

## Requirement for FMD Vaccine Production -2026

### Chemicals & Glassware for FMD vaccine Production/AVL-2026 Bid Form

Ser. No	Name of the Item	Specification	Pack size	Quantity Required	Bidder's response		If "No", bidder's
					Yes	No	
1	Tryptose phosphate broth	Cell culture tested	500g	5 (x500g)			
		Minimum one year of shelf life on delivery					
2	Sodium bicarbonatae (NaHCO <sub>3</sub> )	Cell culture tested	500g	5 (x500g)			
		Minimum one year of shelf life on delivery					
3	Sodium chloride	Cell culture tested	1 Kg	10 (x1kg)			
		Minimum one year of shelf life on delivery					
4	D-Glucose	Cell culture tested	1 Kg	10 (x1kg)			
		Minimum one year of shelf life on delivery					
5	Potassium chloride	Cell culture tested,	500g	3 (x500g)			
		Minimum one year of shelf life on delivery					
6	Phenol Red	Cell culture tested	5g	5 (x5g )			
		Minimum one year of shelf life on delivery					
7	Neomycin Sulphate	Cell culture tested	100g	2 (x100g)			
		Minimum one year of shelf life on delivery					
8	Penicillin G Sodium salt	White powder	5g	100 (x5g)			
		cell culture tested					
		Minimum one year of shelf life on delivery					
9	Hydrochloride acid	2.5 L	2.5L	1			
		35 -40 % concentration					
		Cell culture tested					
		Minimum one year of shelf life on delivery					
10	L Glutamine	cell culture tested,	100g	3 (x100g)			
		Minimum one year of shelf life on delivery					
11	L Methoionine	cell culture tested,	100g	1(x100g)			
		Minimum one year of shelf life on delivery					
12	Formaldehyde Solution	>34.5%	2.5L	2			
		2.5 L					
		General purpose					
		Minimum one year of shelf life on delivery					

13	Sodium Phosphate monobasic dihydrate (NaH <sub>2</sub> PO <sub>4</sub> .2H <sub>2</sub> O)	Cell culture tested	500g	1(x500g)			
		Minimum one year of shelf life on delivery					
14	Nutrient Broth	Powder	500g	1(x500g)			
		Laboratory purpose					
		Dissolve in distilled water					
		Autoclavable					
		Minimum one year of shelf life on delivery					
15	Mineral oil based adjuvant	Ready to use	25kg	30x25kg			
		For water in- oil- in water emulsion vaccines (FMD vaccine)					
		Target species – cattle, small ruminants and swine,					
		Autoclavable					
		Minimum 2 years of shelf life					
16	Glass media bottles	100ml, ,	100ml	15			
		wide mouth,					
		graduated					
		with lid and pouring ring,					
		round shape,					
		Transparent,					
		Autoclavable					
17	Bijou Bottle	Autoclavable	Not relevant	100			
		Borosilicate or equivalent material					
		Aluminum screw cap with a rubber liner,					
		leak-proof seal					
		Lid with black rubber liner					
		volume 5-7ml					
		EU certified					
18	Universal Bottle	Autoclavable	Not relevant	100			
		Borosilicate or equivalent material					
		Aluminum screw cap with a rubber liner					
		leak-proof seal					
		Lid with black rubber liner,					
		volume 28-30ml					
		EU certified					

**Consumables for FMD vaccine Production/AVL-2026 Bid Form**

Ser. No	Name of the Item	Specification	Pack size	Quantity Required	Bidder's		If "No", bidder's
					Yes	No	
1	Centrifuge bottles (1L)	Capacity 1000ml	Not relevant	100			
		polypropalene					
		translucent					
		wide mouth					
		screw closures					
		Autoclavable					
2	Autoclave indicator tape	Impregnated to show diagonal lines	Individually packed	3			
		a clear color change from light to dark after exposure to steam, confirming that stserilization process was corectly completed					
		length 55-60yards					
		width 25mm					
3	Pouring rings for glass media bottles	GL 45	Not relevant	100			
		Blue colour,					
		Autoclavable					
4	Pipette tips 200µl	200µl	500/pk or 1000/pack	500/pk x 6 or 1000/pk x 3			
		autoclavable					
		Universal type					
5	Pipette tips 1000µl	1000µl	500/pk or 1000/pack	500/pk x 6 or 1000/pk x 3			
		autoclavable					
		Universal type					
6	Pipette tips 1-10µl	1-10µl, ,	500/pk or 1000/pack	500/pk x 4 or 1000/pk x 2			
		autoclavable					
		Universal type					

