

Concept Note of Leach Pit with Washing Platform

Concept Note: Leach pit with washing platform to ensure greywater management .

Village: Kapura , Gram Panchayat Gothra , Block Karahal , District Sheopur , Madhya Pradesh

Implementing Agency:- WaterAid India & Gram Panchayat Gothra

Total families in the village : 89 Households , total population 300

Budget Code:- IN187-B.3.4-PR-Scaleup Greywater

1. Introduction - Management of domestic wastewater (greywater) is a serious challenge in rural and semi-urban areas. Untreated wastewater often accumulates in open stagnant water sources, causing environmental degradation, foul odors, and breeding grounds for disease-carrying germs such as mosquitoes.

A leach pit (soak pit) is an economical, decentralized, and environmentally sustainable solution designed to safely dispose of greywater by letting it percolate naturally into the ground.

- **2. Objectives** - Safe Disposal: To ensure safe collection and disposal of domestic wastewater.
- Health and sanitation: Eliminate waterlogging, thereby reducing the risk of waterborne diseases and malaria/dengue.
- Groundwater recharge: To promote natural filtration and revive local groundwater levels.
- Community awareness: Encouraging community participation in liquid waste management (LWM) under initiatives like Swachh Bharat Mission (Gramin).

3. Technical Specifications & Design - A standard leach pit is an underground structure designed to facilitate the absorption of liquid waste into the surrounding soil.

Parameters Specifications (Standard Household Sizes)-

size	Spherical (better for structural stability)
Diameter	1.0 meter to 1.2 meter
depth	1.5m to 1.8m (depending on water level)

layer	Honeycombed brickwork (without mortar in the joints) or perforated concrete rings
cover	Precast RCC slab with manhole for inspection

modus operandi - Inflow: Wastewater from the kitchen and bathroom passes through the grease/silt trap to remove solid particles and oils.

Percolation: Stagnant water enters the leach pit through an inlet pipe.

Natural Filtration: Water slowly percolates through the honeycombed brick walls and stone aggregate into the surrounding soil.

Purification: Soil particles and natural microorganisms purify the water as it percolates downwards, ultimately recharging the aquifer.

4. Expected results and benefits –

Clean Environment: Complete elimination of sludge and stagnant water from village roads.

Low Maintenance: It requires minimal care and lasts for years without any major intervention.

Economical: Built using locally available materials (bricks, stones) and local labour.

Ecological Balance: Contributes directly to water conservation by returning used water back to nature.

5. Implementation Strategy and Budget-

The project will be implemented in various phases:

- **Step 1:** Site Selection and Survey: Identify homes that generate high volumes of wastewater and have suitable soil permeability (avoid areas with heavy clay soils or high water tables).
- **Step 2: Construction:** Employ local masons to dig pits and construct according to technical designs.
- **Step 3:** Monitoring and Maintenance: Educate beneficiaries to avoid dumping solid waste, plastic or heavy chemicals into the pit.

7. Conclusions-

Implementing leach pits is a highly comprehensive and efficient way to achieve total sanitation. It aligns perfectly with national rural development goals, preventing

wastewater from becoming a health hazard and converting it into a valuable groundwater resource.

