

Krishi Bhawan, New Delhi  
Dated: 31<sup>st</sup> December, 2025

**OFFICE MEMORANDUM**

**Subject: Standard Operating Procedure (SOP) for Vaccination against Foot-and-Mouth Disease (FMD) – Request for Adoption and Feedback.**

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

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

- i. Planning Cycle: Begins with accessory procurement, demand assessment via NDLM, HR training, microplan submission, and culminates in vaccination launch
- ii. Vaccine Demand Projection: District-wise requirements = (NDLM eligible population  $\times$  1.10) - balance stock; assessed 90 days prior, with 10% buffer. Responsibility lies with District Veterinary Officers.
- iii. Microplanning: Prepare templates covering block/village details, vaccinators (maximum 50 vaccines/day), 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 campaigns 30-45 days pre-vaccination via media, Gram Sabhas, and PRIs.
- iv. Submit confirmation of adoption of SoP and implementation plan by 24<sup>th</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).

4. This issues with the approval of the Competent Authority.

Encl: a/a

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

To

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

Copy to:

1. Sr. PPS to Secretary (AHD), Krishi Bhawan, New Delhi
2. Sr. PPS to Additional Secretary (Livestock Health), Krishi Bhawan, New Delhi
3. Director, (Animal Husbandry), Governments of All States & UTs
4. NDLM Division/NIFMD for coordination

## Standard Operating Procedure (SOP) for Livestock Vaccination Against FMD.

### 1. Introduction:

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

### **The 90-Day Planning Cycle (Pre-Campaign) (T= Day of vaccination)**

**T-90 Days: Demand Assessment (Target - Stock + Buffer)**



**T-60 Days: Cold Chain Assessment**



**T-45 Days: HR Training & Accessory Procurement**



**T-30 Days: Microplan Submission (Circulation) & Cold Chain Verification**



**T-15 Days: Deworming Round & Awareness Campaign Start**



**Day 0: Vaccination Campaign Launch**

### **Field Level Daily Vaccination Workflow (Field Level)**

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

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

Upload Data to Bharat Pashudhan (Online by OTP/Offline by Photo Upload Site)

Segregate needles/syringes in Bio-waste bags

Return unused vials → Sync Data → Submit Daily Report



## 2. Phase I: Pre-Campaign Planning (T-90 to T-15 Days)

### 2.1. Demand projection of Vaccine Doses:

Head	Action to be Taken
Demand assessment- Vaccines.	<ul style="list-style-type: none"><li>• Target assessment for vaccination of eligible species (Cattle, Buffalo, Sheep, Goat &amp; Pigs) will be based on NDLM data.</li><li>• District-wise vaccine requirements will be assessed at least 90 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 may be incorporated.</li><li>• The requirement for a district vaccine stock will be equal to the number of target population (eligible animals) for vaccination minus viable balance stock of last round &amp; additional 10% stock of the NDLM data.</li></ul> <p><b>Vaccine Requirement:</b> (Population of eligible Animals as per NDLM * 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>

### 2.2. 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 ILRs storage points that is to the block hospital and other hospital below the block.
- Ensure that temperature is maintained between 2-8°C (never Frozen).

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

Head	Action to be Taken
Accessories and Consumables.	<p>Procurement of Accessories:</p> <ul style="list-style-type: none"><li>• The requirement as assessed in the action plan shall be done 150 days before the scheduled start of the vaccination round.</li><li>• RfP/Bids shall be floated at least 120 days before the scheduled start of Vaccination round.</li></ul>





