

Specifications for procurement & customization of Mobile Veterinary Units (MVUs) under Establishment & Strengthening of Veterinary Hospitals and Dispensaries (ESVHD) – Mobile Veterinary Units (MVU)

OBJECTIVES:

1. In order to increase accessibility of veterinary services at farmer's doorsteps, funds for Mobile Veterinary Units (MVUs) will be provided to the States/UTs under this scheme for @ 1 MVU approximately for one lakh livestock population
2. **These MVUs will be customized/fabricated vehicles for veterinary healthcare with equipment for making diagnosis, treatment & minor surgery, collection of samples, audio visual aids and other basic requirements for treatment of animals. The vehicle would preferably be a four-wheeler van with space enough to accommodate required equipment etc., medicines, surgical equipment, sample collection facilities and animal handling paraphernalia, working space for 1 veterinarian, 1 para-veterinarian and a driver-cum-attendant along with necessary equipment.**
3. These MVUs will provide veterinary services at the farmers' doorstep basis the phone calls received at the Call Centre from farmers of respective State/UT. The MVUs need to be positioned at strategic locations in order to minimize travel time and to provide service within targeted time.

Process for CALL CENTRE

1. A State/UT level **Call Centre** should also be set up / aligned with the existing Call Centre in each State/ UT. Such Call Centers should be under the control of the State/ UT Animal Husbandry Department with a Nodal Officer nominated by the State. The Call Centre should function as the pivot whilst rendering the mobile veterinary services. It should receive calls from livestock rearers / animal owners and transmit them to the Veterinary doctor at the Call Centre. The decision of directing the MVU would be on the emergent nature of the veterinary case as decided by the Veterinary doctor at the Call Centre. The Call Centre should also be responsible for monitoring the movement and use of the MVUs. The Call Centre should also confirm actual services through the UID and mobile number of the animal owner and share the data with the

State concerned. The Call Centre should also be responsible for communication with the local Veterinary Surgeon for follow up treatment and registered local AI technician for AI. MVUs should also provide extension service through audio-visual aids contained in the MVUs to the local population so as to spread awareness of animal diseases, their prevention and control, requisite bio-security measures, economic advantages of livestock farming and efforts of the Government in this direction.

2. Each State level Call Centre unit shall be constituted of 1 veterinarian and 3 call executives for around every 20 MVUs. For 100 MVUs, there will be 2 veterinarians along with 6 Call Executives and for additional each one hundred of MVUs, 1 veterinarian & 3 Call Centre executives will be required.

FUNDING PATTERN

1. There will be provision for Mobile Van customized for veterinary healthcare (equipment for diagnosis, treatment and minor surgery including audio-visual aids) (@ Rs.16.00 lakh / van). This non-operating cost (i.e., cost of MVU) would be through 100% central funding.
2. **The recurring cost for running of MVUs is pegged at @ Rs.18.72 lakh / MVU** and Office expenses of running Call Centre will be @ Rs.5,000/- pm for Call Centre consisting of 1 veterinarian & 3 Call Executives and an additional Rs.2,000 pm for each addition of 1 Veterinarian & 3 Call Executives. These will be on a Center-State sharing basis as applicable (60-40 for all other states / 90-10 for NE & Himalayan States/ 100% for UTs).
3. Both, the recurring and the one-time capital cost given (of MVUs) are indicative and is subject to the tendered rates. Flexibility for transfer of funds from one component to any other component is envisaged as per exigencies.

Keeping in view above objectives, utility and availability of funds and considering areas to be covered in various States/UTs based on their respective difficult terrains following specifications may be proposed:

Specifications of MVUs:

Sr. #	Item	Proposed Description of Specification	Remarks
1	Vehicle Type	Four-wheeler	To be customized for

			desired utility
2	Engine displacement	1100 CC (Minimum) to 2600 CC (Maximum)	
3.	Fuel Type	Petrol/Diesel/CNG	Availability of fuel in that area and cost of running
4.	Engine Norms	As per applicable (NGT Norms) BS VI	
5.	Steering	Power Steering	
6.	AC	With AC Cabin	
7.	Maintenance Cost	Maximum 8,000/- per service	
8.	Wheelbase	2,000 mm (Minimum)	
9.	Engine Cylinders	Minimum 4 Cylinders	
10.	Sitting Capacity	Driver, Veterinarian and one Para-veterinarian (Minimum D+2)	
11.	Availability of Service (Repair and maintenance) Centres	Mobile veterinary unit should be backed by service on-site network for maintenance and repairs	
12.	Fuel Tank Capacity	Minimum 30 litres	
13.	Ground clearance	160 mm minimum	

Other Specification for customization:

