



EKITI STATE WATER AND SANITATION REGULATORY AGENCY (EK-WASRA)

DRILLING (BOREHOLES) LICENCE AND GROUNDWATER MANAGEMENT REGULATIONS

June, 2021

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In furtherance of the powers conferred on the Ekiti State Water Supply Regulatory Agency pursuant to Section 36 of the Ekiti State Water Supply and Sanitation Law, 2013, the Agency hereby makes the following Regulations

1. Title

This regulation may be cited as drilling (Boreholes) license and groundwater management regulations

2. Interpretation

- a. In these Regulations, unless the context otherwise requires,
- b. "activity" means water well drilling;
- c. "aquifer" means soil or rock medium located beneath the ground surface in which there is a flow of water;
- d. "Commission" means Water Sector Regulatory Commission established under the Water Sector Law;
- e. "defective well" means a well where the abstraction of groundwater has stopped due to reasons that include water quality problems, decline in yield or well collapse;
- f. "drilling contractor" means an individual, company or body of persons licensed by the Commission to construct a water well;
- g. "drilling licence" means a permit to undertake water well drilling construction activity as provided for in regulation 1;
- h. "groundwater" means water found beneath the ground surface which can be abstracted and accessed by digging, mechanized or manual drilling, or by any other method;
- i. "grouting" means the sealing off of an opening beneath ground surface using cement concrete or other impervious material capable of preventing the flow of water across it;
- j. "well" means a point for the abstraction, monitoring or conduct of research on groundwater put in place by a drilling activity;
- k. "well head" means a permanent closure of the top of a well, either by a pump or other top which is specified for the casing diameter and which cannot be removed easily.
- l. "yield" means potential discharge from a well.

Application

- m. These Regulations shall apply to the well water drillers and groundwater service providers acting in that capacity and any other Person who provides water services to consumers or other water service providers with or without the responsibility to collect any payment / Tariffs that may be due and includes a Water Services Intermediary (hereafter referred to as a Water Services Provider ("WSP"))
- n. Where a conflict occurs between these Regulations and any Technical Codes developed by the Agency, the Technical Codes shall prevail.

Objective

- o. To regulation the drillers of boreholes in order to bring standards and sanity in the drilling of boreholes as well as to prevent destruction of public infrastructures and protect consumers / customers from exploitation.
- p. To protect groundwater resources and safe guard public health by prescribing minimum distances between adjacent boreholes as well as the distance between a borehole and a potential pollution source such as septic tanks and soak ways, landfills, graves etc

Water Well Drilling licence

3. Water well drilling licence

- (1) As from the commencement of the regulation, all water well drillers must be registered and licensed by the Ekiti State Water and Sanitation Regulatory Agency (EK-WASRA) before drilling any household, commercial, or industrial boreholes in Ekiti State.
- (2) A person shall not construct a well for the abstraction, or monitoring of groundwater or for research if that person does not have a drilling licence granted in accordance with these Regulations.
- (3) The water well drilling licence shall be obtained from the Agency on application.

4. Application for water well drilling licence

- (1) An application for a drilling licence shall be
 - (a) made to the EK-WASRA, and
 - (b) in the form specified in the Schedule I.
- (2) Without limiting the effect of subsection (1), the application shall contain the following information:
 - (a) particulars of the applicant;
 - (b) particulars of responsible field personnel of the applicant which shall include
 - (i) list of staff,
 - (ii) qualifications of staff at least one of whom must be able to communicate effectively in the English language,
 - (iii) at least one qualified driller,
 - (iv) at least one qualified hydro-geologist or geologist or a geological technician;
 - (c) list of available plant and equipment indicating
 - (i) the description,
 - (ii) the trademark,
 - (iii) age, and
 - (iv) state of repair;
 - (d) list of drilling activities conducted during the five years immediately preceding the application, indicating
 - (i) the year the activities were undertaken, and
 - (ii) the place where the activities took place, and
 - (e) any other information that the Agency may request.
- (3) The application shall be accompanied with the appropriate administrative and processing fee specified in the Schedule I.

5 Process for application

- (1) The Agency shall
 - (a) acknowledge receipt of the application within one month of receipt of the application for a drilling licence, and
 - (b) inform the applicant in writing of the decision of the Agency within two months after the receipt of the application.
- (2) Where
 - (a) an applicant fails to pay the stipulated administrative and processing fee, or
 - (b) there is an error in the application, the Agency shall notify the applicant in writing within fifteen days after the receipt of the application to rectify the situation.
- (3) If the applicant fails to rectify the situation, the Agency shall
 - (a) not process the application, and

(b) give notice to the applicant of its inability to process the application.

