**PROJECT FLOW DOCUMENT (PFD)**

**PROJECT STEPS**

* Requirement Gathering (BRD – Business requirement document)
* Data Collection (sources - **xlsx, csv, Database**)
* Data Modelling
* Data Cleaning/ Data pre-processing
* Additional Information/Expertise (**DAX**)
* UI Reports (Charts/Custom Charts)
* Workspace creation on power bi web service
* Publish report from local to cloud
* Dashboard creation
* Gateway Establishment
* Schedule Refresh
* Report App for Mobile view

**TASK SEQUENCE**

* Robust Mechanisms for **data extraction** from different sources (**As file, As folder, From Database**).
* After Extraction on Premise **Data Transformation** using **Power Query**.
* **Data Cleansing**

1. Identifying Master Table/Fact Table
2. Removing duplicates from dimension tables
3. Fixing data types for specific columns
4. Removing insignificant columns and splitting columns
5. Creating column (by index) to perform join operations as per business requirement (**“Geo Key”**)

* **Data Loading** operation (after transformation and cleaning) on power bi view.
* **Data Modelling**, establishing relationships between fact table (main table) and dimensional tables.
* **DAX Functions**, creating **“Date Master”** Table based on date from sales table for analysis based on time intelligence functions like (Year, Quarter, Month, Week, Days).
* **DAX Functions**, creating **“Total Revenue”, “Total Cost”** and **“Gross Profit”** as calculated columns based on business requirement document.
* Relating Date Master table with sales (final data modelling).
* **Report Creation** as per business requirement and key insights for decision making like **KPI’S** (Total Revenue, Gross Profit and Total cost) determining Quarter on Quarter growth rate and Month on Month growth rate by creating measures.
* **Publish Report** to the Created workspace on power bi web service.
* **Dashboard Creation** on power bi web.
* **Configuring Gateway** to automate refresh.
* **Scheduling Refresh** as per requirement.
* **Creating report app**.