



Office of the Kalyani Municipality

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City Centre Complex : Kalyani : Nadia : West Bengal : PIN-741235

Memo No. 7260 / KM

Date 19/10/2022

EXPRESSION OF INTEREST **E.O.I. NO.- 04/KM/EC OF 2022-2023**

Expression of interest for Budgetary Rate are invited from the experienced bonafide firms / suppliers / individual contractors for the Supply, Delivery, Testing and successful commissioning of 21 Nos Battery Operated vehicle with garbage container for complete 3years service and maintenance, as per Technical Details under Kalyani Municipality.

In the event of e-filling, intending bidder may download and submitted the documents through online also to be documented through e-filling from the website <http://wbenders.gov.in> directly with the help of Digital Signature Certificate.

Last Date of submission of EOI -16/11/2022 and its open dt. 19/11/2022.

Name of Work:	Quoted Rate (Inclusive all Taxes & duties)
Supply, Delivery, Testing and successful commissioning of 21 Nos Battery Operated vehicle with garbage container for complete 3years service and maintenance, as per Technical Details under Kalyani Municipality.	Rate to be Quoted
Battery Operated vehicle with garbage container -21 Nos for complete 3years service and maintenance, as per Technical Details	

Product Specification for Battery Operated Vehicle with Garbage Container

SPECIFICATIONS	SUB-SPECIFICATIONS	VALUES
	Type of E Cart	Fully Electric, Battery Operated Motor Driven for Carrying Bins
	Model Number of E- Cart	Green Cart Super
	Colour Of E-cart	blue/green
	The E Cart Must be Fabricated From Good Quality Steel properly Painted to avoid Rusting for more than 5 years.	YES
	Name and Grade of Steel from which E Cart Body Framed	CRC steel, Monocoque Chassis for higher life
	Anti-Rust Treatment	C.E.D. Coating for higher life
	Kerb Weight of E-cart(Kg)	368 or as approved by ICAT.
	Gross Vehicle Weigh (GVW)	746 Kgs
	Garbage Carrying Capacity (kg)	310
	Run Distance (for a Full Charge of Battery , to be	90
	Number Of Bins	2
	Capacity of Individual Bins in litres (Ltrs)	350
	Type of Chassis for E cart	INTEGRATED
	Ground Clearance as per IS : 9435 (mm)	180 or As approved by ICAT/ARAI
	Wheel Base (mm)	2100 millimetre as approved by ICAT/ARAI
	Turning Radius (mm)	3600 millimetre or as approved by ICAT/ARAI
	Power Transmission from Motor Shaft to Wheels	Direct Mounting
	Please Specify the Mechanical Mechanism otherwise Put NA	N/A
	Torque Multiplier	Differential(twin gear shifting angle) For Grade ability requirement.
	Tipping Facility	YES,Hydraulic 48 V mechanism, push button operated

Generic



Parameters

Tipping Angle	45
Method of Tipping	Push Button, Automatic Hydraulic (Homologation Certificate from ICAT)
If Others, mention the method of Tipping	Hydraulic
Type of Battery as per AIS-048	Lithium ion (100 AH), Type approval certificate mandatory with offered ecart. Certificate to be enclosed.
Capacity of the Battery approved by ICAT/ARAI (Ah)	100 AH
Battery Voltage, Nominal (Volts)	48V
Maximum Overall Dimensions of the Battery (L x W x H) (mm ³)	500x282x245
Nominal Filled Weight of the Battery (kg)	46
Motor Controller (Must Suitable for starting, accelerating, decelerating, driving, and stopping of E Cart)	55 AMP 48V
Battery Charger	220/230 V Nominal Input Voltage, High Efficiency Type
Charging Current (A)	25A
Type of Motor	Brushless DC Motor
Motor Output Power, 48V/60V at Full Load (watt)	1200 watts or as approved by ICAT/ARAI
Overall Efficiency of the E Cart (to be tested at Full Load with maximum speed as per Concerned AIS standards (%))	85
Gradeability of E-cart, (to be tested at full procedure as per AIS -003 Load (Degree))	7 (Certificate to be enclosed for similar category of vehicles)
Vehicle Certification	ICAT
If Vehicle Certification from Others Agency, Name of the Agency otherwise put NA	ICAT
Vehicle Approval Type for end product (ICAT/ARAI)	Vehicle should have homologation approval test certificate from ICAT/ARAI etc. for front wind shield, wiper motor, garbage container & hydraulic i.e. complete end vehicle test approval certificate ensuring compliance and vehicle safety (to be enclosed).
Seating Facility	For Driver only
Length of E -cart as per Gazette Notification by Ministry of Road and Transport Oct, 2014 (meters)	2.8
Width of E -Cart as per Gazette Notification by Ministry of Road and Transport Oct, 2014 (meters)	1
Height of E -Cart as per Gazette Notification by Ministry of Road and Transport Oct, 2014 (meters)	1.8
Tyres	Tubeless Tyres
Dimensions of the cabin Provided for Bins (mm x mm x mm) (mm ³)	1350X900X900 as approved by ICAT/ARAI
Size of Front Tyre (mm)	90/90X12, 3.00-12 as approved by ICAT/ARAI
Size of Rear Tyre	90/90X12, 3.00-12 as approved by ICAT/ARAI

Certification



Constructional

Brake Type (Front)	DRUM
Brake Type (Rear)	DRUM
Suspension System (Front)	TELESCOPIC
Suspension System (Rear)	LEAF SPRING
Reverse Gear Facility	Yes
The Mounting of Batteries	Yes
Vehicle lighting System	Filament Type/LED Based
Instrument Panel Containing Speedometer and Battery Charging Indicator	Yes
Glass Windshield with wiper motor as approved by ICAT/ARAI	(Yes) as per AIS 045 norms
Charging Port	Microswitch enabled charging socket, which prevent vehicle from movement during charging of batteries.
Battery Make as per AIS :048:2009	Okaya others
Equipped with Start and Stop Button, parking Lights , Back lights with Reverse Gear Facility	Yes
Equipped with Fire Extinguisher	Yes
Equipped with First Aid Box	Yes
Yellow Colour reflective tape on Front and Rear Side of the E Cart	Yes
E Cart Integration ,	Yes
Speed of the E- Cart as per CMVR -2014 with latest amndmt (to be tested with Full Load) (kmph)	22.22
Battery Warranty	3 years
No. Of Free Service	3 year.
Compliance of Centre of Gravity of E Cart as a Compulsory Norms for Safety	Yes
Noise level must be Low during Operation	Yes

Performance Parameters

Other Terms

OEM shall provide standard warranty of 1 year and extended warranty services of 2nd and 3rd year for vehicles(All spare parts and servicing material included) delivered for a period of 1 to 3 years from the date of delivery as per the choice of Kalyani Municipality.

Documents to be submitted

i) Trade Licence ii) Pan Card iii) P.T. iv) GST Registration v) Income Tax , vi) Credential are to be accompanied with the Technical criteria .

Chairman /Executive officer
Kalyani Municipality

Executive Officer
Kalyani Municipality

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