

TIGRA POND PROFILING

PHYSICAL DESCRIPTION

Name of water body	Tigra
Location	Tigra village near community centre, Block – Gurugram
Latitude & longitude	28°41'81.16"N and 77°07'36.13"E. 
Area of water body	2.0 Acre

Site view of the water body



Maximum depth	NA
Mean depth	NA
Type of water body	Natural
Current status <ul style="list-style-type: none"> • Dry • Encroached • Polluted 	Currently, the pond is dry
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
Is there any outflow from the water body. If any, describe	During rainy season there is no outflow
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.	There is badshahpur drain running at a distance of 350m
Groundwater level (Pre-monsoon and Post-monsoon)-	
Does the water dry out completely? <ul style="list-style-type: none"> • Every year • During summer • Rarely 	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"> • Urban • Agriculture • Forest • Mining 	Catchment area of the water body is urban village plain topography
Total Population	1326
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 kikar, and neem in surrounding areas.

Geo tagged image of water body



Ownership of land	MCG
Khasra number	42
Landscaping around water body	
Free space around water body	1000sqm
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 	NA

<ul style="list-style-type: none"> Influence on microclimate Socio cultural Aesthetics 	
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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 there is no enough inflow of water.</p>
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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 not be seen near the water body.</p>
<p>Solid waste disposal in water body (religious offering/idol immersion)</p>	<p>NA</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 In pond human activity 	<p>NA</p>

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

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
Is it possible to source good quantum of rainwater/treated water for maintaining water level throughout the year	Yes, abetting residential society and overflow of drain
Restoration activities require: <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"> • Diverting sewage water into pond through STP. • Diverting rainwater runoff into the pond. • Boring/well