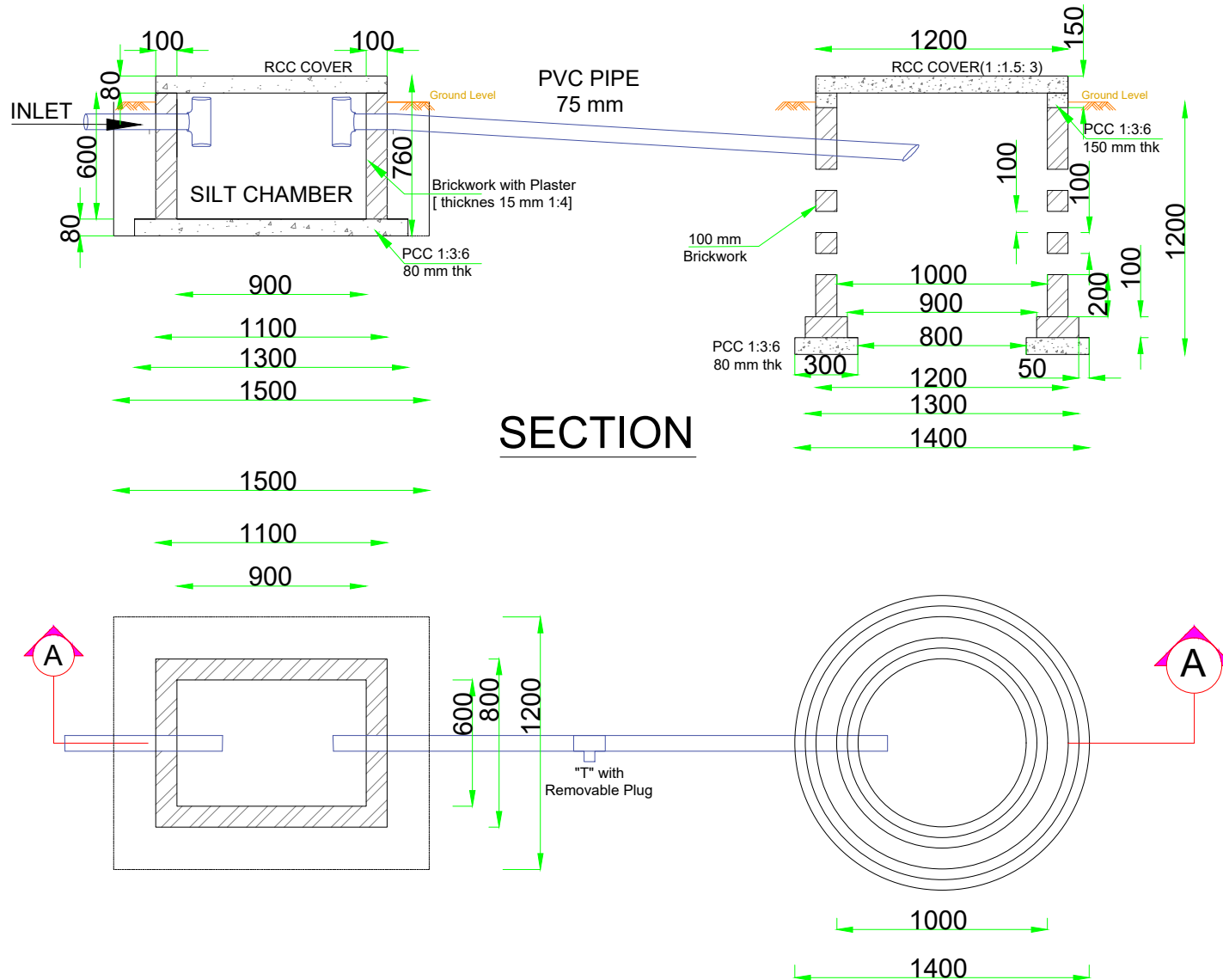
Please send in your quotation addressed to **Jal Seva Charitable Foundation and the quotation should reach to us latest by 14th October 2026 to email address WAIProcurementMP@wateraid.org**

Quotation should be in your firm letterhead with sign and seal.

Attached is the format for submitting your quotation along with drawing and design of structure.

Along with the quote, please share the below documents as well (without this we will not be in a position to consider your quotation):

1. GST registration certificate and also the GST declaration of last two years **(if applicable)**
2. Bank detail (Cancel Cheque Copy)
3. PAN Card (Copy)
4. Aadhar Card (Copy)
5. Documents supporting experience of similar kind of work



SECTION

NOTES

- All dimensions are in 'mm' unless mentioned otherwise.
- All dimensions are checked and co-related with the architectural drawings and any discrepancy or omission shall be brought to the notice.
- This is the property of WaterAid India & is not to be copied or produced anywhere without their permission.
- On site any changes please contact WaterAid India.
- The structural component and BCC prepared considering road level at (+100.00).
- EGL = Existing Ground Level
- FGL = Finished Ground Level
- HFL = High Flood Level
- IL/OL = Inlet level/Outlet Level.
- Only Sulphate Resistance Cement (SRC) to be used for all concrete and plastering applications.
- Pipe invert in wall to be embedded in PCC 1:2:4
- 'R' indicates Register.
- 'IC' indicates Inspection Chamber.
- 'IDC' indicates Inlet Distribution Chamber.
- 'ODC' indicates Outlet Distribution Chamber.
- All Plastering must be Mixed with water proofing agent.
- All water treatment structure to be checked for water leakages.
- All reinforcement shall be terminated inside the structure and shall not be protruding outside.
- Structure drawing shall supersede design drawing for any mismatch.
- All foundation and structure to be erected on well compacted earth with proctor density of 95%.

REVISIONS

DATE	REMARKS	SIGNATURE

TITLE:

LeachPit & Silt Chamber

DRG No: D/Leachpit/01

PROJECT TITLE:

Construction of HH Level Level Leachpit for PWSS Standpost atKapoor, Gothra, Karahal, Sheopur (M.P.)

ONLY FOR REFERENCE

CLIENT:

Jal Seva Charitable Foundation (JSCF)
Associate Member of WaterAid International

DRAWN BY	REVIEW BY	APPROVED BY
DATE	DATE	DATE

Single-Standpost

