ANNEX C   Electronic Monitoring (EM) Specifications

1.1   EM Server

It is preferable that the central computer system reside within the Government's data centre. However, the Government will consider a solution in which the central computer system resides at the contractor's site. In either case, there must be identified a satisfactory level of redundancy in the event of a server or internet connectivity outage.

1.2   GPS Monitoring:

The monitoring devices should be able to:

- Pinpoint the location of any client
- Receive at least one (1) GPS location point per minute in all monitoring modes
- Call in to report location and movement data at least once every fifteen (15) minutes when the offender is compliant and immediately when the offender commits a violation

1.3   EM Client Software

The electronic monitoring client software should be able to:

- Use stand-alone software or web-based access
- Perform the monitoring function to an unlimited number of different curfew periods per day and on a customized schedule for each client
- Retain personal information for each participant including name, address, phone number, equipment serial numbers,
- Allow EMC personnel to be able to enter, modify and delete any of this personal information
- Receive information from the devices including current location using GPS latitude and longitude in real time and location history
- Receive notifications of unauthorized absences/late arrivals into a specified inclusion zone, unauthorized presence in a specified exclusion zone(s), equipment malfunctions
- Send an alert to the devices (e.g. audible or vibration)
- Generate standard reports include number of clients, number of incidents (equipment reports, violations, equipment malfunctions, etc.), client histories, and curfew schedule.
- Generate custom reports (e.g. number of days a client is monitored, number of male/female, commitment offense, demographic, curfew, and notification configuration data for each client)
- Record all data compiled during a client's term on the EM program
- Report printing and emailing
- Monitor client activity data when it is transmitted from the device to the central computer system
- Notify designated personnel of client violations and equipment status by either SMS text message, email or voice telephony at our discretion
- Have distinct levels of security on a client-by-client basis
- Customize all violation reporting intervals at our discretion.

1.4   Internet Access

- The Contractor must provide internet access to the EM software using a BlackBerry, iOS and Android smartphone or tablet.
- Each electronic monitoring officer must have their own user name and security password.
- Internet access must allow EMC and client supervisory personnel to view their clients placed on the monitoring program including the ability to view their current status (whether active or inactive) including location, enroll a new client, create and edit schedules, view event histories, look up client information, view reports, etc.

1.5   EM Devices

- Fully integrated one piece unit with GPS capability
- Capability of being tracked in real-time or near real-time by a web-based and smartphone client tracking program
- Minimum thirty-six (36) hours of battery life
- Waterproof (to at least 3 meters deep) in both fresh and salt water
- Capability to send immediate notification when strap or case is tampered
- Capability to send immediate notification when GPS signals are being blocked, jammed or the subject of interference (e.g. foil)