👪 Header / Top Navigation Bar

- Logo (Utility/Project branding)
- Project Title: "ERP GIS Implementation Phase II: Utility Mapping & Field Verification"
- User Profile Icon with dropdown (Profile, Settings, Logout)
- **Language Selector**
- Notification Bell (Field reports, updates, alerts)

🖈 Sidebar Navigation Menu

- 1. n Dashboard
- 2. Mapping
 - View Network Map
 - Layer Controls (Water, Sewer, Electric, Telecom, etc.)
 - · Add/Edit Utility Feature
- 3. Prield Verification
 - · Assign Field Tasks
 - Upload Field Data
 - Verification Reports

4. Reports & Analytics

- Mapping Progress
- Field Verification Status
- Data Accuracy Reports

5. Rield Workforce

- Field Team Management
- Attendance/Activity Tracker
- GPS-based Logs

6. Data Management

- Import/Export Data
- GIS Layer Management
- Backup & Recovery

7. Admin Settings

- Role-Based Access
- Integration Settings (ERP, SCADA, etc.)
- System Logs

Project Overview

- Progress Summary Cards:
 - Dtility Mapping Completion (%)
 - Prield Verification Completion (%)
 - Devices/Assets Mapped
 - Verified Assets

GIS Map Preview Widget

• Interactive map with basic layers and location pins for pending verifications.

Recent Analytics Snapshots

- · Graphs:
 - Daily Field Verification Trends
 - Mapping vs. Verification Completion
 - Data Accuracy Levels

Recent Activities / Notifications

· List of recent uploads, approvals, or task updates.

Function	Description
♣ Add Utility Feature	Direct link to add pipelines, poles, valves, etc.
📤 Upload Field Data	Upload GPS logs, photos, forms from field devices
Search Utility	Search utility asset by ID, location, or type
Task Scheduler	Assign tasks with maps and deadlines
▲ Download Reports	PDF/CSV exports of progress, GIS data
SERP Integration	Sync with ERP (SAP, Oracle, etc.)
GIS Tools	Measure, buffer, spatial queries
Live Field Tracker	Real-time map of field team locations (if GPS-enabled)

GIS Mapping & Field Verification Dashboard

Header Section

• Project Name: ERP GIS Implementation - Phase II

• User Profile: Logged in as [Username] | Logout

Date/Time: [Dynamic Clock]

• Breadcrumb Navigation: Home > GIS Dashboard

Main Map View (Central Panel - 60%)

- Interactive Map (GIS Engine) Leaflet / Mapbox / ESRI
 - Toggle Layers:
 - Utility Lines (Water, Power, Gas, etc.)
 - · Assets (Valves, Meters, Poles, etc.)
 - · Field Verified Features
 - · Pending Verification
 - Draw/Edit Tools (Polygon, Line, Point)
 - · Locate Me / GPS integration
 - Search Bar (Parcel ID, Address, Asset ID)
 - Legend & Scale
 - Basemap Switcher (Satellite, Street, Topo)

Seft Sidebar: Utility Mapping Tools (20%)

- Layer Manager
 - · Check/Uncheck Layers
 - Opacity Slider
- Data Upload
 - Import Shapefiles / GeoJSON / CSV
 - · Sync with ERP Asset DB
- Filter Tools
 - Filter by Utility Type / Status / Date
 - Show Verified Only / Unverified Only

- Coordinate Capture Tool
 - Capture and copy Lat/Lng
- Map Print / Export
 - Export PDF/PNG
 - Generate Report

Right Sidebar: Field Verification Tools (20%)

- Field Inspection Panel
 - · Feature Info: On-click popup of selected asset
 - Asset ID, Type, Location, Status, Last Verified, Notes
 - Verification Actions:
 - Mark as Verified
 - · Add Photo / Upload Docs
 - Update Asset Info (Editable fields)
 - GPS Accuracy Meter (for mobile/tablet use)
- Task Assignment & Tracking
 - · Assign Task to Field Crew
 - View Assigned Tasks
 - Completion Status / % Complete

Bottom Panel: Dashboard Widgets (Collapsible)

Summary Stats

• Total Features: X

• Verified: Y | Pending: Z

· Assets with Issues: #

• Charts / Graphs

• Bar Chart: Verified per Utility Type

· Pie Chart: Verification Status

• Notification Log

- Recent Activity / User Logs
- Sync Logs / Errors