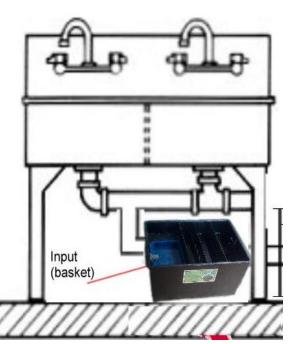


## **BIOGT ORGANIZATION CHART**



## WHAT IS GREASE TRAP

Grease Trap is a tank installed under kitchen sink in order to avoid piping and sewer blockage caused from the flow of Fat, Oil and Grease (FOG), and also to nurture and maintain the cleanliness of environment from pollution.







**Before** 

**After** 

## Why Installation of Grease Trap is COMPULSORY?

- To reduce nauseous and disgusting smell within the premises
- To ensure healthy environment and clean dining place
- To avoid premises from being the source of few well known deceases caused by decease oriented animals such as rats, fly, cockroaches etc
- To portray a good image to tourist
- To avoid drainage system, rivers and ocean from massive pollution









# **CURRENT ISSUE I**





Blockage to piping system



# **CURRENT ISSUE II**



Blockage to septic tank



# **CURRENT ISSUE III**

# Penyakit kencing tikus



Rats, flies and coakroaches will caused well known decease.



## **CURRENT ISSUE IV**

# Longkang tersumbat punca banjir kilat



Longkang tersumbat punca banjir kilat 🕅 🚈 🚾 🚾 🚾

Kos pembersihan parit yang tidak berhenti-henti.



Bau busuk di premis-premis Makanan



Banjir telah menelan berjuta-juta wang rakyat Malaysia.

Blockage in Drainage System will result Disastrous Flood and will Involve massive losses, millions in value





## **CURRENT ISSUE V**

# RM2bil needed to clean up Sg Pinang

By Shannan Actifory mile

T 5 thought in them political than to return that pullette problems maps, and Although the brigatest Department (1994) white indicates thereton Rais-

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Extremely and negatly polluted rivers in Perlang ster grad by Fibrings gifter Statestone is the Control of the Circulation of marks polymed — to be been 13, 2, agains 12 March 1990, pages



High cost of Maintenance and Cleaning Activity for drainage system and rivers

## **KESAN-KESAN PENCEMARAN**

# **And other pollution issue...**





# BIOGT GREASE TRAP INFORMATION AND SPECIFICATION

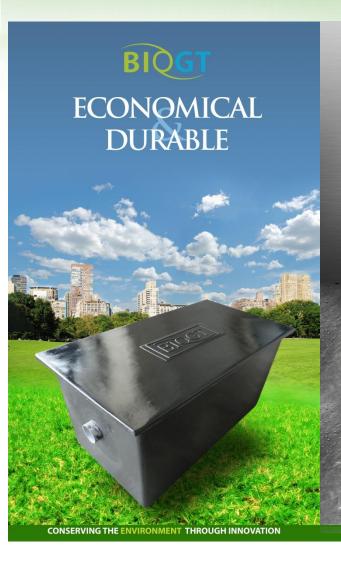


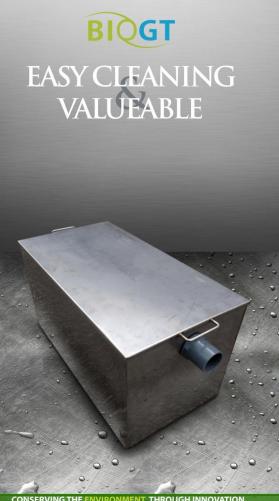


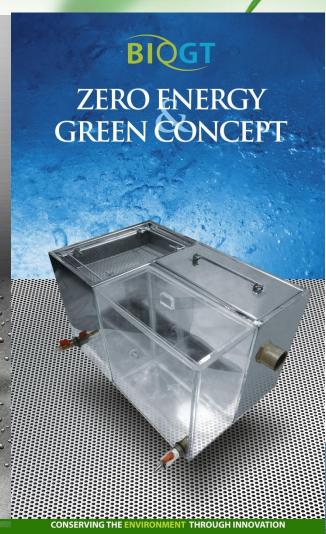


# RESTAURANT AND FOOD PREMISE GREASE TRAP









## PRODUCT PATENT & SIRIM SAMPLE ANALYSIS



### PERBADANAN HARTA INTELEK MALAYSIA INTELLECTUAL PROPERTY CORPORATION OF MALAYSIA

(Diperbadankan) Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan

#### AKTA REKA BENTUK PERINDUSTRIAN 1996

PERATURAN-PERATURAN REKA BENTUK PERINDUSTRIAN 1999

(Peraturan 20)

