Food and Agriculture Organization of the United Nations

FAO available support for FMD SAT1 Emergency Preparedness in SEA



4th REG FMD

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Technical Cooperation Project (Jul 2026-Jul 2027)

Preparedness for emerging FMD virus serotype SAT1 (Cambodia, Mongolia, Philippines, Pakistan, Thailand, Viet Nam)

1. Earlier detection: strengthening surveillance and early warning systems to assess risks and prepare for potential introduction of new FMDV strains



2. **Rapid diagnosis: laboratory readiness to identify and characterize FMDV SAT1**



3. Timely response: rapid implementation of disease control measures tailored to the new viral serotype

How the TCP supports the LabTAG REG-FMD workplan

TCP aims at supporting directly priority actions identified by the REG-FMD for 2026–2027

Strengthening the regional reference function

Support RRL-FMD in its role as ASEAN Reference Laboratory for FMD

- Provision/development of diagnostic reagents and protocols
- Proficiency testing schemes
- Training and technical backstopping
- Support for SAT1 preparedness and diagnostic capacity

Regional dissemination and capacity building

Share outputs and technical resources through the LabTAG Virtual Hub

- Updated diagnostic algorithms and protocols
- Training materials and virtual training, including PVM
- Contact information for technical experts and resource persons
- Peer support, Q&A and knowledge exchange
- Access to relevant diagnostic resources and guidance

Address some key challenges identified at the special session REG FMD (June 2026)

Vaccine effectiveness

Limited PVM capacity and field evaluation of vaccine performance.

Virus characterization

Gaps in FMDV genotyping and molecular epidemiology.

Diagnostic reagents

Access constraints for serology, PVM and molecular detection.

Sampling & identification

Low sample collection and virus identification from outbreaks.

Sample shipment

Financial and logistical barriers to reference laboratories.

Support laboratory readiness

1. Supply laboratories for SAT1 emergencies:

Stocks in place before potential suspected outbreaks

RT-PCR

Validated assays for confirmation

Consumables

Critical reagents and materials held ready

Continuity

National laboratories covered

- Supplies for validated Real-Time PCR (RT-PCR, primers, probes, positive controls)
- Other critical consumables for national reference Laboratories to ensure work continuity in case of emergencies

Support laboratory readiness

2. Capacity building in national reference laboratories:

To confirm and characterise FMDV SAT1, safely

Confirm

Validated RT-PCR workflow from receipt to result

Characterise

Typing and sequencing-ready procedures

Protect

Biosafety and biosecurity built into every step

1. Virtual training: 13 modules tutored online training based on the FMD Laboratory Investigation Training Course (FLITC) collaborative course between EuFMD and WRLFMD (Q1 2027)

2. Tentative hands-on practical laboratory training (Q2 2027)

Support laboratory readiness

3. Prove performance through the global PTS:

Review diagnostic capacities against the same international standards

Enrol

Support for participation in the annual PTS

Test

External quality check of FMDV diagnostics

Improve

Close gaps, build confidence in results

Support to participate in the 2027 WRLFMD proficiency testing (open to every target-country laboratory)

Support laboratory readiness

4. Connect with regional and global laboratories:

National, regional and global FMD (and SAT1) expertise and information sharing

Test

Regional reference laboratories, Southeast South Asia

Ship

Sample shipment support to the WRLFMD

Sequence

Phylogenetic analysis

Match

Vaccine matching

Thank you

