

# SIHI POND PROFILING

## PHYSICAL DESCRIPTION

Name of water body	Sihi
Location	Sihi village, Block – Gurugram
Latitude & longitude	<b>28°39'98.73" N and 76°96'48.47" E.</b> 
Area of water body	3.7 Acre

Site view of the water body



Maximum depth NA

Mean depth NA

Type of water body Garbage Dump

Current status Dry

- Dry
- Encroached
- Polluted

Source of water inflow

- Rainfall
- Runoff
- River
- Drain(covered)
- Open drains
- Waste water drain
- Treated waste water from STP
- Others (specify)

No water inlet source

Is there any outflow from the water body. If any, describe No

Water level Changes (annual) in meters NA

Are there any river/canal/major open drain passes within a radius of 5-10 km of the water body? If so, outline the nature of their flow and distance from the water body.	No drain
Groundwater level (Pre-monsoon and Post-monsoon)-	
Does the water dry out completely? <ul style="list-style-type: none"> <li>• Every year</li> <li>• During summer</li> <li>• Rarely</li> </ul>	Dry throughout the year
Catchment area of the water body in sq.km	
Land use of the catchment area <ul style="list-style-type: none"> <li>• Urban</li> <li>• Agriculture</li> <li>• Forest</li> <li>• Mining</li> </ul>	Catchment area of the water body is <b>urban village</b> having <b>plain topography</b>
Total Population	514
Is the water body used by animals for drinking and bathing?	No
Type of flora fauna found around the water body	There is presence of mostly <b>kikar, reeds and neem</b> in surrounding areas.

Geo tagged image of water body



Ownership of land	MCG
Khasra number	78
Landscaping around water body	
Free space around water body	NA
Can the water body be used as active urban/public space	Yes, the site can be used as urban/public space.
Are there any construction activities going on near the water body	There's construction of high rise residential buildings going on near the water body

## FUNCTIONS OF WATER BODY

Is the water body used for : <ul style="list-style-type: none"> <li>• Drinking</li> <li>• Agriculture</li> <li>• Horticulture</li> <li>• Fisheries</li> <li>• Others</li> </ul>	None
Functions of water body: <ul style="list-style-type: none"> <li>• Groundwater recharge</li> <li>• Flood mitigation</li> <li>• Tourism</li> <li>• Support biodiversity</li> </ul>	NA

<ul style="list-style-type: none"> <li>Influence on microclimate</li> <li>Socio cultural</li> <li>Aesthetics</li> </ul>	
---	--

## MAJOR PROBLEMS

<p>Major problems:</p> <ul style="list-style-type: none"> <li>Reduction in area</li> <li>Reduction in depth</li> <li>Encroachment</li> <li>Algal bloom</li> <li>Aquatic weeds</li> <li>Decline or loss of fisheries</li> <li>Eutrophication</li> <li>Organic pollution</li> <li>Toxic pollution</li> </ul>	<p>The major problem associated with the water body is <b>garbage dumping</b>.</p>
--	--

## SOURCE OF POLLUTION

<p>Does solid waste dumping takes place near the water body? (Organic/Non-Biodegradable)</p>	<p>Direct dumping of solid waste can be seen.</p>
<p>Solid waste disposal in water body (religious offering/idol immersion)</p>	<p>Not used for any religious purpose.</p>
<p>Source of pollution in water pollution</p> <ul style="list-style-type: none"> <li>Municipal waste</li> <li>Industrial effluent</li> <li>Organic waste</li> <li>Non biodegradable waste</li> <li>Solid waste</li> <li>In pond human activity</li> </ul>	<p>Non biodegradable waste.</p>

<ul style="list-style-type: none"> <li>• Cattle wadding</li> <li>• Agriculture runoff</li> </ul>	
Nutrient level in water body <ul style="list-style-type: none"> <li>• Negligible</li> <li>• Low</li> <li>• High</li> <li>• Very high</li> </ul>	NA

## REMEDIAL MEASURES

Are local communities aware of the problem of water body	<b>Yes</b>
Are local communities interested in the restoration	<b>yes</b>
Any measures taken in past to restore the water body	<b>No</b>
Are there active local conservation group or NGO interested/involved in the water body	<b>No</b>
Is it possible to source good quantum of rainwater/treated water for maintaining water level throughout the year	Yes, abetting high rise residential society
Restoration activities require: <ul style="list-style-type: none"> <li>• Improvement of water quality by in-situ treatment</li> <li>• Diversion and treatment of sewage waste</li> <li>• Desiltation for removal of toxic sediments</li> <li>• Weed removal</li> <li>• Catchment treatment to check erosion</li> <li>• Confinement of pond land</li> </ul>	<ul style="list-style-type: none"> <li>• Connecting sewage to STP and then introducing water in the pond.</li> <li>• Diverting rainwater runoff.</li> <li>• Boring/wells.</li> </ul>