6. Grant of drilling licence

- (1) The Agency shall refuse to grant a licence to an applicant for reasons of
 - (a) public safety, or
 - (b) other reasonable justification.
- (2) A licence granted by the Agency is subject to conditions specified in the licence.

7. Licence register

- (1) The Agency shall keep a register containing the particulars of licences granted and the register may be accessed by the public.
- (2) Extracts from the register may be obtained from the Agency on request and on payment of a fee determined by the Agency.

8. Licence fee

- (1) An applicant who qualifies for a licence shall pay a licence fee in accordance with the categories set out in the Schedule II when the application is processed.
- (2) The fees specified in the Schedule I and Schedule II shall be used to defray the cost of groundwater management and regulation.

9. Duration and renewal of a licence

- (1) A drilling licence shall be for the period specified in the licence, and may be renewed.
- (2) An application for the renewal of the licence shall be made to the Agency not later than thirty (30) days before the expiration of the licence.
- (3) The renewal shall attract the fee specified in the Schedule II.
- (4) Holder of the drilling licence shall pay an annual maintenance fee as specified the Schedule II of this regulation

10. Non-transferability of drilling licence

A person shall not transfer a drilling licence except with the prior approval in writing of the Agency.

11. Withdrawal of drilling licence

The Agency may withdraw a drilling licence where

- (a) the Agency determines that the holder has conducted drilling operations in an unprofessional manner after
 - (i) an investigation has been conducted; and
 - (ii) the holder has been given a hearing about the unprofessional conduct,
- (b) the holder intentionally makes a misstatement of facts in a report required from the holder under these Regulations, or
- (c) the holder fails to comply with the provisions of these Regulations or conditions specified in the licence.

12. Prohibition of construction of well where licence is not renewed

A person who fails to renew a drilling licence issued by the Agency, or whose application for renewal is rejected by the Agency shall not construct or begin to construct a well for

- (a) the abstraction of groundwater,
- (b) the monitoring of, or research into ground water.

13. Appeal

- (1) A person or a drilling contractor aggrieved by the refusal of the Agency to grant or renew a licence may lodge a complaint in writing to the General Manager of the Agency, within thirty days after the decision of the Agency.

- (2) The complainant shall
 - (a) state the nature of the objection or complaint,
 - (b) attach a copy of the decision objected to, and
 - (c) attach the relevant documents for the determination of the complaint.
- (3) The Agency shall take a decision on the complaint within thirty days after receipt of the complaint.
- (4) A person may appeal to the High Court against the decision on a complaint where
 - (a) the person is dissatisfied with the decision, or
 - (b) the Agency fails to act on the complaint within thirty days after the receipt of the complaint.

Construction of well

14. Notice of intention to construct a well

- (1) A drilling contractor shall not construct or begin to construct a well without notice to the Agency of the intention to do so.
- (2) The client shall notify the Agency of the intention to construct a well in instances where a major project is undertaken on behalf of an agency or organisation.
- (3) The notice shall be made using the form "Notice of Intention to Under-take well Construction" specified in the Schedule III.

15. Environmental protection requirements

- (1) A person shall not construct a well in a manner that leads to destruction of public infrastructure, contamination or pollution of groundwater or aquifer.
- (2) A drilling contractor shall in order to avoid contamination of ground water ensure that
 - (a) a well fitted with hand pump is sited at a minimum distance of thirty (30) metres from the known source of real or potential contamination,
 - (b) a mechanised well is sited at a minimum distance of one hundred metres from the known source of real or potential contamination,
 - (c) shallow water whether contaminated or situated in, the overburden or rock is completely sealed off,
 - (d) the minimum requirement for the sanitary seal of two metres of concrete grouting below the ground surface is satisfied,
 - (e) well casing of not less than 0.5 metres above the ground or the floor of the finished pump house or pump pit is maintained if other measures are not taken to prevent direct inflow of surface water into the well,
 - (f) immediately after the construction of the well, the top of the casing is closed with a tight closing or top head,
 - (g) the well is properly sealed with a well head,
 - (h) the platform for a hand pump or the floor in the pump house is constructed in a manner that does not permit water to return to the well,
 - (i) the joints of casing segments are watertight, and
 - (j) other works and activities that the Agency directs for the prevention of contamination and protection of the environment are carried out.
- (3) A person who undertakes construction activity in the nature of
 - (a) manual digging of a pit, or
 - (b) an activity that may result in contact with or access to groundwater shall ensure that the activity is carried out in a manner that avoids contamination or pollution of groundwater or aquifer.
- (4) In these regulations contaminants or pollutants of groundwater include sanitary facilities.

