## TECHNICAL BID PROFORMA Item Name: Connected four-wheeler

## 1.0 Bidder Eligibility Criteria:

I	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
I	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 <sup>th</sup> September 2020 and other subsequent orders issued therein.			
2.0	Bidder Eligibility Criteria-II	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1	The service center should be within Chennai, Tamilnadu. Proof of facility registration, location & contact details to be provided along with technical bid.			

## 3.0 Technical Compliance:

S.no	Technical Specification	Complied/not complied	Refrence pg no.
A	Quotations are invited to provide a connected car with an OBD2 port to collect the in-built sensor data and communicate with surrounding vehicles (V2V) with such capabilities. List of variables to be collected include:		
	Ignition status		
	<ul> <li>Accelerator pedal input</li> </ul>		
	Brake pedal input		
	Clutch pedal input		
	Gear position		
	Engine speed		
	Longitudinal acceleration		
	Lateral acceleration		
	Wheel speed (4 wheels)		
	Brake pressure (4 wheels)		
	Tire pressure (4 tires)		
	Fuel consumed		
	Odometer information		
	Vehicle speed		
	ABS activation		
	Steering wheel input		
	<ul> <li>Estimates of road friction coefficient and road gradient</li> </ul>		
	Parking brake engagement		
	<ul> <li>Cumulative wheel rotations</li> </ul>		
	Emissions data from sensors		
	Battery condition		

В	The bidders should provide decoding rules to decode the CAN frames into scaled engineering values or physical values. For this, the following information is to be provided to use in: physical_value = offset + scale * raw_value_decimal.	
	Bit start: Bit at which the signal starts	
	Bit length: Length of the signal in bits	
	Offset: Signal offset value	
	•Scale: Signal multiplier value	
C	Name of each physical value with clear explanation should also be provided.	
D Addi	The car shall have a provision to communicate the selected data in real time to an on-board data logger or cloud or to remote server (with access to the buyer) at a minimal data logging frequency of 100 Hz. It should allow the integration of external sensor modules (e.g. LIDAR) with the CAN bus. The car should allow access to the on-board display device (if available) to display custom built third party algorithms. It should communicate with neighbouring vehicles with connecting capabilities to transfer information.	
Audi	uonai renns and Conditions	
1	Warranty – 1 Year	

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the above points with document proof as required. Failing which bidders will be technically disqualified)

SIGNATURE OF BIDDER ALONG WITH SEAL OF THE COMPANY WITH DATE