

राष्ट्रीय राजमार्ग एवं अवसंरचना विकास निगम लिमिटेड

सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार

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सार्वजनिक क्षेत्र का उपक्रम

A PUBLIC SECTOR UNDERTAKING

File No. : NHIDCL/Admin/Ambulance/2020

Dated 24.12.2020

**Amendment No. - I**

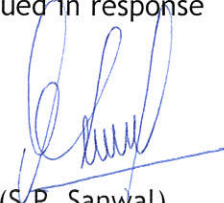
**Sub: Tender for Procurement of Ambulances- Fully equipped Ambulances for Highway patrolling under the jurisdiction of NHIDCL's Regional Offices located in NER States, UT of Ladakh, J & K, A & N Islands and Uttarakhand.**

Ref: Tender ID : 2020\_NHIDC\_602708\_1

Reference above tender, the following amendments are being carried out:

S.No.	Reference Clause	As Existing	As modified
i.	Section-V Page 33-36	<u>Section-V</u> Scope of Work and detailed specifications in Type-I, Type-II and Type-III Ambulances	<u>Section-V</u> Scope of Work & detailed specifications for Type-I and Type-II Ambulances
ii.	Section-VI Page 37-41	List of Equipments and Medicines as well as dressing material to be provided with all 60 Ambulance.	List of Equipments and Medicines as well as dressing material to be provided with all 60 Ambulance after reduction of some quantity.
iii.	Item Rate BoQ at page-42	Price schedule for Type-I, Type-II and Type-III Ambulances (20 under each category)	Price schedule for Type-I and Type-II Ambulances (30 under each category)

2. Other terms and conditions shall remain the same as per RFP and clarification issued in response to pre-bid queries.

  
(S.P. Sanwal)  
DGM (Admin)

**(SECTION-V)****Annexure-I****BoQ****and****SCOPE OF WORK AND DETAILED SPECIFICATIONS**

**Sub:** Procurement of Ambulances- Fully equipped Ambulances for Highway patrolling under the jurisdiction of NHIDCL's Regional Offices located in NER States, UT of Ladakh, J&K, A&N Islands and Uttarakhand

			<b>Type-I (30 Numbers)</b>	<b>Type-II (30 Numbers)</b>
<b>General Vehicle Parameters</b>		Type of Ambulance	Type B (as per clause 3.3.2) of AIS :125 Part-1)	Type C (as per clause 3.3.3) of AIS :125 Part-1)
		Category of Vehicle	M2	M2
		Vehicle Engine Capacity	2000 and above	2100 and above
		Vehicle Emission Compliance	BS VI	BS VI
		Color of Vehicle	White	White
		Vehicle Mileage (declared by OEM as certified by Test Agency under Rule 115 of CMVR 1986) (kmpl)	10.0 and above	10.0 and above
		Top Speed in Km (when tested as per IS:11851-1986)	80 or above	80 or above
		Acceleration (0.70 kmph)	Less than 35 seconds	Less than 35 seconds
		Gradeability of Vehicle	Not less than 10.0 degree	Not less than 10.0 degree
		Air Conditioning	Whole Ambulance	Whole Ambulance
		Engine BHP	100 Horsepower and above	100 Horsepower and above
		Rated RPM at Max Engine BHP	2600 and above	2600 and above
		Type of Vehicle Body	Chasis frame / Monocoque	Chasis frame / Monocoque
		No of Doors	3	3
		Fuel Tank Capacity	60 Liter and above	60 Liter and above
		Length of Vehicle Body	Not less than 4900 millimeter	Not less than 5400 millimeter
		Width of Vehicle Body	Not less than 1800 Millimeter	Not less than 1900 Millimeter
		Height of Vehicle Body	Not less than 2400 Millimeter	Not less than 2500 Millimeter
		Ground Clearance (Road clearance from floor)	185 millimeter and above	185 millimeter and above
		Wheel Base	2800 Millimeter and above	3300 Millimeter and above
		Gross Vehicle Weight	3000 Kilogram or more	3300 Kilogram or more
		Type of Tyre and Tube	BIS marked pneumatic Tyres and tubes for both front and rear	BIS marked pneumatic Tyres and tubes for both front and rear
		Vehicle Transmission System	Manual	Manual
		No. of Speed/Forward Gears	5	5

