**Development and Assessment of the Gabaldon**

**Water Billing and Management System**

**Name (Optional):**

**Work/Job Position:**

**Instruction**: Please rate the software quality of the developed system using the following scale. Place a check mark (**/**) to the column that represents your rating:

|  |  |  |
| --- | --- | --- |
| **Rating** | **Verbal Description** | **Description** |
| 4 | Highly Functional | Provides functions that meet stated ad implied needs when used under specified conditions. |
| 3 | Functional | Provides functions that meet stated and implied needs when used under specified conditions with minimal weakness. |
| 2 | Needs Improvement | Provides functions that meet stated and implied needs when used under specified conditions with moderate weakness. |
| 1 | Poor | Cannot provide functions that meet stated and implied needs when used under specified conditions with various major weaknesses. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Functional Suitability**  This characteristic represents the degree to which the Development and Assessment of the Gabaldon Water Billing and Management System provides functions that meet stated and implied needs used under specified conditions | | | | |
| **Statements** | **4** | **3** | **2** | **1** |
| 1. **Functional Completeness**: The set of functions covers all the specified tasks and user objectives. |  |  |  |  |
| 1. **Function Correctness**: The system provides the correct results with the needed degree of precision |  |  |  |  |
| 1. **Functional Appropriateness**: The functions facilitate the accomplishment of specified tasks and objectives. |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Rating** | **Verbal Description** | **Description** |
| 4 | Highly Efficient | Meets the processing performance relative to the amount of resources with no weakness. |
| 3 | Efficient | Meets the processing performance relative to the amount of resources with minimal weakness. |
| 2 | Needs Improvement | Low processing performance relative to the amount of resources with moderate weakness. |
| 1 | Poor | Cannot processing performance relative to the amount of resources with minimal weaknesses. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Performance Efficiency**  This characteristic represents the performance to which the Development and Assessment of the Gabaldon Water Billing and Management System relative to the amount of resources used under states conditions. | | | | |
| **Statements** | **4** | **3** | **2** | **1** |
| 1. **Time Behavior**: The response and processing time throughout the rate of the system meet the requirements when it functions. |  |  |  |  |
| 1. **Resource Utilization**: The amount and type of resources used by the system meet the requirements when it functions. |  |  |  |  |
| 1. **Capacity**: The maximum parameter limits of the system developed meet the requirements. |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Rating** | **Verbal Description** | **Description** |
| 4 | Highly Compatible | Meets the required functions while sharing the same hardware and software environment, can exchange information with other systems, and has no weaknesses. |
| 3 | Compatible | Meets the required functions while sharing the same hardware and software environment, can exchange information with other systems, and has minor weaknesses. |
| 2 | Needs Improvement | Meets the required functions while sharing the same hardware and software environment, can exchange information with other systems, and has moderate weaknesses. |
| 1 | Poor | Does not meet the required functions while sharing the same hardware and software environment, can exchange information with other systems, and has various major weaknesses. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Compatibility**  This characteristic represents the degree to which the Development and Assessment of the Gabaldon Water Billing and Management System can exchange information with other products, system or components, and perform its required functions while sharing the same hardware or software environment. | | | | |
| **Statements** | **4** | **3** | **2** | **1** |
| 1. **Co-existence**: The system can efficiently perform its functions while sharing common environment and resources with other products while having no detrimental impact on any other product. |  |  |  |  |
| 1. **Inter-operability**: Two or more system components can exchange information and use the information that has been exchanged |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Rating** | **Verbal Description** | **Description** |
| 4 | Highly Efficient | Performs the functions appropriate for the users’ needs, provides an easy to operate and control user interface and has no weakness. |
| 3 | Efficient | Performs the functions appropriate for the users’ needs, provides an easy to operate and control user interface and has minimal weakness. |
| 2 | Needs Improvement | Performs the functions appropriate for the users’ needs, provides an easy to operate and control user interface and has moderate weakness. |
| 1 | Poor | Cannot perform the functions appropriate for the users’ needs and has various major weaknesses. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Usability**  This characteristic represents the usability to which the Development and Assessment of the Gabaldon Water Billing and Management System can be used by specified users to achieve specified goals with effectiveness, efficiency and satisfaction in a specified context use. | | | | |
| **Statements** | **4** | **3** | **2** | **1** |
| 1. **Appropriateness Recognizability**: Users can recognize weather the system is appropriate for the needs. |  |  |  |  |
| 1. **Learnability**: The system can be used by specified users achieve the specified goals of the system with effectively, efficiency, free from risk, and satisfaction guaranteed in the specified context use. |  |  |  |  |
| 1. **Operability**: The system has attributed that makes it easy to operate and control. |  |  |  |  |
| 1. **User Error Protection:** The system protects users against making errors. |  |  |  |  |
| 1. **User Interface Aesthetics:** User interface of the system enables pleasing and satisfying interaction for the user. |  |  |  |  |
| 1. **Accessibility:** The system can be used by people with the widest range of characteristics and capabilities to achieve an identical goal in a specified context of use. |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Rating** | **Verbal Description** | **Description** |
