

No. K-11053/51/2025-LH (E-39174)/03

Government of India

Ministry of Fisheries, Animal Husbandry & Dairying  
Department of Animal Husbandry and Dairying

Krishi Bhawan, New Delhi  
Dated: 20<sup>th</sup> January, 2026

**OFFICE MEMORANDUM**

**Subject: Standard Operating Procedure (SOP) for Vaccination against Brucellosis (*Brucella abortus* vaccination)- Request for adoption and feedback.**

To control Brucellosis under the Livestock Health & Disease Control Programme (LHDCP) through standardized vaccination practices, the attached Standard Operating Procedure (SOP) for Livestock Vaccination against Brucellosis is being circulated for adoption by State UTs. SOP is prescribed to ensure uniformity, efficacy, and integration with NDLM/ Bharat Pashudhan,

**2. Key features of SOP are as under:**

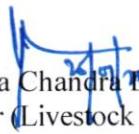
- a) Planning Cycle: Begins with accessory procurement, demand assessment via NDLM, HR training, microplan submission, and culminates in vaccination launch
- b) Vaccine Demand Projection: District-wise requirements = (NDLM eligible population x 1.10) - balance stock; Responsibility lies with District Veterinary Officers.
- c) Microplanning: Prepare templates covering block/village details, vaccinators, supervisors, nodal points; share with stakeholders including Panchayats and District Collectors.

**3. Adoption and action required**

States/UTs are requested to

- i. Adapt these guidelines to regional conditions (e.g., hilly/desert areas etc.).
- ii. Train staff on cold chain, waste management, ring vaccination, and real-time NDLM data upload with geo-stamped photos
- iii. Conduct awareness prior to vaccination via media, Gram Sabhas, and PRIs.
- iv. Submit confirmation of adoption of SOP and implementation plan by 31<sup>st</sup> January, 2026 on [jslh-dadf@gov.in](mailto:jslh-dadf@gov.in) and [dir-lh@dahd.nic.in](mailto:dir-lh@dahd.nic.in).

This issues with the approval of the Competent Authority.

  
(Dr. V. Jaya Chandra Bhupathi Reddy)  
Director (Livestock Health)

To

ACS/ Pr. Secretary / Secretary (Animal Husbandry) Governments of All States & UT

Copy to:

- i. Sr. PPS to Secretary (AHD), Krishi Bhawan, New Delhi
- ii. Sr. PPS to Additional Secretary (Livestock Health). Krishi Bhawan, New Delhi
- iii. Director. (Animal Husbandry). Governments of All States & UTs
- iv. NDLM Division /NIVEDI for coordination

## **Standard Operating Procedure (SOP) for Livestock Vaccination Against Brucellosis**

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### **1. Introduction:**

This Standard Operating Procedure (SOP) outlines comprehensive guidelines for implementing vaccination programs for Brucellosis in livestock. The objective is to control and progressively eliminate Brucellosis while safeguarding animal health, protecting public health, and supporting trade compliance.

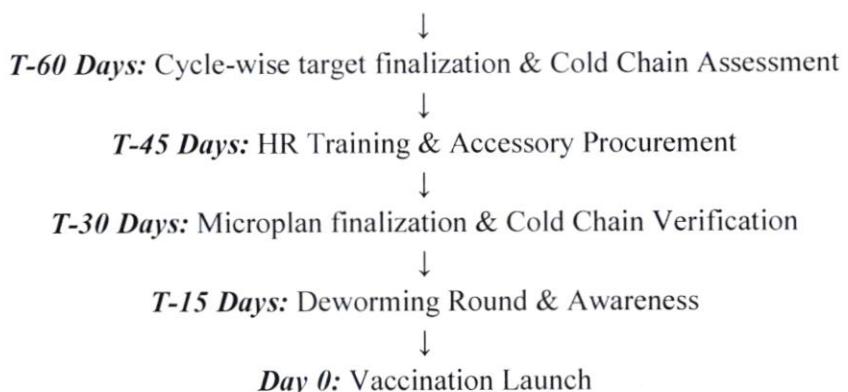
### **2. Planning Framework:**

Two distinct planning cycles are followed under the Brucellosis vaccination programme.

The first is the annual demand assessment and procurement cycle, under which States/UTs submit vaccine requirements through the Annual Action Plan, and vaccine, is supplied to the states as per the approved demand.

The second is the operational vaccination cycle, which pertains to field-level implementation and involves vaccination of eligible female bovine calves. This operational cycle is of 120 days duration, in alignment with the age-specific eligibility of female calves, to ensure continuous coverage of newly eligible cohorts.

