

# MLS 800/S-CLASS

## The First Access to Emergency Care

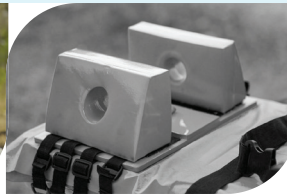


Parked at Hospital (1) / Edge of Hill (2)



## MLS 800/S-CLASS

Patient Evacuation (3-9)



Far Side View (10)



# THE FIRST ACCESS TO EMERGENCY CARE



MLS 800/S-CLASS

**1<sup>ST</sup> RESPONSE, PRE-HOSPITAL TRAUMA CARE OR EVACUATION, NO TRADITIONAL AMBULANCE CAN GLIDE THROUGH CONGESTED STREETS WITH EASE & EQUIPPED WITH CUTTING EDGE TECHNOLOGY IN COMPACT DESIGN AS MLS 800- THE MEDIAN LIFE SUPPORT MOTORBIKE AMBULANCE AKA MOTOLANCE.**

Boasting a versatile, robust & sophisticated state-of-art live saving vehicle, the MLS has proven its performance in a bustling urban landscape, highways or a remote rural area. If you are looking for a nimble vehicle integrated with multiple innovative technologies to care, resuscitate & safely evacuate victims of emergency scenario, MLS is an ideal choice that transverse through twisted roads, narrow alleys, hilly regions to coastal areas. It can reach 30% faster to the emergency site; 50% lesser response time in rural areas and 40% quicker triage in mass casualty situations, an ideal fit for health care systems. Equipped with powerful engine of primary vehicle, it never tires while responding to save lives.

Head Light (12)



Front View(11)

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One word for its impeccable structure's quality, rider & patient-friendly carrier ergonomics is the clever design that emphasizes accessibility and flexibility. The functionality lies in engineering details, and precision of fitting multiple independently working systems in excellently crafted machine with superior finish.

The MLS – the aerodynamically structured Motolance with least air drag resistance aid its faster response dynamics.

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Launch: Jan 17'2025

12 Bharat Mobility Expo'25

Appreciated by MoRT&H



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14



15



**Engine (13):** The engine of primary Motorbike having minimum of 11 Kw power or 250 CC with ABS braking system or similar, an advance technological marvel; **Complimentary Structuring (14):** The complimentary ground clearance, type, location & size of tyre, robustness of chassis & flexible attachments is achieved by attention to fine details; **Third Eye Technology (15):** A blue-tooth enabled system in front of pillion's rider (preferably paramedic) for continuously monitoring of vitals of patient's lying in chamber.

# 9 M TECHNOLOGY

2025

Motolance blends 'moto', symbolizing speed, with 'lance', reminiscent of 'lancelot', meaning land. The design, aptly named 'freedom,' includes two-sided access to patient, critically useful in reviving patient in tight spaces in urban environment or during transit. The smart 'dual chamber' design provides quick access to medical devices, independent power source without compromising patient's safety. The reliability of functionality is focussed on 'nine mission-mode' outcome(s) or technologies.

18: Ground Clearance



The Motolance, with minimum ground clearance of 165 mm & strong suspension enables it to traverse diverse terrains effectively, whether moving through narrow alleyways in dense urban areas, hilly roads or bumping over rough rural roads. This **Multi-Terrain** system along with vibration dampening viscoelastic gel system (patented technology) beneath patient, head & body immobilizer, significantly reduces discomfort from jolting caused by uneven terrain, ensuring a smoother ride for those in transit.

The compact design requires less turning space than standard four-wheeled ambulances making both urban and rural navigation faster. The high **Manoeuvring** ability aid steep U-turn, less parking space, navigation via crowded city zones, least accessible urban slums, transit via makeshift bridges, bypaths to reach remote locations. The **Global Positioning System (GPS) enabled Median Life Support (MLS)** able to identify fastest routes preventing roadblocks increasing probability of successful & timely emergency intervention by 30%.

