

मिति: २०८१/०९/२२

**दररेट उपलब्ध गराई दिने बारेको सुचना ।**

आ.व. २०८१/८२ को स्वीकृत बार्षिक विकास कार्यक्रम अनुसार यस खानेपानी तथा ढल व्यवस्थापन विभागको खानेपानी गुणस्तर सुधार तथा सेवा नियमन शाखाको लागी तपसिल बमोजिमका पानी शुद्धीकरणका सामग्री आवश्यक परेको हुँदा सो कार्यको लागत अनुमान तयारीका लागी यसै साथ संलग्न Specification बमोजिम दररेट उल्लेख गरी खानेपानी गुणस्तर सुधार तथा सेवा नियमन शाखामा मिति २०८१।०९।२८ गते भित्र उपलब्ध गराई दिनु हुन अनुरोध छ ।

तपसिल:

१. Bleaching Powder (packed in 50 kg drum): Rate/Kg
२. Photometer With Reagent: Set

शाखा प्रमुख  
खानेपानी गुणस्तर सुधार तथा सेवा नियमन शाखा

# Specification

## 1) Specification for Bleaching Powder

1. The bleaching powder must be Grade 1, produced by chlorination of slaked lime. The chemical formula is:  $\text{Ca(OCl)}_2$  or  $\text{Ca(OCl)}$
2. The bleaching powder should be white to slightly yellowish white and free from hard lumps and visible impurities.
3. The material shall be dry and free flowing.
4. The available chlorine in the bleaching powder should be more than 30 percent by weight.
5. Moisture content of bleaching powder should not exceed 0.3 percent by weight.
6. The chlorine loss, based on initial available chlorine, should not exceed 1/15.
7. Particle size (passing through 1.70 mm IS sieve) should be at least 99 percent by weight.
8. The material should be packed in airtight galvanized steel drums, free from grease, dirt, or any foreign matter that could cause decomposition.
9. The expiry date should be more than 2 years from the date of supply.
10. The package should be securely closed and marked with the following information in English and/or Nepali language:
  - a) Name of material
  - b) Manufacturer's name and address
  - c) Recognized trademark, if any
  - d) Net content
  - e) Lot or batch number
  - f) Dates of manufacture and best before
  - g) Safety precautions including relevant warning signs
  - h) Instruction for storage and use.
11. Name of material b) Manufacturer's name and address c) Recognized trademark, if any d) Net content e) Lot or batch number f) Dates of manufacture and best before g) Safety precautions including relevant warning signs h) Instruction for storage and use.

### Note:

1. The supplier should provide a test certificate for the purity of the bleaching powder, issued by an approved laboratory or the original manufacturer, with each batch. The test certificate should have all the parameter given in the specification.
2. The supplier should provide a copy of the MSDS (Material Safety Data Sheet).

## Technical specification for Photometer

S.N.	List of items	Descriptions
<b>1</b>	<b>Photometer with Reagents</b>	
	Instrument Type	Dual light source photometer offering direct-reading of preprogrammed test calibrations, Absorbance and Transmittance
	Wavelengths	400-650nm or more
	Accuracy	±1.0% T
	Display	LCD with backlight and contrast adjustment or better
	User Interface	On screen prompts available in English
	weight	less than 1 kg
	Power Supply	'AA' batteries , mains power delivered by USB port or adaptor
	Memory Capacity	Up to 500 data sets or better
	IP Rating	IP 67 or better
	Test Cuvette	Automatic centering for cylindrical cuvettes from 13 to 20 mm OD or better
	Connectivity	Must have Blue tooth connectivity option with android and USB for data download
	Accessories Included	8 or more cuvette, Dilution tube,Cuvette brush, Stirring rod, Hard carry case, USB port
	<b>Must be supplied with the below listed Chemicals with an expiry date of minimum 2 years from the date of supply</b>	
	Ammonia reagent	100 test
	Iron reagent	100 test
	Fluoride reagent	100 test
	Calcium reagent	100 test
	Total Hardness reagent	100 test