



कालिञ्चोक गाउँपालिका  
Kalinchok Rural Municipality  
गाउँ कार्यपालिकाको कार्यालय  
Office of the Rural Municipal Executive

सुनखानी, दोलखा  
बागमती प्रदेश, नेपाल



दररेट उपलब्ध गराउने सम्बन्धी सूचना ।

सूचना प्रकाशन मिति २०७८/०१/२४

उपर्युक्त सम्बन्धमा प्रदेश सरकारबाट आ.व. २०७७/७८ मा विनियोजित बजेटबाट यस गाउँपालिकाको कार्यालयले मिनि/डिजिटल मोबाईल ल्याब स्थापना गरी माटो परिक्षण कार्य सञ्चालन गरिने भएकोले अनुसार ल्यावका सामाग्रीहरु खरिद गर्नुपर्ने भएकोले संलग्न स्पेसिफिकेसन बमोजिमको दररेट सूचना प्रकाशन भएको मितिले ७ (सात) दिनभित्र यस कार्यालयमा उपलब्ध गराउनुहुन सम्बन्धित सबैलाई सूचित गरिन्छ ।

(नवराज ओली)

प्रमुख प्रशासकीय अधिकृत

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**Soil and Fertilizer Testing Laboratory**  
**Technical specification and Standards for the establishment of soil Laboratory**

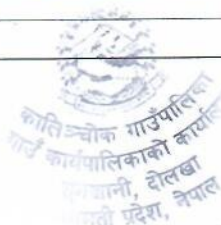
S. No.	Items	Specification	Price List
1	pH Meter:	Bench Top Model. Reliable design with highly stable and accurate result. Range: 0 to 14.00 PH Resolution: 0.01pH Accuracy: +0.01 pH +-1 Digit Display: 3 ½ Digit LED Temp. compensation: 0 to 100°C Input Impedance: >10 <sup>13</sup> OHMS Power: 220-240V/50 Hz AC	
2	Spectrophotometer	Wave length range at least 400-700 nm Absorbance range 0-2.5 A Concentration range 0-199 C Transmittance range 0-100% T With LCD display.	
3	Digital Flame Photometer	Range: NA: 0-100 ppm K: 0-100 ppm Sensitivity: Sodium (Na):- 0.5ppm Potassium(K):- 0.5 ppm Display: 2 ½ digit bright red LED display Accuracy: +- 2% up to 40 ppm, +-5% above 40 ppm Ignition system: Auto ignition Measurement system: Measures one element at a time Repeatability: +-2 counts Detector: Silicon Photodiode Filters: Narrow band interference glass filters Nebulizer: Black Bakelite, axial flow type Power: 220-240V/50 Hz AC	
4	Distilled water plant	Double wall steel body, Double distillation Body barnstead type Output: 5-6 liter/hr. Power: 220-240V/50 Hz AC	
5	Mechanical shaker	Reciprocating mechanical shaker , Platform Size not less than 18 x 12 x 3 inch with adjustable for flask, bottle . With timer and speed regulator. Power: 220-240V/50 Hz AC	
6	Electronic Balance	Electronic Balance for precision weighing of lab samples. Freely programmable weighing unit. Display: Backlit LCD display. Weighing range : 200g Readout: 0.01g Reproducibility: 0.01g Linearity: +-0.02 Min piece weight: 0.02 g/ piece Power: 220-240V/50 Hz AC. Also must be operated by internal rechargeable battery backup.	



