COMMITTEE FOR REGISTRATION OF AMBULANCES IN DELHI GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI (HEALTH & FAMILY WELFARE DEPARTM ENT) ROOM No.905, 9th FLOOR, A WING, DELHI SECRETARIAT, NEW DELHI

Revised Guidelines for Registration of Ambulances in Delhi (w.e.f. 13-07-2012)

An ambulance vehicle can be registered by Transport Department in Delhi only after it has the approval of Committee for Registration of Ambulances (CRA). The following will be the norms for vehicles to be certified / registered as different type of Ambulances: -

A. Advanced Life Support Ambulance:

Ambulance should be capable of providing treatment of life-threatening medical emergencies through the use of techniques such as endo - tracheal intubations, administration of drugs or intravenous fluids, cardiac monitoring, and electrical therapy by a qualified person.

B. Basic Life Support Ambulance:

Ambulance should be capable of providing basic life support to the patients.

A vehicle that is used for transporting injured to the nearby health facility in case of C. Ambulance: emergencies such as accident / disaster etc. As also for transporting patients in nonemergency situations such as scheduled visits to a doctor for treatment, routine physical examinations, X-ray or laboratory tests, transporting a woman for delivery to a hospital or after delivery and discharge to her home, transporting patients upon discharge from a hospital / nursing home, to another hospital / nursing home or to residence etc.

Ambulance Design and Equipment

Specific requirements for different categories of ambulances shall be as under

Advanced Life Support ambulance (ALS)

- There shall be no restrictions concerning the painted color of the ambulance vehicle.
- Emblems and Markings: All items in this section shall be of reflective quality and in contrasting color to the exterior painted surface of the ambulance. В.
 - There shall be a continuous blue stripe, of not less than 8cm on cab and 15 cm on patient compartment, to encircle the entire ambulance with the exclusion 1. of the hood panel.
 - Emblems and markings shall be of the type, size and location as follows: 2.
 - Front: The word "AMBULANCE", minimum of 10 cm in height, shall be in mirror image (reverse reading) for mirror identification by drivers ahead, with a blue "Star of Life", minimum of 8cm height, to the left and right of the word "AMBULANCE." If vehicle design permits, there shall be a blue "Star of Life" of no less than 30 cm in height on the front section of the patient compartment.
 - Side: Each side of the patient compartment shall have the blue "Star of Life" not less than 30 cm in height. The word "AMBULANCE", not less b. than 15 cm in height, shall be under or beside each star. The name of the licensee as stated on their provider's license shall be of lettering not less than 8 cm in height.
 - Rear: The word "AMBULANCE", not less than 15 cm in height, and two blue "Star of Life" emblems of not less than 30 cm in height. C.
 - Top (roof): There shall be a blue "Star of Life" of not less than 60 cm in height as well as the individual provider's ambulance number d. (example: unit "23") of not less than 30 cm in height.
 - Prior to private sale of ambulance vehicles to the public, all emblems and 3. markings must be removed.

Interior Patient Compartment Dimensions: C.

2700 mm. Minimum Patient Compartment Length 1.

1500 mm. Minimum Patient Compartment Width 2.

1500 mm from Minimum Patient Compartment Height 3. floor to ceiling.

D. Essential Medical Equipment and other items to be placed on ALS Ambulance

No.	Group of Equipment	Name of items/Equipment	Details
	Ventilation and Airway	Transport Ventilator	
	Equipments	Portable Suction Apparatus	Wide – bore tubing, rigid pharyngeal curved suction tip; Tonsillar and flexible suction catheters, 5F – 14F
		Portable & Fixed Oxygen equipment with key	Variable flow regulator
		wrench & trolley 4. Oxygen administration equipment	Adequate length tubing, mask (adult, child and infant sizes), transparent, non-rebreathing, venturi, and valveless nasal cannulas (adult, child and infant sizes)
		5. Pocket mask with one-	
		eay valve 6. AMBU Resuscitation Bags (Adult & Paed)	Hand operated, self re-expanding bag (adult & infant sizes), with oxygen reservoir/accumulator, clear mask (adult, child, infant and neonate sizes); valve (clear, disposable, operatable in cold weather)
		7. Intubation equipments	Magill's forceps, Laryngoscope blades and other accessories, endotracheal tubes and connecting tubes etc.
		8. Airways	Nasopharyngeal, Oropharyngeal (adult, child and infant sizes)
		Oxygen saturation monitor with different probes for adult and child	
2.	Monitoring and Defibrillation	1. Automatic External Defibrillator 2. Multi Parameter Monito 3. End Tidal CO2 Monitor	
3.	Infusions	Syringe Pump	
		2. IV Lines	
4.	Immobilization Devices	1. Cervical Collars	Rigid for children aged 2 years of older, infant, child and adult sizes (small, medium, large and other available sizes)
		Head Immobilization devices (not sand bag	Firm padding or commercial device