16. Collection of drilling cuttings

A drilling contractor shall collect samples of drilling cuttings at one- metre intervals and in the event of a sudden change in rate of penetration or lithology during drilling.

17. Development of a well

(1) A drilling contractor shall develop a well-constructed by that contractor.

18. Collection and analysis of water samples

- (1) A person who drills a well shall ensure that a water sample is taken, preserved and transported to a laboratory recommended by the Agency for water quality analysis.
- (2) The cost of sampling, transportation and laboratory analysis shall be borne by the person constructing the well.
- (3) The report on water quality to be submitted to the Agency shall contain the information specified in the Schedule IV.

19. Inspection of a well site

- (1) An officer of the Agency authorised by the Agency shall at any reasonable time
 - (a) have access to a well site,
 - (b) inspect a well site and examine the material excavated from the site,
 - (c) take drilling cuttings and samples of water abstracted from the well, and
 - (d) inspect and make copies or extracts of the record required to be kept by the drilling contractor under these Regulations.
- (2) Where a drilling contractor constructs a well on land belonging to, or occupied by another person, the contractor shall be deemed to be the person constructing the well.

20. Well records

- (1) A drilling contractor shall keep records of the progress of work.
- (2) The records shall include
 - (a) location and landmark of the activity site,
 - (b) the Global Positioning System co-ordinates of the activity,
 - (c) geological log certified and signed by a qualified hydro-geologist or geologist or geological technician,
 - (d) the quantity of water first obtained and the depth,
 - (e) the quantity of water obtained at reaching final depth of the well,
 - (f) the size and position of casing and screen,
 - (g) the duration and final yield at the close of the well development,
 - (h) the completion date for drilling, and
 - (i) the identification number of the well which shall be consistent with the national well numbering system.

21. Submission of well records

- (1) Where the drilling activity consists of not more than five wells, the drilling contractor shall within sixty days of the cessation of the construction activity, submit a complete copy of the well records to the Agency.
- (2) Where the drilling activity consists of more than five wells, the drilling contractor shall within ninety days of the cessation of the construction activity, submit a complete copy of the well records to the Agency.
- (3) The well records shall be in relation to
 - (a) wells which are successfully drilled,
 - (b) dry wells, and
 - (c) defective wells.

- (4) The well records shall be submitted together with:
 - (a) information on the development of the wells;
 - (b) results of pumping tests conducted;
 - (c) information on water quality as indicated in the Schedule IV;
 - (d) field test results; and
 - (e) Completion certificate as indicated in schedule V.

22. Abandonment of dry wells

- (1) A dry well or a well that does not produce sufficient water during drilling shall be
 - (a) backfilled to a depth of one metre below the ground level, and
 - (b) grouted with cement.
- (2) Where well records exist in relation to the well, an additional report to the Agency is not required.
- (3) Where an attempt to develop a well fails and a dry well results, the "Notice of Intention to construct a well" shall apply for an alternative well construction.

23. Abandonment of defective wells

- (1) The existence of an abandoned well shall be reported to the Agency.
- (2) The report shall state the precise location of the abandoned well.
- (3) The Agency may issue instructions to the owner of a defective well to abandon the well.
- (4) Where the owner of a defective well fails to comply with the order given by the Agency,
 - (a) the Agency may take the necessary steps to execute the order, and
 - (b) the expenses incurred shall be surcharged to the owner of the well.
- (5) Where a well with an installed casing has to be abandoned,
 - (a) the well shall be back filled to at least one metre below ground surface, and
 - (b) the casing in the unfilled portion shall be removed and effectively grouted with concrete.
- (6) Where differences in water quality occur between two aquifers, the sealing between the aquifers shall be done in a manner to prevent exchange of water between the aquifers.

