

**BEFORE THE NATIONAL GREEN TRIBUNAL, SOUTH ZONE, CHENNAI  
ORIGINAL APPLICATION No:86/2021(SZ)**

**IN THE MATTER OF**

N. Samiraja, Perambalur District - Applicant

Versus

The Chief engineer, Public Works Department, Chennai - Respondent

**Independent Report filed by the District Collector, Perambalur**

I, Sri Venkata Priya, aged about 48 years, serving as District Collector, Collectors Camp Office, Perambalur do solemnly affirm and sincerely state as follows:-

I am filing this independent report **"regarding the sewage treatment facility that is there being provided in that Panchayat (V.Kalathur) and if there is no proper system provided, What is the interim arrangement that can be made to avoid sewage water being mixed with the storm water chain which ultimately reaches the Kallar River"** as per the orders passed on 11.08.2020 by the Hon'ble National Green Tribunal, South Zone, Chennai.

**1. Details assessed**

- a. V.Kalathur Village Panchayat has a population of about more than 9000. There are 2226 houses in the Panchayat. No industrial or production units in the village, however there are two shopping complexes. About 55% of the people are residing in the vicinity of the Kallar River.
- b. Around 650 residential units and many commercial units are near Kallar River. About 130 KLD of grey water is being generated from these domestic and commercial establishments. Drainage systems are available in the Panchayat for the disposal of grey water.
- c. There are 12 Thooimai kavalars employed to collect garbage from 150 houses per day. They cover every house in alternate days. The collected garbage brought to the segregation area. There are three pits in every segregation area. Out of the three, two are meant for bio degradable waste. The other pit is used for non degradable waste. These pits are located in the following four places in V.Kalathur Village Panchayat.

1. Mettucheri – on the way to V.Kalathur
2. Melatheru in V.Kalathur
3. Vannarampoondi
4. Rayappanagar

d. Bio degradable wastes are put in the pit properly after segregation. Later it is used to produce vermi compost. One segregation shed was constructed in Mettucheri near the pits. The plastic wastes and non bio degradable waste are weighed and dumped in the segregation shed. They were sold out to the vendors and amount received is an income to the Village Panchayat.

e. Apart from that, 57 nos. of 1100 litre capacity GI garbage bins were installed in needy collection points. Public are using these bins for disposal of garbage. The garbage put in these bins are collected and brought to the segregation area for segregation using the vehicles available with V.Kalathur Village Panchayat as detailed below:-

- |                              |   |   |
|------------------------------|---|---|
| 1. Push Cart                 | : | 6 |
| 2. Tri Cycle                 | : | 8 |
| 3. Battery Operated Vehicles | : | 3 |

There are 5 sanitary workers are doing cleaning works everyday in area allotted to them. The Village Panchayat is taking utmost care in proper and safe disposal of solid waste generated every day. The Panchayat is engaging additional labourers for cleaning activities, as and when additional man power is required.

## **2. Endeavors by the Local body in Grey Water Management**

The following initiatives are being done by the Village Panchayat to educate public in proper disposal of solid and liquid waste.

- a. Special campaigns involving public and students on cleanliness.
- b. Rallies to commemorate important days in connection with sanitation.
- c. Door to door inter personal communication activities by the VPRC / PLF functionaries, Panchayat staff, elected representatives and the President of the village Panchayat involving community and general public.
- d. Disseminating information regarding the importance of safe disposal of grey water and black water during grama sabhas and other meetings.
- e. "Tom tom", interpersonal communication activities by motivators during special occasions.

- f. Issue of handbills to public, drawing of awareness paintings in prominent places, installation of boards to attract the public towards the goal aimed at, writing slogans in important junctions are some activities taken up by the Panchayat.
- g. The Village Panchayat has cleaned a large pile of garbage dumped in Kallar River and river bed.

### 3. Projects sanctioned for implementation

A detailed assessment was made to prevent the indiscriminate flow of waste water through habitat, as it creates health hazard. More than that, the stagnant water can act as a breeding source of mosquitoes.

Drainage systems were provided under various schemes in the streets and way side of roads. These drainages constructed in places with space constraints for construction of a household soak pits do not end up in a disposal point. A community soak pit at the disposal point of a drainage system serve the purpose of safe disposal of grey water.

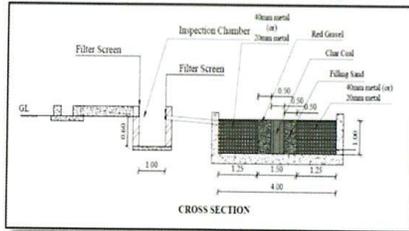
Community soak pits were sanctioned in the following places in V.Kalathur under MGNREGA for collection and disposal of grey water. These projects are under execution and the stage of progress is monitored closely so that they can be completed within time.

Sl. No	Scheme/Year	Name of Works	Estimate Amount	As No/ Date
1.	MGNREGS/ 2019-20	Construction of Horizontal Soak pit filter for community near Kadaiveethi at V.Kalathur	111000	A3/2712/2019, 30.11.2019
2.	MGNREGS/ 2019-20	Construction of Horizontal Soak pit filter for community near Vannarampoondi PDS shop in V.Kalathur Panchayat	111000	A3/2712/2019, 30.11.2019
3.	MGNREGS/ 2019-20	Construction of Horizontal Soak pit filter for community near Vannarampoondi Colony (near School)	111000	A3/2712/2019, 30.11.2019
4.	MGNREGS/ 2019-20	Construction of Horizontal Soak pit filter for community near Mettucherry North Street	111000	A3/2712/2019, 30.11.2019

5.	MGNREGS/ 2019-20	Construction of Horizontal Soak pit filter for community near Keelachery Pookari house	111000	A3/2712/2019, 30.11.2019
6.	MGNREGS/ 2019-20	Construction of Horizontal Soak pit filter for community near Mettucherry South Street	111000	A3/2712/2019, 30.11.2019
7.	SWM Phase II 15 <sup>th</sup> FC Grant United 2020-21	Construction of Horizontal Soak pit filter for community near Melatheru Anganwadi at V.Kalathur	133000	B3/4171/2020, 04.08.2021
8.	SWM Phase II 15 <sup>th</sup> FC Grant United 2020-21	Construction of Horizontal Soak pit filter for community near Vannarampondi Sengamalaiyur Kovil	133000	B3/4171/2020, 04.08.2021
9.	SWM Phase II 15 <sup>th</sup> FC Grant United 2020-21	Construction of Horizontal Soak pit filter for community near Periya Kadaiveethi OHT at V.Kalathur	133000	B3/4171/2020, 04.08.2021
10.	SWM Phase II 15 <sup>th</sup> FC Grant United 2020-21	Construction of Horizontal Soak pit filter for community near Hidayath School at V.Kalathur	133000	B3/4171/2020, 04.08.2021
11.	SWM Phase II 15 <sup>th</sup> FC Grant United 2020-21	Construction of Horizontal Soak pit filter for community near Rayappa Nagar Elementary School at V.Kalathur	133000	B3/4171/2020, 04.08.2021
12.	SWM Phase II 15 <sup>th</sup> FC Grant United 2020-21	Construction of Horizontal Soak pit filter for community near west Duraipadu Milath Nagar in V.Kalathur	133000	B3/4171/2020, 04.08.2021
13.	SWM Phase II 15 <sup>th</sup> FC Grant United 2020-21	Construction of Horizontal Soak pit filter for community near Indhira Nagar OHT at V.Kalathur	133000	B3/4171/2020, 04.08.2021
14.	SWM Phase II 15 <sup>th</sup> FC Grant United 2020-21	Construction of Horizontal Soak pit filter for community near Panchayat office building at V.Kalathur	133000	B3/4171/2020, 04.08.2021

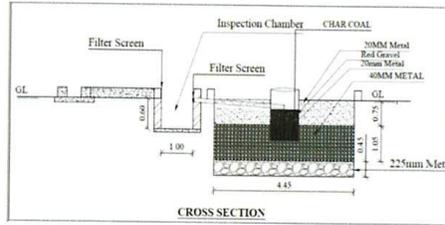
The dimension of the horizontal and vertical soak pits and photographs of the completed soak pits in V.Kalathur are given below:-

**COMMUNITY SOAK PITS  
HORIZONTAL FILTER TYPE**



Dimensions: 4.46 m(L) x 3.46 m(B) x 1.45 m (D)

**Community soak Pit - Vertical Filter**



Dimensions: 4.46 m (Diameter) x 2.25 m (Depth)



**Construction of Horizontal Soak pit in Vannarampoondi – Sengamalar Kovil in V.Kalathur Village Panchayat**



**Construction of Horizontal Soak pit near Anganwadi in V.Kalathur Village Panchayat**

The technical aspects of the individual household soak pits, Vertical and Horizontal soak pits are given below. Their suitability and adaptability is also discussed.

### SOAK PIT MODELS & SUITABILITY

Model	Suitability
<b>Individual Household Soak Pits</b>	Suitable for managing grey water at Individual Household Level.
<b>Community Soak Pits for Common Places</b>	GWM Structures put up in places prone for water stagnation like Public Fountains, Hand Pumps, OHTs etc., and also for Clusters where there is no space for the construction of Individual HH Soak pits.
<b>Community Soak Pit Horizontal Filter type</b>	Constructed at disposal point of drainage systems. Suitable for Clusters with high Ground water table areas. The treated grey water can be used for agriculture purposes.
<b>Community Soak Pit Vertical Filter type</b>	Constructed at disposal point of drainage systems. Suitable for Clusters with low water table areas.

#### 4. Monitoring & Evaluation

These projects are designed to dispose off the grey water into the ground with suitable technically viable systems with sustainable lifetime. Soak pits were sanctioned assessing the requirement and suitability of the field condition. Successful completion of the structure will result in clean environment; no stagnation of water in streets; no discharges of untreated water into water body including the Kallar river. The prolonged stagnation of water in low lying areas, areas without proper disposal systems will be benefitted. As stagnation of waste water is prevented, the vector borne disease will also be prevented.

The Village Panchayat will continuously monitor the working condition of the infrastructure now being created. Panchayat will ensure the sustainability of these projects and ensure that no untreated water is discharged in water bodies. The district administration and block officials will give suitable technical advice and sanction required infrastructure within the ambit of the guidelines and financial limitations on priority basis to V.Kalathur Panchayat.

  
**District Collector,  
Perambalur.**

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18.12.21