

BSA GROUP

ToT Holder

Corporate Off.:18-20, Sukhwani Fortune, Morwadi Road, Pimpri Pune – 411018.

Branch Off:-1.Maa,B/7,Vivekanand Marg, Patliputra,Patna,Bihar

**2.Near Chaudhari Rice Mill, Hathipahar Road,
Bajnathpur,B.Deoghar,Jharhand**

Health & Hygiene Division

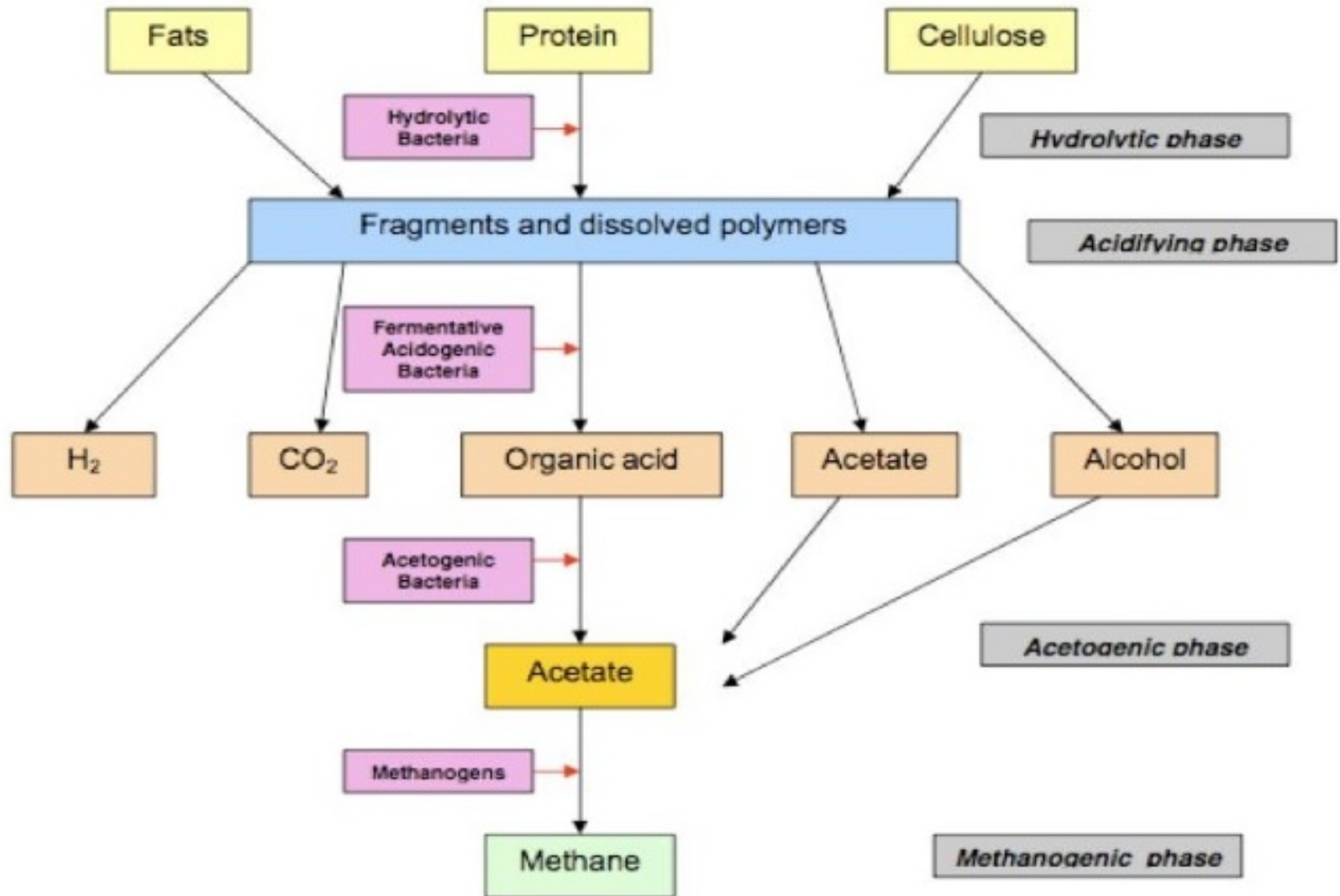
- ❖ H & H Division is a vital part of BSA Group, Which is engaged in promoting and developing innovative environmental friendly products and services for Human Waste & Waste Water Management System.

Our main focus is to deal with the problem of open defecation that takes place every day. Our technology helps in degrading Human waste and treats waste water in the most effective manner. This sanitation systems, is to be installed at places where conventional toilets facility cannot be made available. We build/promote/manufacture and supply BIO-TANK--- The Bio Digester toilets.

