BHUTAN STANDARD FOR NATURAL MINERAL WATER

1. SCOPE

This standard applies to all packaged natural mineral water sold as food and is based on the Codex Standard for Natural Mineral Waters (CX STAN 108-1981).

2. **DEFINITION**

Natural Mineral Water is water that is clearly distinguished from ordinary drinking water and is characterized by the following:

- a. The content of certain mineral salts and their relative proportions and the presence of trace elements or of other constituents
- b. It is obtained directly from natural or drilled sources from underground water bearing strata
- c. The constancy of its composition and the stability of its discharge
- d. It is collected under conditions which guarantee the original microbiological purity and chemical composition of essential components
- e. It is packaged at or close to the point of emergence
- f. It is not subject to any treatment other than those permitted under this standard

3. COMPOSITION AND OTHER QUALITY FACTORS

3.1 Treatment and handling

- 3.1.1 Treatments permitted under this standard include separation from unstable constituents such as compounds containing iron, manganese, sulphur or arsenic, by decantation and/or filtration, if necessary, accelerated by previous aeration.
- 3.1.2 The transport of natural mineral water in bulk containers for packaging is not permitted under this standard.

3.2 Compositional/health related limits for certain substances

3.2.1 The health related limits for certain substances shall be in accordance with the permission of section 3.2 of the Codex Standard for Natural Mineral Waters (Codex Standard 108-1981) which are as set out below:

a. Antimony 0.005 mg/l

b. Arsenic 0.01 mg/l, calculated as total As

c. Barium 0.7 mg/l^1

d. Borate 5 mg/l, calculated as B

e. Cadmium 0.003 mg/l

f. Chromium 0.05 mg/l, calculated as total Cr

g. Copper 1 mg/l h. Cyanide 0.07 mg/l i. Fluoride See section 6.3.2 (CX STAN 108-1981)

j. Lead 0.01 mg/l
k. Manganese 0.4 mg/l
l. Mercury 0.001 mg/l
m. Nickel 0.02 mg/l

n. Nitrate 50 mg/l, calculated as nitrate

o. Nitrite 0.1 mg/l as nitrite

p. Selenium 0.01 mg/l

- 3.2.2 The following substances shall be below the limit of quantification when tested, in accordance with the methods prescribed in Section 7 of the Codex Standard for Natural Mineral Waters (CODEX STAN 108-1981):
 - a. Surface active agents
 - b. Pesticides and PCBs
 - c. Mineral oil
 - d. Polynuclear aromatic hydrocarbons

4. HYGIENE

Natural Mineral Waters covered by this standard shall be prepared in accordance with the following:

- a. The Food Rules and Regulations of Bhutan 2007
- b. The Bhutan Standard for Food Hygiene
- c. The Codex Code of Practice-General Principles of Food Hygiene(CAC/RCP 1-1969)
- d. The Codex Code of Practice for the collecting, processing and marketing of Natural Mineral Waters(CAC RCP 33-1985)

5. PACKAGING

All natural mineral waters shall be packed in hermetically sealed containers to prevent possible adulteration or contamination.

6. LABELLING

Natural Mineral Waters shall be labelled in accordance with the provisions of the Bhutan Standard for Labelling of Prepackaged Foods.