		Type of wheel drive	Two wheel and above	Two wheel and above
		Size of Tyre	195R15/ 215-75R15/215 R15 Radial	195R15/ 215-75R15/215 R15 Radial
		Drive Axle	Rear/Front	Rear/Front
		Type of Steering	Power	Power
		Turning Radius	At least 5600 millimeter or more	At least 5600 millimeter or more
		Front Vehicle Brake	Disc / Drum Brake	Disc / Drum Brake
		Rear Vehicle Brake	Drum Brake	Drum Brake
		Vehicle Features	Vehicle Brake ABS fitted, Day & Night View Mirror, Low Fuel Warning Light.	Vehicle Brake ABS fitted, Day & Night View Mirror, Low Fuel Warning Light.
<b>Ambulance Body</b>		Patient Compartment	As per cl. 4.5 of AIS 125 Pt I	As per cl. 4.5 of AIS 125 Pt I
		Overall length of Patient Compartment	2600 millimeter or more	3200 millimeter or more
		Overall width of Patient Compartment	1500 millimeter or more	1600 millimeter or more
		Overall height of Patient Compartment	1800 millimeter or more	1800 millimeter or more
		Construction of Patient Department	The ceiling, the material of floor and side shall be non-permeable and resistant to disinfectant	The ceiling, the material of floor and side shall be non-permeable and resistant to disinfectant
		Exterior panel of side body and roof	Sheet metal or GI sheet of thickness 0.8 mm min, FRP paneling, ABS paneling with Anti Bacterial material/ Not for Monocoque	Sheet metal or GI sheet of thickness 0.8 mm min, FRP paneling, ABS paneling with Anti Bacterial material/ Not for Monocoque
		Interior Panel of Roof	Rexin/FRP/GI Sheet of 0.6mm and above/Roof lining	Rexin/FRP/GI Sheet of 0.6mm and above/Roof lining
		Flooring Material	Flooring made out from ISI marked 12 mm thick FR grade plywood covered with vinyle sheet	Flooring made out from ISI marked 12 mm thick FR grade plywood covered with vinyle sheet
		Opening (Doors Windows, Emergency Exit)	As per Cl. 4.4.5 of AIS 125 Pt I	As per Cl. 4.4.5 of AIS 125 Pt I
		Number of Seats (including driver)	At least 6	At least 6
		Number of Stretcher	1	1
		Minimum number of patient and attendant seats	1 at least	2 at least
<b>Main Equipments</b>		Feature of Main stretcher	Main stretcher with separable undercarriage (as per AIS-125) or Stretcher with minimum of two	Main stretcher with separable undercarriage (as per AIS-125) or Stretcher with minimum of two quick-release patient

			quick-release patient restraints (as per AIS-125)	restraints (as per AIS-125)
		Provision for Medical Devices	Mounting for portable oxygen cylinder of 2.2 L water capacity, Hook for infusion mounting, storage for keeping first aid and nursing kit	Mounting for portable oxygen cylinder of 2.2 L water capacity, Hook for infusion mounting, storage for keeping first aid and nursing kit
		Type of patient handling equipment	Main stretcher with undercarriage, oxygen cylinder bracket, I.V. Bottle Hanging Hook, First Aid Box in side of rear saloon	Main stretcher with undercarriage, oxygen cylinder bracket, I.V. Bottle Hanging Hook, First Aid Box in side of rear saloon
		Ambulance Features	Medical cabinet inside of rear saloon, Roof revolving light, Siren , Fire Extinguisher as per AIS 125 Pt-1	Medical cabinet inside of rear saloon, Roof revolving light, Siren , Fire Extinguisher as per AIS 125 Pt-1
		Additional Electric Load of Medical Equipments permissible (watts) as per AIS – 125 (Part-1)	110 Watt or above	110 Watt or above
		Number of battery(ies) provided other than the vehicle battery	01	01
		Additional Battery Capacity	Nominal voltage 12V 80 Ah	Nominal voltage 12V 80 Ah
		Alternate Power	Alternate power 700 W	Alternate power 700 W
		Min no of 12 V connections for medical devises in patient's compartment	2	2
		Min number of 220V AC power supply connections for medical devises in patient compartment	2	2
Environment Testing		Environment Testing Compliance	Flammability Test as per IS 15061:2002 (as applicable), Interior fitting compliance as per AIS-047 established. Air Conditioning and Heating performance test (clause 4.5.4 as per AIS 125 Pt I) Compliance Acceleration test. (Clause 4.2.1 per AIS 125 Pt I and IS:11851-2002). Water Proofing Test Compliance (IS:11865-1995) Dust	Flammability Test as per IS 15061:2002 (as applicable), Interior fitting compliance as per AIS-047 established. Air Conditioning and Heating performance test (clause 4.5.4 as per AIS 125 Pt I) Compliance Acceleration test. (Clause 4.2.1 per AIS 125 Pt I and IS:11851-2002). Water Proofing Test Compliance (IS:11865-1995) Dust Ingress Test (IS: 11739-1997) Compliance

