

Bid Document

Bid Details	
Bid End Date/Time	05-11-2018 11:00:00
Bid Validity	90 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence Research & Development
Organization Name	Defence Research And Development Organisation (drdo)
Office Name	Mmd
Total Quantity	1
Item Category	e rickshaw passenger

E Rickshaw Passenger (1)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Allowed Values
Generic Parameters	Type of E Rickshaw	Fully Electric, Battery Operated Motor Driven	Fully Electric, Battery Operated Motor Driven
	Model Number of E-Rickshaw	-	*
	The E rickshaw Must Fabricated From Good Quality Steel properly Painted to avoid Rusting for more than 5 Years,	Yes	*
	Name and Grade of Steel from which E Rickshaw Body Framed	-	*
	Kerb Weight of E-Rickshaw (kg)	329	Any applicable numeric value
	Laden Weight &(Kerb Weight + Loading Capacity including driver passenger and luggage) (kg)	719	Any applicable numeric value

Run Distanc(for a Full Charge of Battery , to be tested with full load at maximum AIS-040))(km)	100	100 , 75 , 85 , 90
Ground Clearance as per IS : 9435 (mm)	200	180 , 190 , 200
Turning Radius (mm)	2500	2050.0 , 2250.0 , 2500.0
Wheel Base (mm)	2080	2010.0 , 2030.0 , 2080.0 , 2170.0
Power Transmission from Motor Shaft to Wheels	Direct Mounting	*
Please Specify the Mechanical Mechanism otherwise Put NA	-	*
Material of the roof of E-Rickshaw	Fibre Glass of Good Quality	Combination of Fibre Glass with good Quality Metal , Fibre Glass of Good Quality
Thickness of Material of Sheet used for Roof of E-Rickshaw (mm)	3	Any applicable numeric value
Type of Battery as per AIS-048	Lead Acid , EV Grade , Tubular Deep Discharge	Lead Acid , EV Grade , Tubular Deep Discharge
Capacity of the Battery approved by ICAT/ARAI (Ah)	100	100 , 120
Battery Voltage ,Nominal (Volts)	48V	48V
The Mounting of Batteries in E-vehicles	Yes	Yes
Maximum Overall Dimensions of the Battery (L x Wx H) (mm3)	-	*
Nominal Filled Weight of the Battery (kg)	127	Any applicable numeric value
Motor Controller(Must Suitable for starting, accelerating, decelerating, driving , and stopping of E Vehicle	-	*

	Battery Charger	220/230 V Nominal Input Voltage , High Efficiency Type	220/230 V Nominal Input Voltage , High Efficiency Type
	Charging Current (Ampere)	12	Any applicable numeric value
	Type of Motor	Brushless DC Motor	Brushless DC Motor
	Motor Output Power 48V at Full Load (watt)	1000	850-2000
	Overall Efficiency of the E Rickshaw (to be tested at Full Load with maximum speed as per Concerned AIS standards (%)	90	90
	Gradeability of E-Rickshaw	Yes	Yes
	Material of the roof of E-Rickshaw, if others please specify the material Otherwise put NA	-	*
	Vehicle Integration packing of Electrical and electronics	Yes	Yes
	Seat Must be Good Quality with Proper cushioning	Yes	Yes
certification Parameters	Vehicle Certification	ICAT	ICAT
	If Vehicle Certification from Others Agency ,Name of the Agency otherwise put NA	-	*
	Vehicle Certification Number and Date	-	*
Constructional Parameters	Seating Capacity (Passengers + Driver)	4 +1	4 +1
	Length of E -Rickshaw as per Gazette Notification by Ministry of Road and Transport Oct , 2014 (meters)	2.6	2.6 , 2.7 , 2.75 , 2.8
	Width of E -Rickshaw as per Gazette Notification by Ministry of Road and Transport Oct 2014	1	1

(meters)		
Height of E-Rickshaw as per Gazette Notification by Ministry of Road and Transport Oct , 2014 (meters)	1.8	1.7 , 1.8
Size of Front Tyre (mm)	-	*
Size of Rear Tyre (mm)	-	*
Brake Type (Rear)	-	*
Brake Type (Front)	-	*
Suspension System (Rear)	-	*
Suspension System (Front)	-	*
Glass Windshield with wiper motor as approved by ICAT/ARAI	Yes	Yes
Battery Make as per AIS :048:2009	Amaron	Amaron , Exide , Okaya
If others please specify the Name of Brand Otherwise put NA (as per AIS 048 2009)	-	*
Equipped with Start and Stop Button, parking Lights , Back lights with Reverse Gear Facility	Yes	Yes
Equipped with Fire Extinguisher	true	true , false
Vehicle lighting System	Filament based	Filament based
Reverse Gear Facility	Yes	Yes
Yellow Color reflective tape on Front and Rear Side of the Vehicle	Yes	Yes
Equipped with First Aid Box	true	true , false
Instrument Panel Containing Speedometer and Battery Charging Indicator	Yes	Yes
Numbers for Roof	4	4 , 5 , 6

	Handles to ease passengers entry and Ride		
performance Parameters	Speed of the E-Rickshaw as per CMVR -2014 with latest amndmt (to be tested with Full Load) (kmph)	25	*
	Battery Warranty	1	1.0
	No. Of Free Service	1	1 , 2 , 3 , 4 , 5
	Complaine of Centre of Gravity of Vehicle as a Compulsory Norms for Safety	Yes	Yes
	Confirming to Applicable Environmental Test	Yes	Yes
	Noise level must be Low during Operation	Yes	Yes

* Bold specifications are the golden parameters.

Consignees and Quantity

S.No.	Consignee	Address	Quantity	Delivery Days
1	Harish Kumar	134111,Terminal Ballistics Research Laboratory Ramgarh Range, Distt Panchkula	1	45

EMD Detail

Required	No
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ePBG Detail

Required	No
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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---