**Assumptions Log –** Integrated NPI Build Optimization Framework for Hardware Development

By

Aastha Lalit Motwani

**Name of Project:**

Integrated NPI Build Optimization Framework for Hardware Development

1. **Assumptions Log**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumption ID** | **Assumption** | **Category** | **Impact if False** | **Owner** | **Notes** |
| |  | | --- | | A-001 |  |  | | --- | |  | | Necessary software tools (Excel, Power BI) will be available and accessible to the team. | Technical | Project delays due to lack of tools or additional costs for new software. | Project Manager | Confirm tool access before development begins. |
| A-002 | Sample datasets will accurately represent real-world scenarios for material forecasting and BOMs. | Data | Inaccurate results and reduced relevance of project deliverables. | Data Analyst | Validate datasets before use; adjust simulations if needed. |
| A-003 | Stakeholders will provide timely feedback during review phases. | Stakeholder | Delayed deliverables and misaligned expectations. | Project Manager | Schedule regular review meetings with stakeholders. |
| A-004 | Resource availability (personnel) will remain consistent throughout the 6-month timeline. | |  | | --- | | Operational |  |  | | --- | |  | | Delays in project phases due to unavailability of key team members. | Project Sponsor | Assign backup personnel if needed. |
| A-005 | Simulated risk scenarios will be realistic enough to develop an effective predictive risk framework. | Technical | Ineffective risk framework, resulting in poor risk mitigation. | Risk Manager | Test the risk framework with diverse scenarios for reliability. |
| A-006 | The project scope will remain stable, with no significant changes or additions. | Scope | Increased workload, resource strain, and potential delays. | Project Manager | Define scope clearly and secure stakeholder sign-offs early. |
| A-007 | Team members possess the necessary skills to complete assigned tasks without additional training. | Skillset | Potential delays due to a learning curve or need for external training. | Project Manager | Provide just-in-time training if skill gaps are identified. |
| A-008 | Vendor collaboration data will align with the simulated environment to test material forecasting. | Vendor | Misalignment in data could impact the forecasting accuracy and project relevance. | Supply Chain Team | Align vendor inputs with simulated data parameters. |
| A-009 | The project timeline (6 months) is sufficient to complete all defined phases without scope expansion. | Schedule | Project overruns due to underestimating required effort. | Project Manager | Include buffer time in the timeline to mitigate potential overruns. |
| A-010 | Stakeholders will adopt the final deliverables and integrate them into their workflows. | Adoption | Limited utilization of deliverables, reducing the project's value. | Stakeholders | Provide training and ensure deliverables align with stakeholder needs. |