			Ingress Test (IS: 11739-1997) Compliance	
		Additional feature for COVID 19 Ambulance	Partition between driver and patient compartment	Partition between driver and patient compartment
		Warranty Time	36 Months	36 Months
		Warranty Distance (or warranty time, whichever earlier)	300000 Kilometer	300000 Kilometer
		Battery Warranty	12 Months	12 Months
		No. of free service during warranty	6	6
Certification		Applicable GSR 287 (E), Central Motor Vehicle (4 <sup>th</sup> Amend) Rules, 2015 and Ambulance CODE (Latest)	Compliance to AIS 125 (Part I) : Constructional and Functional Requirements for Road Ambulances with all amendments till date	Compliance to AIS 125 (Part I) : Constructional and Functional Requirements for Road Ambulances with all amendments till date
		Certification	Complete Vehicle	Complete Vehicle
		Vehicle Certification	ARAI	ARAI

## SECTION-VI

## Annexure-II

**LIST OF EQUIPMENTS AND MEDICINES AS WELL DRESSING MATERIALS TO BE PROVIDED WITH  
ALL 60 AMBULANCES**

S. No.	Equipment	Quantity
1.	Main automatic loading stretcher (length 1900mm-1970mm, width 530 mm to 570 mm with loading capacity of 150 kg) conforming to AIS-125 standard	1
2.	Scoop stretcher (lightweight aluminum stretcher, length 1600 mm-2000 mm, width- minimum 42 cms, loading capacity- minimum 150 kgs) conforming to AIS-125 standard	1
3.	Vacuum mattress (length 1900 mm - 1970 mm, width 530 mm to 570 mm with loading capacity of minimum 150 kg) conforming to AIS-125 standard	1
4.	Long spinal board (with head immobilizer & securing straps and plastic material at high strength, should be waterproof & conforming to AIS-125 standard	1
5.	Set of fractures/splints made of mouldable metal or alloy (aluminum)- sizes for both children & adults and for hand & wrist, half arm, full arm, foot and ankle, half leg, full leg (all splints should be washable and reusable)	2 each
6.	Cervical collar for both kids & adults (should have pre-molded chin support, locking dials and rear ventilation panel and an enlarged trachea opening, should have high density polyethylene and foam padding, should be X-ray lucent and easy to clean and dis-infect)	2 each
7.	KED extrication device	1
8.	Stationary oxygen- Minimum 2 Nos. of 10 L water capacity cylinders at maximum 150 kgf/cm <sup>2</sup> filling pressure manufactured as per IS:7285 & certified by chief controller of explosives, Nagpur along with 3/8 bull nose valve as per IS:3224	2
9.	Portable oxygen - Minimum 1 Nos. of 2.2 L water capacity cylinders at maximum 150 kgf/cm <sup>2</sup> filling pressure manufactured as per IS:7285 & certified by chief controller of explosives, Nagpur along with 3/8 bull nose valve as per IS:3224	1
10.	Manual resuscitator with oxygen inlet and mask	1
11.	Airways (nasopharyngeal airways of size 6.5 mm, 7.5 mm, 7 mm, 8.5 mm & 8 mm & oropharyngeal of size 0, 1, 2, 3 & 4)	2 each
12.	Electric portable suction aspirator with air flow of at least 30 L/min and vacuum level of at least 600 mm Hg (ISO 10079-1-1999)	1
13.	Manual portable suction aspirator conforming to AIS Standards	1
14.	Suction Catheter (12 & 16)	2 each
15.	Laryngeal mask airway (for both kids & adults)	2 each

16.	Infusion solutions, Litre	2
17.	Equipment for injections and infusions set (IV Sets)	2
18.	Infusion mounting	2
19.	Tourniquet (as per prescribed standard)	1
20.	Automatic External Defibrillator with ability to deliver shock up to 200 joules through biphasic technology; should also consist of an audio alarm	1
21.	Nebulizer conforming to (as per prescribed standard)	1
22.	Manual B.P Monitor (cuff size:10 cm - 66cm)	1
23.	Portable Automatic B.P., heart rate & saturation monitor	1
24.	Oximeter of ISO 9919 standards	1
25.	Stethoscope conforming to IS 3391: 1965	1
26.	Thermometer ( min: 28 degrees to 42 degrees Celsius)	1
27.	Device for blood sugar determination	1
28.	Diagnostic Light	1
29.	Blanket	1
30.	Non woven stretcher sheet	1
31.	Kidney bowl	1
32.	Vomiting bag	1
33.	Non-glass urine bottle	1
34.	Waste bag	1
35.	Bed pan	1
36.	Sharps container	1
37.	Sterile surgical gloves, pairs	5
38.	Non- sterile gloves for single use	100
39.	Basic protective clothing include high visibility reflective jacket	3
40.	Safety/debris gloves	3
41.	Safety shoes	3
42.	Safety helmet	3
43.	Personal protection equipment against infection including disinfectants	3
44.	Fire extinguishers (minimum 2 kgs) complying with IS:15683:2018	2
45.	Hammer	1
46.	Shovel	1
47.	Hydraulic Cutter/Spreader	1
48.	Warning Triangle Lights	4
49.	Spotlight	1
50.	Public addressal system	1
51.	Two way radio transceiver or better technology for mobile communication with highway surveillance team, tow away crane & control room	1
52.	Internal phone within patient compartment for communication with driver	1
53.	Automated vehicle tracking system with GPS technology for continuous tracking of vehicle location	1
54.	Video Camera (1 each in patient and driver compartment with Drive Recorder and 15 days data storage)	2

- List of medicines & dressing material to be carried in rescue ambulance at all times:

S. No.	Medicines & Dressing Material	Quantity
1.	Band- Aids	20
2.	BETADINE SOLUTION 500ml (bottle)	1
3.	Cotton roll 500 gm	1
4.	Crape bandage 15cm x 4mtr	2
5.	Crape bandage 7 cm x 4 mtr	2
6.	DRESSING PAD 10CM X10 CM (pre-sterilized)	10
7.	DRESSING PAD 10CM X 20 CM (pre-sterilized)	10
8.	Elasto plast (dyna plaster) 10 cm	2
9.	Gauge cloth 80 cm x 18 mtr	1
10.	Gauge rolls 4 “	1
11.	Gauge rolls 6“	1
12.	Plain bandage of various sizes	3
13.	HYDROGEN PEROXIDE 400ML (bottle)	1
14.	Micropore tape 2”, 4”	2
15.	SURGICAL SPIRIT BOTTLE 500ML (bottle)	1
16.	Glucose 100 gm	2
17.	I V FLUID DEXTROSE 25% (bottle)	5
18.	I V FLUID NORMAL SALINE (bottle)	10
19.	I V FLUID RINGER (RL) (bottle)	10
20.	I V FLUID 5% GNS (bottle)	5
21.	Inj adrenaline 1 ml	5
22.	Asthalin - neubilizing solution	5
23.	Inj atropine 1 ml	20
24.	Inj avil 2 ml	5
25.	Budesonide - neubilizing solution	5
26.	Inj distilled water 5 ml	5
27.	Inj dizazepam 2ml	5
28.	Inj hydrocortisone 100 mg	5
29.	Inj lasix 2 ml	5
30.	Inj paracetamol 2ml	5
31.	Inj rantidine 2ml	5
32.	Inj tramadol 2 ml	5
33.	Inj tranexaminic acid	4
34.	In neostigmine	4
35.	Inj haemaccel	2
36.	Inj mannitol	5
37.	Inj sodabcarb 7.5%	5
38.	Inj metaclopramide	5
39.	Inj phenytoin	5
40.	Inj hyosymine bromide or dicyclomine hydrochloride	5



41.	Inj methargin	5
42.	Ors 4.20gm	10
43.	SYP ANTACID ANAESTHETIC GEL (bottle)	1
44.	SYP PARACETAMOL 60ML (bottle)	1
45.	TAB ACTIVATED CHARCOAL (strip)	1
46.	TAB CLOPIDOGREL (strip)	1
47.	TAB DISPRIN/ASPRIN (strip)	1
48.	TAB PARACETAMOL (strip)	1
49.	TAB ISOSORBRITE DINITRATE 5MG SUBLINGUAL (strip)	1
50.	XYLOCAINE (WOCAINE GEL) 2% 30GM JELLY (tube)	1