

QMS-ISO-9001:2015 EMS-ISO-14001:2015 Reg. No. RI91/8395

To,

Date:08/11/2019

SANE GURUJI AROGYA KENDRA 165-A MALWADI HADAPSAR PUNE 411028

Dear Sir / Madam,

Sub.: Annual Certificate about Treatment and Disposal of Bio Medical Waste.

Ref.: Dated 08/11/2019

We hereby certify that the Bio Medical Waste received at our end is disposed off as per the norms laid down by MPCB from time to time

CATEGORY	MODE OF TREATMENT ADOPTED BY PESPL
Yellow	Incineration
Red	Auotclave & Shredding
White (Translucent)	Disinfection / Mutulation
Blue	Disinfection

BMW collection pertaining to your unit [Reg. No ]NH000351 from 01-01-2018 to 31-12-2018 is enclosed

Kindly study and analyze the statement and also ensure compliance as under: -

As per MPCB norms, proper segregation & disposal of the same by delivering the waste to the CBWTF is the responsibility of individual Generatior.

1	Proper Segregation and Handling over the waste to us on daily basis.

- Waste sharps/Needles to be Mutilated (Burning/Cutting) before Handling over to us.
- 3 Glass material to be given separately after disinfection and breaking at your end.
- 4 Ensure Delivery of both Yellow & Red bags on daily basis.
- 5 No untreated bio-medical waste should be kept stored beyond a period of 48 hours.
- 6 Liquid waste / Urine / Saline / Liquid medicines etc. to be discharged into drains after disinfection according to schedule III.

For PASSCO Environmental Solutions Pvt. Ltd.

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Authorized Signator

PRINCIPAL PRINCIPAL
MA. M's, Sumatibal SIBRINCIPAL

M.A. M's, Surretished Star INCIPAL Ayurved Mahavidy as M's, Surretishai Shah Hadapsar, Puna-Ayurved Mahavidyalaya,

PASSCO ENVIRONMENTAL SOLUTIONS PVT. LTD. Pune-411028

Operator Common Bio-Medical Waste Treatment Facility for P.M.C./P.C.M.C. Area

Regd. Office: "Narayani" 34/4 Erandawane, Behind Eisen Pharmaceuticals, Pune-411 004. India. Telefax: +91 20-6602 4765, 2546 7096

P.M.C. Site Office : Kailash Crematorium Compound, Next to Naidu Hospital, Pune - 411 001.

P.C.M.C. Site Office: S. No. 172, 173, 174, Y.C.M. Hospital, Ground Floor, Sant Tukaram Nagar, Pimpri-411 018. Tel.: +91 20 2742 0395, 6733 2149

• Email: helpdesk@passco.in • Website: www.passco.in



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# Annual Certificate About Treatment and Disposal of Bio Medical Waste.

To,

Date: 08/11/2019

SANE GURUJI AROGYA KENDRA 165-A MALWADI HADAPSAR PUNE 411028

BMW collection statement to your unit [Reg.No : NH000351] From 01-01-2018 To 31-12-2018

CATEGORY	NUMBER OF BAGS	TOTAL WEIGHT
Yellow	3378	12723.600
Red	963	4751.090
White	224	212.915
Blue	229	2226.260
Total	4794	19913.865

For PASSCO Environmental Solutions Pvt. Ltd.

Authorized Signal

MAM'S Sulfatibhai Shah Ayurved Mahavidyalaya Hadebsar Pune 11028

#### PASSCO ENVIRONMENTAL SOLUTIONS PVT. LTD.

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## CERTIFICATE

Division: PMC Registered

Date: 07/10/2019

This is to Certify that in terms of Bio Medical Waste Treatment Facility agreement dt. 20.04.2009 with pune Municipal Corporation, You are hereby granted registration for and on behalf of Pune Municipal Corporation From 01-04-2019 to 31-03-2020

Registration No: 000365

PESPL Code	Name & Address of the Occupier	Category	No. Of Beds
NH000351	SANE GURUJI AROGYA KENDRA 165-A MALWADI HADAPSAR PUNE - 411028	NURSING HOME	250

As per Biomedical Waste Management Rules, 2016 and MPCB norms, proper segregation & disposal of the same by delivering the waste to the CBWTF vehicle at designated point is the responsibility of individual