#### PERAKUAN PENDAFTARAN SUATU REKA BENTUK PERINDUSTRIAN

Nombor Pendaftaran

: MY 10-00859-0101

Tarikh Pendaftaran

: 05 Julai 2010

Tarikh Prioriti

Tarikh Pemfailan

: 05 Julai 2010 Tarikh Pemberian Perakuan : 10 Mac 2011

Barang atau set Barang : GREASE TRAP

yang berkenaan dengannya Reka Bentuk Perindustrian

itu didaftarkan

#### n ini disahkan bahawa.

P.U. (A) 351

t dan tertakluk kepada peruntukan Akta Reka Bentuk Perindustrian 1996 dan an-Peraturan Reka Bentuk Perindustrian 1999, Reka Bentuk Perindustrian atau entuk-Reka Bentuk Perindustrian yang representasi atau representasi-representasi n, telah atau pun didaftarkan pada tarikh pendaftaran di atas, atas nama BIOGT GROUP (M) SDN. BHD. di alamat 19, LALUAN TUPAI 2, JALAN TUPAI, 34000 TAIPING, PERAK MALAYSIA berkenaan dengan suatu permohonan pendaftaran Reka Bentuk Perindustrian.

MOHD. FAIIZUDIN BIN MOHD. SHARUJI

b.p. Pendaftar

Reka Bentuk Perindustrian Malaysia

### Pusat Teknologi Alam Sekitar dan Bioproses Environment and Bioprocess Technology Centre

Bangunan 15, SIRIM Berhad, Shah Alam, Selangor Darul Ehsan. Tel: 60-3-5544 6550 / 6598 Faks: 60-3-5544 6590



Company Name

Address

GT Compact Technology

Sdn. Bhd

: 413-1-G, Wisma Chuan Bee Lebuh Chulia

10200 Penang Attn: Mr. Ooi

Your Ref No. SIRIM Ref.No. ETC 237/16/761 J 061/08 Job No. R 062/08 Report No. 7/5/08 Date of Issue No. of pages

Request

Analysis of Kitchen Wastewater Samples

#### SAMPLE DESCRIPTION

Wastewater (Inlet and Outlet) from Grease Trap Evaluation samples were received on 11/3/2008 18/3/2008 25/3/2008 1/4/2008 and 8/4/2008

#### **TEST METHOD**

Please refer to page 2

### RESULT

Please refer to page 2 and 3

#### INFERENCE

Not applicable.

(The inferences expressed herein are outside the scope of accreditation)

Name: Designation: Fax No:

Yati Kamarudzman (A.M.I.C) Assoc. Researcher WAN MAZLINA W. HUSSEI 603-55446590 (AMIC) 603-55446563/6550

SIRIM Berhad

Persiaran Dato' Menteri ksyen 2, Peti Surat 7035he results contained in this report relate only to 40911 Shah Alamples/ items received and analysed by SIRIM MALAYSIA
Tel: 60-3-5544 6016 nvironment and Bioprocess Technology Centre. The Hotline: 60-3-5510 3533 port or parts thereof shall not be reproduced in any Faks: 60-3-5510 80 Form without the written approval of SIRIM Berhad.







# RECOGNITION FROM LOCAL GOVERNMENT AUTHORITY



## MAJLIS PERBANDARAN MANJUNG

Jalan Pinang Raja, 32040 Seri Manjung, Perak Darul Ridzuan Pej : 05-6871363 / 6871364 / 6871365 Fax : 05-6882102 E-mail : ydp@mpm.gov.my Web : www.mpm.gov.my

> Ruj kami : Tarikh :

Bil(29) dlm MPM JKPB P/4/31 21 Rabiulakhir 1431 6 Mac 2010



Tuan/Puan.

#### PEMASANGAN "BIOGT GREASE TRAP INTERCERTER SYSTEM"

Dengan segala hormatnya saya diarahkan merujuk kepada perkara diatas dan surat tuan bertarikh 31 Mac 2010 adalah berkaitan.