7	Aluminium foil	Thick	single pack	30			
		Heavy duty,					
		Large					
		32ft/pack					
8	Clamps for tubing	Provides complete fluid stoppage	Not relevant	100			
		Smooth edges and corners help prevent punctures and ruptures					
		Can be installed on or over tubing or finished assemblies					
		Single-hand operation					
		leak proof locking mechanism					
		PVDF or polypropylene					
		Autoclavable					
9	Silicon rubber tube (diameter : internal 3.5mm - 4mm, external 5mm)	Temperature resistance: -30 to +200° C	25ft/pk or 50ft/pk	25ft x 2 or 50ft x 1			
		diameter : internal 3.5mm - 4mm					
		diameter :external 5mm					
		wall thickness 1-1.5mm					
10	Silicon rubber tube (diameter : internal 7-8mm, external 10mm)	Temperature resistance: -30 to +200° C ,,	25ft/pk or 50ft/pk	25ft x 2 or 50ft x 1			
		diameter : internal 7- 8mm					
		diameter : external 10mm					
		wall thickness 1-1.5mm					
11	Micro Centrifuge tube	Autoclavable,	1000/pk	2			
		Polypropylene,					
		1.8 - 2 ml volume,					
		attached snap cap					
12	Cells Strainer	Sterile	50/pk	2			
		should fit to 50ml centrifuge tubes					
		Disposable,					
		easy to use					
		strong nylon mesh with 40μ pores for optimal performance					

Ser. No	Name of the Item	Specification	Pack size	Quantity Required	Bidder's response		If "No", bidder's specification
					Yes	No	
1	Autoclave	Minimum chamber Capacity 100- 125 L	1	1			
		Vertical, recatangular or squre with castor wheels					
		Temperature display range 10°C to 135 °C					
		Approximate sterilization/Operation range 100°C to 135 °C					
		Warming Temperature range 50°C to 60 °C					
		Gauge pressure range 0 to 0.3 Mpa					
		Maximum allowable pressure 0.26MPa					
		Sterilization timer range 1 to 240 minutes					
		Chamber material - Stainless steel(304 or better)					
		Power supply 220V-240V,50/60Hz					
		Safety machanism : Dual sensing lid interlock, over pressure safety power cutoff, over- temperature safety power cutoff, low water safety cutoff, mechanical pressure relief valve, microprocessor based controlled pressure relief valve, lid closure detector, over current safety detector and safety circuit breaker					
		User friendly control system with touch screen display					
		Mode selections availability- at least 5 and including liquids, solids, agar and waste					
		Required accessories such as bottom plate, drainage hose, exhaust hose, exhaust bottle, drainage bottle, wire mesh baskets need to be provided					
		Installation included					
		Quality certificates/ documentary evidence are required (EU certified)					
		Minimum 2 years warranty for the electronic component and heating parts and minimum 10 years for the material and workmanship failure					
		Authorization letter from manufactures that will be available with the goods affered					
		Training for operation and maintanance should be provided					

		Calibration and complete commissioning have to be done by the supplier					
2	Photocopy machine	Standard : Multifunctional copier with network printing & scanning	1	1			
		Language of operation must be English (US English/ UK English)					
		Display language must be English (US English/ UK English)					
		Type: Console with trolley					
		Drum/Imaging Unit life: Minimum 95,000-100,000 or more in A <sub>4</sub>					
		Toner/ Cartridge Capacity : Minimum 15,000 - 16,000 copies in A <sub>4</sub> per toner/ cartridge					
		Paper feed : Automatic feed from paper cassette and by pass tray					
		Input paper size : By pass tray- Minimum A <sub>5</sub> and maximum A <sub>3</sub> , Cassette- Minimum A <sub>5</sub> and maximum A <sub>3</sub>					
		Output paper size : Minimum A <sub>5</sub> and maximum A <sub>3</sub>					
		Input paper capacity: Minimum 900-1100					
		Copy speed: Minimum 30 copies/minute					
		No of cassette: Minimum 02					
		220V, 50Hz Electricity					
		Continuous copy : Not less than 999 no.					
		User friendly operation system					
		Duplex Auto Document Feeder ( For both side scanning)					
		Built in laser printer with duplex print (For both side printing)/ Duplex printing unit/kit					
		Scanning speed: Minimum 70 pages/min					
		Network printing(Built- in)					
		Duplex ADF Scanning					
		Supplier have to provide necessary divices and consumables (cable,slot, card, toner etc.) at freeof cost for the proper operation of all function of supplied copier from a fixed computer					
		One year comprehensive warrantee for spare parts with motherboard and 1 year free servicing					

3	Refrigerator	Capacity : 250 L	1	1			
		Cooling type : No Frost					
		Refrigerant :R600a					
		Compressor : Inverter					
		Features : Copper tubing, LED interior light, Adjustable legs, 2 inch thick thermalinsulated wall					
		Dimensions (WxHxD) : 540 x 1550 x 755 mm					
		Weight : 51.5 Kg					
		Warranty : 5 Years					
4	Microwave	Capacity : 20 L	1	1			
		Functionality : Convection, auto menu, Magic Grill, Countertop model					
		Weight : 9.4 Kg					
		cavity : Stainless Steel					
		Warranty : 5 Years					