Compliance as per MPCB rules as under be ensured from your end :-

1	Proper Segregation and Handling over the waste to us.
2	Waste sharps, needles, metals as per schedule I (Category White) of Biomedical Waste Management Rules, 2016 to be handed in puncture-proof, leak-proof, tamper-proof container with white barcode.
3	Glass material and metallic body implants after disinfection by soaking washed glassware after cleaning with detergent and Sodium Hypochlorite treatment or through autoclaving or microwaving or hydroclaving as per schedule I Category (a) & (b) Blue of Biomedical Waste Management Rules, 2016 to be handed over in puncture-proof & leak-proof container with blue barcode.
4	Ensure delivery of biomedical waste in red bag, yellow bag, white barcode container, blue barcode container to collection vehicle.
5	No untreated bio-medical waste should be kept stored a period of 48 hours.

We hereby certify that the Bio Medical Waste received at our end is disposed off as per the norms laid down by MPCB from time to time

For Rassco Environmental Rollutions Pvt. Ltd.

PUNE

Authorized Signator

PASSCO ENVIRONMENTAL SOLUTIONS PVT. LTD.

Operator Common Bio-Medical Waste Treatment Facility for P.M.C./P.C.M.C. Area

Regd. Office: "Narayani" 34/4 Erandawane, Behind Fisen Pharmaceuticals, Pune-411 004, India Teletax: +91 20-6602 4765, 2546 7096

P.M.C. Site Office : Kailash Crematorium Compound, Next to Naidu Hospital, Pune - 411 001 P.C.M.C. Site Office: S. No. 172, 173, 174, Y.C.M. Hospital, Ground Floor, Sant Tukaram Nagar, Pimon-411 018, Tel.: +912

• Email : helpdesk@passco.in • Website : www.passco.in

CIN: U33129PN2005PTC020340

M.A.W's, Sumational Ayerved Mahavidyelaya, Hadepur, Pung-411 028.



QMS-ISO-9001:2015 EMS-ISO-14001:2015 Reg. No. RI91/8395



Date:07/10/2019

To.

SANE GURUJI AROGYA KENDRA 165-A MALWADI HADAPSAR PUNE 411028

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Disinfection / Mutulation
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2	Waste sharps/Needles to be Mutilated (Burning/Cutting) before Handling over to us.
3	Glass material to be given separately after disinfection and breaking at your end.
4	Ensure Delivery of both Yellow & Red bags on daily basis.
5	No untreated bio-medical waste should be kept stored beyond a period of 48 hours.
6	Liquid waste / Urine / Saline / Liquid medicines etc. to be discharged into drains after disinfection according to schedule III.

For PASSCO Environmental Solutions Pvt. Ltd.

Authorized Signate

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PRINCIPAL

M.A.M's, Sumalibhai Shah

Ayerved Mahavidyalaya,

Hadepsar, Pune-411 028.





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To,

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For PASSCO Environmental Solutions Pvt. Ltd.

PUNE 411 004

Authorized Signator

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Ayerved Mahavidyalaya,
Hadepur, Pune-411 028.

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#### PASSCO ENVIRONMENTAL SOLUTIONS PVT. LTD.

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P.C.M.C. Site Office: S. No. 172, 173, 174, Y.C.M. Hospital, Ground Floor, Sant Tukaram Nagar, Pimpri-411 018. Tel.: +91 20 2742 0395, 6733 2149

• Email ; helpdesk@passco.in • Website ; www.passco.in





To,

Date: 19/02/2019

DR. ANIL SITARAM GUJAR SANE GURUJI AROGYA KENDRA 165-A MALWADI HADAPSAR PUNE-411028

Dear Sir / Madam,

Sub.: Annual Certificate about Treatment and Disposal of Bio Medical Waste.