- Adalah dimaklumkan, pihak Majlis tiada halangan untuk penggunaan perangkap minyak/gris daripada syarikat ini. Majlis juga menggalakkan sistem ini digunapakai oleh semua peniaga-peniaga makanan dan minuman demi memelihara kebersihan sistem perparitan dan Bandar Manjung.
- 3. Pihak Majlis Perbandaran Manjung memperakui keberkesanan rekabentuk sistem bagi 'Biogt Grease Trap ' yang dikemukakan.

Sekian, terima kasih.

" MAJU, PROGRESIF, MAKMUR "

"BERKHIDMAT UNTUK NEGARA"

Saya yang menurut perintah,

(NOORHAYATI BINTI ABDUL RAMIM)

Pegawai Tadbir, Jabatan Kesihatan Dan Perkhidmatan Bandar, b/p Yang Dipertua Majlis Perbandaran Manjung.

"TRANSFORMASI KUALITI TERAS 1MALAYSIA"





فجايت منتري بسر قيراق دارالرضوان

PEJABAT MENTERI BESAR, PERAK DARIT. RIDZUAN, ARAS 2, BANGUNAN PERAK DARUT. RIDZUAN, JALAN PANGLIMA BUKIT GANTANG WAHAB,

Telefan : 05-2549384 05-2531957 Fake : 05-2545324 / 05-2540278

Bil 1 9C 1 Dim. PMB Px. 1287/2 Jld. 2

09 Sysaban 1451 21 Julii 2010



Pengarah Urusan, WCT Event Management And Services, 15, Jalan Lapangan Siber 5, Bandar Siber Ipoh, 31350 Ipoh.

Tuan.

SOKONGAN TERHADAP PERNIAGAAN DAN PRODUK "PERANGKAP MINYAK" BIOGT

Dengan hormatnya saya diarah merujuk kepada perkara di atas.

 Adalah dimaklumkan bahawa pentadbirar Pejabat Y.A.B. Menteri Besar Perak tiada halangan memberikan sokongan ke aisa permohonan bersebut di atas sekiranya tidak melanggari syarat-ayarat yang telah ertemban.

Sokian dimaklumkan, terima kasih.

"BERKHIDMAT UNTUK NEGARA"

Saya yang menurut perintah,

AZHAR BIN AHMAD, PMP., AMP., BKT., PPT., PJK.)

Pegawai Khas

Kepada Menteri Besar Perak

"TRANSFORMASI KUALITI TERAS I MALAYSIA"

PHYSIC 2503000004-89

(Sila nyatakan rujukan kami apabila menjawab surat ini)

## Sample Effluent complied with the Standard B Parameter



### SPECTRUM LABORATORIES (PENANG) SDN BHD

(Company No.: 290941-X) 1904, Tkt. 1, Jalan Bukit Minyak, Taman Sri Mangga, 14000 Bukit Mertajam, Seberang Perai Tengah, Pulau Pinang, Malaysia. Tel: 604-5075168, 5075188. Fax: 604-5074243. E-mail: speciabpëtm.net.my



CERTIFICATE OF ANALYSIS	Page 1 of 1

Company	: Biogt Recycle (M) Sdn. Bhd			
Lab. No	: W / 1109 / 378			
Date Sample Received	: 15 th September 2011			
Date Sample Reported	: 22 nd September 2011			
Sample Description	: Effluent			
Sample Marking	: Waste Water from Biogt Grease trap system, Outlet from Grease trap			

PARAMETER	<b>METHODS</b>	RESULT	STD. B	
COD, mg/l	APHA 5220-C	36	200	
BOD* 5 days @20°C, mg/l	APHA 5210-B	3	50	
Suspended Solids, mg/l	APHA 2540-D	18	100	
Oil & Grease, mg/l	APHA 5520-B	ND < 2.0	10.0	
Color, ADMI	APHA2120 F	44	200	

NOTE: APHA means Standard Methods for the Examination of Water and Wastewater, (American Public Health Association), 21st Edition, 2005.

STD B means EQA (Industrial Effluent) Regulations 2009, Fifth Schedule.

ND means Not Detected.

\* Sample for BOD was preserved at <4°C and tested on 17/09/2011.

Inference: The chemical analysis result show that all the parameters tested for the outlet grease trap complied with the DOE Standard B limit.

