Project Charter Document

Project Name: Iron ore price analysis

Industry: Primary Iron Manufacturing

Department: Production or Process Engineering

Product/Process: price analysis

Prepared By

Document Owner(s)	Project/Organization Role
Pramod nemagouda	Data Analysis

Project Charter Version Control

Version	Date	Author	Change Description
1.0	13/09/2024	PRAMOD NEMAGOUDA	DOCUMENT CREATED
2.0	18/09/2024		RELEVANT RESEARCH PAPERS
3.0	21/09/2004		DATA COLLECTION AND UNDERSTANDING
4.0	23/09/2004		PROJECT ARCHITECTURE
5.0	26/09/2004		DATA COLLECTION AND UNDERSTANDING AND DATA DICTIONAR
6.0	30/09/2024		EXPLORATORY DATA ANALYSIS - (EDA) Python and SQL
7.0	01/10/2024		MISSING VALUES OBSERVATION
8.0	3/10/2024		DATA PREPROCESSING IN PYTHON AND MYSQL
9.0	5/10/2024		DATA VISUALIZATION
10	7/10/2024		FUTURE SCOPE AND CONCLUSION AND QUERIES

11	09/10/2024		FINAL PRECENTATION IS DONE

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1 PROJECT CHARTER PURPOSE

The project charter defines the scope, objectives, and overall approach for the work to be completed. It is a critical element for initiating, planning, executing, controlling, and assessing the project. It should be the single point of reference on the project for project goals and objectives, scope, organization, estimates, work plan, and budget. In addition, it serves as a contract between the Project Team and the Project Sponsors, stating what will be delivered according to the budget, time constraints, risks, resources, and standards agreed upon for the project.

2 PROJECT EXECUTIVE SUMMARY

Iron ore price analysis

Client: One of the leading steel manufacturer in India

Business Problem: The challenge lies in effectively analyzing the fluctuating prices of iron ore to inform strategic decision-making for stakeholders in the mining, manufacturing, and energy sectors.

Business Objective: Maximize profitability.

Business Constraint: Minimize costs through informed decision-making based on the analysis of iron ore prices.

Success criteria:

Business Success Criteria: Achieving a 10% increase in profit margins through optimized procurement and pricing strategies.

Economic Success Criteria: Generating a 20% increase in revenue from iron ore sales within the first year of implementation.

- Data Collection: Update this section after the research is done.
- Scope: If you are doing this for any specific department of the organization then please mention the same.
- Assumptions: E.g., Data will be provided by customer, Cloud & GPU will be provided by customer

- Risks: E.g., Required data might not be available; Server connectivity might be weak, etc.
- Costs: Project cost – You can do assumptions by putting [number of hours * number of human resources (cadre wise) * hourly cost]
- Timeline: High level timeline of the project. E.g., Project will be for 20 to 25 days.
- Approach: Data Analytics Project Management Methodology

3 PROJECT OVERVIEW

4 PROJECT SCOPE

4.1 Project Deliverables

Milestone	Deliverable
• Identifying Constraints and design the project architecture, explore various public forums to collect relevant data, Data Preparation.	• Deliverable 1.1—Identifying Constraints and design the project architecture. • Deliverable 1.2—Explore various public forums to collect relevant data. • Deliverable 1.3— Data Preparation
• EDA and Descriptive Analytics	• Deliverable 2.1— EDA and Descriptive Analytics • Deliverable 2.2— Insights documentation
• Show case and review, Final Presentation and documentation, Handover and KT.	• Deliverable3.1 – show case and review. • Deliverable3.2 – Final Presentation and documentation • Deliverable3.3 – Handover and KT

4.2 Deliverables Out of Scope

- Web Application
- Mobile App
- Cloud based deployment

4.3 Project Duration (start date: 17/06/2024 End date: 18/07/2024)

Project Milestone	Date Estimate	Deliverable(s) Included	Confidence Level
• Identifying Constraints and design the project architecture, explore various public forums to collect relevant data, Data Preparation.	[17/06/2024] - [20/06/2024]	• Deliverable 1.1—Identifying Constraints and design the project architecture. • Deliverable 1.2—Explore various public forums to collect relevant data. • Deliverable 1.3— Data Preparation	[High]
• EDA and Descriptive Analytics	[22/06/2024] - [30/06/2024]	• Deliverable 2.1— EDA and Descriptive Analytics • Deliverable 2.2--- Insights documentation	[High]
• Show case and review, Final Presentation and documentation, Handover and KT.	[01/10/2023] - [17/10/2023]	• Deliverable3.1 – show case and review • Deliverable3.2 – Final Presentation and documentation • Deliverable3.3 – Handover and KT	[High]

5   PROJECT CONDITIONS

5.1 Project Assumptions

● Data will be extracted from public sources and then client provided data is mapped and finally one master data will be shared by Innodatatics for further analysis.

● Dashboards and insights are mandatory.

5.2 **Project Issues** – *Fill it as and how project progresses.*

Priority Criteria

1 − High-priority/critical-path issue; requires immediate follow-up and resolution.

2 − Medium-priority issue; requires follow-up before completion of next project milestone.

3 − Low-priority issue; to be resolved prior to project completion.

4 − Closed issue.

#	Date	Priority	Owner	Description	Status & Resolution
1		High			
2		High			

5.3 Project Risks – *Identify if there are any risks that you foresee.*

#	Risk Area	Likelihood	Risk Owner	Project Impact-Mitigation Plan
1	[Project Risk]	[High/Medium /Low]		
2	[Project Risk]	[High/Medium /Low]		

6 PROJECT REFERENCES – Any previous projects you have referred. If yes, please share the details.

Project	Description

7 APPROVALS

Prepared by   _____
                          Project Manager

Approved by   Sharat Chandra M_____
                          Project Sponsor

                          _____
                          Executive Sponsor

                          _____
                          Client Sponsor