Piloting Smart Tracking in DG & PG at Manikgonj

**Implementation:**

1. DG

* Installed GPS Tracker (DMA Tracker and SIM) and Fuel sensor (DMA device) in DG.
* We are getting the proper location data, engine on/off status, fuel volume (with minimal fluctuation) in the Dingi Dashboard.

1. PG

* GPS Tracker (Dingi Tracker and SIM) is attached with a PG to track.

**Findings:**

1. DG

* All of the DGs are same type of configuration
* Every DG has a hole on top of it, where the fuel sensor can be installed. Proper Drilling, sealing and nut-bolt is required for proper hardware installation. Also the wiring needs professional touch up.
* There is 12 volt Supply in DG for powering the GPS Device and fuel sensor.
* The DG engine cut off is possible as there is a circuit in order to integrate with the GPS Assets SmartTracking system.
* DG fuel tank can have at most 500L of fuel with the dimension of length: 122cm, Width: 61cm, height: 68cm.

1. PG

* PG does not have a 12 volt power supply to power up the GPS tracker and fuel sensor. It has only AC-220V output.
* It doesn’t have a fuel meter gauge to integrate with the GPS Assets SmartTracking system.
* It has a built in battery but after certain period time the battery no longer be able to provide backup as the battery servicing not maintained. As the battery no longer support electric start the user use the recoil start or pull start.
* We bring a PG circuit in order to reengineered the power on/off status.
* PG has dynamic fuel tank dimension as per different manufacturer and model.
* PG needs very small fuel sensor since the depth of the fuel tank is about 4” to 5”.

**Requirements:**

1. DG

* DG location has a predefined location name in the DB, needs to show that name along with the respective assets in the map.

1. PG

* The most important assets to track are the PGs.
* PG location, status of on/off, fuel consumption.
* PG location has a predefined location name in the DB, needs to show that name along with the respective assets in the map.