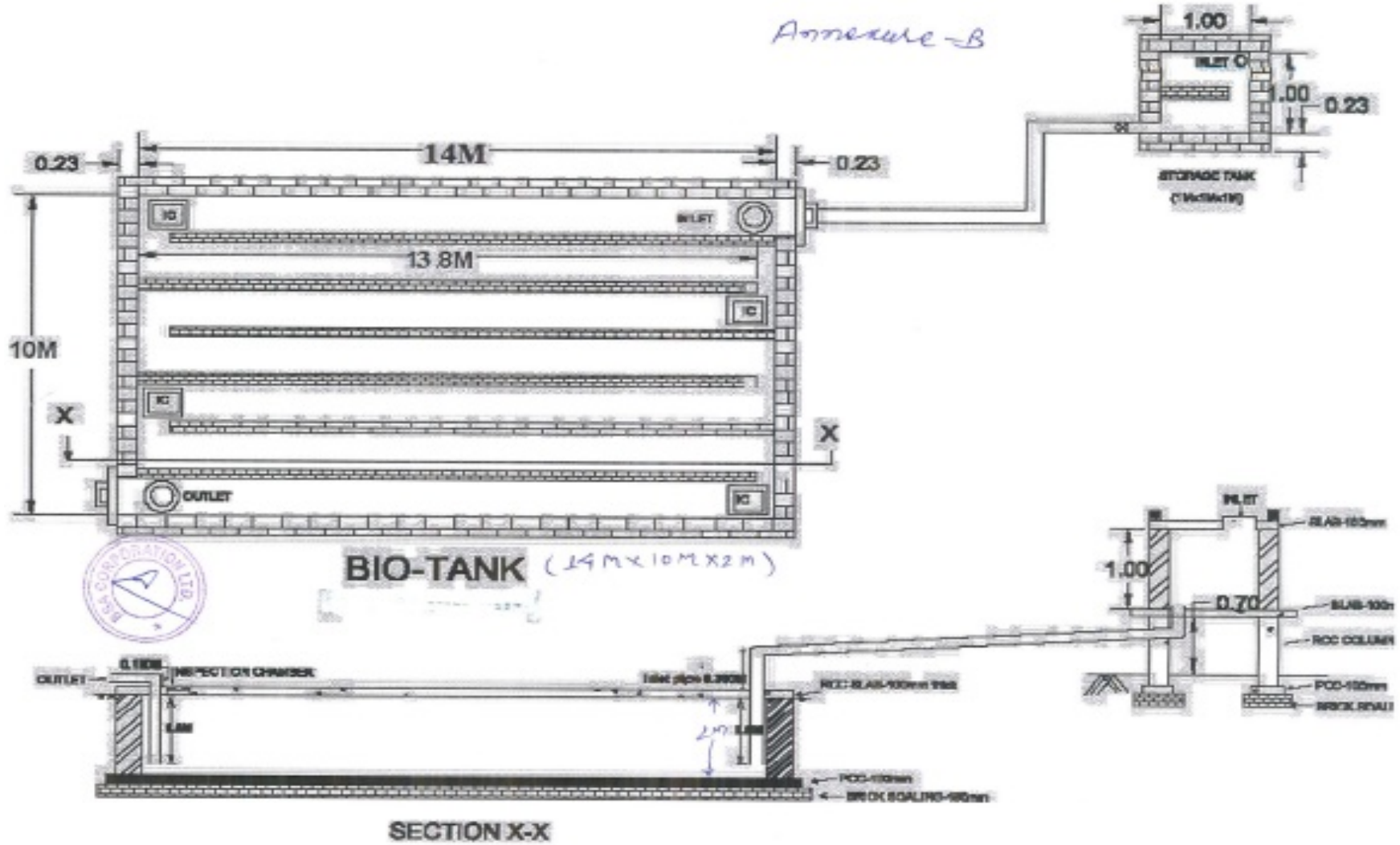
Product:- Master Bio-Tank, Technology:- Bio-Digester, Situation:- Anaerobic by DRDO

- ❖ The treatment process in septic tanks attached to toilets does not break down the waste completely.
- ❖ Defense Research Laboratory(DRL),Tejpur – an R&D organization of DRDO, has developed a technology of bacterial inoculums for sewage treatment under diverse geo-climatic conditions.
- ❖ Recently developed technology named as '**Bio-Digester**' is the excellent **Bio-Degradable, Non-Energy intensive, low cost, 100% Eco-Friendly** alternative of the conventional septic tanks/STP .The zero-waste bio-digester technology breaks down human excreta completely into usable water and gas through anaerobic process.

Anaerobic Biodegradation



Annexure-B



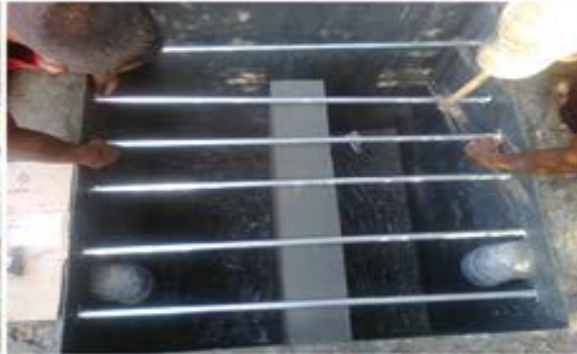
Conclusions

- ❖ The most Eco friendly Sewerage system designed by DRDO meets CPCB standard.
- ❖ The replacement of STP.
- ❖ The reduction in load of existing STP by 70%
- ❖ The most efficient and economic sewerage system designed so far
- ❖ Conversion of water by almost 90% which is re-usable
- ❖ Reduction of water consumption by almost 50%
- ❖ No major maintenance required so almost maintenance free, no operating cost , no external energy or power required.
- ❖ The designed life of Bio -digester is minimum 40 years with one time bacteria fill and continued working further as bacterial multiplication takes place inside.
- ❖ Methane as a bi product of the process can be used for various applications depending upon the quantity produced.

Pictures



Asam



Asam- 2



Deoghar Nagar Nigam



Bero, Bio-Tank



Mansinghi



Deoghar Nagar Nigam- 2



IPC, Deoghar

THANK YOU

Presenter

Nishi Kant Rai

Zonal Manager

H & H Division

BSA Corporation Ltd