Terms of Reference: Proposed Vehicle Tracking System for UN Fleet in Zimbabwe

No.	System Feature	System Specifications
1	**Real Time Tracking**	Location of the vehicles is tracked on the map as it moves from point to point (maximum 15 seconds refresh cycle).
		Vehicle GPS location is displayed on a map along with vehicle speed if the vehicle is moving.
		The current state of the vehicle like moving, parked since or idle is shown using map markers.
		System flexibilty allowing user definition of own locations (e.g. plotting of UN offices, field project sites etc.)
		Multiple vehicles can be grouped and managed simultaneously using simple to use interface.
2	**Trip History**	All trips made by a vehicle can be graphically traced on the map.
		Option to replay the entire trip.
		Information such as kilometers traveled, stoppages, idling, engine time and average speed is displayed.
		Over speeding and overdrive stretches are highlighted on the map.
3	**Driver Behaviour Alerts (SMS, Email & Mobile App Alerts)**	Free Email & Mobile App alerts
		Minimally priced SMS alerts
		Start of day Alert, Route deviation Alert, Excessive stoppage Alert, Idling Alert, Stoppage Alert, Tampering Alert, Over-speeding Alert, Maintenance Alert, Fuel pilferage Alert, Geo-fencing Alert, Impact Detection Alert. Etc.
4	**Anytime, Anywhere Access**	Vehicle tracking system accessibility on web, tablet and on smart phone.
		Easy, anytime, anywhere access with user friendly app
		Access to vehicle movement in real time regardless of access location
5	**Geo-fencing**	Abiility to create geographical boundaries on the map around a landmark.
6	**Historical Reports and Dashboard summary**	Online system memory to maintain tracking and reports on vehicles up to 90 days in the past.
		Offline (local storage) memory to maintain tracking and reports on vehicles up to 360 days in the past through promted periodic downloads and local storage backup.
		Total distance traveled, idling time, over speeding, stoppages and utilization, Report on harsh driving and speeding, See how many times certain locations are visited, Vehicle Trip Summary (detailed and printable summary), Movement/Park and vehicle mileage report, Departures and Arrivals (list of stops at locations and abnormal stops), Vehicle anomalies (harsh braking, over-speeding, tampering, battery events), Door Opening Details, Engine Over-idle Alert, Alerts summary report, Idle Detail, Abnormal High Fuel Consumption, Last Location Detail/ History Speeding Detail, Trip Mileage, Exception Detail, Stop Detail, Backup Battery Failure Backup Battery Low, Engine Over-heat Alert, Fuel Low, Idle Begin, Impact Detection Alert.
7	**Easy to use, user friendly interf**	A simple and intuitive user interface providing group-wise access without the need for multiple accounts.
		Bird's eye view of entire fleet with ability to report historical and real-time data.
8	**Access Control and User Manag**	User management and access control.
		Ability to add and modify the user profiles, and also manage access privileges via roles.
		Ability to to assign one or more pre – defined roles to a user and perform grouping wherein a set of users are placed in a group providing ability to perform vehicle tracking for a group of vehicles and also view the report information for a group as a whole.
9	**Analytics**	Use of enterprise solution designed to harness the power of location based services and integrating it with cloud computing to make actionable fleet data available at the operator's fingertips to ensure predictive performance of the fleet.
10	**Easy Installation**	Easy installation and maintenance of device. (Installation turn around time from time of official request - 48 hours).
		Compact device that can be installed discreetly.
11	**Driver Identification**	All driving statistics are automatically recorded and attached to a driver
		Create personalised reports for individual drivers
		Identify the driver in the event of theft or hi-jacking
		Prevent vehicle usage during unauthorised times
12	**Panic Button**	For access to road side assistance, UNDSS Security Operations Centre.
13	**Fuel Management**	Experience a user defined approximation module that gives trip fuel consumption estimates based on pre-determined vehicle consumption rates. Fuel management has an option for fuel sensors that give accurate fuel information and reports. With capacity (using sensors) to accurately collate and accumulate actual fuel used for a trip and for a given specific period, furnish each agency with a vehicle efficiency report. This is feasible relating section 13 and section 6 of attached. *The efficiency (KMs/Liter) produced by the tracking company can be compared to an ideal which can be obtained from AAZ.* Install some form of tracking gadgets on organizational office generators for effective and efficient use of petrol / diesel bought for generator purposes.
14	**Training**	Use of user interface
		Periodic Annual Refresher Trainings
15	**Suppot**	Service needs both physical and virtual presence not virtual alone. This is because electronic units can develop problems which require manual attention while the vehicle is out in the country and we will need technical support from their side in the event of such occurrence.