| 4 | Highly Reliable | Performs the functions under specified conditions for a period of time and has no weakness. |
| 3 | Reliable | Performs the functions under specified conditions for a period of time and has minimal weakness. |
| 2 | Needs Improvement | Performs the functions under specified conditions for a period of time and has moderate weakness. |
| 1 | Poor | Cannot perform the functions under specified conditions for a period of time and has various major weaknesses. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Reliability**  This characteristic represents the degree of reliability to which the Development and Assessment of the Gabaldon Water Billing and Management System performs specified functions under specified conditions for a specified period of time. | | | | |
| **Statements** | **4** | **3** | **2** | **1** |
| 1. **Maturity**: The system meets the needs for reliability under normal operation. |  |  |  |  |
| 1. **Availability**: The system is operational and accessible when required for use. |  |  |  |  |
| 1. **Fault Tolerance**: The system operates as intended despite the presence of hardware or software faults. |  |  |  |  |
| 1. **Recoverability:** In the event of an interruption or a failure, the system can recover the date directly affected and re-establish the desired state of the system. |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Rating** | **Verbal Description** | **Description** |
| 4 | Highly Secured | Protects information, data, and has no weakness. |
| 3 | Secured | Protects information, data, and has minimal weakness. |
| 2 | Needs Improvement | Protects information, data, and has moderate weakness. |
| 1 | Poor | Protects information, data, and has various major weaknesses. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Security**  This characteristic represents the degree of security to which the Development and Assessment of the Gabaldon Water Billing and Management System protects information and data so that users, other products, or system have the degree of data access appropriate to their types and levels of authorization. | | | | |
| **Statements** | **4** | **3** | **2** | **1** |
| 1. **Confidentiality**: The system ensures that data are accessible only to those authorized to have access. |  |  |  |  |
| 1. **Integrity**: The system prevents unauthorized access to, or modification of computer programs or data. |  |  |  |  |
| 1. **Non-repudiation**: The system has attributed that makes it easy to operate and control. |  |  |  |  |
| 1. **User Error Protection:** The system protects users against making errors. |  |  |  |  |
| 1. **User Interface Aesthetics:** User interface of the system enables pleasing and satisfying interaction for the user. |  |  |  |  |
| 1. **Accessibility:** The system can be used by people with the widest range of characteristics and capabilities to achieve an identical goal in a specified context of use. |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Rating** | **Verbal Description** | **Description** |
| 4 | Highly Maintainable | Can retain its original form and can be restored to that form in case of failure and has no weakness. |
| 3 | Maintainable | Can retain its original form and can be restored to that form in case of failure and has minimal weakness. |
| 2 | Needs Improvement | Can retain its original form and can be restored to that form in case of failure and has moderate weakness. |
| 1 | Poor | Can retain its original form and can be restored to that form in case of failure and has various weakness. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Maintainability**  This characteristic represents the degree of effectiveness and efficiency to which the Development and Assessment of the Gabaldon Water Billing and Management System can be modified to improve it, correct it, or adapt it to changes in environment, and in requirements | | | | |
| **Statements** | **4** | **3** | **2** | **1** |
| 1. **Modularity**: Degree to which a system or computer program is composed of discrete components such that a change to one component has minimal impact on other components. |  |  |  |  |
| 1. **Reusability**: Degree to which an asset can be used in more than one system or in building other assets. |  |  |  |  |
| 1. **Analyzability**: Degree of effectiveness and efficiency with which it is possible to assess the impact on a product or system of an intended change to one or more of its parts, or to diagnose a product for deficiencies or causes of failures, or to identify parts to be modified |  |  |  |  |
| 1. **Modifiability:** Degree to which a product or system can be effectively and efficiency modified without introducing defects or degrading existing product quality |  |  |  |  |
| 1. **Testability:** Degree of effectiveness and efficiency with which test criteria can be established for a system, product or component and tests can be performed to determine whether those criteria have been met. |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Rating** | **Verbal Description** | **Description** |
| 4 | Highly Portable | Adapts to changes in environment and can be installed/ uninstalled in specified environment and has no weaknesses. |
| 3 | Portable | Adapts to changes in environment and can be installed/ uninstalled in specified environment and has minimal weaknesses. |
| 2 | Needs Improvement | Barely adapts to changes in environment and can be installed/ uninstalled in specified environment and has moderate weaknesses. |
| 1 | Poor | Cannot adapts to changes in environment and can be installed/ uninstalled in specified environment and has various major weaknesses. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Portability**  This characteristic represents the degree of effectiveness and efficiency to which the Development and Assessment of the Gabaldon Water Billing and Management System can be transferred from one hardware, software, other operational or environment to another. | | | | |
| **Statements** | **4** | **3** | **2** | **1** |
| 1. **Adaptability**: The system can effectively and efficiency is adapted for different or evolving hard ware, software or other operational or usage environment. |  |  |  |  |
| 1. **Install Ability**: Effectiveness and efficiency with which the system can be successfully installed or uninstalled in a specified environment. |  |  |  |  |
| 1. **Replace Ability**: The system can replace another specified software product for the same purpose in the same environment. |  |  |  |  |

**FEEDBACK / SUGEESTIONS**: