

**പതിനാലാം കേരള നിയമസഭ**

**പത്തൊൻപതാം സമ്മേളനം**

നക്ഷത്രചിഹ്നമിടാത്ത ചോദ്യം നമ്പർ: 213

02.03.2020 -ൽ മറുപടിക്ക്

**കനിവ് 108 ആംബുലൻസ് പദ്ധതി**

**ചോദ്യം**

**ശ്രീ. പി. കെ. ശശി**

**മറുപടി**

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(ആരോഗ്യവും സാമൂഹ്യ നീതിയും വനിതാ ശിശു

വികസനവും വകുപ്പ് മന്ത്രി)

<p>(എ) കനിവ് 108 ആംബുലൻസ് പദ്ധതി പ്രകാരം സംസ്ഥാനത്ത് ആകെ യത്ര ആംബുലൻസുകളാണ് അനുവദിച്ചിട്ടുള്ളതെന്നും പ്രസ്തുത ആംബുലൻസുകളിൽ എന്തെല്ലാം സൗകര്യങ്ങളാണ് ഏർപ്പെടുത്തിയിട്ടുള്ളതെന്നും അറിയിക്കാമോ;</p>		<p>(എ) കനിവ് 108 ആംബുലൻസ് പദ്ധതി പ്രകാരം 315 ആംബുലൻസുകളാണ് കേരളമൊട്ടാകെ വിന്യസിച്ചിരിക്കുന്നത്. 12 മണിക്കൂർ സർവ്വീസ് നടത്തുന്ന 165 ആംബുലൻസുകൾ, 24 മണിക്കൂർ സർവ്വീസ് നടത്തുന്ന 150 ആംബുലൻസുകൾ എന്ന പ്രകാരമാണ് പ്രസ്തുത പദ്ധതി വിഭാവനം ചെയ്തിരിക്കുന്നത്. 315 ആംബുലൻസുകളും പകൽ സമയത്ത് സർവ്വീസ് നടത്തുന്നതാണ്. ആംബുലൻസുകൾ എല്ലാം തന്നെ ജി.പി.എസ് സംവിധാനം ഘടിപ്പിച്ചവയാണ്. തിരുവനന്തപുരം ടെക്നോപാർക്കിലുള്ള കേന്ദ്രീകൃത കോൾ സെന്റർ മുഖേനയാണ് പ്രസ്തുത വാഹനങ്ങളെ നിയന്ത്രിക്കുന്നത്. പരിശീലനം ലഭിച്ച എമർജൻസി റെസ്പോൺസ് ഓഫീസർമാർ സേവനം ആവശ്യപ്പെടുന്ന വ്യക്തിയിൽ നിന്ന് സ്ഥലവും അപകടത്തിന്റെ വിശദാംശവും മനസ്സിലാക്കി ജി.പി.എസ് സംവിധാനത്തിന്റെ സഹായത്തോടു കൂടി ഏറ്റവും അടുത്തുള്ള ആംബുലൻസിനെ ആവശ്യക്കാരന്റെ അടുത്ത് എത്തിച്ച് ആംബുലൻസിലെ എമർജൻസി മെഡിക്കൽ ടെക്നീഷ്യന്റെ പരിശോധനകൾക്ക് ശേഷം ആവശ്യമായ ചികിത്സ കിട്ടുന്ന</p>
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		<p>ആശുപത്രി തിരഞ്ഞെടുത്ത് എത്രയും പെട്ടെന്ന് എത്തിക്കുക എന്നുള്ളതാണ് അടിസ്ഥാനപരമായി ഈ സർവ്വീസ് കൊണ്ട് ഉദ്ദേശിക്കുന്നത്. പ്രസ്തുത ആംബുലൻസുകളിൽ ലഭ്യമാക്കിയിരിക്കുന്ന ഉപകരണങ്ങളുടെയും മരുന്നുകളുടെയും പട്ടിക അനുബന്ധമായി ചേർത്തിരിക്കുന്നു.</p>																																																												
(ബി)	<p>ഈ പദ്ധതി പ്രകാരം പാലക്കാട് ജില്ലയിൽ എത്ര ആംബുലൻസുകളാണ് അനുവദിച്ചതെന്നും ഏതെല്ലാം സ്ഥലങ്ങളിലാണ് അനുവദിച്ചതെന്നും വിശദമാക്കാമോ?</p>	<p>(ബി) പാലക്കാട് ജില്ലയിൽ 28 ആംബുലൻസുകളാണ് അനുവദിച്ചിരിക്കുന്നത്. വിശദാംശങ്ങൾ ചുവടെ കൊടുക്കുന്നു.</p> <table border="1" data-bbox="807 737 1387 2086"> <thead> <tr> <th>Sl. No.</th> <th>Name of the Institution</th> <th>Service Timings</th> </tr> </thead> <tbody> <tr><td>1</td><td>ALANALLUR CHC</td><td>24 hrs</td></tr> <tr><td>2</td><td>AMBALAPPARA CHC</td><td>12 hrs</td></tr> <tr><td>3</td><td>CHALAVARA CHC</td><td>12 hrs</td></tr> <tr><td>4</td><td>CHERPALASSERI CHC</td><td>24 hrs</td></tr> <tr><td>5</td><td>CHITTUR THQH</td><td>24 hrs</td></tr> <tr><td>6</td><td>ELAPPULLY THQH</td><td>12 hrs</td></tr> <tr><td>7</td><td>KALLADIKODE PHC</td><td>12 hrs</td></tr> <tr><td>8</td><td>KAPPUR PHC</td><td>12 hrs</td></tr> <tr><td>9</td><td>KODUVAYOOR CHC</td><td>12 hrs</td></tr> <tr><td>10</td><td>KONGADU PHC</td><td>12 hrs</td></tr> <tr><td>11</td><td>KOTTATHARA GTH</td><td>24 hrs</td></tr> <tr><td>12</td><td>KOZHINHAMPARA CHC</td><td>24 hrs</td></tr> <tr><td>13</td><td>KUMARANALLUR PHC</td><td>12 hrs</td></tr> <tr><td>14</td><td>KUZHALMANDOM CHC</td><td>24 hrs</td></tr> <tr><td>15</td><td>MALAMPUZHA PHC</td><td>12 hrs</td></tr> <tr><td>16</td><td>MANNARKKADU THQH</td><td>24 hrs</td></tr> <tr><td>17</td><td>NELLIAMPATHY PHC</td><td>12 hrs</td></tr> <tr><td>18</td><td>NENMARA CHC</td><td>24 hrs</td></tr> <tr><td>19</td><td>OTTAPPALAM THQH</td><td>24 hrs</td></tr> </tbody> </table>	Sl. No.	Name of the Institution	Service Timings	1	ALANALLUR CHC	24 hrs	2	AMBALAPPARA CHC	12 hrs	3	CHALAVARA CHC	12 hrs	4	CHERPALASSERI CHC	24 hrs	5	CHITTUR THQH	24 hrs	6	ELAPPULLY THQH	12 hrs	7	KALLADIKODE PHC	12 hrs	8	KAPPUR PHC	12 hrs	9	KODUVAYOOR CHC	12 hrs	10	KONGADU PHC	12 hrs	11	KOTTATHARA GTH	24 hrs	12	KOZHINHAMPARA CHC	24 hrs	13	KUMARANALLUR PHC	12 hrs	14	KUZHALMANDOM CHC	24 hrs	15	MALAMPUZHA PHC	12 hrs	16	MANNARKKADU THQH	24 hrs	17	NELLIAMPATHY PHC	12 hrs	18	NENMARA CHC	24 hrs	19	OTTAPPALAM THQH	24 hrs
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	22	PATTAMBI THQH	24 hrs
	23	PAZHAMPALAKKODE CHC	12 hrs
	24	PUTHUSSEERI PHC	12 hrs
	25	SHORNUR GH	24 hrs
	26	THACHAMPARA PHC	12 hrs
	27	THRITHALA CHC	12 hrs
	28	VADAKKENCHERRY CHC	24 hrs



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List for Equipment for Basic Life Support Ambulance:

Sl.No.	Equipment Name	Specification
1	Suction Pump (Electronic)	<ol style="list-style-type: none"> <li>1. Equipment shall be with 12V DC Maximum negative pressure from -200 -700mbar in steps of 100 or less with suitable setting marks.</li> <li>2. Sufficient capacity 500ml secretion bottles with efficient overflow protected with adjustable negative pressure (Min. 5 Nos. Polycarbonate &amp; autoclavable)</li> <li>3. Ambulance Wall countable.</li> <li>4. Power Pack rechargeable Nico Battery 12 V with battery chargers connecting cable for connection to 230v AC+ 10%, 50 Hz and with provision for recharging from the vehicle with vehicle circuit connecting cable.</li> <li>5. Battery charged life shall be of min. 90 minutes</li> <li>6. Suction capacity 10-16 liter per minutes</li> </ol>
2	Suction Pump	Manual
3	Laryngoscope with blades	<ol style="list-style-type: none"> <li>1. Standard equipment in metal with 3 standard size curved blades and one extra large blade (Adult &amp; Child).</li> <li>2. Handle should have comfortable grip.</li> <li>3. Good quality light source (Fiber optic / conventional)</li> </ol>
4	Oxygen cylinder "B" Type	<ol style="list-style-type: none"> <li>1. Color coded light weight! Aluminum alloy oxygen cylinder for providing oxygen therapy of total capacity of 1500Ltr.</li> <li>2. Mounted with pressure reducer and flow-meter provision of capacity upto 15 Liters per minutes and outlet for secretion aspiration.</li> <li>3. Reliable and complete test certificate.</li> <li>4. Should be provided with an adapter to refill the cylinder from a bulk cylinder.</li> <li>5. Should be membrane pressure reducer with manometer complete with flow meter 0-15 liters /min. and humidifier</li> </ol>
5	Artificial Manual Breathing Unit (Adult)	<p>The equipment shall be with:</p> <ol style="list-style-type: none"> <li>1. Easy Grip manual resuscitator with transparent face -mask.</li> <li>2. Adult models (1500 to 2000ml bag capacity)</li> <li>3. Standard 15-22 mm Swivel connector allows connections to all common masks Endotracheal Tubes.</li> <li>4. Provision to give supplemented oxygen-by-oxygen reservoir providing 100% oxygen.</li> <li>5. Non-rebreathing valve enabling the patient to inspire oxygen from the reservoir bag.</li> </ol>
		<p>The equipment shall be with:</p> <ol style="list-style-type: none"> <li>1. Easy Grip manual resuscitator with transport facemask.</li> </ol>

6	Artificial Manual Breathing Unit (Child & neonatal)	<ol style="list-style-type: none"> <li>2. Child models (500 o 250ml bag capacity)</li> <li>3. Standard 15-22 mm Swivel connector allows connections to all common masks Endotracheal Tubes.</li> <li>4. Provision to give supplemented oxygen by oxygen reservoir providing 100%oxygen.</li> <li>5. Non-rebreathing valve enabling the patient to inspire oxygen from the reservoir bag.</li> </ol>
7	Trolley Stretcher- with back tilt facility and collapsible wheels for uploading into the trolley	<ol style="list-style-type: none"> <li>1. Automatic loading stretcher with capability to convert into wheelchair.</li> <li>2. Built with anodized aluminum lightweight / stainless steel.</li> <li>3. Adjustable back rest 0 dg -90 dg which allows to fix the back rest safety in any position.</li> <li>4. Side protections completely overturn able.</li> <li>5. Safety lever for the legs positioned near the unlocking device allowing thus the release operation for the loading, keeping the hands on the stretcher.</li> <li>6. Vertical legs protected by nylon wedges. Automatic centering device mounted on rotating wheels. This system automatically blocks the back wheels in the central position during the loading of the stretcher on the ambulance without having turn the wheels manually. Length; 190-200 cm Width: 55-60cm Height: 80-85cm Weight 35-40 kg. Loading Capacity: 160-180 kg. Stand for automatic loading stretcher with locking facility for quick fixing system with handle to mount the stand in very position on the stretcher</li> <li>7. In order to ensure the smooth movement of the stretcher the surface shall be of Stainless Steel 304 grade of size 1200mmx850mm shall be fixed under the patient stretcher trolley equivalent to the size of the trolley</li> </ol>
8	Canvas Stretcher Folding	<ol style="list-style-type: none"> <li>1. Should be lightweight and made up of tubular aluminum alloy.</li> <li>2. Should be easy to carry.</li> <li>3. Should be rugged.</li> <li>4. Should be compact &amp; foldable in 2</li> <li>5. Should have automatic locking, which does not fold in automatically.</li> <li>6. Should have provision to put IV pole on the stretcher.</li> <li>7. Should come with IV Stand as Standard. Extended Dimensions Length: 200-210 cm Width: 50- 60cm Height: 15-20cm Weight: 5 kg. to 6 kg Approx.</li> </ol>
9	Stretcher Scoop	<ol style="list-style-type: none"> <li>1. The equipment shall be lightweight aluminum stretcher, which folds in two half and separates for application and removal, locking adjustable length with latches with nylon straps</li> <li>2. Narrow food end frame or handling in confined areas. Length: 160 to 200 cms</li> </ol>

		Width: 42 cm (Minimum) Weight: < 10 kg. Load capacity -120 kg (Min.)
10	B.P. Instrument Aneroid	Scale 0-300mmHg. Air release at closed lap max 4mmHg/Minute. Manual setting of deflation possible up to 2/3mmHg/s. From 260mmHg. To 15mm Hg max deflation time 10 seconds. Gauge's background in white colour. Graduated scale for ever/ 2mmhg, with bigger notches un graduated every 10 units and bigger graduated every 20 units. Floating zero (the pointer hasn't stop point. But swings freely), nylon rip-off straps cuff matching colours with pouch, latex bulb with completely chromium plated valve. Air taps wholly chromium plated with regulation of vent-hole air by screw valve. Nylon off pouch with zip
11	Stethoscope	Stethoscope with standard adult size, chromium plated metal binaural, V rubber tube in one piece. Rotating piper fitting for both functions.
12	Pneumatic Splints set of 6 adult sizes with carrying case 1. Hand & Wrist 2. Half arm 3. Full arm 4. Foot and ankle 5. Half leg 6. Full leg	<ol style="list-style-type: none"> <li>1. X-ray through the splints</li> <li>2. Inflation tubes' extension with dosing damp makes dosing easy and quick after inflation.</li> <li>3. Fixing of splint is by zipper or belt</li> <li>4. Distal end left open to expose toes</li> <li>5. Should be washable and reusable</li> </ol>
13	Gauze Cutter	Emergency scissors with thermoplastic handle and steel blade to cut clothes Length should be 18 cm.
14	Artery Forceps	Standard equipment in stainless steel 14 cm
15	Magills forceps	Standard equipment in stainless steel
16	Cervical Collar	<ol style="list-style-type: none"> <li>1. Should be adjustable to 4 different sizes.</li> <li>2. Should be pre-molded chin support, locking dials and rear ventilation panel, enlarged trachea opening.</li> <li>3. Should be high-density polyethylene and foam padding with one piece design enables efficient storage where space is limited.</li> <li>4. Should be X-ray lucent and easy to clean and disinfect.</li> </ol>
17	First Aid Bag	Bag with partitions for vials transport. Indispensable implement to protect and identify any kind of vials. Made with nylon, it should be provided with 2 compartments, of which one divided in 3 partitions and one divided in 2. Inside elastic band to fix the vials and transparent accommodation for identification labels. Dimensions: 30x18 x 15 cm or Pre-packed kits as convenient as long as it contains the specified first aid items
18	Spinal Board	<ol style="list-style-type: none"> <li>1. Should be in plastic material at high strength and waterproof.</li> <li>2. It should be 4 rules for the quick and total fixing of the head immobilizer and two cavities when the board lays on the Floor, when the base is blocked in the traditional way, that allow to avoid damages to rip-off straps during the usage or accommodation in</li> </ol>