24. Rehabilitation of defective wells

- (1) Where a well is found to be defective the well shall be rehabilitated by a contractor engaged by the client.
- (2) The Agency shall be notified about the rehabilitation work on a well that involves changes to the well design and this includes
 - (a) backfilling of the lower parts of the well,
 - (b) installation of a new screen or casing, or
 - (c) other construction activity of the well.
- (3) A contractor who undertakes the rehabilitation of a well shall submit a report on the rehabilitation to the Agency and the report shall
 - (a) provide details of the location of the well, and
 - (b) be within the time limits given in 19.

Offences and miscellaneous matters

25. Offences

- (1) A person who carries out or allows the carrying out of well drilling activity for the abstraction of water without a licence from the Agency commits an offence and is liable on summary conviction to a fine of not more than One hundred thousand naira (N100,000.00) or imprisonment for a term of not more than two (2) years or to both.
- (2) A licence holder who conducts drilling activities contrary to the conditions of the licence commits an offence and is liable on summary conviction to a fine of not more than One

hundred thousand naira (N100, 000.00) or imprisonment for a term of not more than two (2) years or to both.

(3) Any person or water well Driller who drills a household, commercial, or industrial borehole not in conformity with the Nigerian Industrial Standard (NIS) Code of Conduct for water well construction, 2010, approved by Standards Organization of Nigeria, commits an offence and is liable on conviction to a fine of not less than One Hundred Thousand Naira (N100,000.00).



SCHEDULE I

EKITI STATE GOVERNMENT																															
WATER AND SANITATION REGULATORY AGENCY APPLICATION FOR WATER WELL DRILLING LICENCE																															
For Official Use Only No: Date Received: LGA:																															
<p>Please you are free to attach additional sizeable sheets of paper where insufficient space is Provided (mark item number for which additional information is given). This form is also available on softcopy on request. The completed form should be returned to EK-WASRA as soon as possible.</p> <p>1. IDENTIFICATION OF THE APPLICANT</p> <p>Please identify the provider of water /and sanitation (delete when not applicable) services in the space provided below accordingly;</p> <p>a) FOR THE COMPANY/APPLICANT INFORMATION</p> <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td colspan="4" style="padding: 5px;">Name:</td></tr><tr><td style="width: 33%; padding: 5px;">Last Name</td><td style="width: 33%; padding: 5px;">First Name</td><td colspan="2" style="width: 34%; padding: 5px;">Middle Initial</td></tr><tr><td style="padding: 5px;">Address</td><td style="padding: 5px;">City</td><td style="padding: 5px;">State</td><td style="padding: 5px;">country</td></tr><tr><td style="padding: 5px;">Phone Number</td><td colspan="2" style="padding: 5px;">Location (shop, office, etc.)</td><td style="padding: 5px;">Email Address</td></tr><tr><td style="padding: 5px;">Country/State</td><td colspan="3" style="padding: 5px;">Position with Company</td></tr><tr><td></td><td style="text-align: center;">Owner <input type="checkbox"/></td><td style="text-align: center;">Partner <input type="checkbox"/></td><td style="text-align: center;">Officer <input type="checkbox"/> Full-time</td></tr><tr><td style="padding: 5px;">NIMC / Passport No.:</td><td style="padding: 5px;">Place of Issue:</td><td style="padding: 5px;">Date of Issue:</td><td style="padding: 5px;">Date of Expiration:</td></tr></table>				Name:				Last Name	First Name	Middle Initial		Address	City	State	country	Phone Number	Location (shop, office, etc.)		Email Address	Country/State	Position with Company				Owner <input type="checkbox"/>	Partner <input type="checkbox"/>	Officer <input type="checkbox"/> Full-time	NIMC / Passport No.:	Place of Issue:	Date of Issue:	Date of Expiration:
Name:																															
Last Name	First Name	Middle Initial																													
Address	City	State	country																												
Phone Number	Location (shop, office, etc.)		Email Address																												
Country/State	Position with Company																														
	Owner <input type="checkbox"/>	Partner <input type="checkbox"/>	Officer <input type="checkbox"/> Full-time																												
NIMC / Passport No.:	Place of Issue:	Date of Issue:	Date of Expiration:																												
<p>B) COMPANY INFORMATION (Required)</p> <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 60%; padding: 5px;">Company Registered Name:</td><td colspan="2" style="width: 40%; padding: 5px;">Registration Number</td></tr><tr><td style="padding: 5px;">Company Type Sole Owner <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation <input type="checkbox"/></td><td style="width: 20%; padding: 5px;">City</td><td style="width: 20%; padding: 5px;">State</td></tr></table>				Company Registered Name:	Registration Number		Company Type Sole Owner <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation <input type="checkbox"/>	City	State																						
Company Registered Name:	Registration Number																														
Company Type Sole Owner <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation <input type="checkbox"/>	City	State																													