7	Burette Auto 50ml	With automatic zero adjustment. Complete with plastic bottle and stable plastic base, top of burette is provided with an overflow tube.	
8	Standard sieves (0.2mm)	Standard test sieves. Made of Brass 8" diameter with SS mesh 0.2 mm aperture sieves.	
9	Standard sieves (2.0 mm)	Standard test sieves. Made of Brass 8" diameter with SS mesh 2.0 mm aperture sieves.	
10	Soil Hydrometer	Soil hydrometer use for particle size analysis. Scale of the hydrometer marked from 0.000 to 1.000 in terms of density (g/ml) of suspension at 27°C.	
11	Soil Auger	Made of steel with T handle. Folding type. With 50mm diameter auger head.	
12	Soil stirrer	High speed soil stirrer mechanical device fitted with a motor which rotates a vertical shaft having a stirring padel at a speed up to 10000 rpm. With dispersion cup made of brass and baffle for use with dispersion cup.	
13	Digital Magnetic stirrer	With least 6 inch hot plate that contains aluminum cover with ceramic coating. Speed range 200-1500 rpm.	
14	Hot air Oven	Heating power > 1.2 KW, Inner chamber size: 450x350x450mm, Exterior size: 760x530x680, Packing size: 820x620x760, Loat per rack: at least 2 for standard configuration	
15	Air conditioner	Wall mounted, delux heating pump single split type Heating capacity > 12000 BTU/hr, Cooling capacity> 12000 BTU/hr, coefficient of performance: 11.1/10.6 (cooling/heating), Power supply: Single phase, 220-240V, 50 hz, Power consumption <1150W, Certification: ISO/CE or equivalent, Warranty: at least one year of manufacturing defects	
16.	Colorimeter	Digital Colorimeter with thumb wheel selection of filters and prefocused LED light source. Wave length range: 400-700nm, Resolution<0.01A, Absorbance: 0-1.99A, Photodetector: Silicon Photodiode/ photocell, Sample system: 10mm path length matched glass test tubes, Filter: 8 filters (400, 450, 490, 520, 540, 570, 620, 680 nm), Power supply: 220-240 V, 50 Hz AC, single phase, Display>2 1/2 digit LED	
17	Laboratory fume hood	<b>Provide furring panels to enclose the space between top edge of fume hoods and the finished ceiling.</b> Install fluorescent lighting fixture on exterior of roof. Provide a 7 mm safety glass panel on hood "roof", sealed to isolate the lighting fixture from fume chamber. Fume hood sash shall be full view type providing a clear and unobstructed side- to-side view of fume hood interior.  For safety, fume hood shall maintain essentially constant exhaust volume at any baffle position. Changes in average face velocity and exhaust volume as a result of baffle adjustment shall not exceed 5% for any baffle position at the specified face velocity.	

**Glass-wares, Plastic wares and Lab. Chemicals.**

18	Hydrometer Glass Jar	Test is performed as per IS:2770 marked in 1000ml glass borosilicate without pour out	
19	Volumetric Flask 1 Liter	Volumetric Flask Borosilicate Glass 1 Liter (Class A )	
20	" " 500ml	" 500ml	
21	" " 250ml	" 250ml	
22	" " 100ml	" 100ml	
23	" " 50ml	" 50ml	



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24	Conical Flask 500ml	Conical Flask Borosilicate Glass 500ml (Class A )	
25	Reagent Bottle Plastic. 1 Liter	Reagent Bottle Narrow mouth with screw cap Plastic. 1 Liter	
26	" 500ml	" " 500ml	
27	" 100ml	" " 100ml	
28	" 50ml	" " 50ml	
29	Beaker Glass 2Liter	Beaker Borosilicate Glass 2Liter (Class A )	
30	" 1Liter	" " 1Liter	
31	" 500ml	" " 500ml	
32	" 250ml	" " 250ml	
33	" 100ml	" " 100ml	
34	" 50ml	" " 50ml	
35	Beaker Plastic 50ml	Beaker Plastic 50ml	
36	Pipette Bulb Rubber	Pipette Bulb Rubber for 1, 5 , 10 and 50ml pipetter	
37	Pipette Glass 1ml	Pipette serological Borosilicate Glass 1ml (Class A )	
38	" " 5ml	" " 5ml	
39	" " 10ml	" " 10ml	
40	" " 25ml	" " 25ml	
41	Volumetric Pipette Glass 50ml	Volumetric Pipette Borosilicate Glass 50ml (Class A )	
42	Measuring Cylinder glass 1000ml	Measuring Cylinder Borosilicate glass 1000ml (Class A )	
43	" 500ml	" " 500ml	
44	" 100ml	" " 100ml	
45	" 25ml	" " 25ml	
46	Test Tube(Glass)	Test Tube(Glass) Borosilicate glass 15ml	
47	Funnel (Glass)	Funnel Glass 75mm Borosilicate glass	
48	Funnel (Plastic)	Funnel Plastic 75mm	
49	Wash Bottle (Plastic)	Wash Bottle (Plastic) 500ml	
50	Tray (Plastic)	Tray Plastic 10 x 12 Inch	
51	Test tube stand	Test tube stand for Eighteen 15ml tube	
52	Mortar and Pestle	Mortar and Pestle set 100mm	
53	Buffer solution 4.0 pH	Buffer solution 4.0 pH 500ml	
54	Buffer solution 7.0 pH	Buffer solution 7.0 pH 500ml	
55	Glass rod for soil stirring	Glass rod for soil stirring 5 mm diameter	
56	Dropper Plastic	Dropper Plastic 5 ml	



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