Annexure I (Rev – I)

Technical Specification of GPS Tracking System

	Hardware Specification 1
1	Power : 8-28 Volt, 1 mA (Sleep mode) (90 m A (in transit) – vehicle battery
2	Operating Temperature : -40 to 65 Celsius
3	Operating Humidity : up to 80%
4	IP – 65 water proof casing: the device should be water proof and should minimum follow IP 65 standard
5	Temper Proof: The device should be temper proof and provide alert in case it is removed from the battery supply
6	Built in Memory : the device should have built in memory to store the data for minimum 1 day if the device is out of network
7	Battery Backup : 4 hours
8	Hardware should have external PS and GSM antenna to support better network coverage
	GPS Specification
1	U – blox make
2	50 channel, GPS L1 frequency , C/A code
3	SBAS: WAAS,EGNOS,MSAS,GAGAN
4	Hot start time less than 1 second
5	Tracking sensitivity : 160 dbm
6	Horizontal position accuracy : 2.5 m
7	AEC - Q 100 qualified GPS chips
8	Lead free
9	RoHS Compliant
10	Manufactured in ISO/TS 16949 certified sites
11	Qualified according to ISO 16750
	GSM Specification
1	Certificates : AT&T (USA), GCF, FCC,IC ,PTCRB and R & TTE as applicable
2	ISO 16750 "Road vehicle – Environmental conditions and testing for electrical and electronic equipment"
3	Lead free
4	RoHS Compliant
	IP Rights
1	Product design and firmware Ip rights should be owned by the company
2	Soft ware solution code IP rights should be possessed by the company
	Software Features
1	Software should have mobile website to allow tracking via smart phone
2	Application should have feature to set SMS alert – it should be customized for different

	events. SMS need to be sent via server.
3	Online Software /Website interface should allow tracking of all vehicles from same screen with options to search /select individual district and track all vehicles of each district
4	Software to allow multiple log – in with details of each district with different username and multiple maser username to track all vehicle.
5	MIS reports and data backup for 365 days. Option to download data after 365 days to keep the record. Software should have a feature to download / upload the data to see complete details of previous year
6	Up time of the server to be more than 95%
7	Bidder need to manage the complete application on his server
8	Uptime of the application should be more than 99% and the bidder will ensure data safety and privacy
9	Application should have Google Map for the tracking of vehicle. It should have option to see Google Earth View and Satellite view.