ECO-FRIENDLY CLAY REFRIGERATION

Designs of Sheetal Pots & Gramin Sheetak

Centre of Science for Villages,
Dattapur - Wardha,
Wardha - 42 001.

Design No. 1

Product : Sheetal Pot (Photo No. 1)

Content : Terracotta Pot of 255mmX290mm X385mm
Terracotta Lid of 295mm X 120mm (Fig No. 1).

Specification : Sheetal Pot has an extra rim at the top which has to be filled with water. The water percolates through the walls of pot. The evaporation of water from the surface of the body results in cooling effect. Due to this cooling effect the food gets preserved for a longer time.

Features : In this design the pot is coated with terracotta colour (kabiz) to increase its durability. It has a lid, which cover the top of storage space. This design gives cooling effect above 9^0C, which makes it suitable for storage of leafy and non-leafy vegetables.

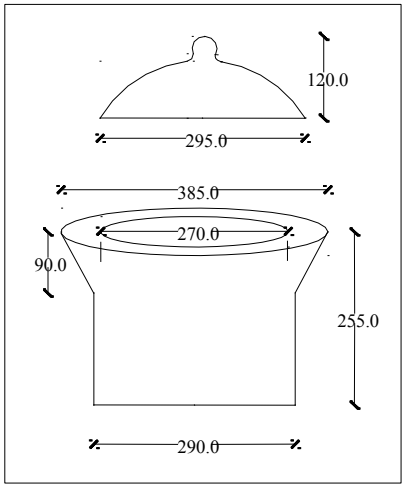

Fig. No. 1

Photo No. 1

Centre of Science for Villages,
Dattapur,
Wardha,

Design No. 2

Content : Terracotta Pot of 285mm X 270mm X 350mm
Terracotta Lid of 350mm X 120mm (Fig No. 2)

Specification : Sheetal Pot has an extra round rim at the top which has to be filled with water. The water percolates through the walls of pot. The evaporation of water from the surface of the body results in cooling effect. Due to this cooling effect the food gets preserved for a longer time.

Features : This design is widely accepted by consumers due to its durability. It provides more storage space and a lid, which covers the whole top of pot. Terracotta colour (kabiz) is applied on the ware to increase its durability. This design gives cooling effect above 9^0C which makes it suitable for storage of leafy and non-leafy vegetables.

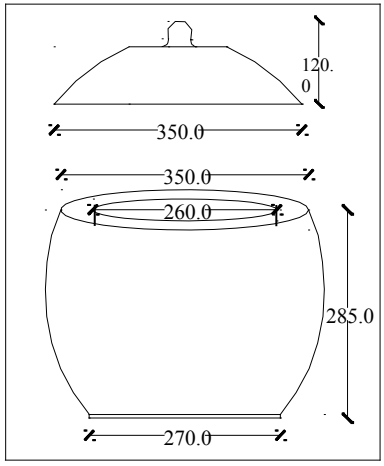

Fig 2

Photo 2

Design No. 3

Content : Terracotta pot of 275mm X 195mm X 390mm
Terracotta lid of 395mm X 205mm (Fig. No. 3)

Specification : Sheetal Pot has an extra round rim at the top which has to be filled with water. The water percolates through the walls of pot. The evaporation of water from the surface of the body results in cooling effect. Due to this cooling effect the food gets preserved for a longer time.

Features : This design is suitable for fabricating mass quantity of Sheetal Pot by jiggar & Jolly method. This design too has more space and a lid, which covers the whole top of the pot. A small bowl is provided at the top of lid to occupy water, which keeps the surface wet, thus enhancing the cooling effect. Terracotta colour (kabiz) is applied on the exterior to increase its durability. This design gives cooling effect above 9^0C which makes it suitable for storage of leafy and non-leafy vegetables.

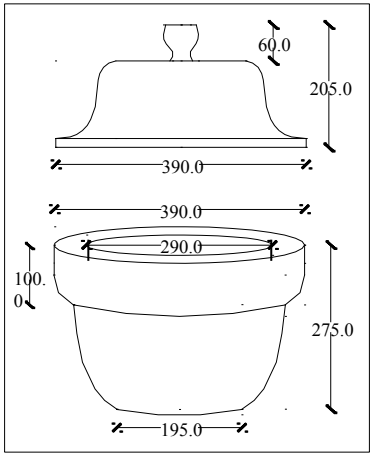

Fig. No. 3

Photo No. 3

Design No. 4

Content : Terracotta pot of 370 mm X 170 mm X 400mm
Terracotta pot of 280 mm X 170 mm X 340mm
Terracotta lid of 375 mm X 170mm (Fig. No. 4)

Specification : Gramin Sheetak has a concept of pot in pot system. In this system a small pot is kept in a larger pot and ten covered with lid. The cavity so formed between the two pots is filled with water. The inner container acts as storage for food and other items.

