

GHATA 1 POND PROFILING

PHYSICAL DESCRIPTION

Name of water body

Ghata 1

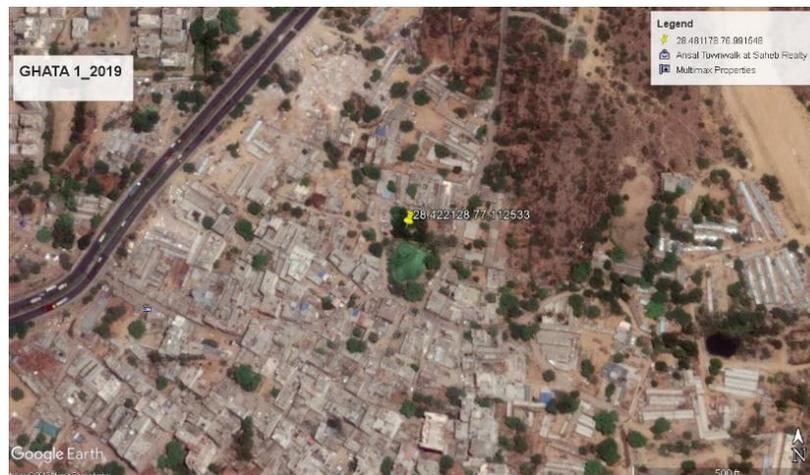
Location

Ghata village near govt school, Block – Gurugram



Latitude & longitude

28°42'21.28" N and 77°11'25.33" E.



Area of water body	2.23 Acre
Site image	
Maximum depth	
Mean depth	
Type of water body	Natural
Current status <ul style="list-style-type: none"> • Dry • Encroached • Polluted 	Currently, the pond is polluted due to continuous discharge of municipal waste from the village.
Source of water inflow <ul style="list-style-type: none"> • Rainfall • Runoff • River • Drain(covered) • Open drains • Waste water drain • Treated waste water from STP • Others (specify) 	Source of water/ inflow in the pond is rainwater runoff and municipal waste from the households

Is there any outflow from the water body. If any, describe	During rainy season there is no outflow of the water from the pond
Water level Changes (annual) in meters	There is approximately 1 to 1.5 meters of the fluctuation in pond water level during the summer and the winter seasons.
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.	There is a major drain running at a distance of 250m .
Groundwater level (Pre-monsoon and Post-monsoon)-	
Does the water dry out completely? <ul style="list-style-type: none"> • Every year • During summer • Rarely 	During the summer season and when the rainfall is lower than the expected, pond does not gets dry out completely.
Catchment area of the water body in sq.km	
Land use of the catchment area <ul style="list-style-type: none"> • Urban • Agriculture • Forest • Mining 	Catchment area of the water body is urban village having hilly topography
Total Population	2128
Is the water body used by animals for drinking and bathing?	The pond has been used for religious purposes earlier as a temple is abetting, but due to regular discharge of sewage , the pond now acts as a collection pond for sewage water .
Type of flora fauna found around the water body	There is mostly keekar present all around.

Geo tagged image of water body	
Ownership of land	MCG
Khasra number	69
Landscaping around water body	The pond is surrounded roads on three sides and temple on one side. The pond is partly encroached on one side which is used for parking. There's boundary wall on one side.
Free space around water body	NA
Can the water body be used as active urban/public space	Yes, the water body can be used as urban/public space.
Are there any construction activities going on near the water body	There's no construction going on near the water body.

FUNCTIONS OF WATER BODY

Is the water body used for : <ul style="list-style-type: none"> • Drinking • Agriculture • Horticulture • Fisheries • Others 	None
Functions of water body: <ul style="list-style-type: none"> • Groundwater recharge • Flood mitigation • Tourism • Support biodiversity 	Currently, water body is used only for collection of waste generated from the village and also act as main source of ground water recharge and flood mitigation . It can also

<ul style="list-style-type: none"> • Influence on microclimate • Socio cultural • Aesthetics 	<p>support biodiversity, influence microclimate, socio-cultural and aesthetic.</p>
---	---

MAJOR PROBLEMS

<p>Major problems:</p> <ul style="list-style-type: none"> • Reduction in area • Reduction in depth • Encroachment • Algal bloom • Aquatic weeds • Decline or loss of fisheries • Eutrophication • Organic pollution • Toxic pollution 	<p>The major problem associated with the water body is reduction in depth of the water, encroachment, reduction in area, organic pollution, eutrophication, which cause the decline or loss of aquatic life in the water body.</p>
--	--

SOURCE OF POLLUTION

<p>Does solid waste dumping takes place near the water body? (Organic/Non-Biodegradable)</p>	<p>No direct dumping of solid waste can be seen near the water body.</p>
<p>Solid waste disposal in water body (religious offering/idol immersion)</p>	<p>Since the pond is located inside the village and has continuous discharge of sewage waste it is not used for any religious purpose.</p>
<p>Source of pollution in water pollution</p> <ul style="list-style-type: none"> • Municipal waste • Industrial effluent • Organic waste • Non biodegradable waste • Solid waste 	<p>Municipal waste, organic waste.</p>

<ul style="list-style-type: none"> • In pond human activity • Cattle wadding • Agriculture runoff 	
<p>Nutrient level in water body</p> <ul style="list-style-type: none"> • Negligible • Low • High • Very high 	<p>Due to continuous discharge of the sewage nutrient level i.e., eutrophication, organic pollution and water hycinth is very high in the water body.</p> 

REMEDIAL MEASURES

Are local communities aware of the problem of water body	Yes
Are local communities interested in the restoration	yes
Any measures taken in past to restore the water body	No
Are there active local conservation group or NGO interested/involved in the water body	No

<p>Is it possible to source good quantum of rainwater/treated water for maintaining water level throughout the year</p>	<p>Not required</p>
<p>Restoration activities require:</p> <ul style="list-style-type: none"> • Improvement of water quality by in-situ treatment • Diversion and treatment of sewage waste • Desiltation for removal of toxic sediments • Weed removal • Catchment treatment to check erosion • Confinement of pond land 	<ul style="list-style-type: none"> • Improvement of water quality by in-situ treatment by diverting the sewage into the STP which can be built near the water body. • Catchment treatment to check erosion • Confinement of pond land