	<ul style="list-style-type: none"> <li>Requirements of Accessories for all Livestock Vaccination programme shall be assessed for full year and accordingly procurement process has to be initiated.</li> </ul> <p>Indicative list of accessories and consumables to be kept in readiness at least 45 days before based on the animals in the area:</p> <p><b>Items:</b></p> <ul style="list-style-type: none"> <li>Sterile Disposable Syringes (5 ml) (numbers as per last vaccination data uploaded on NDLM).</li> <li>Sterile Disposable Needles (16-18 gauge)</li> <li>Bio-waste Bags- 2 bags per team</li> <li>Ear Tags with adequate numbers</li> <li>Tag applicator</li> </ul> <p><b>Other Items:</b></p> <ul style="list-style-type: none"> <li>Thermometer- 1 per team.</li> <li>First Aid Kits- 1 per team.</li> <li>Emergency medicines:</li> <li>Antihistaminic injection</li> <li>Topical ointment</li> <li>Maggotocidal/ antiseptic cream/powder/ lotion</li> <li>Anti-inflammatory and analgesic</li> <li>Atropine Sulphate, Dexamethasone injection</li> </ul>
Human Resource Planning	<p><b>Vaccinators:</b></p> <ul style="list-style-type: none"> <li>Manpower training shall be completed 45 days before the scheduled start of Vaccination Round.</li> <li>Sufficient Number of Vaccinators are to be mobilized ensuring the following norms. <ul style="list-style-type: none"> <li>@1 vaccinator for around 50 vaccine doses per day in normal areas.</li> <li>@1 vaccinator for around 30 vaccine doses per day in Hilly, Desert and other difficult areas.</li> <li>Vaccination Campaign shall not exceed 45 days under any circumstances.</li> </ul> </li> <li>The service area of each vaccinator must be pre- identified and designated before the campaign and should be completed at least 30 days prior to the round.</li> </ul> <p><b>Supervising Veterinarians:</b></p> <p>@1 Veterinarian per 4-5 Vaccinators.</p> <p>Note: Migration routes: Dedicated vaccinators along with Supervisory Veterinarians shall be provided.</p>

## 2.4. Microplan

Head	Action to be Taken
Preparation of Microplan. (T-30 Days) Sharing of microplan (T-21 days)	<p>A. State should ensure preparation of the microplan at least 30 days before the start of the vaccination campaign in the template provided in Annexure-II. The same is to be uploaded in NDLM Portal.</p> <p>B. The micro plan to be shared with all the stakeholders, at least 3 weeks in advance to the start of Vaccination, 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>C. Components of Microplan:</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 Vaccination per day per vaccinator) *</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 Vaccinators to be planned for Hilly, Desert and other Difficult areas based on around 30 Vaccination per day per vaccinator.</p>
Ring Vaccination	<p>In case of suspected/confirmed outbreak, the State Department should organize Ring vaccination within 2 km radius around the affected villages/area covering all eligible animals. (Responsibility: Block Veterinary Officer)</p> <ul style="list-style-type: none"> <li>• This will be done immediately upon reporting of infection. This can be undertaken over and above the vaccination done during the campaign.</li> <li>• The ring vaccination will be carried out from periphery to center (outside to inside).</li> </ul>

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

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

NDLM system will generate random village and designate officer for physical verification of vaccine during monitoring.

Head	Monitoring Activities Quantifiable	
Mop Up round	<ul style="list-style-type: none"><li>• Mop Up Round shall be planned 30 days 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> Mop-Up Vaccination Strategy: Target Animals: <ul style="list-style-type: none"><li>• Absent during main round,</li><li>• New animals introduced,</li><li>• Diseased animals recovered in the ongoing main campaigning,</li><li>• Animals not meeting criteria initially.</li><li>• Booster dose in first time vaccinated animals.</li></ul> <b>Vaccination:</b> Dedicated teams with Vaccinators and Supervisors assigned for 100% coverage of identified animals with 10 days. <b>Data Recording:</b> The vaccination data shall be entered in NDLM Portal.	
Sero Monitoring	<ul style="list-style-type: none"><li>• Samples are collected as per sampling plan (as prepared by shared NIVEDI) shared on NDLM.</li><li>• Timeline for Sero Monitoring sample collection</li></ul>	
	Timeline	Activities
	D1	Initial sample collection.





	D1	Vaccination.
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	D1 + 28 days	Second round of sample collection from same animal
	D1 + 35 days	Transportation under cold chain condition
	D1 + 2 months	Testing and uploading the report.