Company Address:			
Company Phone Number:		E – mail Address	
Branch Office Address & Phone number:			
Country NIMC / Passport No.:	Place of Issue:	Date of Issue:	Date of Expiration:

(c) **CATEGORY** ☐ Mechanized Drilling ☐ Manual Drilling ☐ Geo-physical survey

(d) **WELL DRILLER CLASSIFICATION**

☐ Individual / Single Proprietorship ☐ Partnership / Corporation/Cooperative

(e) **TYPE OF REGISTRATION**

☐ New

☐ Renewal

(f) **IF RENEWAL**

Registration No: _____ Date Issued: _____

2. CHIEF EXECUTIVE OFFICER OF THE PROVIDER

Please give the details of the chief executive officer of the provider (if under 1. a physical person is named, this person is assumed to be the chief executive officer, and this item can be skipped).

Attach a copy of official documentation (copy of letter of authorization of Community or Ministry) in case the provider is a WCA or EKSG. It is assumed that the business addresses of the person identified here are those stated under 2.

3. EXECUTIVE OFFICER ACTING AS A CONTACT PERSON FOR EK-WASRA

Please identify a physical person among the executives who will act as a contact person for EK-WASRA. EK-WASRA will address all correspondence to that person.

If the person named under 3. Is to be the contact person, please tick the box : ☐

If the person designated here is different from the person named under 3. Give the particulars in the spaces provided below:

First, Middle and family name, identity information	
Function within the provider	
Physical address	Postal / Mailing address
Telephone numbers	
Fax number :	E-mail :

Attach a copy of official documentation (copy of letter of authorization of Community or Ministry) in case the provider is a WCA or EKSG.

4. OWNERSHIP OF THE SERVICE PROVIDER

Please identify all legal owners of the provider (shareholders, capital holder, etc.) (if under 1. physical person is named, this person is assumed to be the legal owner, and this item can be skipped).

To that end state in the space provided below:

- if a physical person, name and identity number
- if a non-physical person (Community, EKSG, body corporate, partnership, association),
- name and company/association incorporation/registration number.

State also the part in the ownership of each of the persons named.

S/ N	Names	NIMC / Passport No. / Incorporation/Registration no.	Part in ownership
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

5. CONTRACTUAL AGREEMENTS ENTERED INTO BY THE PROVIDER

Please identify all major contractual agreements of whatever nature (e.g. management contract, bulk water supply contract, Water Well / borehole drilling etc.) that the provider is at present a party to.

To that end state in the space provided below, one line per agreement, in the following order: the name of the contracted party, the object of the agreement, the amount of the contract, end date of contract.

If any of the owners identified under 4. is also owner or co-owner of a contracted party, please state these owners by adding to the contract information given below the number opposite to the owner's name that figures in the table under 5.

	Name contracted party	(Co)-owner	Object of agreement	Amount of contract	End date of Contract

6. WATER WELL / BOREHOLE DRILLER /GEO PHYSICAL SURVEY EQUIPMENT / MACHINERY/VEHICLE

	Type of Equipment	Capacity	Year of Purchase	Leased or Owned

7. DESCRIPTION OF DRILLING/GEOPHYSICAL SURVEY EQUIPMENT YOU WILL USE, IF YOU ARE LICENSED :

S/N	DESCRIPTION	RESPONSE	
A	Drilling Rig	Make and Model	
		Maximum Capacity (Depth in feet/metre)	
B	Water Tank Truck	Make and Model	
C	If the above listed equipment is owned by someone other than yourself, provide the name, telephone number, and address of the owner:	Name	
		Telephone No	
		Address	
		City	
		State	
		e-mail address	
D	If the equipment you plan to use is not commercially manufactured, attach a detailed description and photograph of the equipment		
E	Other relevant equipment		

8. REFERENCE

Please state the membership of professional body and association (Ensure you attached a duly signed recommendation letter from the association and professional body:

	ASSOCIATION & PROFESSIONAL BODY	STATUS

9. EXPERIENCE RECORD

DESCRIPTION	RESPONSE		
Have you ever been denied a driller's license or had a driller's license		If you checked yes, provide the details including the date and reason the action was taken, and the state in which the action was taken	
How many years' experience do you have in drilling, where you were actually responsible for operating the drilling rig?			
How many drilling projects have you completed in the past five (5) years?			
Of the number included in (c), how many were:	Home wells		
	Industrial wells		
	Public Water Supply wells		
	Irrigation wells		
	Geotech boreholes		
	Ground source heat pump holes		
	Monitoring wells		
	Seismic exploration holes		
	Other (specify)		
What was the depth of the deepest well or borehole you have drilled?			
What was the diameter of the largest well you or borehole you have drilled?			
Are you a licensed driller in another state?		If so, What state?	

(Attach a copy of your current license from the state named above to this application.)

10. APPENDICES AND CERTIFICATION

List hereunder the appendices attached to this form (by checking the appropriate check boxes and completing if necessary) :

- ☐ copy of identity-card or of passport of provider if a physical person named under 1.
 - ☐ copy of identity-card or of passport of chief executive officer of provider named under 3.
 - ☐ copy of identity-card or of passport of contact person named under 4.
 - ☐ copy of articles of association of provider / CAC/Enterprises and Company Profile
 - ☐ copy of letter of Recommendation from Registered Professional Association /Guarantor
 - ☐ copy of present tariff schemes (including charges for first time connections)
 - ☐ copies of maps of all service areas for water
 - ☐ copies of maps of all service areas for sanitation services
 - ☐ Evidence of registration with Ministry of Commerce (Certificate of Business premises)
- other (please specify) :

11. CERTIFICATION

The undersigned (which must be the person identified under 3.) :

Name of the undersigned

Position:

hereby certifies that the information supplied in this form is correct to the best of his knowledge.

Date of signature: _____

Signature of the person named under II Certification:

(Signature)



SCHEDULE II

EKITI STATE GOVERNMENT WATER AND SANITATION REGULATORY AGENCY

WATER WELL DRILLING LICENCE FEES FOR CATEGORIES OF DRILLING

CATEGORIES	DESCRIPTION OF CAT.	TYPE OF REG.	LOCAL FEE (Indigenous) for 5 years.	FOREIGN FEE (for 5 years)
A Underground water abstraction	i) Water Supply – commercial and general purposes (large volume of water)	License	N800,000	-
	ii) Underground water well drilling (Company)	License (practitioner)	N250,000.00	N500,000.00
	iii) Underground water well drilling (Individual)	License (practitioner)	N100,000.00	-
B Hydro physical survey	Hydro physical survey	Permit (Practitioner)	N50,000.00	N100,000.00



SCHEDULE III

EKITI STATE GOVERNMENT													
WATER AND SANITATION REGULATORY AGENCY													
WELL DRILLING PERMIT													
<p><i>Name of Applicant:</i></p> <p><i>Address:</i></p> <p>.....</p> <p><i>Tel:</i></p> <p><i>E-mail:</i></p> <p>No. of wells:</p> <p><i>Location of proposed drilling site(s)/Coordinate(s):</i></p> <p><i>(Use sheet attached if needed)</i></p> <p>Proposed drilling contractor:</p> <p><i>Drilling period:</i> Start: <input style="width: 100px; height: 20px;" type="text"/> <input style="width: 100px; height: 20px;" type="text"/> End:</p> <p>Purpose of Use</p> <table style="width: 100%;"><tr><td style="width: 30%;"><i>Domestic/communal.</i></td><td style="width: 15%;"><input style="width: 100%; height: 20px;" type="text"/></td><td style="width: 30%;"><i>Commercial</i></td><td style="width: 25%;"><input style="width: 100%; height: 20px;" type="text"/></td></tr><tr><td><i>Industrial/mining</i></td><td><input style="width: 100%; height: 20px;" type="text"/></td><td></td><td></td></tr><tr><td><i>Agricultural</i></td><td><input style="width: 100%; height: 20px;" type="text"/></td><td><i>Others (specify)</i></td><td><input style="width: 100%; height: 20px;" type="text"/></td></tr></table> <p><i>Type of Scheme:</i> <input style="width: 100px; height: 20px;" type="text"/> <input style="width: 100px; height: 20px;" type="text"/> <input style="width: 100px; height: 20px;" type="text"/> <input style="width: 100px; height: 20px;" type="text"/></p> <p style="text-align: center;">MOTORIZE HPBH SOLAR HDW</p> <p><i>Expected quantity of water to be abstracted (l):</i> <input style="width: 250px; height: 20px;" type="text"/> m³/day</p> <p><i>Will hydrogeological survey be carried out:</i> Yes: <input style="width: 100px; height: 20px;" type="text"/> No: <input style="width: 100px; height: 20px;" type="text"/></p> <p><i>Signature:</i> <i>Date:</i></p>		<i>Domestic/communal.</i>	<input style="width: 100%; height: 20px;" type="text"/>	<i>Commercial</i>	<input style="width: 100%; height: 20px;" type="text"/>	<i>Industrial/mining</i>	<input style="width: 100%; height: 20px;" type="text"/>			<i>Agricultural</i>	<input style="width: 100%; height: 20px;" type="text"/>	<i>Others (specify)</i>	<input style="width: 100%; height: 20px;" type="text"/>
<i>Domestic/communal.</i>	<input style="width: 100%; height: 20px;" type="text"/>	<i>Commercial</i>	<input style="width: 100%; height: 20px;" type="text"/>										
<i>Industrial/mining</i>	<input style="width: 100%; height: 20px;" type="text"/>												
<i>Agricultural</i>	<input style="width: 100%; height: 20px;" type="text"/>	<i>Others (specify)</i>	<input style="width: 100%; height: 20px;" type="text"/>										