		devices	Lower extremity, limb support slings, padded ankle hitch, padded pelvic support, traction strap (adult and child sizes) To immobilize one joint above and
		Upper and lower extremity immobilization devices	joint below fracture (adult and dried sizes), rigid support appropriate material (cardboard, metal, pneumatic, vacuum, wood or
		Radio-lucent backboards (long, short) and extrication device	Joint above and joint below fracture site (chin strap alone should not be used for head immobilization), adult and child sizes, with padding for children, hand holds for moving patients, short (extrication, head-to-pelvis length), long (transport, head to feet), with atleast 3 appropriate restraint straps
5.	Stretchers and Splints	Collapsible chair cum	
J.	G. T.	trolley stretcher 2. Spine Board	
		3. Pneumatic Splints	
6.	Communication	Two-way radio communication (UHF, VHF) between EMT, dispatcher and medical direction (physician) or Cellular phone	Towels, 4" x 4" dressing, umbilical
7.	Obstetrical Kit *	(Separate sterile kit) Baby receiving tray with warmer	
		Thermal absorbent blanket and head covaluminum foil roll, or appropriate heat reflective material (enough to cover newborn)	· .
		Appropriate heat source for ambulance compartment	ce

14 1000

8. N	VISCENSIFECTO	Sphygmomanometer (infant, pediatric and adult - regular, large and extra large) Stethoscope (Pediatric and adult) Digital Thermometer Heavy duty scissors for cutting clothing, belts and boots Search Lights (Two)	Portable with spot beam of around 500 Meters, sealed lead acid/NiCd
9.	Injury Prevention Equipment	Appropriate restraints (Seat bett, air bags) for patient, crew and family members Child safety restraints Fire extinguisher Traffic signaling devices (reflective material triangles or other reflective, non-igniting devices)	battery operateu, capean, minutes with full intensity, rechargeable
10.	Rescue Equipments	1. Hammer, one four pound with 15 inch handle. 2. One axe. 3.Wrecking Bar, minimum 24-inch (bar and two preceding items can either be separate or combined as a forcible entry tool). 4.Crowbar, minimum 4inches, with pinch point.	

* Optional

LIST OF CONSUMABLE ITEMS E.

- S.No. Name of the item
 1. Cotton
 2. Bandage (a) 15cm (b) 10cm (c) 6cm
 3. Savion
 4. Betadine

- 5.
- 6.
- 7. 8.
- 9.
- Leucoplast
 Pain Spray
 Mistdress Spray
 Vinodine Spray
 Coolex Spray
 Face Mask (Disposable) 10.

- Surgical Gloves 11.
- LMA disposable 12.
- Wide bore needles 13.
- Disposable L.P. Needles 14.
- Syringes ABG (2 & 5 ml) 15.
- Three way stop cork 16.
- Extension I/V lines 17.
- Disposable suction pumps 18.
- ECG electrodes 19.
- Lighted Stylets of differer t sizes 20.
- Guedel's airway 00-5 (00,0,1,2,3,4,5) 21.
- Nasal airways (all sizes) & catheters 22.
- Bi-nasal Cannula, Comb tube 23.
- Tracheostomy tube cuff & Plain (all sizes) 24.
- Mini Tracheostomy kit 25.
- Ventimask, facemask wi h nebulizer
- 26. Pressure Infusion Bags 27.
- Right angled Shivel Con rector 28.
- G.V. Paint 29.
- I.V. Fluids 30.
- Micro drip-set & Drip-set 31.
- Nasogastric Tubes
- Burn Pack: Standard package, clean burn sheets (or towels for children) 32.
- 33. Triangular bandages (M nimum 2 safety pins each)
- Dressings: Sterile mult -trauma dressings (various large and small sizes) ABDs, 34. 10"x12 " or larger, 4"x4' gauze sponges, Cotton Rolls 35.
- Gauze rolls Sterile (various sizes) 36.
- Elastic bandages Non-s erile (various sizes) 37.
- Occlusive dressing Ster le, 3"x8" or larger
- (including 2" or 3") and Adhesive tape 38. Adhesive tape: Various sizes (including 2" (hypoallergenic): Various sizes (including 2" or 3") 39.
- Cold packs 40.
- Waste bin for sharp ne∈dles, etc. 41.
- Disposable bags for vorniting, etc. 42.
- Teeth guard 43.
- Sample collection kits 44.