## 5. Awareness Programme

Heads	Quantifiable
Campaign period	<ul style="list-style-type: none"> <li>Start campaigns 30–45 days before vaccination.</li> <li>Intensify outreach 10–15 days prior.C</li> <li>Continue during the entire vaccination period.</li> <li>Monitoring Committee may consist of Taluka/BDOs/DM/DCs</li> <li>Engage with different institutional partners like the dairy cooperatives, dairy federations, Panchayati Raj Institution (PRIs), Pashu Sakhi and Mitras.</li> </ul>
Campaign activities	<p><b>State level:</b> Press releases, AIR, FM, Social media posts in Govt. channels.</p> <p><b>District level:</b> Local newspaper, radio spots, press briefing.</p> <p><b>Village level:</b> Gram Sabha resolution regarding FMD vaccination, awareness meetings in diary and agricultural cooperatives.</p> <p><b>Level Campaign Activities Timeline Coverage Target</b></p> <p><b>State:</b> Press releases, TV coverage, social media, radio announcements 20-25 days before 100% state coverage.</p> <p><b>District:</b> Newspaper ads, radio spots, press briefings-10-15 days before- 100% district coverage</p> <p><b>Block:</b> Local awareness meetings, engagement of cooperatives -5-10 days before-100% block coverage.</p>



	<p><b>Village:</b> Door-to-door messaging with 100% household coverage, messaging to all the farmers through NDLM: Main Round: Four Times.</p> <ul style="list-style-type: none"><li>• 10-15 days before the start of campaign.</li><li>• on the day of campaign.</li><li>• 15 days into the campaign period.</li><li>• 5 days before the scheduled date of vaccination for the particular village.</li></ul> <p>Mop Up Round: Two times.</p> <ul style="list-style-type: none"><li>• Before the Start of the round for left out animal owners.</li></ul>
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**ANNEXURE I**

<b>Name of the State/UT</b> <b>Round Number: YYYY/ I or II.</b>  <b>Round Start Date:</b>  <b>Name of the Nodal Officer: *</b>  <b>Contact Details of Nodal Officer:</b>					
<b>Sl. No.</b>	<b>District</b>	<b>Target Animals</b>	<b>Requirement of Vaccines</b>	<b>Nodal Points</b>	<b>Incharge of Nodal Point with Contact Details. (Phone, email etc)</b>
1					
2					
3					



# ANNEXURE II

## Format for Micro-Planning:

<b>Name of the State/UT</b> <b>Name of District:</b> <b>Name of Block:</b> <b>Name of the Cluster:</b> <b>Round Number: YYYY/ I or II of FYear ____.</b> <b>Main/Mop up.</b> <b>Round Start Date:</b>									
S	Name I. of the N Villag o e Pan - chaya t	Na me of t he Vill age	Total Numb er of Targe t Ani mals	Number of Days and d ates on whi ch Vaccinat ion Planne d.	Name of the Vacci nator/s a nd Conta ct Numb er.	Name of the Supe rvisor an d Contac t Numbe r	Colle ction point of Va ccine	Collecti on Point Incharg e Contac t Numbe r.	Name and Mobile nu mber of Vi llage Prad han/Head.
1				a)Day 1 b)Day 2 c)Day 3					
2									

**ANNEXURE IIA****Area Allocation for Vaccinators.**

<b>Name of the State/UT</b> <b>Name of District:</b> <b>Name of Block:</b> <b>Name of the Cluster:</b> <b>Round Number: YYYY/ I or II of FYear_____.</b> <b>Main/Mop up.</b>  <b>Round Start Date:</b>  <b>Name of the Vaccinator:</b> _____ <b>Name and Contact of the Supervisor:</b> _____						
<b>Sl. No.</b>	<b>Date</b>	<b>Name of the Village Panchayat</b>	<b>Name of the Village</b>	<b>Target Animals in Panchayat</b>	<b>Total Vaccinated to Date</b>	<b>Name and Mobile number of Village Pradhan/Head.</b>
1						

