



FORM A1

WATER RESOURCE ACT

(Cap.72:03)

WATER RESOURCES REGULATIONS, 2017

APPLICATION FOR A WATER ABSTRACTION PERMIT

SURFACE WATER APPLICATION

To be completed in triplicate.

Depending on the nature of the existing use, you also have to complete Part A (*Domestic*), B (*Public*), C (*Industrial*), D (*Irrigation*), E (*Power generation*), F (*Dam Construction*) or G (*Other purposes*).

1. Names and addresses of client

Name	
Address	
District	
Telephone	
Mobile Phone	
Fax	
Email	

2. Land requiring water

Name of landowner where

(i) the works exist _____

(ii) use of water exist _____

Address of landowner if different from (1) above

Property regime of land- () Customary () Leasehold () Freehold [*✓ tick one which is appropriate*]

If leasehold, indicate: Plot No. _____

If freehold, indicate: Plot No. _____

Location of land where works is situated _____

Location of land where use of water is taking place _____

Village: _____ Traditional Authority: _____

Area of that land: _____ (hectares)

3. Source of water

Select the source of water [✓ tick one which is appropriate]

() River () Lake () Brook () Dam () Stream () Lagoon () Ditch () Swamp () Wetland () Other (please specify): _____

Name of the source of water: _____

Exact Name where the water was diverted, stored or used: _____

Coordinates (in UTM format): _____

District where the water uptake is located (when applicable): _____

(Attach a topographic map 1:50,000, indicating location of the intake works.)

4. Quantity (m³/day) and Use of water

(✓ Tick one or more in boxes as appropriate)

✓ tick	Use of Water	Quantity (m ³ /day)
	Irrigation	
	Livestock	
	Urban domestic	
	Rural domestic	
	Industrial	
	Fisheries services	
	Power generation	
	Recreational	
	Other (please specify)	
Total Volume		

5. Technical details of the works

5.1 Diversion

(a) Canal

Width at bottom _____ (m) Width at full supply level _____ (m)

Depth of water at full supply level _____ (m) Length _____ (m)

Gradient _____ Average velocity _____ (m/s)

Estimated discharge at full supply depth _____ (m³/day)

Materials of which canal is constructed _____

Name of land affected (if any) _____

Name of its owners and occupiers _____

(b) Pipe

Internal diameter _____ (mm) Length _____ (m)

Hydraulic gradient _____ Pipe thickness _____ (mm)

Description of pipe material _____

(c) Any other structures

Any other relevant details

Do any canals, pipes or structures affect another person's land? Yes No

If so, name of land affected _____

Name of its owners and occupiers _____

How do you measure the volume of water used? _____

What type of measuring equipment has been installed? _____

5.2 Pump

Type of pump

Centrifugal Submersible Other (specify) _____

Means of Power

Solar Electricity Manual Other (specify) _____

Brake horsepower of machine _____ BHP

Internal diameter of suction main _____ (mm)

Maximum height of suction _____ (mm)

Length of suction pipe _____ (mm)

Height to which the pump will lift the water _____ (m)

Internal diameter of delivery pipe _____ (mm)

Length of delivery pipe _____ (m)

Pumping hours per day _____

Quantity of water pumped when plant is working _____ (m³/day)

6. Other information

Is the water used, in any way which increases silt, gravel or other solids in the water source, or makes it likely to harm people, animals, fish, crops or gardens?

Yes No

If "Yes" are there any remedial or preventative measures to reverse or reduce the negative impacts above?

Give details of any other water permits relating to the same land as this application

When did the use of water applied for begin? _____

(Attach your development plan)

For how long will you require a water permit? _____

Declaration of the Applicant

I certify that the information provided in this form is correct to the best of my knowledge. I also agree that no decision will be made pursuant to this application until I receive a notification from the Authority that I have provided all the necessary information.

Signature of Applicant: _____

Full names: _____ Date _____

Note: When you have completed this form and the appropriate attachments, you must attach a copy of bank deposit slip amounting to _____ Kwacha for processing the application and send them to:

The Executive Director, National Water Resources Authority, Private Bag 363, Lilongwe 3, Telephone: +265 (0) 111 647 907 , Email: nwrasec@gmail.com

The Authority may advertise this application at your cost in a way specified by the Authority.

For Official Use Only

Date of receipt of the application: _____

Application number: _____

Name of the officer receiving the application: _____

Designation: _____

Signature: _____

Official stamp: _____

Part A-Domestic purposes

How much water is used for each or any of the following purposes?