(Opinion & interpretation stated in this section not under the

SAMM Accreditation scope)

Attn : Mr. Tan Kok Hua

Biogt Recycle (M) Sdn Bhd., 19, Laluan Tupai 2, Jalan Tupai,

34000 Taiping, Perak. (),

Ms. C. Y. NG B. Sc., AMIC Senior Chemist IKM No. A 4619/20

The above results relate only to the items tested. This report shall not be reproduced, except in full, without the written approval of Spectrum Laboratories (Penang) Sdn. Bit

K.L. Office : Lot 14, (PT 5015) 2nd Floor, Jalan Pendamar 27/90, Seksyen 27, 40000 Shah Alam, Selangor. Tel: 603-51928188, 51923188. Fax: 603-51918188. John Office : 18A, Jalan Molek 2/5, Taman Molek, 81100 John Bahru, John Darul Takzim. Tel: 607-3539288, 3532088, 3537088. Fax: 607-3581088.

	Parameters		Stan	Standard		
	rarameters	(Units)	A(1)	B(2)		
1	Temperature	°c	40	40		
2	рН		6.0 - 9.0	5.5 - 9.0		
3	BOD 5 @ 20 o C	mg/l	20	50		
4	COD	mg/l	50	100		
5	Suspended Solids	mg/l	50	100		
6	Mercury	mg/l	0.005	0.05		
7	Cadmium	mg/l	0.01	0.02		
8	Chromium, Hexalent	mg/l	0.05	0.05		
9	Arsenic	mg/l	0.05	0.10		
10	Cyunide	mg/l	0.05	0.10		
11	Lead	mg/l	0.10	0.5		
12	Chromium, Trivalent	mgЛ	0.20	1.0		
13	Copper	mgЛ	0.20	1.0		
14	Manganese	mg/l	0.20	1.0		
15	Nickel	mg/l	0.20	1.0		
16	Tin	тдЛ	0.20	1.0		
17	Zinc	mg/1	1.0	1.0		
18	Boron	mg/l	1.0	4.0		
19	Iron (Fe)	mg/l	1.0	5.0		
20	Phenol	mg/l	0.001	1.0		
21	Free Chlorine	mg/l	1.0	2.0		
22	Sulphide	mg/l	0.50	0.50		
23	Oil and Grease	mg/l	Not detectable	10.0		

Environmental Quality (Sewage and Industrial Effluents Maximum Effluent Parameter Limits Standards A and B.

- 1. Standard A for discharge upstream of drinking wate
- 2. Standard B for inland waters



## PROPOSED BIOGT GREASE TRAP

## A. GREASE TRAP MODEL

We produce 17 standard models Grease Trap. For other sizes, we can do "customization" base on customers specification. The type of materials we are using is Stainless Steel 304 (free from rust) or Fiber Glass. However, the proposed model for kitchen sink are GTA01, GTA02 dan GTA2000 and for the underground type we proposed any model from GTA3 series.











## A.1. MODEL GTA01 Fibreglass



## **SPECIFICATION GTA01**

Flow Rate: 15 gallon/ minute Daily Meal: 40 - 150 meals

Pipe Size: 32 mm

**Grease Trap Size : 24"(L) x 12"(W) x 12"(H)** 

Maximum capacity of oil and waste water trapped: 30 liter

**Maximum capicity until overflow: 57 liter** 

**Material:** 

Durable fiber glass – can stand heat from sun and heat until

300 °C

# A.2. MODEL GTA02 Fibreglass



## **SPECIFICATION GTA02**

Flow Rate: 20 gallon/ minute Daily Meal: 150 – 250 meals

Pipe size: 40mm

**Grease Trap size : 30"(L) x 14"(W) x 12"(H)** 

Maximum capacity of oil and waste water trapped: 45 liter

Maximum capacity until overflow: 80 liter

Material:

Durable fiber glass- can stand heat from sun and heat until

300 °C



## A.1. MODEL GTA01 Stainless Steel



## **SPECIFICATION GTA01**

Flow Rate: 15 gallon/ minute Daily Meal: 40 – 150 meal

Pipe size: 32 mm

Grease Trap size : 24"(L) x 12"(W) x 12"(H)

