UNHCR – TORs for VTS

Terms of Reference (TORs) for a Vehicle Tracking System:

Real-Time Location Tracking: The system should provide accurate, up-to-date GPS-based location information for all vehicles in real-time. The system should possess dual technology tracking features like GPS and sim cards.

Individual Trip/Date Wise Vehicle Tracking: The system must allow admins to view and analyze the movement history of each vehicle on a trip-by-trip or date-wise basis.

Tracking Data Storage: The vehicle tracking system must store location and trip data for at least 06 months, allowing admins to access past time information.

Geofencing: Implement geofencing capabilities to create virtual boundaries around specific locations. This feature will enable admins to receive alerts when vehicles enter or exit these designated areas, enhancing security and monitoring.

Map Type: Provide flexibility in choosing different map types (e.g., satellite, terrain, or road) to suit user preferences and aid in better navigation and understanding of vehicle movements.

Long Idle Times: Monitor and report long idle times for vehicles, which can help identify potential issues like mechanical problems or unnecessary stops.

Speeding Alerts: The system should alert admins when a vehicle exceeds predetermined speed limit applicable to a particular area as per UNHCR standards and local traffic laws. The system must differentiate between the urban and highway area speed limits.
Upon speed violation, the system should generate an email addressed to admins by providing the given below information.
- Vehicle Registration
- Date and time of the violation.
- Vehicle's Speed at the time of speed violation along with permitted speed limit in the area.
- GPS Location of the speed violation incident (Include Area Name if Possible)
- Driver's ID/Name

Vehicle Utilization: Track and analyze vehicle usage data to optimize fleet management, identify underutilized vehicles.

SOS Alarm: Incorporate an SOS alarm feature that allows drivers to send emergency alerts in case of accidents or critical situations, ensuring quick assistance and enhancing driver's safety.

Reports: Generate various reports such as, distance traveled, driver-wise speed alert etc.

Driver ID Capture: The system should capture and store driver ID information for each trip, along with speed violations (if any)

VTS System Safety Features:
Battery tampering alert
Jammer detection
System alteration alert