**Appendix N1**

**Technical Characteristics for Liquid Chlorine Cas**

Name: Liquid chlorine in special metal containers

Chemical formula: CL2

Appearance: amber-coloured liquid. Characterized by irritating and suffocative properties

Consumptive qualities: Molecular weight of active chlorine in the range of gr/dm3, 70.90

Specification:

• Volumetric fraction of chlorine - 99.8% - 99.98%

• Specific share of water - 0.01% -0.002%

• Specific share of Nitrogen trichloride - 0.001% -0.002%

• Specific share of residues of non-volatile impurities - 0.01% -0.002%

• Boiling temperature (101 kPa) -34 C0

• Density CL2 (gas) 3,214 kg / m3

Usage: disinfection/sterilization of drinking water

**Minimum Technical Characteristics for Chlorine Gas Containers**

**Description of the Structure**

The chlorine-gas container is a welded device of cylindrical structure. Its main elements are: the container itself with the bottom, base, protective rings, fastener, branch pipe, siphon tubes, valves, valve plugs, protective valve and portable hangers. The container has a base for mounting in an upright position, which is welded to the bottom. The flat branch pipe is welded to the surface; the protective valve is attached to the branch pipe with bolts protecting the valves from damage during transport. The container is fitted with welded hangers for carrying.

The chlorine-gas container should bear an identification number clearly engraved on the wall of the housing, as well as the date of technical inspection, the empty container weight. Valves of a full container should be sealed.

Presence of cankered, inflected, dented, deformed or corroded areas on the container housing is not allowed. The container housing should be painted and bear the factory-manufacturer’s inscriptions (identification number and factory name) on its top.

It is strictly forbidden to neglect the technical characteristics of the container and load excess chlorine in the container**.**

**Minimum Technical Characteristics for Chlorine Gas Cylinders**

The condition of the cylinders must comply with the requirements of the BS EN ISO 9809-1:2019 standard and the resolutions No. 151 and No. 150 of the Government of Georgia dated June 19, 2013.