SPECIFICATION OF 3 M^{3}BUCKET UNDERGROUND WASTE CONTAINER SYSTEM WITH CRANE

GENERAL QUALIFICATIONS

*****The inner container of the garbage collection chamber made of polyethylene rotation will be placed in the reinforced concrete chamber poured in one piece, which will be permanently placed underground.

*****The container will be independent from the waste inlet platform and inside the reinforced concrete chamber.

*When the upper platform open it will be lifted with the help of a crane and emptied into the garbage truck.

****Bucket System Underground Waste Container, will consist of 4 parts ;***

1)CONCRETE SOCKET

2)WALKİNG PLATFORM(SYSTEM COVER)

3)WASTE CONTAİNER

4)WASTE CHİMNEY

1)CONCRETE SOCKET;

*The outer concrete socket will be prepared by using **TS EN 206.TS 13515 STANDART C35/45** quality reinforced exposed concrete poured in one piece.

*There will be **8 mm** ribbed rebar in the concrete socket.

*A frame will be used on the concrete socket

*On the upper frame which is **5 mm** thick sheet metal will be hot-dip galvanized in accordance with **TS EN ISO 1461** standards

* Will be designed to be durable enough to be connected to the upper platform cover.

*There will be bushing bearings to stabilize the waste chamber of the opening system to the frame.

Inside the frame there will be a water proof gasket.Watertightness will be provided.

The concrete socket dimensions of the **3 M^3** chamber must be ;

Outer height **1885 mm**,

Inner height : **1770 mm**,

Upper dimensions :**1750x1700 mm.**

Lower dimensions :**1600x1550mm**

± (%2)

WASTE CONTAINER

*The concrete placed in the socket should be made of polyethylene material with rotation technique, which is suitable for lifting and unloading with a crane on the garbage truck, where the waste will be stored.

Features of Polyethylene Garbage container;

*Containers will be produced with medium intensity(**MDPE**) with black coloured polyethylene material resisted against ultraviolet rays

*The waste container should be designed as water proofed and resisted against solid wastes

*It should have handles that will help it to be carried and to help tipping the tipping arms of the garbage collector vehicles.

*In order to unload the container there should be an arm with a ring on it, strong enough to carry the container in full condition with a crane. It will be made of hot-dip galvanized coating in accordance with **TS EN ISO 1461** standards.

*Bolts used in the container will be galvanized with at least **8.8** quality (**DIN961- 933**), nuts (**DIN985**) will be galvanized with fiber

*The total weight of the container will be **100 kgs**

*The Waste container's dimensions;

-height will be maximum **1700 mm.**

-Upper dimensions should be **1300 mm x 1300 mm**

-lower dimensions **1185 mm x 1185 mm**

±(%2).

3. WALKING PLATFORM (SYSTEM COVER)

*The upper walking platform will be strong enough for people to walk on it easily.

*It will be manufactured from **ST37** and **ST37-2** steel plate and covered with **3/4** mm tear pattern sheet and hot-dip galvanized in accordance with **TS EN ISO 1461** standards.

*The connection of the platform to the concrete socket frame will be provided with hinge bushings.

*Bolts used on the platform will be galvanized with at least **8.8** quality (**DIN961- 933**), nuts (**DIN985**) will be galvanized with fiber.

*The walking platform (cover) should be opened up to an angle close to **90^0** .

*The walking platform will carry at least **700kg/m2** load

*There should be rain passages that will allow the water to accumulate on the cover to flow easily from the edges.

*There will be a gasket to prevent the entry of water into the concrete socket andthe odor of the garbage in the tank that will be stabilized to the frame on the concrete.

*The walking platform(cover) will be designed to be used easily by a single operator.

*The cover will be opened with the help of a key and will be lifted up after opening.

*Gas shock absorbers will be used to open and close the cover.

*These shock absorbers will not be affected by hot and cold weather conditions, the lifting power will be strong enough to lift the cover and waste inlet unit.

Shock absorbers';

*Operating temperature will be between **(-30°C) - (+80°C)**

*Lifting power will be at least **1700-N - 2300 N**

4-WASTE CHIMNEY

It is the chimney where the domestic wastes and packaged wastes to be stored in the plastic container in the concrete socket are thrown.

The body of the garbage disposal chimney will be **570 x 620 mm** and its height from the ground will be **800 mm**.

The body of the garbage disposal chimney will be **1.5 mm** thick, **AISI 304** quality Chrome Nickel sheet.

The garbage disposal chimney cover will be **1.5 mm** thick **AISI 304** quality Chrome Nickel sheet.

There will be a plastic handle and a foot pedal so that it can be opened easily by hand and the foot.

The foot pedal will be manifactured with **3x4** teardrop patterned sheet, hot-dip galvanized in accordance with **TS EN ISO 1461** standards.

A rubber wick will be assambled to the chimney cover to prevent noise and odor.

Chimney covers can be opened easily by all kinds of users, there will be a shock absorber so that the cap can be closed automatically after the garbage is thrown.

There will be **TS EN 13071-1 ve TS EN-13071-2 +A1** certificate for the underground waste systems

There will be **TS EN ISO 1461**certificate for hot-dip galvanize