Customization Plan		
1	Clinical Cabin	The clinical Section needs to be built on chassis as per requirement or vehicle shell readily available may be customized to meet all desired requirement and necessary arrangements for treatment, minor surgeries, sample collections, space for LN2 Containers for keeping AI straws, etc.
2	Utility	Convenience in use for emergency services, first-aid services, animal examination camps, animal treatment camps, disaster and epidemic / pandemic emergency, road accident emergency, treatment, vaccination services & camps, artificial Insemination services, among other veterinary requirements
3	Storage Facilities	Mobile veterinary unit should have cabinets for storage of enough medicine, consumables, treatment and examination equipment, surgical equipments, vaccines and other treatment site necessities
4	Medicines	Mobile veterinary unit should have storage for medicines viz. antibiotics, lifesaving corticosteroids, antihemorrhagics, analgesics, antipyretics, antidiarrheals, antihistamines, anthelmintics, antiprotozoals, injectable and oral haematinics, injection ascorbic acid, H2 receptor blockers / gastric anti reflux agents, antiemetics, vitamin injections, liver extract, nasal, eye, ear drops, calcium injection,

		laxatives, purgatives, all vaccines especially anti rabies, antivenom depending on area, intra uterine bolus, anti-bloat, anti tympany, carminatives, etc.
5	Vaccination	Mobile veterinary unit should be equipped for carrying out vaccine campaigns, fill gaps or ring-vaccination during situations of outbreaks / epidemic / pandemic
6	Sample Collections & Diagnostic Kits	Mobile veterinary unit should have provision for sample collection & rapid diagnostic kits, for storing syringes, blood collection tubes, whirl pack, faecal sample collection containers etc., rapid diagnostic kits as per requirements
7	Mini Refrigerator	Mobile veterinary unit should have mini refrigerator for transport of diagnostics/vaccines/medicines and diagnostic specimens
8	Emergency light & siren	Mobile veterinary unit should have emergency light bar with siren & public address system
9	Signs and Logo	Mobile veterinary unit should have branding with vinyl stickers as per pre-approved design
10	Flooring	Mobile veterinary unit should have inside flooring with SS sheet 1mm thick to facilitate washing of floor (Waterproof)
11	Dustbins	Provision for 2 dustbins size 8" diameter
12	Washbasin	Washbasin - approximate of 400 mm diameter with water tap
13	Fresh & Drain Water Tanks	Fresh & drain water tanks each of 10 litres capacity with foot operated electrical switch for tap operation
14	Emergency Tools	Squad bench/attendant/helper seat with storage for emergency rescue tools
15	Examination Table	An examination table of appropriate size to be put over the hallow rack. Particularly the Gum Boots can be stored at the rack as the storage of this rack is sufficiently big. The top of the table is covered with a 12mm fire resistant plywood. On the top of it a fine surfaced FRP sheet is fixed for performing surgeries of animals. Locks and handles are to be provided for all the racks and drawers
16	Fire extinguisher hold:	<ul style="list-style-type: none"> Provision with straps / Velcro with reinforcement on wall for placing a fire extinguisher should be provided with holding bracket on the floor with proper size at the right-side corner of the rear door entrance Provision to be given in pilot compartment for holding the 1 kg fire extinguisher
17	Drinking Water Pot	3.5 Lt. (Stainless Steel AIR POT Type-Polo Lifetime make or equivalent quality) is to be provided with straps near washbasin area
18	Partition Wall Communication Window	A partition wall between the Driver Cabin and Patient cabin is to be fabricated. A sliding access window of appropriate size between Driver's Cabin and Patient Compartment should be provided at appropriate location for visual checks and voice communication between the cabin and patient compartment. This window shall be fitted with safety glasses complying cabin and patient compartment. This

		window shall be fitted with safety glasses complying with requirements of IS 2553, Part 2 and should be able to be latched from the patient cabin side and should be transparent and shall have adjustable opening. This window should also have a roll down curtain
19	Surgical equipment and first aid box	Provision to be made to the surgical equipment box and first aid kit behind the stretcher box in the place available with Velcro and clamp mechanism.
20	Power Points	Mobile veterinary unit should have adequate no. of power points with charging point for Laptop / GPS / Tab with printer/any required equipment
21	Lights & Fan	Mobile veterinary unit should have adequate nos. of ceiling light & fan operated on 12v DC supplied by vehicle battery
22	Power Points for other equipments	Mobile veterinary unit should have adequate power points with charging point for portable and transportable veterinary equipment viz. ultrasound scanner, x-ray, ECG, multiple parameter monitor, auto haematology analyzer among other equipment
23	LN2 Container	Mobile veterinary unit should have pre-fitted LN2 container of 8litre capacity for ultra-low temperature preservation used for carrying biological samples, semen straws for artificial insemination, etc.
24	GPS Tracking System	Mobile veterinary unit should have GPS tracking system
25	Connectivity with Call centre	Seamless connectivity with government call centre including calls recorded for future reference with voice to text to voice transcription feature to help veterinarian create quick prescriptions
26	Record Maintenance	Mobile veterinary unit should have integrated and comprehensive treatment, healthcare, health record maintenance, IT solution for animals