#### **The Vaccination Planning Cycle (T= Day of vaccination)**



## Field Level Daily Vaccination Workflow (Field Level)

Collect Vaccine (Check Temp) & Accessories → Travel to Village

Restrain Animal → Verify Identity (Tag & OTP verification) → Vaccinate

Upload Data to Bharat Pashudhan (Real-time/Offline) → Photo Proof

Segregate needles/syringes in Bio-waste bags

Return unused vials → Sync Data → Submit Daily Report

### 3. Phase I: Pre-Vaccination Planning (T-120 to T-15 Days)

#### 3.1. Demand projection of Vaccine Doses:

Head	Action to be Taken
<b>Annual Demand Assessment - Vaccine</b>	<p>Annual demand may be calculated based on the below criteria:</p> <ul style="list-style-type: none"><li>• Estimated Breedable Female Bovine Population</li><li>• Expected Calving Rate</li><li>• Survival Rate</li></ul> <p><b>Vaccine Requirement:</b> (Population of eligible Animals as per as per above estimation * 1.10)- viable/ usable Balance Stock of Last Round. Responsibility: District Veterinary Officer to provide requirement to Director of Animal Husbandry, State/ Union Territory. Director to compile and communicate to DAHD.</p>
<b>Vaccination Cycle - Demand Assessment- Vaccines.</b>	<ul style="list-style-type: none"><li>• District-wise vaccine requirements will be assessed at least 60 days before the date of start of next vaccination round in the state/UT. If any variation from the Annual Action Plan already submitted, the same shall be incorporated and communicated to DAHD.</li><li>• The requirement for a district vaccine stock will be equal to the number of target population (eligible female calves) for</li></ul>

	vaccination minus viable balance stock of last round & additional 10% stock.
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### 3.2. Cold Chain Assessment (T-60 Days)

- Assess the storage capacity for vaccine and verify with the stock demanded. Plan delivery schedule upto the block and hospital below the block.
- Assess the availability of vaccine carriers in sufficient numbers and in good condition.
- A person at block level shall be designated who will be responsible for cold chain maintenance and vaccine availability.
- Vans for transport from the district Walk in Cold rooms to the ILR storage points that is to the block hospital and other hospital, below the block.
- Ensure that temperature is maintained at 2-8°C (never frozen).

### 3.3. HR Training & Accessory Procurement (T-45 Days)

Head	Action to be taken
<b>Accessories and Consumables.</b>	<p><b><u>Procurement of Accessories:</u></b></p> <ul style="list-style-type: none"> <li>• The requirement as assessed in the action plan shall be done as per procurement timeline before the scheduled start of the vaccination round.</li> <li>• The accessories has to be available at least 15 days before the scheduled start of Vaccination round.</li> </ul> <p>Indicative list of accessories and consumables</p> <p><b>Items:</b></p> <ul style="list-style-type: none"> <li>• Sterile Disposable Syringes (5 ml) (numbers as per the demand assessment for the cycle)</li> <li>• Sterile Disposable Needles (16-18 gauge)</li> <li>• Bio-waste Bags- 2 bags per team</li> <li>• Ear Tags in adequate numbers</li> <li>• Tag applicators adequate numbers.</li> </ul> <p><b>Other Items:</b></p> <ul style="list-style-type: none"> <li>• Thermometer- 1 per team</li> <li>• First Aid Kits with the Emergency medicines <ul style="list-style-type: none"> <li>○ Antihistaminic injection Topical ointment</li> <li>○ Maggoticidal/ antiseptic cream/powder/ lotion</li> <li>○ Anti-inflammatory and analgesic</li> <li>○ Atropine Sulphate, Dexamethasone injection</li> </ul> </li> </ul>

<b>Human Resource Planning</b>	<p><b>Vaccinators:</b></p> <ul style="list-style-type: none"> <li>Trained vaccinators should be available and their credentials should be available on NDLM at least 15 days before the actual vaccination date.</li> <li>The service area of each vaccinator must be pre-identified and designated before the vaccination period.</li> </ul> <p><b>Supervising Veterinarians:</b></p> <p>① 1 Veterinarian per 4-5 Vaccinators.</p> <p>Note: Migration routes: Dedicated vaccinators along with Supervisory Veterinarians shall be provided.</p>
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### 3.4. Microplan

