bed activities to be carried out and state expected outcome(s) of the trial/test-bed. This would specify the area for the trial/test-bed and the results you expect to obtain from the trial/test-bed.
* Describe the procedures to carry out the trial/test-bed
	+ How will the trial/test-bed be set-up/ installed (drawings, if any)

*[Please indicate if infrastructure alteration is required as well as details to mitigate potential nuisances to other users.]*

* + Expected regulatory challenges/approvals

*[Description of regulatory approval required]*

* + Space requirements if any (preferred location/type of space)
	+ Any other important information (access requirements, etc.)
	+ Include COVID-19 Safe Management Measures implementation to ensure safety while carrying out tasks:
		- safe distancing measures to ensure safety of their staff such that the quality and timeline for the works are not affected; and
		- cleaning regime to maintain good hygiene during the conduct of the Trial/Test-bed activities;
	+ Timeline of the tasks/activities required for trial/test-bed *(Refer to* Table 4*)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S/N** | **Description of Task (inclusive of sub-tasks)** | **Estimated Duration (months)** | **Target** **Start Date,T0 as effective date** | **Target Completion Date,****T0 as effective date** |
| **Test-bed installation** |
|  |  |  | T0+ \_\_months | T0+ \_\_months |
|  | *<add more rows if required>* |  | T0+ \_\_months | T0+ \_\_months |
| **Test-bedding activities after installation** |
|  |  |  | T0+ \_\_months | T0+ \_\_months |
|  | *<add more rows if required>* |  | T0+ \_\_months | T0+ \_\_months |

Table 4 Timeline of Trial/Test-bed Activities

1. **Cost Benefit Analysis of Solution**

*[Using* Table 5*, compare using conventional approach or next best alternative, and quantitatively describe the benefits of the proposed solutions in terms of: i) life cycle cost savings; and/or ii) manpower productivity improvement; and/or iii) reduction in carbon impact to the environment. You may add qualitative improvements, if applicable.]*

|  |  |
| --- | --- |
| **Proposed Solution** | **Existing/ Next Best Alternative** |
| *[Describe the proposed solution’s difference in approach/method vis-à-vis existing or next best alternative]* | *[Describe the existing solution or next best alternative’s method that is scrutinised.]* |
| *[Expected improvements over existing/ next best alternative]* | *[Your basis for comparison and the standard results/performance]* |

Table 5 Cost Benefit Analysis

1. **Intellectual Property Rights**

*[Foreground IP development (FIP)*

* *Proposal is to describe the expected Foreground IP developed (if any)*

*Background IP (BIP)*

* *Proposal to include declaration and details such as Background IPs that are required for technology acquisition, payment of licensing fees, and purchase of copyrights/ trademarks/ patents and explain how they are relevant and required for the proposed development and test-bed.*

***Note****: JTC will co-own the foreground IP generated]*

1. **Description of Commercialisation Plan**

*[A brief write-up on how the company intends to commercialise the product within two years after successful test-bed and demonstration. The business model shall include the value proposition, target market(s) & prospects for effective deployment, and expected ROI, etc.]*

**SECTION C: COST OF PROPOSAL**

1. **Estimated Cost Breakdown for R&D and Trial/Test-bed Phases**

*[Provide a detailed breakdown of cost estimates for the various categories (using* Table 6*). All cost estimates are to be given in Singapore dollars and be supported with quotations where possible. The estimate for cost incurred will be assessed on value-for-money and used to determine payment schedule.]*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description of Item or Category** | **Activity Details** *(refer to section B, table 3 and table 4)* | **Timeframe for Implementation**(e.g. No. of Weeks/months) | **Operating Cost for the item for project duration (S$)** | **Basis of Cost** (attach supporting document) |
| Manpower |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| *<add more rows if required>* |  |  |  |  |
| Equipment/ Software |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| *<add more rows if required>* |  |  |  |  |
| Consumables |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| *<add more rows if required>* |  |  |  |  |
| Other Operating Costs |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| *<add more rows if required>* |  |  |  |  |
| Intellectual Property\* (IP) |  |  |  |  |
| *<add more rows if required>* |  |  |  |  |
| **Total Requested funding from JTC** | *[State in words and in numericals the total funding requested in S$]* |

