Bid Number: GEM/2019/B/154015
Dated: 11-01-2019

Bid Document

Bid Details	
Bid End Date/Time	30-01-2019 09:00:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	15 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence Research & Development
Organisation Name	Defence Research And Development Organisation (drdo)
Office Name	Terminal Ballistics Research Laboratory,chandigarh
Total Quantity	1
Item Category	E-Tourist Vehicle
MSE Exemption For Years Of Experience And Turnover	Yes

E-Tourist Vehicle (1)

Technical Specifications

* As per GeM Category Specification

Specification	Specification Name	Values	Allowed Values
Generic Parameters	**Type of E-Vehicle**	Fully Electric, Battery Operated, Motor Driven.	Fully Electric, Battery Operated, Motor Driven.
	Make and Model Number of Tourist E-Vehicle	-	*
	The vehicle Must Fabricated From Good Quality Steel properly Painted to avoid Rusting for more than 5 Years,	Yes	*
	Name and Grade of Steel from which vehicle Body Framed as per IS:2062 (Latest)	-	*

Kerb Weight	460	Any applicable numeric value
Laden Weight (Kerb Weight + Loading Capacity including driver , passenger , and luggage) (kg)	680	680.0
Run Distance (for a Full Charge of Battery , to be tested with full load at maximum AIS-040))	80	80.0
Power Transmission from Motor Shaft to Wheels	Direct Mounting	Direct Mounting
If others, please Specify the Mechanical Mechanism otherwise Put NA	-	*
Material of the roof of BOV	Fibre glass of good quality	Fibre glass of good quality
If others please specify the material Otherwise put NA	-	*
Thickness of Material of Sheet used for Roof of vehicle	2	*
Type of Battery as per AIS-048	Lead Acid	Lead Acid
Capacity of the Battery approved by ICAT/ARAI (Ah)	165	165
Battery Bank Voltage ,Nominal	48	48
Nominal Filled Weight of the Battery	30	Any applicable numeric value
Motor Controller (Must Suitable for starting, accelerating, decelerating, driving , and stopping of E Vehicle	-	*
Battery Charger	220/230V nominal input voltage, high efficiency type	*
Charging Current	18	*
Type of Motor	Brushless DC Motor	Brushless DC Motor

Motor Output Power ,48V at Full Load	1600	1600.0
Instrument Panel Containing Speedometer and Battery Charging Indicator	Yes	*
Overall Efficiency of the e-vehicle (to be tested at Full Load with maximum speed as per Concerned AIS standards (%)	92	Above 75
Gradeability of e-vehicle , 30 Gradient -Start and Move with a speed of 5kmph or above 70 Gradient - ability to start and Move (to be tested at full procedure as per AIS -003 Load (degree)	Yes	*
Glass Windshield with wiper motor as approved by ICAT/ARAI	Yes	*
Numbers for Roof Handles to ease passengers entry and Ride	4	*
Vehicle Integration ,packing of Electrical and electronics wires and devices shall be such that the vehicle can run in rainy Season without any problem	Yes	*
Seat Must be Good Quality with Proper cushioning	Yes	*
Vehicle lighting System	LED based	*
Reverse Gear Facility	Yes	*
Yellow Color reflective tape on Front and Rear Side of the Vehicle	Yes	*
Equipped with First Aid Box	Yes	*
Equipped with Fire Extinguisher	Yes	*
Equipped with Start	Yes	*

	and Stop Button, parking Lights , Back lights with Reverse Gear Facility		
Certification	Vehicle Certification from VRDE, ICAT, ARAI	No	*
	Vehicle Certification Number and Date	-	*
	If No, Vehicle Certification from Others Agency ,Name of the Agency and Certificate number with date	-	*
Constructional Parameters	The Mounting of Batteries in E- vehicles shall be such that they are not displaced from their place and there is no spillage of electrolyte when vehicle is driven on Gradient or any aother type of road	Yes	*
	Seating Capacity (including driver)	11	4, 6, 8, 11, 14
	Length of vehicle	3.9	3.9
	Width of vehicle	1.2	1.2
	Height of vehicle	1.95	1.95
	Ground Clearance as per IS : 9435	180	Above 180
	Turning Radius	6000	Any applicable numeric value
	Wheel Base	3150	Any applicable numeric value
	No of Wheels	4	*
	Size of Front Tyre (mm)	-	*
	Size of Rear Tyre (mm)	-	*
	Brake Type (Front)	-	*
	Brake Type (Rear)	-	*
	Suspension System (Front)	-	*
	Suspension System (Rear)	-	*
	Maximum Overall Dimensions of the Battery (L x Wx H)	-	*

	(mm3)		
	Battery Make as per AIS :048:2009	Exide	Okaya, Exide, Ceil, Amaron, Others
	If others please specify the Name of Brand ,Otherwise put NA (as per AIS :048:2009)	-	*
Performance Parameters	Compliance to AIS- 038 for Battery operated vehicles	Yes	*
	Compliance to CMVR rules	Yes	*
	Speed of the e-vehicle (to be tested with Full Load) (kmph)	25	20 - 25
	Battery Warranty	1	*
	No Of Free Service	1	*
	Complaince of Centre of Gravity of Vehicle as a Compulsory Norms for Safety	Yes	*
	Confirming to Applicable Environmental Test	Yes	*
	Noise level must be Low during Operation	Yes	*
	Warranty	12	*

* Bold specifications are the golden parameters.

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Harish Kumar	134111,Terminal Ballistics Research Laboratory Ramgarh Range, Distt Panchkula	1	90

EMD Detail

Required	No

ePBG Detail

Required	No

Splitting

Bid splitting not applied.

Buyer Specific Additional Terms and Conditions

1. **Scope of supply (Bid price to include all cost components) :** Supply Installation Testing and Commissioning of Goods

This Bid is also governed by the General Terms and Conditions

---Thank You---