

Teknofanghi<sup>®</sup>

# TEKNOBAG<sup>®</sup> DRAIMAD<sup>®</sup>

## Sludge Dewatering



**Auric**

TECHNO SERVICES PVT. LTD.

TEKNOBAG® DRAIMAD® dewateres the sludge from water and waste water treatment plants, sewage treatment plants using special filtering bags . The bags are made from special water repellant material which allows one way flow of water from inside to outside. The bags are installed in a special stainless steel frame designed to give even distribution.

System can be optionally supplied with programmable control panel ensuring correct operation.

The flocculated and conditioned sludge is continuously fed to the unit at a steady rate. The flocculated solids are retained inside the bags and the free water is continuously drained out. As soon as the level of solids in the bags have reached the predetermined level, the feed to the unit is stopped and the bags are allowed to stand as such for some time to enable the free water to drain out.

After this initial dewatering the bags are sealed and removed using a special trolley and stored in the open. During this second phase of open-air storage time the sludge weight and volume continue to reduce irrespective of the weather conditions. The special water repellant material of the bags prevents the rain water from entering but allows dehydration of the content by evaporation. After storage of about 10-15days, depending on the ambient conditions a cake of 50 - 95% DS is obtained.

The volume of sludge handled depends on the solid content in the feed and the type of sludge. Typically the units can handle a flow rate of 20m3/day with 1% solid content.

Various models are available viz. 1, 2,3 and 6 bags models.

Multiple models can be installed either in series and parallel in order to obtain the desired final conditions.

## Salient Features

- Upto 20 m3/day of sludge handled per day depending on the solid content.
- Sludge dewatering by patented polypropylene filter bags by gravity.
- Bags designed to allow unidirectional flow of water.
- Two step dewatering process. One by gravity and other by natural evaporation.
- 50-95 % dryness in cake achieved after second step.
- Effective in all seasons including monsoons.
- Dried cake similar to dried mud.
- Separation efficiency >95%.
- Maximum weight reduction in sludge.
- Elimination of sludge drying beds.
- Low poly electrolyte consumption.
- - No noise.
- - No maintenance cost.
- - No moving parts.
- - No power consumption.
- - No foundations.
- Clean and easy handling of sludge.
  - No spillage.
  - No odour.
  - No flies/insects.
- Reusable special filter bags.
- Flocculated feed need not be under pressure at the inlet of the equipment.
- Manhour requirement is minimal.
- Also available in automatic version.
- AISI 304 construction.
- Suitable for dewatering of chemical, sewage, biological and mixed sludge in small ETP/STP plants.
- No human contact with sludge - excellent for 'ESH'

### Dimensions L x W x H in mm

	01BM	02 BM	03 BM	06 BM
Length mm	630	1140	1550	1900
Width mm	500	560	550	1050
Height mm	1500	1500	1700	2000

All Dimensions are indicative only, Subject to change without prior notice.

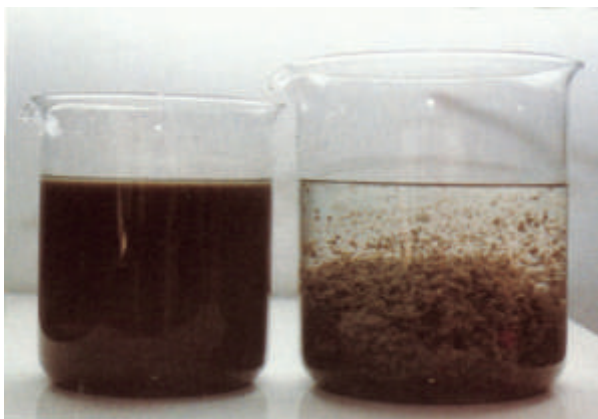


## Accessories

# Sludges? Your Solutions are :

Teknofanghi®

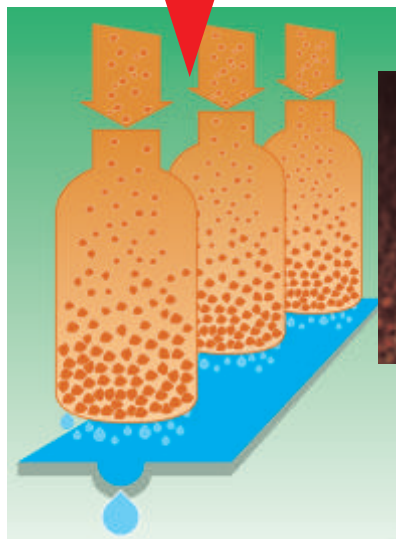
Sludge conditioning with polyelectrolyte



1000 Kgs of Sludge

**TEKNOBAG® DRAIMAD®**

Draining



70 Kgs in one batch



30 Kgs in 10-15 days



The TEKNOBAG®-DRAIMAD® system dewateres and packs sludge from wastewater treatment plants.

The heart of the system is the special filtering bag. The bags are mounted on a special stainless steel frame, designed to optimise sludge distribution into the bags.

Filtration is carried out under gravity for both automatic and manual versions.

The automatic system is controlled by a programmable electric panel, ensuring correct process operation, also the cycle time may be reduced by use of compressed air.

This system is suitable for sludge quantities up to 20m<sup>3</sup>/day.

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