Charter Template

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| **Project Title:** Commission Soku Flow station UPS**.**   |  | | --- | | **Business Case/Objectives:**  Soku flow station currently depends on two generators (gas & Diesel) and a 10KVA UPS to supply continuous power supply to the flow Station. Whenever there is mains power failure, the autonomy time (3hrs) of the existing UPS is insufficient to provide power to sensitive instrumentation until there is an intervention to start-up the diesel generator as the facility is unmanned. This has led to power drain in most cases, causing damages to sensitive instrumentation because of sudden power loses, as well as high cost of repairs and unscheduled deferment. It has therefore become necessary to install a UPS of high capacity with more autonomy time to provide uninterruptible power during mains power failure. | | |  |  |  | | --- | --- | --- | | Potential Benefits & Measurement:  1. Uninterruptible power supply to the flow station even during generator trip.  2. Significant reduction of instrument failure owing to power outages.  3. Reduced down time/unscheduled deferment arising from instrument failure.  4. Reduce DUOC because of frequent CM activities. | Project Scope/Actions:  **Phase 1:**  1.Scope the collapsed battery room floor and battery rack. Start Date: 08.11.2017 End date: 27.12.2017 Action Party Obiakor, Obiora  2. Engage assert engineering in a cost Review/Challenge session. Start Date: 14.12.2017 End date:29.12.2017 Action Party: Aminu Sani/Festus Azibator  3. Cut out, replace damaged structural members and install checkered plates as new floor. Start Date: 26.02.2018 End date:12.03.2018 Action Party: Obiakor, Obiora  4. Fabricate new battery racks:  Start date: 26.02.2018 End date: 16.03.2018 Action Party: Obiakor, Obiora  5. Repair broken door hinges Start date: 19.03.2018 End date: 21.03.2018 Action Party: Obiakor, Obiora  6. Position and install batteries on the Rack. Start date: 25.03.2018 End date: 02.04.2018 Action Party: Aminu Sani/Festus Azibator  7. Connect installed batteries to 30KVA AEG UPS unit:Start date: 03.04.2018 End date: 06.04.2018 Action party: Aminu Sani/Festus Azibator  8. Hook-up of UPS assembly to the LV Switchboard: Start date: 09.04.2018 End date: 11.04.2018 Action party:: Aminu Sani/Festus Azibator  **Phase 2**  Pre-commission/ commission and conduct 72 hours reliability test: Start date16.04.2018 End date 25.04.2018 Action Party Aminu Sani/Festus Azibator | Critical Success Factors:   * Nickel/Cadmium Batteries * Reinforced battery room floor * Reinforced rack * Regular Supply of PMS and lube oil. * Reliable Gun boats. * Adequate planning of work scope * Early start and late return from flow station. * Reliable passenger boat. * A well-resourced electrical team dedicated to the activity | |  |  |  |  | | --- | --- | --- | | **High-level Timeline:**  L1: 20.12.2017  L2: 24.01.2018  L3: 14.02.2018  L4: 02.05.2018  L5: 09.05.2018 | **Summary:** Insufficient autonomy time of the existing UPS has led to frequent failures of sensitive instrumentation. This cadence seeks to provide a more stable uninterrupted power supply during Mains power outages as a stop-gap measure pending restoration of power supply. | Project Sponsor:  Implementation Lead: Soku PUM  Project Team: Aminu Sani/Festus Azibator | |