**Project Design Phase**

**Proposed Solution**

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| Date | 28 June 2025 |
| Team ID | LTVIP2025TMID37691 |
| Project Name | Sustainable Smart City Assistant using IBM Granite LLM |
| Maximum Marks | 2 Marks |

**Proposed Solution:**

The proposed solution for the Sustainable Smart City Assistant involves building an AI-powered platform using IBM Granite LLM to enhance urban sustainability and citizen engagement. It integrates real-time data from IoT sensors with natural language capabilities to provide services like policy summarization, eco-tip generation, forecasting, and anomaly detection.

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | Cities struggle with sustainability, citizen engagement, and real-time decision-making due to fragmented systems |
| 2. | Idea / Solution description | Build an AI assistant using IBM Granite LLM to provide smart services like policy summarization, forecasting, and eco-advice. |
| 3. | Novelty / Uniqueness | Combines LLMs with real-time city data for natural language interaction and personalized sustainability insights. |
| 4. | Social Impact / Customer Satisfaction | Empowers citizens, improves transparency, and promotes eco-friendly behavior. |
| 5. | Business Model (Revenue Model) | Freemium for cities, premium analytics and APIs for enterprises and partners. |
| 6. | Scalability of the Solution | Modular, cloud-native design allows easy expansion across cities and domains. |