		the ambulance. 3. It should be 20 handles for the transport, supplied with 3 belts with rapid unhooking buckle 4. Should have maximum radio transparency to make exams without compromise patient condition.
19	Double head Immobilizer for scoop stretcher Immobilizer for scoop stretcher	1. Head Immobilizer should be mounted and separated on the scoop stretcher. 2. Should be standard side rigid blocks instead of the adjustable ones. 3. Should be with padded belts for the fixing. 4. It should be covered by a liquid proof and bacterial proof material.
20	Oxygen cylinder "D" Type	1. It should be a standard 'D' type molybdenum steel cylinder to fill medical oxygen. 2. The capacity should be of 5000 to 6000 Liters (5 to 6 M3) at a pressure of 1800 - 2000lbs/inch <sup>2</sup> , 3. A pressure regulator/flow meter capable of reducing the pressure to appropriate level to run either a ventilator or provide oxygen therapy
21	Portable hand held Glucometer	The glucometer with test strips and standard accessories.
22	Nebulizer (Electric)	With necessary accessories- nebulization mask, tubing and cable cord for nebulizer
23	Pulse oximeter	Finger type (Nelicore /Massimo /Equivalent Technology)

### Rescue Tools & Accessories

The following additional items will be carried by each BLS Ambulance

1. 12" Wrench , Adjustable, Open End
2. 12" Screw Driver Standard Square bar
3. 8" Screw Driver Phillips Head # 2
4. Hacksaw with 12" carbide wire blades
5. Vise grips pliers, 10"
6. 5 Lb hammer with 15" handle
7. One axe
8. Wrecking Bar, minimum 24 - inch (bar and 1 w preceding items can either be separate or combined as a forcible entry tool)
9. 51" Crowbar pinch point
10. Crowbar, minimum 48 inches, with pinch point
11. Fire extinguisher (Carbon dioxide based, portable) suitable capacity for vehicle

## MEDICINES AND CONSUMABLES TO BE STOCKED IN BLS

### I. List of Medicines per each BLS

Sl.No	Medicine
1	Inj. Adrenaline
2	Inj. Atroine
3	Inj. Calcium Carbonate
4	Inj. Hydrocortisone Sodium Succinate
5	Inj. Frusemide
6	Inj. Diazepam/Midazolam
7	Inj. Deriphyllin
8	Inj. Phenytoin sodium
9	Inj. Chlorpheniramine Maleate
10	Inj KCL
11	Inj. Mannitol 20 %
12	Activated charcoal
13	Bacteriostatic water for Injection
14	Inj. Voveran
15	Inj. Paracetamol
16	Inj. Ranitidine
17	Inj. Ondansetron
18	Inj. Buscopan
19	Plasma expander

The overall medicines list may be reviewed and updated on recommendations a emergency physician's committee

### II. List of Consumables in each BLS

Sl. No.	Items
1	Cotton
2	Bandage (a) 15cm (b) 10cm (c) 6cm
3	Savlon
4	Betadine
5	Pain Spray
6	Face Mask (Disposable)
7	Surgical Gloves
8	LMA disposable
9	Wide bore needles
10	Disposable L.P. Needles
11	Syringes ABG ( 2 & 5 ml)
12	Three way stop code



13	Extension 1A/ lines
14	Disposable suction pump catheters
15	Lighted Stylets of different sizes
16	Guedel's airway 00-5,00,0,1,2,3,4,5
17	Nasal airways(all sizes) & catheters
18	Binasal Cannula
19	Ventimask, facemask with nebulizer
20	Pressure Infusion Bags
21	IV. Fluids
22	Micro drip-set & Dip-set
23	Nasogastric Tubes
24	Bum Pack : Standard package, clean burn sheets (or towels for children)
25	Triangular bandages ( Minimum 2 safety pins each)
26	Dressings : Sterile multi-trauma dressings (various large and small sizes); ABDs,
27	10"x12" or larger; 4"x4" gauze sponges; Cotton Rolls
28	Gauze rolls Sterile (various sizes)
29	Elastic bandages Non-sterile (various sizes)
30	Occlusive dressing Sterile. 3'x8" or larger
31	Adhesive tape : Various sizes (including 2" or 3") Adhesive tape (hypoallergenic):
32	various sizes (including 2" or 3")
33	Waste bin for Sharp needles, etc.
34	Disposable bags for vomiting, etc.
35	Teeth Guard
36	Sample collections kits
37	Micron drip set
38	Plastic/metallic urinal
39	Kidney trays
40	Hand Sanitizers

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