Maximum capacity of oil and waste water trapped: 30 liter

Maximum capacity until overflow: 57 liter

**Material:** 

**Stainless Steel 304** 

## A.2. MODEL GTA02 Stainless Steel



## **SPECIFICATION GTA02**

Flow Rate: 20 gallon/ minute Daily Meal: 150 – 250 meals

Pipe size: 40mm

**Grease Trap size : 30"(L) x 14"(W) x 12"(H)** 

Maximum capacity of oil and waste water trapped: 45 liter

Maximum capacity until overflow: 80 liter

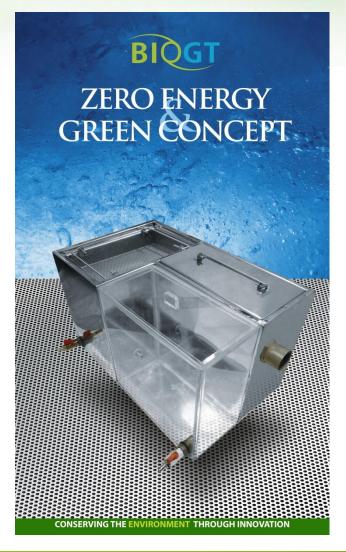
**Material:** 

**Stainless Steel 304** 



## B. MODEL GTA2000 Automatic Grease Separator





## **SPECIFICATION GTA2000**

Flow rate: 15 gallon/ minute Daily Meal: 2000 – 3500 meals

Pipe size: Max 50 mm

Grease Trap size : 24"(L) x 15"(W) x 14"(H)

Maximum capacity of oil and waste water trapped: Oil will be separated into 12 liter tank and only oil free water will flow

through the outlet

Maximum capacity until overflow: 60 liter

**Material: Stainless Steel 304** 

Illustration below is showing how the Grease Separator works automatically on Mineral Oil (black oil) – it separate and traps the oil and only water will come out





# C. MODEL GTA3 SERIES (Underground)





## PRODUK PERANGKAP GRIS BIOGT



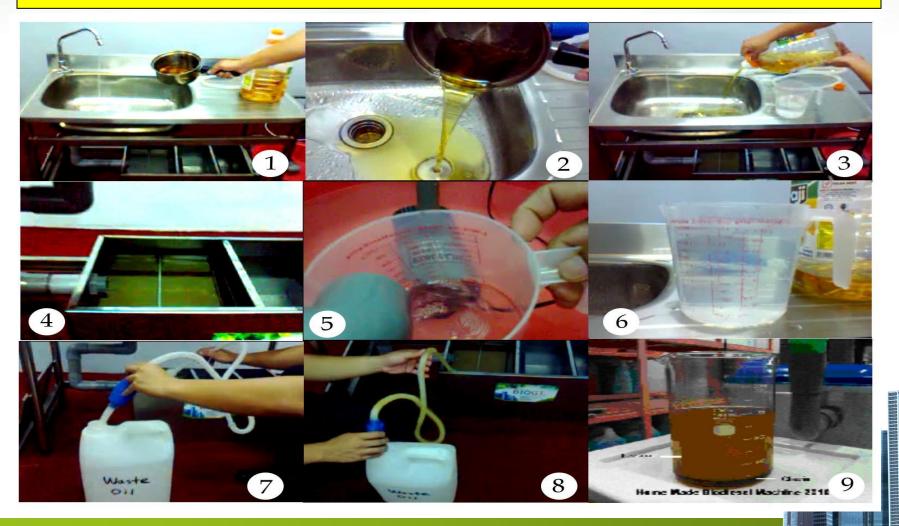
	Under Ground Series (Stainless Steel 304 / Fiber glass)							
GTA325	30-50	25 GPM	250 to 300	3"	26" (L) x 16" (W) x 22" (H) (inch) 650 (L) x 410" (W) x 560" (H) (mm)	R.Mamak / Workshop	94 Liter	149 Liter
GTA335	50-70	35 GPM	300 to 400	3"	28"(L) x 18" (W) x 24" (H) (inch) 700 (L) x 450"(W) x 600"(H) (mm)	R.Mamak / Workshop	124 Liter	189 Liter
