**Project Charter**

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| **1.0 Project Identification** | | |
| **Name** | Monitoring Worker's performance and efficiency in the construction site using IOT Sensors. | |
| **Description** | Design, develop and implement the Worker’s recognition framework | |
| **Sponsor** | INNODATATICS | |
| **Project Manager** | Sharat Manikonda | |
| **Project Start date**  **Project end date** | |  | | --- | | 12/10/2022 | | 23/1/2023 | | |  | | --- | | **Project Team Resources** |   Understanding business constraints, Data collection, Preparing Data sets, EDA process, Model building by dividing into groups |

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| **2.0 Business reasons and objectives for project** |
| * To evaluate the performance prediction of Worker metrics * Respond to the level of Workers engagement and Worker’s perceptions relayed through the surveys. * Component of a healthy workplace * Performance of current Worker have to be captured * Trying to identify key metric points * Daily Basis Workers Performance should be monitored. * Based on the pre scheduled survey will be conducted to capture the details that the solution has implemented. |

| **3.0 PROJECT SCOPE** |
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| * To determine various features to be included that plays an important role while building the model. * To address the key points that will be differ during work on Construction site. |

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| **4.0 KEY PROJECT DELIVERABLES** | |
| **Milestones** | **Deliverables** |
| Constraints | Identifying business constraints and getting product design |
| Project charter | The pipeline of the project should be described |
| EDA and Model building | ----Doing EDA process and visualization  ----Concluding which model will be suitable to get high accuracy in model building |
| Project backgrounder | A supplement to the project charter outlining definitions and outcomes |
| Research summary | To include general, research from various sites and getting prior information |
| Guidelines | To include general program guidelines and financial guidelines |
| Tools and resources | To include templates, guides, sample surveys, quotes, tips, etc… for use by departments |
| Communication/ Implementation plan | Communication of framework, tools resources to stakeholder groups, communication plan |
| Website | To contain framework, guidelines, general information, tools and resources for use by departments, along with information on current activities/events. |

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| **5.0 KEY ISSUES** | |
|  | **Description** |
|  | For Labours Performance Tracking the data should contain so many Sensors Key Elements like Heartbeat Sensor, BVP, Temperature, Gas Sensor, Site location, Age, Working Hours etc., |
|  | Large dataset is required to predict the performance of Workers |
|  | The Model building which will be used should be given more accuracy |
|  | Maintain momentum and sustainability of activities |
|  | Timelines around the coordination of guideline development with development of the healthy workplace policy |

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| **6.0 RISKS** | |
| **S. No** | **Description** |
| 1 | Primary thing is to collecting data from various sources and make it in the form of a dataset |
| 2 | Going through the dataset we have to understand what are the constraints |
| 3 | In the data set how to deal with the missing values and categorical, unsupported formats |
| 4 | The pipeline that to be followed by the team so as to get the clear picture what is going to happen |
| 5 | Client satisfaction is mandatory |
| 6 | Project should be completed in the given period of time with the guidelines provided by the client |

| **7.0 CRITICAL SUCCESS FACTORS** |
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| * Buy-in and support from senior leaders, Construction Department, Workers * Effective communication * Workers input into development and implementation of recognition activities * Majority should be the result after model; building * All the factors should be given equality foe predicting * Activities are supportive of organizational values |

| **8.0 SIGNOFF** |
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| Project Sponsor:  Date:  23/1/2023 |