20: Steep U-Turn



19: Narrow Zone



21: In Crowded Zone

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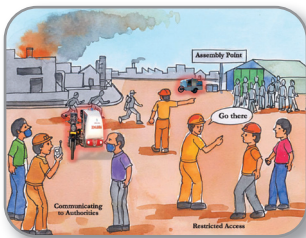
22: Far Side View (Open)



# Motorbike Ambulance



23: GPS



**Multi-Environment (24):** Ingress, infection & pollutant resistant patient compartment, sanitized air assembly, oxygen support even for driver and pillion to pass through contaminated environment make it suitable for urban, rural, industrial, pandemics & even disasters or terrorist attacks.



**Multi-layered Air Sanitization Unit (25):** DRDO technology that protects patients from airborne pathogens by neutralizing it, which are especially concerning during outbreaks of infectious diseases. It also purifies pollutants & particles with re-cycled filters.



**Microbial Resistance Coating (26):** DRDO surface coating technology with sustained release of anti-microbial agents prevents build up of micro-organisms by minimum of 90 days. Tested against significant hospital induced pathogens.



**Medical Grade Auto-loadable Stretcher (27):** AIS-125 Part 1 compliant system aid seamless transfer from first response to Definitive Care, intra-ambulance transfer and, transformable to wheel chair to bring patient from high rise building or inaccessible urban slums.

The **Median Life Support**, encompasses gamma sterilized first aid, portable oxygen, bleeding & physical trauma, burn, eye care, minor injury, contamination management kits & **~15 Medical Devices**. Among these devices, the multi-channel parameter integrated with telemedicine aid critical decision making & positive outcomes.



## Mass Casualty Compliant (28)

The telemedicine enabled multi-channel monitoring & tracking of body vital signs such as heart rate, respiratory rate, oxygen saturation, and blood pressure aid quicker On-Site triage, effective distribution of victims to hospitals and, if needed, oxygen concentrator enabled deployable side car for make-shift hospitals evolved it as **Mass Casualty Compliant**.



29: Back Side View



30: Fire Management



31: Trauma Care



32: Bharat Mobility Expo'25



33: Right Side View



36: Night Visibility



# Motorbike Ambulance

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## STREET SMART !

NIGHT VISIBILITY WITH ILLUMINATED PATIENT CHAMBER, PA SYSTEM TO WARN PUBLIC, ABLE TO MITIGATE FIRE & SAVE LIVES- ADAPTABLE TO DEPLOY IN DIVERSE LOCATIONS-URBAN, RURAL TO CHALLENGING TERRAINS.



34-35: Illumination (50 lux) & Camera



### The Median Life Support **Motorbike Ambulance**

Ambulance Accessory Unit with L2 Category 2-Wheeler (min 11 Kw)

Auto-loadable Medical Grade Stretcher [AIS-125 Part 1 compliant]

Dual Chamber-Two Side Access Aerodynamic Design

DRDO's Vayuswachh+ technology enabled

Front, Back Lights, Side Mirror, Beacon, PA System & Emergency Siren

Ground Clearance [min 165 mm]

GPS enabled Patient Remote Monitoring System (~Telemedicine)

Head Protection & Vibration Damping Viscoelastic Gel System:

A part of DRDO Ultraswachh™ Technology

LED Lighting Reflectors with minimum 08 Flashers

Multi-channel Body Vital Monitoring Device enabled (~ Min 05 channel)

Min 90 days continuous protection against microbial build up

Night Illumination (min 50 lux inside patient chamber)

Standard Training for Motorbike Ambulance Operators

Standard Conspicuity Marking

Third Eye Technology- Bluetooth enabled continuous monitoring enroute

~06 hrs Independent Battery Operational Back up [12/24 V (10 Amp)]

2.2 L Portable Oxygen w. accessories & Airway Management Kit

2-Way communication between patient & paramedic w. emergency buzzer

~15 Medical Devices (incl. Electrical Portable Aspirator, AED etc.)

07 Emergency Management Kits:

Rescue, First Aid, Bleed, Airway, Fracture, Burn & Waste Management Kits

*For detailed specifications, scan the QR Code*



37: Portable Oxygen



38: First Aid



39: Training



Training of operators, drivers, and paramedics in both advanced driving techniques and emergency trauma care skills while on the move, along with public awareness to make them sensitive to yield space on road, acceptable Motorbike Ambulance to evolve a life saving Motolance Network – 40% cost effective than traditional ambulance.



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