	<b>Action to be Taken</b>
<b>Preparation of Microplan.</b>  <b>(T-30 Days)</b>	<p>A. State should ensure preparation of the microplan at least 30 days before the start of the vaccination in the template provided in Annexure- II. The same shall be uploaded in NDLM Portal.</p>
<b>Sharing of microplan</b>  <b>(T-21 days)</b>	<p>B. The micro plan to be shared with all the stakeholders, atleast 3 weeks before, as under: Vaccinators, Supervisors, Veterinary officers, Block Veterinary Officers, NDLM Nodal officers at all levels, Gram Panchayat Sarpanch, Block Development Officers, CEO, Zila Parishad, District Collector. (Responsibility: Block Veterinary Officer. Supervision: District Veterinary Officer.)</p> <p><b>C. Components of Microplan:</b></p> <ol style="list-style-type: none"> <li>1. Name of the Block</li> <li>2. Name of the Village Panchayat.</li> <li>3. Nodal Point for Vaccine Collection</li> <li>4. Name and Contact details of Nodal Point for Vaccine Collection.</li> <li>5. Date/Dates of Vaccination.</li> <li>6. No of Vaccinators allocated. (around 50 Vaccines per day) *</li> <li>7. Name of the Vaccinator/s with Mobile Number.</li> <li>8. Name of the Data Entry Operator/s with Mobile Number.</li> <li>9. Name of the Supervisor with Mobile Numbers.</li> <li>10. Name of the Veterinarian.</li> </ol> <p>*The Number of Vaccines to be planned for Hilly, Desert and other Difficult areas shall be 30.</p>

### 3. Phase II: Vaccination Execution (Day 0 to Day 45).

<b>Vaccination and Uploading of Data</b>	Vaccination and uploading of the data shall be done as per the SOP/Guidelines issued in OM No.K-11053/51/2025-LH (E-39174)/01 Dt: 31.12.2025. (Copy attached).
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### 4. Phase III: Post-Vaccination Monitoring and Mop-Up.

NDLM system will generate random village and designated officers for physical verification of vaccination.

Monitoring Activities	
	Action to be taken
<b>Mop Up round</b>	<ul style="list-style-type: none"> <li>Mop Up Round shall be planned 2 weeks after the end of the vaccination in designated area.</li> <li>Left out animals in the vaccination round shall be prepared based on NDLM Data.</li> </ul> <p><b>Mop-Up Vaccination Strategy:</b></p> <p><b>Target Animals:</b></p> <ul style="list-style-type: none"> <li>Absent during main round,</li> <li>Diseased animals recovered in the ongoing vaccination</li> <li>Late entry into 4-month age window.</li> </ul> <p><b>Vaccination:</b> Dedicated teams with Vaccinators and Supervisors assigned for 100% coverage of identified animals within 10 days.</p> <p><b>Data Recording:</b> The vaccination data shall be entered in NDLM Portal.</p>
<b>Seromonitoring</b>	<ul style="list-style-type: none"> <li>Post-vaccination seromonitoring shall be undertaken as per approved sampling plans, with serum samples tested at ICAR-NIVEDI for programme performance assessment.</li> </ul>

### 5. Awareness Programme

	Action to be taken
<b>Awareness Programme</b>	<ul style="list-style-type: none"> <li>Start <b>20-30 days</b> before vaccination.</li> <li>Intensify outreach <b>10-15 days</b> prior.</li> <li>Continue during the entire vaccination period.</li> <li>Monitoring Committee may consist of Taluka/BDOs/DMDCs</li> <li>Engage with different institutional partners like the dairy cooperatives, dairy federations, Panchayati Raj Institution (PRIs), Pashu Sakhi and Mitras.</li> </ul>



	<ul style="list-style-type: none"><li>• Ensure that continual awareness and sensitization against ill effects of Brucellosis and zoonotic implications.</li></ul>
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**ANNEXURE I**

Name of the State/UT  
Start Date

Name of the Nodal Officer:

Contact Details of Nodal Officer:

Sl. No.	District	Target Animals Vaccines	Requirement of Vaccines	Nodal Points	Incharge of Nodal Point with Contact Details. (Phone, email etc)
1					
2					
3					

**ANNEXURE II****Format for Micro-Planning:**

	Name of the State/UT Name of District: Name of Block: Name of the Cluster: Vaccination Cycle Number: YYYY/I or II or III	Main/Mop up.			
Vaccination Cycle Start Date:					
Sl. No.	Name of the Village Panchayat	Name of the Village Panchayat	Total Number of Target Animals	Number of Days and dates on which Vaccination Planned.	Name of the Supervisor/s and Contact Number.
1				a)Day 1 b)Day 2 c)Day 3	
2					

ANNEXURE IIA

Area Allocation for Vaccinators.

Name of the State/UT					
Name of District:					
Name of Block:					
Name of the Cluster:					
Main/Mop up:					
Operational Cycle Start Date:					
Name of the Vaccinator:	Name and Contact of the Supervisor:				
Sl. No.	Date	Name of the Village Panchayat	Name of the Village	Target Animals	Total Vaccinated to Date
1					Name and Mobile number of Village Pradhan/ Head.

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