

# **COMPLETED PROJECTS FOR CY 2016**

**Project Title** : **Supply, Delivery, Installation, Testing and Commissioning of ILS with co-located Low Power DME & DVOR with co-located High Power DME**

**Date Completed** : **July 11, 2016**

**Original Contract Amount** : **P 205,588,000.00**

**Revised Contract Amount** : **P 187,872,478.70**  
**(Variation Order)**

**Rationale:** This project aims to replace the existing Nav aids that were already at the end of their useful life and can be considered unreliable anytime the equipment fail. CIAC replaced the equipment to enhance safety and provide precision guidance to aircrafts for safe landing and take-off in conformance to ICAO Standards & Recommended Practices (SARPS) and CAAP Manual of Standards (MOS).

**DOPPLER VERY HIGH FREQUENCY OMNI DIRECTIONAL RANGE (DVOR) WITH CO-LOCATED HIGH POWER  
DISTANCE MEASURING EQUIPMENT**



**DVOR Antenna**



**DVOR Transmitter**

**High Power DME Transmitter**

# **INSTRUMENT LANDING SYSTEM (ILS) @ RUNWAY 20L AND 02R WITH CO-LOCATED LOW POWER DISTANCE MEASURING EQUIPMENT**



**Glide Path Antenna and Transmitter  
Shelter**



**Glide Path  
Transmitter**

**Low Power DME  
Transmitter**



**Localizer Equipment  
Shelter**

**Localizer Antenna**



**Localizer Transmitter**

## Generators for ILS And DVOR Equipment



**Generator Shelter**

**Reserve Tank**



**Generator Set**

**Project Title : Supply, Delivery, Installation, Commissioning & Training of VHF/UHF Radio System for ATC Air Ground Communications & Voice Logging System**

**Date Completed : March 20, 2016**

**Original Contract Amount : P 28,888,000.00**

**Rationale: This project aims to meet air-ground communications within the airspace responsibility of the tower service in terms of coverage, clarity of signal, transmit & receive audio, reliability, redundancy, equipment integration compatibility and other benefits in terms of performance and cost.**





**New UHF/VHF Air to Ground Radio  
Transmitter**



**New UHF/VHF Air to Ground  
Radio Receivers with UPS**





**New Voice Logging System**



**New Generator Set for  
Transmitter System**



**New Uninterruptible Power  
Supply for Transmitter System**

**Project Title : Installation of 26.75 km security fence & 13.24 km perimeter lighting systems**

**Date Completed : February 12, 2016**

**Original Contract Amount : P 93,009,427.76**

**Variation Order : P 92,841,458.51**

**Rationale: This project aims to improve the level of security at Clark International Airport by providing an illuminated buffer zone at the airfield and additional security fence to prevent further intrusion of informal settlers at the controlled area of CIA.**