Category of Use/Purpose	Quantity required (m ³ /day)
1. Household and sanitary use (include the following details) No. of low density houses No. of occupants of medium density houses No. of occupants of high density houses.....	
2. Stock watering (include the following details)	

No. of large stock.....	
Type of large stock	
No. of small stock.....	
Type of small stock.....	
3. Cattle, Sheep and goats, pigs, poultry, donkey	
No. of animal dip	
4. Other non-industrial farming operations (please describe)	
Total volume	

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Part B-Public purposes

1. How much water is used for each or any of the following purposes?(cubic metres per day)

Purpose	Quantity required present (m ³ /day)	Quantity required in 5 years (m ³ /day)
(a) Municipal, urban or community purposes or supply to others in return for payment		
(b) Any other purposes (specify)		
(c) Total water required for public purposes		

2. If water is used for purposes mentioned in paragraph 1(a) of this Part, please provide the following estimates:

Population Estimate Category	Low Density Area No. of houses	Medium Density Area No. of occupants	High Density Area No. of occupants
Estimated population at present			

Estimated population 5 years hence			
Estimated population 10 years hence			
Estimated population 20 years hence			

3. If water is used for purposes mentioned in paragraph 1(b) of this Part, to what use is the water to be put? _____

4. Does the applicant supply water to any other person, in return for payment? _____

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Part C-Industrial purposes

State the quantity of water required in appropriate space

Purpose	Quantity (m ³ /day)	Normal working hours for the factory in a day	Max working hours for the factory in a day	Period during year when water is required
Stream raising, cooling and condensing water				
Manufacturing -Process water -Dilution of effluent				
Coffee pulping and washing				
Other purposes (specify)				
Total water required				

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Part D-Irrigation purposes

Please provide the following information

(a) Crops irrigated (name), area of each (hectares) and the growing season (name months)

Crop Name	Area (hectares)	Growing Season	
		From (month)	To (month)

(b) Mean quantity of water in cubic metres per day

Jan _____ Apr _____ Jul _____ Oct _____

Feb _____ May _____ Aug _____ Nov _____

Mar _____ Jun _____ Sep _____ Dec _____

(c) What type of soil is irrigated? _____

(d) Is the subsoil permeable to drainage? _____

(e) Describe what drainage works are constructed on the irrigated land.

(f) How is unused water disposed of? _____

(g) Name the water source to which it is returned: _____

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Part E-Use of water for power generation

Please provide the following information—

(a) Purpose for which power is used _____

(b) Brake horsepower developed—

(i) Maximum _____ (BHP), _____ (kW)

(ii) Minimum _____ (BHP), _____ (kW)

(c) Gross fall or head available for power production at the following river stages—

(i) at low stage _____ (m)

(ii) at normal stage _____ (m)

(iii) at high stage _____ (m)

(Only answer items (i) and (ii) if power developed is in excess of 100 BHP)

The net fall or head used in (b) above _____ (m)

The water required to develop (b) above _____ (m³/day)

Type of machines installed _____

Number of machines installed _____

How is water returned to its source after use? _____

State length of any return channel _____ (m)

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Part F-Construction of dam

1. Please provide the following information for all dams—

(a) Nature of stream bed at site (e.g., sound rock, fissured rock, sand) _____

(b) Nature of walls of river at site (e.g. sand, soil) _____

(c) Will dam be founded on sound rock? _____

(d) Will dam be founded on any material which may be eroded by underflow? _____

(e) Describe type of dam (e.g., earth with core wall, concrete, masonry) _____

(f) Length of crest of dam (m.) _____ Maximum height of dam (m.) _____

Thickness at crest (m.) _____ Thickness at base (m.) _____

(g) Estimated area of reservoir at spillway (ha.) _____

(h) Estimated reservoir storage capacity (m³) _____

(i) Will the submerged area at high flood level be on another person's land?

(If so, give the name of other landowners) _____

(j) Is either bank of the stream at the site of dam owned by another person?

(If so, give the name of other land owners) _____

(k) Will any other works including weirs, already constructed or being constructed, be affected by the head and/or tail water level of the proposed works? (If so, give full details of the works affected)

2. If the dam exceeds 70,000 cubic metres in volume or 5 metres in height, please provide the following information about its catchment area

(a) Area of surface catchment (km²) _____

(b) Maximum length of catchment (km.) _____

(c) Average breadth of catchment (km.) _____

(d) General/average/dominant slope of catchment (fall per km.) _____

(e) Nature of ground of catchment (e.g., rocky, stony soil, clay soil) _____

(f) Vegetation of catchment (e.g., forest, shrub, pasture, crop) _____

3. Please provide the following information about means of disposing of flood waters

(a) Will the dam act as a weir? () Yes () No

(b) Will there be bypasses or waste weirs on one or both flanks? _____

(c) State the width and depth of the bypasses below the crest of the dam

Width (m.) _____ Depth (m.) _____

(d) If bypasses or waste weirs are to be constructed, state nature of material in which they will be excavated _____

(e) State maximum capacity of the weir (m³/sec.) _____

(f) State nature of material to be used for lining the bypasses or waste weir(s) _____

(g) Gradient of waste weir _____

If you propose to use some other method to dispose of flood waters, please give details.

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Part G-Other purposes

Describe the amount of water that you will require for any other purposes.

Purpose (specify below)	Quantity (m ³ /day)

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