**Project Ref No: XXX**

**APPLICATION FOR APPROVAL FROM AO (AOR) FOR USE OF FUNDS for Secure Hybrid Integrated Pipeline (SHIP)/Hive Agile Testing Solutions (HATS) 2.0 Subscription for ABC Project**

Approving Officer (Approval of Requirement)

D/Department

Through:          SAD/ Department – Supported (10 May 2023)

SAD/Department – Supported (9 May 2023)

**AIM**

This email seeks D/Department’s approval for the use of funds for Secure Hybrid Integrated Pipeline (SHIP)/Hive Agile Testing Solutions (HATS) subscription for ABC Project for 1 year estimated 1 **Jul 2023 to 30 Jun 2024**

1. Secure Hybrid Integrated Pipeline (SHIP)/Hive Agile Testing Solutions (HATS) offered by **Tech Organization**

**BACKGROUND**

1. Since Mar 2023, the **Agency** has commissioned the online portal (ABC) to support families with needs with relevant information, resources and services.
2. SHIP is a continuous integration and continuous deployment (CI/CD) platform that automates the delivery of applications and simplifies policy clearance. HATS is a functional test automation tool for web and mobile applications. It allows agency developers to define end-to-end test scenarios and implement the test steps/actions, together with assertion checks. SHIP-HATS is the **Agency** CI/CD Platform which aims to help the **Agency** modernise application development and operations. Implementing a CI/CD process has many technical advantages including smaller code changes, fault isolations and faster mean time to resolution (MTTR). Through continuous testing of small pieces of code before it is integrated into the code repository, developers can recognize a problem before too much work is completed afterward.
3. To enable agencies to adopt CI/CD, **Tech Organization** has developed SHIP-HATS which bundles a set of CI/CD tools. The benefits of SHIP-HATS are:
4. Baked in technical requirements arising from policies; developers can be assured that there is baseline compliance for each category of applications. This will also reduce the audit footprint from having to audit each application to audit the SHIP-HATS as a platform.
5. Reduced set-up and operations time; developers can spend less time to build tools for provisioning, runtime, orchestration and management in order to deliver better and faster applications.
6. Lower development costs: having central development and management of common components can bring about better economies of scale and reduce duplication by agencies.
7. ABC project has currently subscribed to SHIP-HATS 1.0 and will migrate to SHIP-HATS 2.0.

**COST OF HOSTING ENVIRONMENT**

1. The estimated cost breakdown for a period of **12 months (from 1 Jul 2023 to 30 Jun 2024)** as shown below is based on **Annex A** (Estimated Cost calculated based on components to be subscribed and number of users usingSHIP-HATS2.0)**.**  As this subscription is offered by **Tech Organization** hence there is no need for getting quotes from other vendors and comparison of quoted price before subscribing. Also, as price of subscription are subject to change every year and the need of project may change over time it is recommended to do the AOR for the period of 12months first.

**Cost Breakdown**

|  |  |  |  |
| --- | --- | --- | --- |
| **S/N** | **Items** | **1 Jul 2023 to 30 Jun 2024** | **Remarks** |
| 1 | SHIPS-HATS 2.0 | SGD $5,380 per month X 12 months | Offered by **Tech Organization**  **Refer Annex B**- Currently Indicative pricing is quoted by **Tech Organization** |
| **Total** | | **$64,560** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Funding** | **Cost Centre** | **Account Code** | **Programme Code** |
| Internal Fund | 999999 | 111111 (25%) | XYZ01 |
| Fund from Board | 999999 | 111111 (75%) | XYZ01 |

1. Funds are available in the following accounts (listed in the table below) to meet this expenditure:

**FOR APPROVAL**

1. For D/Department’s approval as AO(AOR) on the use of funds (para 6-7) for this subscription, please.

Thank you.

**Submitted by:**

Name of Officer:                         Sam Tan

Designation of Officer:              Project Manager - Agile

Name of Division/Branch:        Agency ITD

**Annex A - Estimated Cost calculated based on components to be subscribed for SHIP-HATS2.0.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Estimated Cost for SHIP-HATS 2.0** | |  |  |  |  |
|  | **Per Month** | **$5,380** | |  |  |  |  |
|  | **Per Year** | **$64,560** | |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Annex B – Indicative Pricing by SHIP-HATS 2.0**

|  |  |
| --- | --- |
|  | **Cost for SHIP-HATS 2.0** |
| **Per Month** | **$5,380** |