GTA350	70-80	50 GPM	400 to 600	3"	32" (L) x 22" (W) x 25" (H) (inch) 800 (L) x 520 (W) x 630 (H) (mm)	R.Mamak / Workshop	176 Liter	262 Liter
GTA375	80-90	75 GPM	600 to 1000	4"	39"(L) x 28" (W) x 25" (H) (inch) 1000 (L) x 710 (W) x 630 (H) (mm)	R.Mamak / Workshop	287 Liter	447 Liter
GTA3100	90-100	100 GPM	1000 to 2200	4"	47"(L) x 34" (W) x 33" (H) (inch) 1200 (L) x 860 (W) x 840 (H) (mm)	Kanteen	634 Liter	866 Liter
GTA3150	> 100	150 GPM	2200 to 3200	4"	55" (L) x 36" (W) x 37" (H) 1400 (L) x 910 (W) x 940 (H) (mm)	Kanteen	910 Liter	1197 Liter
GTA3200	> 100	200 GPM	3200 to 4400	6"	63" (L) x 40" (W) x 42" (H) (inch) 1600 (L) x 1010 (W) x 1060 (H) (mm)	Kanteen	1212 Liter	1712 Liter
GTA3250	> 100	250 GPM	4400 to 6000	6"	67" (L) x 44" (W) x 46" (H) (inch) 1700 (L) x 1110 (W) x 1160 (H) (mm)	Kanteen	1603 Liter	2188 Liter
GTA3300	> 100	300 GPM	6000 to 6600	6"	71" (L) x 46" (W) x 46" (H) (inch) 1800 (L) x 1160 (W) x 1160 (H) (mm)	Hotel	1774 Liter	2635 Liter
GTA3350	> 100	350 GPM	6600 to 7800	6"	79" (L) x 48" (W) x 48" (H) (inch) 2000 (L) x 1210 (W) x 1210 (H) (mm)	Hotel	2178 Liter	2928 Liter
GTA3400	> 100	400 GPM	7800 to 9400	6"	83" (L) x 52" (W) x 50" (H) (inch) 2100 (L) x 1310 (W) x 1260 (H) (mm)	Hotel	2613 Liter	3466 Liter
GTA3450	> 100	450 GPM	9400 to 12000	6"	87" (L) x 56" (W) x 54" (H) (inch) 2200 (L) x 1410 (W) x 1360 (H) (mm)	Food Factory	3257 Liter	4218 Liter
GTA3500	> 100	500 GPM	12000 to 15000	6"	87" (L) x 56" (W) x 62" (H) (inch) 2200 (L) x 1410 (W) x 1560 (H) (mm)	Food Factory	3877 Liter	4839 Liter