LIST OF EMERGENCY DRUGS

- Inj. Adrenaline 1.
- Inj. Atropine 2.
- Inj. Calcium Carbonate 3.
- Inj. Dopamine 4.
- Inj. Dobutamine 5.
- Inj. Noradrenaline 6.
- Inj. Nitroglycerine 7.

- Inj. Sodium Bicarbonate 8.
- Inj. Hydrocortisone 9.
- Inhaler Beclomethasone (250 micro/dose) 10.
- Inhaler Salbutamol (200 inicrograms) 11.
- Inj. Frusemide 12.
- Inj. Diazepam/Midazolan 13.
- Inj. Deriphyllin 14.
- Inj. Phenytoin sodium 15.
- Inj. Avil 16.
- Inj. Metochlorpropamide 17.
- Inj. Ondansetrone 18.
- Inj. KC1 19.
- Inj. Lignocaine 2% 20.
- Inj. Amiadarone (50 mg/ nl) 21.
- Inj. Magnesium sulphate 25% 2ml. 22.
- Inj. Mannitol 20 % 23.
- Inj. Morphine/Inj. Pethidir e 24.
- Inj. Noradrenaline bititrat ; 4mg, 2 ml. Ampoule 25.
- 26. Activated charcoal
- 27. Inj. Naloxone HC1
- Inj. Fentanyl 28.
- Bacteriostatic water for Ir jection 29.
- Inj. Sodium Valporate 30.
- Inj. Voveran 31.
- 32. Inj. Paracetamol

(1 otal Thirty Two items)

Basic Life St pport ambulance (BLS)

- Color: There shall be no restrictions concerning the painted color of the ambulance vehicle.
- B. Emblems and Markings: All items in this section shall be of reflective quality and in contrasting color to the exterior painted surface of the ambulance.
 - There shall be a continuous green stripe, of not less than 8cm on cab and 15 cm on patient compar ment, to encircle the entire ambulance with the exclusion of the hood panel.
 - 2. Emblems and markings shall be of the type, size and location as follows:
 - a. Front: The word "A //BULANCE", minimum of 10 cm in height, shall be in mirror image (reverse reading) for mirror identification by drivers ahead, with a green "Star of Life", minimum of 8 cm height, to the left and right of the word "AMBULANCE." If vehicle design permits, there shall be a green "Star of Life" of no less than 30 cm in height on the front section of the patier t compartment.
 - b. Side: Each side of the patient compartment shall have the green "Star of Life" not less than 30 cm in height. The word "AMBULANC E", not less than 15 cm in height, shall be under or beside each star. The name of the licensee as stated on their provider's license shall be of lettering not less than 8 cm in height
 - c. Rear: The word "AMBULANCE", not less than 15 cm in height, and two green "Star of Life" emblems of not less than 30 cm in height.
 - d. Top (roof): There shall be a green "Star of Life" of not less than 60 cm in height as well as the individual provider's ambulance number (example: unit "25") of not less than 30 cm in height.
 - Prior to private sale of ambulance vehicles to the public, all emblems and markings must be removed.

C. Inner Patient Compartment Di nensions:

Minimum Patient Compartment Length

2700 mm.

2. Minimum Patient Compaitment Width

1500 mm.

3. Minimum Patient Compa tment Height

1500 mm from

floor to ceiling.

Patient cabin should have the following features: D.

Vehicle should have rein orced suspension system for providing to patient a Properly ventilated patient cabin 1. 2.

comfortable ride, free from external noise

Adequate power supply ar angements including power backup for support power requirements of the Headlights, Taillights and the power requirements of Medical 3.

Adequate Patient Cabin space for patient (in comfortable position), at-least one

Complete flooring free of oints, suitable for easy cleaning / scientific fumigation 4. attendant and two parame lics 5. and treatment with disinfer tants.