Features : This design has more storage space among designs having pot in pot concept. The inner pot is coated with lacquer to avoid the percolation of water inside the pot this reducing the decay of vegetables kept inside. Provision is made on the top of outer pot to facilitate lifting of the inner pot. A small opening is provided at the upper port of the outer pot to pour water. This design given cooling effect above 7^0C which makes it suitable for storage of vegetables.

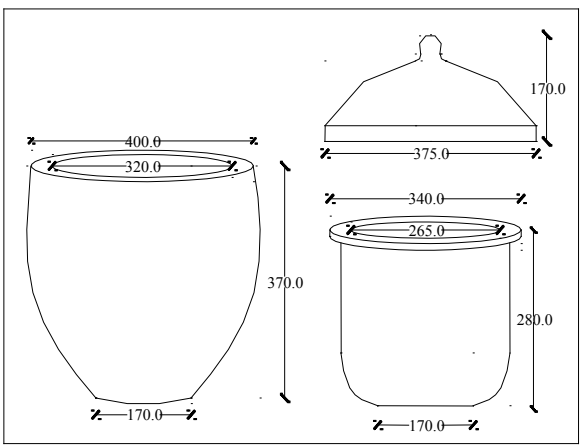

Fig. No. 4

Photo No. 4

Design No. 5

Content : Terracotta pot of 270mm X 165mm X 305mm
Terracotta pot of 215 mm X 140 mm X 255mm
Terracotta lid of 300 mm X 190mm (Fig. No. 5)

Specification : Gramin Sheetak has a concept of pot in pot system. In this system a small pot is kept in a larger pot and ten covered with lid. The cavity so formed between the two pots is filled with water. The inner container acts as storage for food and other items.

Features : Manamadurai is the only place in India where gram Sheetak is being mass-produced and is continuously in production. The pots of this design are coated with terracotta colour (kabiz) to reduce its original porosity and to increase durability. This design gives cooling effect above 7^0C. In Manamadurai people use it for storing idli batter over night.

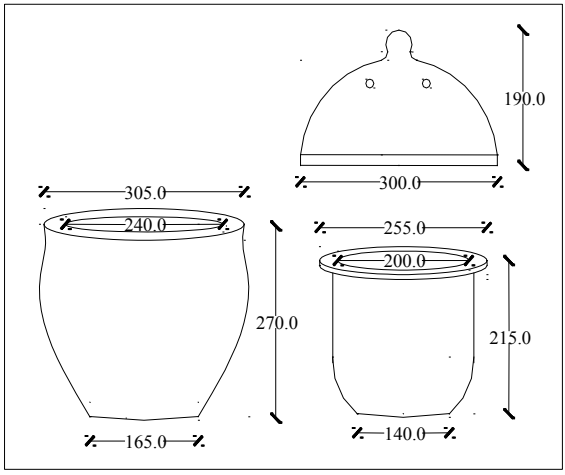

Fig. No. 5

(Photo No. 5)

Design No. 6

Product : Gramin Sheetak (Photo No. 6)

Content : Terracotta pot of 275mm X 260mm X 285mm
Terracotta pot of 235mm X 210mm X 260mm
Terracotta lid of 305mm X 85mm (Fig. No. 6)

Specification : Gramin Sheetak has a concept of pot in pot system. In this system a small pot is kept in a larger pot and ten covered with lid. The cavity so formed between the two pots is filled with water. The inner container acts as storage for food and other items.

Features : In this design the interior of the outer pot is coated with terracotta colour (kabiz) to increase its durability. The shape of this design is cylindrical with a lid covering whole top of the set. A small opening is provided at the upper part of the outer pot to pour water. This design gives cooling effect of above 7^0C, thus it is suitable for storage of vegetables.

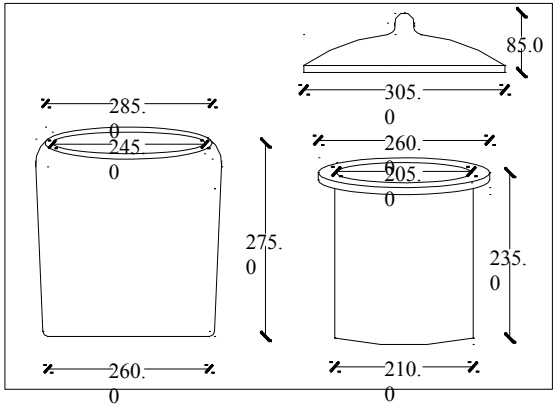

Fig. No. 6

(Photo No. 6)

C*lay refrigerator works on the principle of cooling due to surface evaporation of water. This evaporation takes away the heat from the surrounding which results in cooling effect. It is cost effective as well as energy saving device, for people in rural as well as urban areas. People use it as a clay refrigerator that keeps vegetables and cooked food, milk and milk products, fish and meet fresh. This pottery device is innovated with a view to add to the range of traditional pottery products, which will enhance their income and ultimately upgrade their economic condition. These products are Eco-friendly, cost effective and easy to operate as compared to the cooling devices available in market.*

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