Ref.: Your Letter/ Verbal Request Dated 19/02/2019

We hereby certify that the Bio Medical Waste received at our end is disposed off as per the norms laid

CATEGORY	MODE OF TREATMENT ADOPTED BY PESPI
Yellow	Incineration
Red	
White ( Translucent )	Autoclave & Shredding
	Disinfection / Mutilation
Collection pertaining to your unit [ PESPL Code :	Disinfection

BMW collection pertaining to your unit [ PESPL Code : NH000351 ] from 01/01/2018 To 31/12/2018 is enclosed Kindly study and analyze the statement and also ensure compliance as under : -

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2	Waste Sharps/Needles to be Mutilated (Burning/Cutting) before Handing over to us.
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5	No untreated bio-medical waste should be kept stored beyond a period of 48 hours.
	Liquid waste / Urine / Saline / Liquid medicines etc. to be discharged into drains after disinfection

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साने गुरुजी आरोग्य केंद्रा करिता

Operator: Common Bio-Medical Waste Treatment Facility For P.M.C. & P.C.M.C. Area

Regd. Office: "Narayani" 34/4 Erandwane, Behind Eisen Pharmaceuticals, Pune – 411004. India. Tele fax: +91 20 6602 4765, 2546 7096.

P.C.M.C Site Office: S. No. 172,173,174, Y.C.M. Hospital, Ground Floor, Sant Tukaram Nagar, Pimpri – 411018. Tel.: 020 202220, Sumat: hai Shah E-mail: helpdesk@passco.in Web Site: www.passco.in

Ayerved Mahavidgalaya, Hedepenr, Pune-411 028.





#### Annual Certificate about Treatment and Disposal of Bio Medical Waste. To.

DR. ANIL SITARAM GUJAR SANE GURUJI AROGYA KENDRA 165-A MALWADI **HADAPSAR** PUNE-411028

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963	4751.09
224	212.915
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For PASSCO Environmental Solutions Pvt. Ltd.

411 004

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Division: PMC Registered



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/Hου0351	SANE GURUJI AROGYA KENDRA	NURSING HOME	250
	165-A MALWADI,HADAPSAR,PUNE,411028		

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4	Ensure delivery of biomedical waste in red bag, yellow bag, white barcode container, blue barcode box to collection vehicle.				
5	No untreated bio-medical waste should be kept stored beyond a period of 48 hours.				

We hereby certify that the Bio Medical Waste received at our end is disposed off as per the norms laid down by MPCB from time to time

For Passco Environmental Solution

Authorized Signatory

olution of the Ltd.

PUNE

411 004

PRINCIPAL

M.A.M's, Sumatibhai Shah

Ayurved Mahavidyalaya,

Hadapsar, Pune-411.028.

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• Email : helpdesk@passco.in • Website : www.passco.in

## MAHARASHTRA AROGYA MANDAL

Hadapsar, Pune 411028.
Phone - 26 999 405, Fax -26 999 102, E-mail: secretary@mam.org.in

Date: 01.06.2010

### Decentralized Wastewater Treatment System (DEWATS)

Transformation of wastewater to reusable form is the concept of decentralized treatment system. The key approach of this system is not to promote any particular kind of technology but to bring forward a new philosophy of dealing with waste and wastewater. This approach is based on systematic implementation of material-flow-oriented recycling process. This system helps to minimize water pollution ensuring that water is used economically and is reused to the maximum possible extent after treatment. The treated water can be reused for irrigation, groundwater recharge. The conversion from wastewater to reusable water is possible and a decentralized treatment system is the alternative and sustainable concept.

DEWATS is based on the principal of decentralization simplicity and reuse of treatment products. Simplicity is expressed by on-site treatment without chemicals and technical energy inputs and low maintenance. This treatment system cannot be switched off intentionally and it provides state of art technology. To operate the treatment unit, skills of gardener or a caretaker are enough.

DEWATS applications provide treatment for both domestic and industrial source of water and are reliable, long lasting and tolerate towards inflow fluctuations. A DEWAT unit can be designed to treat wastewater flows from 1-1000 m³ per day. The application are based on mainly four treatment principles (modules), combined to their specific characteristics to a customized treatment system.

- Primary treatment and sedimentation called as settler.
- Secondary anaerobic treatment in fixed bed or baffled upstream reactors.
- Tertiary aerobic / anaerobic treatment in subsurface flow filters (planted gravel filters)
- Tertiary aerobic /anaerobic treatment is ponds.
- Settler: The settler is made as a sub-soil constructed tank with one partition wall. Here two main treatment processes that take

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Ayurved Mahavidyalaya,
Hadapsar, Pune-411028



place are sedimentation and sludge stabilization with biological treatment. The digestion process ensures that the accumulated sludge is reduced and stabilized. The sludge storage volume provided is for 18 to 24 months. Here the minimal biological oxygen demand (BOD) reduction is between 20 to 25%. The settler is resistant to shock loads and variable inflow mainly due to the design of the next treatment unit, the baffled reactor.

2. Anaerobic Baffled Reactor: The baffled reactor consists of a series of chambers in which the wastewater flows upstream. Here the suspended and dissolved solids in the pre-settled wastewater undergo anaerobic degradation. The activated sludge settles down at the bottom of each chamber and the influent wastewater is forced to flow through sludge blanket where anaerobic bacteria make use of pollutants for their metabolism. Progressive decomposition occurs in the successive chambers. In the baffled reactor the BOD reduction rate is upto 90% and the pathogen reduction ranges between 40 to 75%. The baffled reactor is resistant to shock load and variable inflow. It operates by gravity and maintenance is reduced to desludging on the chambers at intervals of 1 to 2 years.

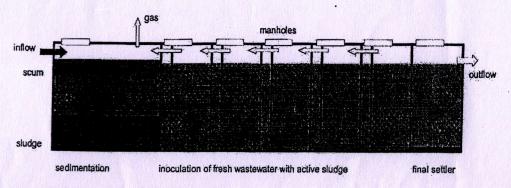


Fig. 1: Baffled reactor with integrated settler

3. Planted Gravel Filters (PGF): Planted Gravel Filters is a constructed wetland suitable for wastewater with low percentage of suspended solids that have already been removed by pretreatment. The main removal or treatment mechanisms are biological conversion, physical filtration and chemical absorption. PGF is made of planted filter bodies consisting of graded gravel. The bottom slope is 1% and the flow direction is mainly horizontal. The main plants used in this filter bed are canas indica, Reed juncus, Papyrus, Phragmites and Arunda donax. Plants transport oxygen via their roots into the ground. Use of plant is only to act as catalysts rather

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Sane Guruji Arogya Kendra

Asaya Manager PRINCIPAL
M.A. M's, Sumutibhai Shah
Ayurved Mah Hidyalaya,
Hadansar, Pr. 8-411028

than actually be a treatment medium. BOD reduction rate is between 75 to 90% and pathogen removal is over 90%.

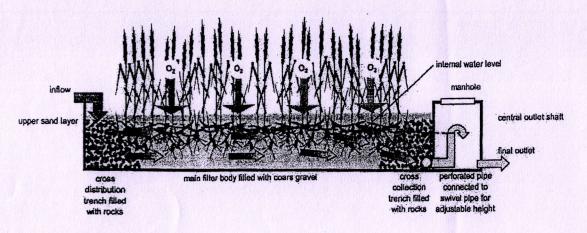


Fig. 2: Planted gravel filter

4. Control and storage pond : The discharge from the planted gravel filter goes into a pond for effluent quality control. In the pond further sedimentation or statabilization take place. The treated wastewater is mainly stored in the pond to be reused for the irrigation of open areas.

## Operation and maintenance of DEWAT Plant:

- Flow Check: Check the flow from the place where the wastewater is generated (Inlet) to the outlet of DEWAT.
- Desludging: Wastewater carries non degradable solids which are trapped at the beginning in the settling device (Settler). The provided settler device will reach its storage capacity in two years. Hence desludge the DEWAT as under.

Settler

: Once in a year

Baffled Reactor : Every 2-3 years

Pond system

: 10 years or more.

### **Maintaining Planted Gravel filter:**

- Trim the plants if the plant growth is too dense then the plants will have to be removed in alternate rows.
- Leaf litter needs to be cleaned manually.

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Sane Guruji Arogya Kendra

Allinger Manager

- Weeding around the modules.
- > Regular weeding and algal growth removal in the plant.

# The details of the plants constructed are as under :

Sr. No.	Particulars	Hospital Hadapsar	School Hadapsar	Narodi
1	Existing pre treatment	Septic	Septic	Septic
+		tank	tank	tank
2	Water consumption m3/d	67	23.5	7.5
3	Wastewater input m3/d	35	23.5	7.5
4	Discharge quantity m3/d	35	23.5	7.5
5	Expected amt of irrigation water m3/d	25	23	7.5

The average cost of construction comes to around Rs. 100/- per litre of capacity. Cost varies depending upon the ground strata, distance of inlet from Laterin, Bathrooms etc.