Table 6 Summary of Costing

*\*Proposal to include details such as technology acquisition, payment of licensing fees, and purchase of copyrights/trademarks/patents and explain how they are relevant to the proposed research and test-bed. A copy of the quotation from the source maybe required.*

1. **Contributions in-kind and co-funding**

*[Please provide detail breakdown of contribution in-kind and co-funding (using* Table 7*), if applicable. Otherwise indicated as “Not Applicable” or “N/A”. JTC will subsequently include JTC’s in-kind contribution (such as project management, access to trial sites, and etc)].*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description of Item or Category** | **Activity Details** *(refer to section B, table 3 and table 4)* | **Timeframe for Implementation**(e.g. No. of Weeks/months) | **Operating Cost for the item for project duration (S$)** | **Basis of Cost** (attach supporting document) |
| Manpower |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| *<add more rows if required>* |  |  |  |  |
| Equipment/ Software |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| *<add more rows if required>* |  |  |  |  |
| Consumables |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| *<add more rows if required>* |  |  |  |  |
| Other Operating Costs |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| *<add more rows if required>* |  |  |  |  |
| Intellectual Property\* (IP) |  |  |  |  |
| *<add more rows if required>* |  |  |  |  |
| **Total co-funding and in-kind contribution by Collaborator** | *[State in words and in numericals the total co-funding and in-kind contribution in S$]* |

Table 7 Co-funding and Contribution in-kind

*[\*Proposal to include details such as technology acquisition, payment of licensing fees, and purchase of copyrights/trademarks/patents and explain how they are relevant to the proposed research and test-bed. A copy of the quotation from the source maybe required.]*

**SECTION D: PAYMENT SCHEDULE**

1. **Payment Schedule**

State the payment schedule (filling in Table 8) based on: a) a firm price; b) cost recovery basis; c) referencing completed tasks from Table 3 and Table 4 of **Section B** as deliverables for each milestone, and Table 6 of **Section C** for the projected cost incurred to be used as the amount to be paid. Payment to be disbursed according to the deliverables met.

|  |  |  |  |
| --- | --- | --- | --- |
| **Milestone & timeline** | **Description of deliverables** | **Amount to be paid to [2]** | **Specify expected performance [3]** |
| *Kick-Off [1]**T0 +* *1 month\** | *Upon delivery of progress report & completion of Task \_\_\_\_(refer to timelines in* Table 3 and Table 4 *of Section B)\**  |  |  |
| *Milestone 1**T0 +2months\** | *Upon delivery of progress report & completion of Task \_\_\_\_(refer to timelines in* Table 3 and Table 4 *of Section B)\**  |  |  |
| *Milestone 2**T0 +4months\** | *Upon delivery of progress report & completion of Task \_\_\_\_(refer to timelines in* Table 3 and Table 4 *of Section B)\**  |  |  |
| *Milestone 3**T0 +6months\** | *Upon delivery of progress report & completion of Task \_\_\_\_(refer to timelines in* Table 3 and Table 4 *of Section B)\**  |  |  |
| *Milestone 4**T0 +8months\** | *Upon delivery of progress report & completion of Task \_\_\_\_(refer to timelines in* Table 3 and Table 4 *of Section B)\**  |  |  |
| *Milestone 5**T0 +10months\** | *Upon delivery of progress report & completion of Task \_\_\_\_(refer to timelines in* Table 3 and Table 4 *of Section B)\**  |  |  |
| *Milestone 6**T0 +12months\** | *Upon delivery of progress report & completion of Task \_\_\_\_(refer to timelines in* Table 3 and Table 4 *of Section B)\**  |  |  |

Table 8 Payment Schedule

*\* Delete row if not applicable*

*[1] Kick-off fixed within 1 month of effective date, milestones are fixed at 2 months interval.*

*[2] Based on the incurred cost till the date, since the last payment.*

*[3] Expected performance should be quantifiable. e.g. Design validated by model and simulation to reduce noise by 10dBA.*