



No. DTU/MED/HOD/2025/2129

Dated: 25/03/2026

NOTICE INVITING QUOTATION

The Department of Mechanical Engineering, Delhi Technological University invites sealed quotations for the procurement of “consumable materials” under the URDF (Research and Development Fund) Design and Development of a Vehicle for Waste Management Workers. The sealed quotation, superscribed on the envelope as “F.NO. DTU/MED/HOD/2025/2129, should be sent through Speed Post/Courier so as to reach the undersigned on or before 28/03/2026 at the following address:

Prof. Qasim Murtaza
Department of Mechanical Engineering
Delhi Technological University
Bawana Road, Delhi – 110042
OR

Email on: - qasimmurtaza@dce.ac.in

The quotation shall be submitted on the company’s official letterhead indicating the GSTIN and reference no. F.NO. DTU/MED/HOD/2025/2129. Rates shall be quoted in INR, with GST indicated separately, and the total amount mentioned in words.

The technical specifications and details of the consumable items are provided in the following table:

S. No	Item Description (Detailed)	Qty
1	Power Lock Switch (Key-Operated DC Ignition Switch, OMRON A22NZ-BGA-NGA or equivalent, 12–60V DC, IP65)	1
2	DC MCB (Havells DZ47S-DC 2P 40A, 250V DC, C-curve, IEC 60947-2 compliant)	1
3	Front & Rear Horn (Roots Dual-Tone Electric Horn, 12–48V DC, ≥105 dB)	1
4	Steel Handlebar Assembly (MS fabricated, ASTM A106 Gr. B, powder-coated, load tested)	1
5	Electro-Hydraulic Actuator (12/24V DC tipping unit, 0.8 kW motor, 200 bar max pressure)	1
6	PU Foam Seat (High-density moulded PU saddle, 45 kg/m ³ , PVC leatherette cover)	1
7	Throttle Cut Sensor Cable (Brake-linked motor cut-off, magnetic reed switch, PAS safety interlock)	1
8	Main Wiring Harness (48V automotive FR wiring loom, IP67 connectors, multi-circuit)	1
9	Telescopic Front Suspension Fork (Hydraulic fork, 80 mm travel, AL6061-T6 ÷ CrMo steel)	2
10	Suspension Bush (Rubber-metal bonded bush, press-fit, NR/SBR, high stiffness)	2
11	Handlebar Throttle Grip (Hall-effect twist throttle, 48V compatible, Allegro A1302 sensor)	2
12	LED Headlight (20W COB LED, 2200 lm, 12–60V DC, IP67 aluminium housing)	1
13	Front Fork T-Joint (Steel triple clamp crown, EN8, FEA validated)	1
14	Handlebar Switches (Multi-function switch pod, PAS selector, horn, lights, indicators)	2
15	Coilover Shock Absorbers (Adjustable rear shocks, 75 mm stroke, 300 kg load capacity)	2
16	Lithium-Ion Battery Pack (48V 30Ah LiFePO4 with Smart BMS, 1440 Wh, IP65)	1
17	Chassis (MS tubular tricycle frame, IS 2062 steel, load tested 375 kg)	1

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S. No	Item Description (Detailed)	Qty
18	Thick Tyre 5.00-8 (8PR bias-ply tyre, 670 kg load rating, IS 15627 compliant)	3
19	Container Frame (MS welded bin support, galvanised, 150 kg load capacity)	1
20	Bin Container (FRP waste bin, 100L capacity, 150 kg payload, IS 16048 compliant)	1

Terms & conditions of the NIQ

1. The quoted Price should be inclusive of applicable GST
2. Product supplied must be of good quality.
3. A data-sheet and manual of the above-said items should be provided.
4. Details of service center declaration should be provided for the items.
5. Warranty of the item should be a minimum of one year.
6. Mode of payment would be subject to the satisfactory completion of delivery.

Q. Murtaza
29/3/26

Prof. Qasim Murtaza

Principal Investigator, FIRP

Department of Mechanical Engineering, DTU

Copy to:

1. Sr. Account Officer, DTU.
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