Recycled water is utilized for developing and maintenance of Ayurvedic garden having 336 different species.

Maharashtra Arogya Mandal has constructed three DEWATS plants in the year 2005 with financial support of Arbeiterwohlfahrt (AWO). The plants were constructed with guidance and technical support of Bremen Overseas Research and Development Association Bremen. Maharashtra Arogya Mandal is the pioneer in constructing DEWAT plant in Maharashtra.

All the DEWAT plants are functioning well for last five years. You are welcome to see plants at Sane Guruji Arogya Kendra, S.No. 165, Malwadi, Hadapsar, Pune 411028.

-4-

#### ANIL S. GUJAR

Secretary
Maharashtra Arogya Mandal,
Hadapsar, Pune 411028.
020-26999405, 26998596
Fax: 020-26999102,
secretary@mam.org.in

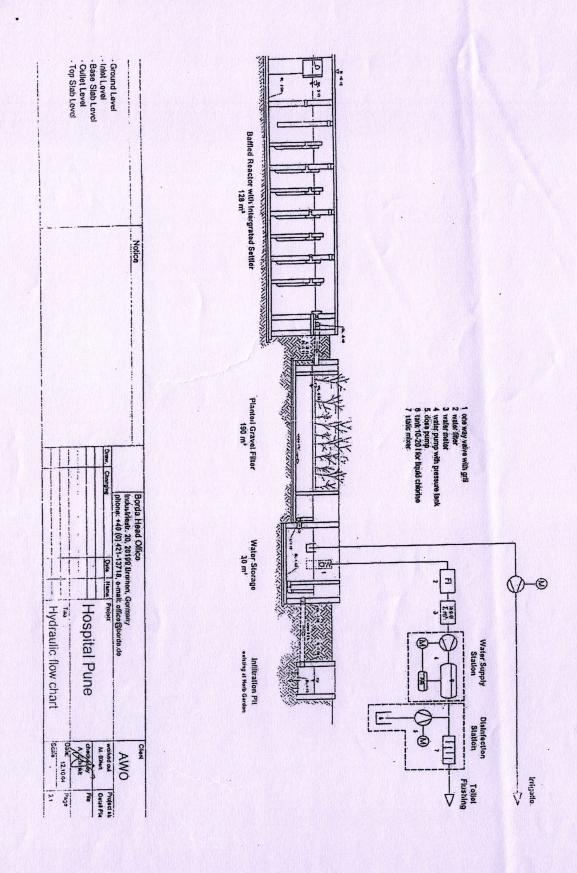
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Sane Guruji Arogya Kendra

Ascuyar Manager



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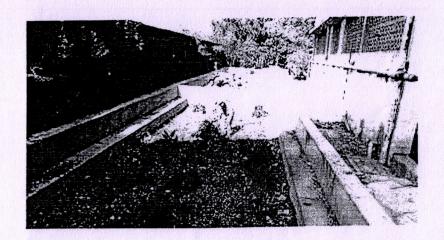
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Sane Guruji Arogya Kendra

Asaya Manager





DEWAT Plant at Sane Guruji Hospital



DEWAT Plant at Sane Guruji Hospital (Planted Gravel filter)

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Ayurved Mahavidyalaya,
Hadansar Prine-411028

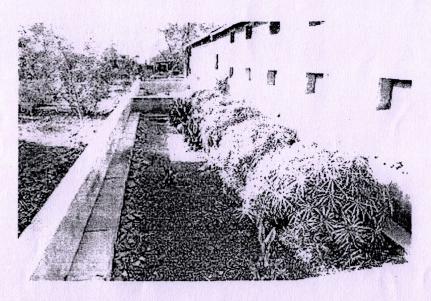
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Sane Guruji Arogya Kendra

Kuja Manager



DEWAT Plant at Sane Guruji Hospital (Planted Gravel filter)



DEWAT Plant at MAM workshop unit

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Sane Guruji Arogya Kendra

Manager

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Ayurved Mahavidyalaya,
Hadapsar. Pune-411028

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