## HOW THE CONVENTIONAL GREASE TRAP WORKS

Food waste (solid waste) and cooking oil from the kitchen sink will flow into the Grease Trap, the oil will be trapped inside the tank and only clean water flows out into the drain.



## **HOW THE GREASE SEPARATOR WORKS?**

Illustration below will show how the Grease Separator works, it will separate and trap the oil into the special tank and only clean water will flow out into the drain.





## LOCATION TO INSTALL GREASE TRAP



- Under kitchen sink
- Under the sink where cleaning of the dishes is taking place
- •Under the sink where cleaning of raw food such as fish, chicken etc is taking place
- And at any location where waste oil will flow out









## **MAINTENANCE METHOD**

## Clean everyday if necessary by:

- (a) Clearing the solid or food waste into plastic bag
- (b) Scoop or pump the oil into the container





a) Pump (Hand Pump)

b) Scoop



# HOW TO KNOW IF THE GREASE TRAP IS FUNCTIONING ACCORDINGLY

- (a) It can trap the oil from flowing out
- (b) There will be no overflow or blockage
- (c) There will not produce nauseous smell



Grease Trap is functioning very well



Grease Trap is not maintain accordingly



## THE PERFECT CYCLE









# MAIN DRAIN GREASE TRAP



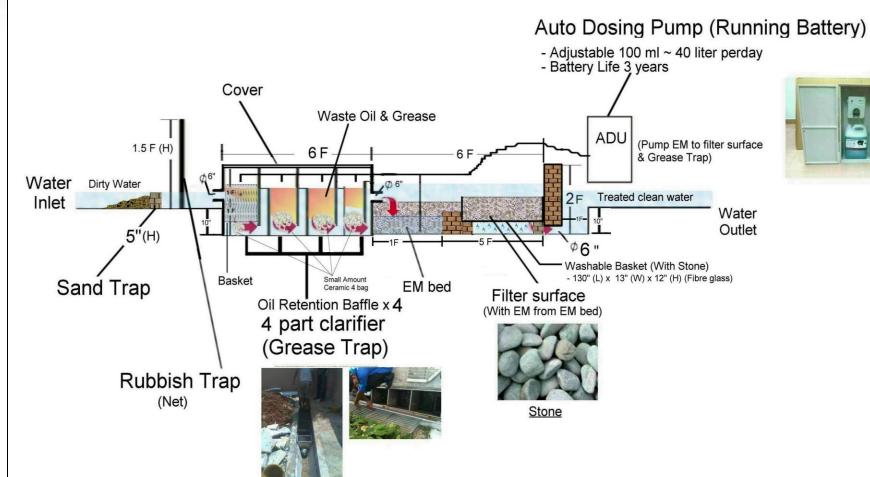




## ADVANCE MAIN DRAIN TREATMENT PLAN



## Advanced Drain Treatment Plan



Grease Trap Model 3800

Copyright 2011 @ Biogt Recycle (M) Sdn Bhd



## AUTO DOSING UNIT DAN BIOGT DISPERSANT

## Biogt Auto Dosing Unit - ADU9000 SPESIFIKASI

## *LDS4* Programmable dosing pump.

Provisional Specification Sheet 1 (last updated Nov 2011.)

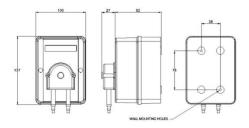


- battery operation.
- 24 hr or 7 day timing functions.
- 28 programmable dose times.
- Standard 200 series mini peristaltic pump head.
- Dose set in ml.
- · Calibrate function.
- · Battery back up.
- Battery voltage drop compensation for stable pump output.
- · Low battery indication.
- 16 Character blue back lit lcd display.
- · Settings pass code protected.
- Wall mounting.
- IP 55.
- · Small footprint.
- · Optional external input & output.
- · Optional slave unit for dual dosing.

### Optional:



Metal Cabine
 Fnzymes



## Biogt Dispersant - A0085

**SPESIFIKAS** 







- Lipas - Lalat



Biogt Dispersant ini adalah campuran tertentu mikro arganisma (pelbagai strain) yang mana ianya dicipta khas untuk menggalakkan perubahan rupa, bentuk fizikal bahan buangan arganik yang sukar untuk dicernakan. Bahan buangan arganik ini adalah termasuk lemak, minyak dan gris (FOG), protein, selubase dan hydracarban. Dengan pengguncan Biogt Dispersant, FOG akan ditukarkan kepada bahan seperti CO2 (karban diaksida) dan juga H2O (air). Ini adalah salah satu kaedah terbaik dalam pra-rawat bahan buangan arganik bagi mencegah ianya dari masuk ke dalam sistem perparitan.

### Kelebihan menggunakan Biogt Dispersant :

- . Sangat berkesan untuk mengurangkan atau menghapuskan bahan cemaran
- Mengurai dan menukar bahan buangan organik kepada bahan larut air
- Menjaga saluran longkang supaya lancar
- I. Tidak menghakis, tidak akan merosakkan longkang dan juga perangkap minyak
- Mengawal dan mengurangkan bau busuk
- 6. Tidak mengandungi pencemaran phosphate
- Tidak bersifat toksik dan tidak pathogenic (tidak bersifat penyebab penyakit)
- Selamat dan mesra alam sekitar

Cap Dagangan:





## MAIN DRAIN GREASE TRAP

# **Installation example**















## **COMPLETED PROJECT**



Sekolah Bestari, Kelantan



Perangkap Minyak BIOGT, Penang



Kem PLKN Manjung



CIAST, Shah Alam



Universiti Teknologi Petronas



Rumah Sampah Alam Flora Putra Jaya



Tambun Hot Springs, Ipoh





Gerai Majlis Perbandaran Melaka Petronas Gas Berhad, Terengganu



Carsem Sdn Bhd, Ipoh



SHORUBBER, ARAU PERLIS



Synico Marketing S/B sg.soi kuantan



Ceva Freight Holdings (Malaysia) S/B Shah Alam Selangor



UEM Builders Berhad, Penang



Sek Men Sri Muda, Penaga



Sek Men Kampung Kastam, Penang



Maktab Rendah Sains Mara



FAMA, Teman, Ipoh



Sime Darby, Kedah