Atleast Two superior quality Fans and sufficient Lighting arrangement

Storage space for keeping Medical equipments and consumables required. 6.

Siren and beacon as per approved norms of Government with at least 3 flashers 7. 8. on both sides of ambulance.

A "no smoking" sign shall be prominently displayed in the patient compartment. 9.

Equipment to be placed on BLG Ambulance: E.

All ambulances will be required to be equipped with, but not limited to the following:

Minimum of two stretchers

- One multilevel, elevating, wheeled stretcher with elevating back. Two patient restraining straps (chest and thigh) minimum, at least two inches wide shall be provided.
- One secondary patient transport stretcher, with a minimum of two patient restraining straps Minimum acceptable stretcher is vinyl covered, b. aluminum frame, folding stretcher.

Suction Devices 2.

- An engine vacuun operated or electrically powered, complete suction aspiration system shall be installed permanently on board to provide for the primary patien . It shall have wide bore tubing.
- A manual suctior device, age and weight appropriate, with wide bore b. tubing and at leas a six-ounce reservoir.
- There must be an assortment of suction catheters (minimum of 2 each) on board. Sizes 6 fr 8 fr, 10 fr, 16 fr, 18 fr. A rigid suction catheter (e. g. C. Yankaur) will also be carried (Minimum 2 each).

3. Bag Mask Ventilation Units

- a. One adult, hand-operated. Valves must operate in all weather, and unit must be equipped to be capable of delivering 90-100% oxygen to the patient.
- b. One pediatric, hand-operated. Valves must operate in all weather and unit must be equipped to be capable of delivering 90-100% oxygen to the patient. Must include safety pop off mechanism with override capability.
- c. One infant, hand operated. Valves must operate in all weather and unit must be equipped to be capable of delivering 90-100% oxygen to the patient. Must include safety pop-off mechanism with override capability.
- d. The masks (size 0,1,2,3,4 and 5) should be carried, for use in conjunction with the ventilation units above. Masks must be clear and can be either disposable or nor -disposable.
- 4. Nonmetallic Orophary igeal (Berman type)/ Nasopharyngeal Airways adult, child and infant sizes (Large adult, medium adult, large child, child, infant). All airways shall be clean and individually wrapped. "S" tube type airways may not be substituted for Berman type airways.

5. Oxygen Equipment

- a. Portable oxygen equipment: Minimum one 360 Litre capacity oxygen cylinder. Litre flow gauges shall be non-gravity, dependent (Bourdon Gauge) type. A Iditionally, when the vehicle is in motion, all oxygen cylinders shall be readily accessible and securely stored.
- b. Permanent On-E oard Oxygen Equipment: The ambulance shall have a hospital type pit ed oxygen system, capable of storing and supplying a minimum of 240(liters of humidified medical oxygen.
- Single use, individually wrapped, non-rebreather masks and cannulas in adult and pediatr c sizes shall be provided (3 each).
- 6. Bite sticks commercially made. (Clean and individually wrapped).
- 7. Twelve sterile dressings (minimum size 5 " x 9 ").
- Sterile gauze pads (4 " < 4 ") 36 No.
- Twelve bandages, se f-adhering type, minimum three inches by five yards.
 Bandages must be individually wrapped or in clean containers.
- 10. A minimum of four com nercial sterile occlusive dressings (size 4" x 4").

- Adhesive Tape, hypoaller enic (1", 2" and 3" width). 11.
- Burn sheets (Sterile) 2 No. 12.
- 13. Splints:

1

- Pneumatic splints sat of six with carrying case. a.
- Wooden / metallic cr other splints. b.

Spinal immobilization devices: 14.

- Spine board, at least 16" x 72", constructed of three-quarter inch ply-board or equivalent material and having at least three quarter inch runners on a. each side for lifting with appropriate straps. If not equipped with runners, board must be designed so that handholds are accessible even with gloves
- Cervical collars to accommodate the infant, child, medium adult and large adult sizes. Collars must be manufactured of semi-rigid or rigid material. b.
- Patient restraint str aps (two inches by nine foot) 3 No. C.
- Head immobilization device, commercially available or towel/blanket rolls. d.
- 5 each Triangular bandages (Different sizes) -15.
- 16. Blankets 2 No.
- large size. Bandage shears 17.
- Obstetrical kit (sterile) The kit shall contain gloves, scissors or surgical blades, 18. umbilical cord clamps or tapes, dressings, towels, perinatal pad, bulb syringe and a receiving blanket for del very of infant.
- Blood pressure sphygmor ranometer, cuff and stethoscope. 19.
 - Blood pressure set portable, both pediatric and adult (non mercurial type). a.
 - b. Stethoscopes.
- Emesis basins or commercially available emesis container. 20.
- 21. Bedpan and urinal.
- Search Lights (2 No.) Portable with spot beam of around 500 Meters, sealed 22. lead acid/NiCd battery operated, capacity of 60 minutes with full intensity, rechargeable.

