

# Detailed Information Sheet: Berkad

Metadata reference

Definition: A berkad is a manmade cistern to store run off water. Typically it is sunk into the ground and made of stone/brick wall and plastered to minimize water leakage.

## Data Management

Date	<input type="text"/>	Inspected by	<input type="text"/>
Entry Agency	<input type="text"/>	Inspecting Agency	<input type="text"/>

## Location

Region	<input type="text"/>	District	<input type="text"/>
Source name	<input type="text"/>	GPS Make and Model	<input type="text"/>
North	<input type="text"/> °	Positional accuracy	± <input type="text"/>
East	<input type="text"/> °	Distance to nearest settlement	<input type="text"/> km
Elevation	<input type="text"/> masl	Nearest settlement name	<input type="text"/>
Users	<input type="checkbox"/> Rural <input type="checkbox"/> Urban <input type="checkbox"/> Nomadic	Municipal Code	<input type="text"/>

## Function and Use

<b>Functioning</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Abandoned	<i>Notes: general condition, repairs required etc.</i>
<b>Operator</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	
<b>Permanent Use</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	

Humans	Gu	<input type="text"/> Number	Hagaa	<input type="text"/> Number	Deyr	<input type="text"/> Number	Jilaal	<input type="text"/> Number
Sheep/goats	Gu	<input type="text"/> Number	Hagaa	<input type="text"/> Number	Deyr	<input type="text"/> Number	Jilaal	<input type="text"/> Number
Camel	Gu	<input type="text"/> Number	Hagaa	<input type="text"/> Number	Deyr	<input type="text"/> Number	Jilaal	<input type="text"/> Number
Cattle	Gu	<input type="text"/> Number	Hagaa	<input type="text"/> Number	Deyr	<input type="text"/> Number	Jilaal	<input type="text"/> Number
Irrigated area	Gu	<input type="text"/> ha	Hagaa	<input type="text"/> ha	Deyr	<input type="text"/> ha	Jilaal	<input type="text"/> ha

Distance to nearest permanent source	<input type="text"/> km	General condition	<input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor
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Description of nearest permanent source	<input type="text"/> e.g. name, coordinates, source type, etc.	Sanitary Condition	<input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor
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<b>Number of other Water Sources in the Area</b>			
Berkad	<input type="text"/> Number	Borehole	<input type="text"/> Number
Dam	<input type="text"/> Number	Spring	<input type="text"/> Number
Dug Well	<input type="text"/> Number	Other	<input type="text"/> Number

Environmental condition	<input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor
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Intervention required?	<input type="checkbox"/> Develop <input type="checkbox"/> Improve <input type="checkbox"/> Rehab <input type="checkbox"/> None
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<b>Last intervention?</b>	Agency	Date
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Number of settlements served by source?	<input type="text"/> Number	Source Established?	Agency	Date
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**Physical parameters**

No. of berkads in cluster

Catchment area  m<sup>2</sup>

Reservoir Capacity  m<sup>3</sup>

Reservoir dimensions 

Depth <input type="text"/> m	Length/Radius <input type="text"/> m	Width <input type="text"/> m
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Silt trap?  Yes  No

Filter?  Yes  No

Supply chamber?  Yes  No

Fencing?  Yes  No

Roof?  Yes  No

**Water Characteristic**

EC @ 25°C  ±  μS/cm

EC meter 

Calibration date <input type="text"/>	Make and model <input type="text"/>
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pH

pH meter 

Calibration date <input type="text"/>	Make and model <input type="text"/>
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Temperature  °C

Turbidity  NTU

E.Coli  MPN/100ml

Colour

Smell

Taste

Additional chemical analysis available?  Yes  No

Analysis source?

**Supply & distribution**

Supply system condition?  None  Good  Fair  Poor

Engine room condition?  None  Good  Fair  Poor

Storage tank condition?  None  Good  Fair  Poor

Storage tank capacity  m<sup>3</sup>

Pipeline delivery length  m

Taps/outlets  Number

Kiosks  Number

Animal troughs  Number

Tankering points  Number

Water lifting technology  Submersible  Surface  Mono  Handpump  Bucket & Windlass

Pump 

Make <input type="text"/>	Model Number <input type="text"/>	Serial Number <input type="text"/>	Date installed <input type="text"/>	Rated Delivery <input type="text"/>	Head <input type="text"/>
				m <sup>3</sup> /s	m

Prime Mover  Petrol  Diesel  Electric  Solar panel  Wind turbine

Engine 

Make <input type="text"/>	Model Number <input type="text"/>	Serial Number <input type="text"/>	Date installed <input type="text"/>	Engine output <input type="text"/>	W
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Generator 

Make <input type="text"/>	Model Number <input type="text"/>	Serial Number <input type="text"/>	Date installed <input type="text"/>	Generator output <input type="text"/>	kVA
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**Source Management**

Owner?  Private  Community  Other

Management Committee?  Yes  No

Cost per unit			
Tanker	<input type="text"/> \$/m <sup>3</sup>	Camel	<input type="text"/> \$/100
Jerrican	<input type="text"/> \$/l	Cattle	<input type="text"/> \$/100
Drum	<input type="text"/> \$/l	Sheep/goat	<input type="text"/> \$/100