- Minimum of one fire extir guisher, CO2 or dry chemical or type ABC. 23.
- Working gloves, atleast two pair for each crewmember. 24.
- Minimum of 1000 cc of s erile water or normal saline solution for irrigation. 25.
- Automatic External Defit rillator (A.E. D.) 26.
- Personal protective equi ment (gloves, masks, gowns and eye shields). 27.
- Protective head gear and eye protection devices (minimum two each). 28.
- At the option of the medical control the following equipment may be added: 29.
 - Laryngoscope ha idle with batteries.
 - Laryngoscope blides, adult, child and infant sizes. Infant sizes shall be 0,1,2 (straight). Ir addition, a #2 curved blade will be carried. b.
 - Six disposable endotracheal tubes, sizes to be from 2.5-9.0 with atleast one of each size available. An intubation stylet sized for the neonate patient C. shall also be avai able (6 fr.).
 - Dual Lumen or LI/IA airways, Combitube, age and weight appropriate. d.
 - Magill's Forceps Adult and Pediatric.

Minimum Ambulance Rescue Equipment F.

The following additional items shall be carried by BLS ambulance:

- Hammer, four pound with 15 inch handle. 1.
- 2. One axe.
- Wrecking Bar, minimu n 24-inch (bar and two preceding items can either be 3. separate or combined as a forcible entry tool).
- Crowbar, minimum 48 inches, with pinch point. 4.

Ambulance

- A. Color: There shall be no restrictions concerning the painted color of the ambulance.
- B. Emblems and Markings: There shall be no restriction for "Star of Life" marking and shall display the words "Ambulance" and the name of the licensee in letters of minimum 8 cm in height, on each side of the ambulance.
- C. Color Strip: Ambulance shal not have any color strip around it.
- D. Siren and beacon shall be as per provisions of Central Motor Vehicle Rules under Motor Vehicles Act.
- E. Interior Patient space dimer sions :
- 1. Minimum Compartment Lengt 1: 1600 mm
- 2. Minimum Compartment width: 940 mm
- 3. Minimum Compartment Height: 1000 mm
- F. Standard Safety features such as Belts for Drivers and Attendants.
- G. Medical Equipments to be placed in Ambulance:
- a. Resuscitation kit
- b. First aid box
- c. AMBU Bag set Oropharynge: I airways
- d. Oxygen cylinder and accessories

(to be submitted by each category of ambulance on letter-head of the applicant)

The Chairman,
Committee for Registration of Ambulances,
Government of National Capital Territory of Delhi
Health & Family Welfare Department,
Room No.905, 9th Floor, 'A' Wing,
Delhi Secretariat, New Delhi

Sir,

	. I / We hereby inform that the following qualified medical person shall function a Physician in respect of the ambulance purchased by us vide dated have and chassis No.		
	Name :		
	Father's Name :		
	Address:	ta	
	Qualifications :		
	DMC Regn. No.:		
2.	I / We further undertake that in case of any change in the details of Medical Cont we shall inform the Committee for Registration of Ambulances, within one week details of and undertaking from the new physician.	rol Physiciar c. alongwith	ı, I / the
3.	I / we further undertake that I / we shall comply with the ambulance mar requirements, as and when required.		
		Yours faithfu	illy,
	Sign		_
	Name:	<u>_</u>	
	Designation:		_

UNDERTAKING

Before the committee for Registration of Ambulances
(To be furnished by the Medical Control Physician)

I hereby undertaking that I shall be	responsible for ma	intaining quality
control of service provide by Ambulance	staff owned and o	operated by M/s.
		Engine No.
and	Chassis	No
I hereby undertaking that I shall info	rm the committee for	or registration of
Ambulances if and I dissociate myself form the	ne above charge.	
	Signatur	e
	Name:	
	Address	
	DMC Re	egd. No.
	Stamp:	