Note: Where groundwater is known to be scarce, the EK-WASRA can require additional hydrogeological Information to judge whether the intended purpose of abstraction is permissible.

[illegible]



SCHEDULE IV

EKITI STATE GOVERNMENT WATER AND SANITATION REGULATORY AGENCY WATER QUALITY PARAMETERS TO BE ANALYSED

S/N	PARAMETER	UNIT MEASURED	MEASURED VALUE	REMARKS
A	<i>Field measurements</i>			
1	Temperature	⁰ C		
2	pH			
3	Conductivity at 25 ⁰ C	_u S/cm		
B	<i>Laboratory analyses</i>			
1	Total Dissolved solids, TDS	mg/l		
2	Turbidity,	NTU		
3	Total Hardness (CaCO ₃)	mg/l		
4	Nitrate - (NO ₃ - N)	mg/l		
5	Bicarbonate-HCO ₃	mmol/l		
6	Ammonia- (NH ₃ -N)	mg/l		
7	Phosphate- Total P	mg/dl		
8	Calcium – Ca	mg/l		
9	Magnesium - Mg	mg/l		
10	Sodium- Na	mg/l		
11	Potassium - K	mg/l		
12	Chloride – Cl	mg/l		
13	Sulphate – SO ₄	mg/l		
14	Fluoride - F	mg/l		
15	Manganese - Mn	mg/l		
16	Arsenic- As	mg/l		
17	Total Iron - Fe	mg/l		



SCHEDULE V

EKITI STATE GOVERNMENT WATER AND SANITATION REGULATORY AGENCY TEMPLATE FOR CERTIFICATE OF COMPLETION <i>(To be submitted in triplicate)</i>

I,....., being the holder of authorisation to Construct Works No., do hereby state that the proposed Works have been constructed in accordance with the conditions contained in the Authorisation. Any charges between the original proposed design and final as – constructed arrangement have been documented and such documentation submitted to the Authority.

Type of water use	Surface water				Groundwater		Effluent Discharge	Swamp Drainage
	Diversion	Abstraction	In-stream works	Storage	Shallow well	Borehole		
Tick Box								

PARTICULARS OF APPLICANT				DETAILS	
1. Full name of applicant (s) (In Block Letters)					
2. Category of Applicant (Industrial, Group. Association, Society, Company, Institution)					
3. ID Number of Applicant (Industrial) or Certificate of Incorporation or Registration for Groups or Companies					
4. PIN Number (where available)					
Physical Address where water is to be used				Contact Address of Applicant	
5. L/R Number (s)				6. Box Number	
7. Village/wards				8. Town	
9. sub-location(s)				10. Post Code	
11. Location (s)				12. Telephone contact	
13. Division				14. E-mail	

WATER RESOURCE DETAILS

15. Name of body of water or Aquifer where water is to be diverted, abstracted or stored	
16. Is the point of abstraction or storage in a protected Area or a Groundwater Conservation	

<i>Area? (Yes/No)</i>	
<i>17. Class of Water Resource</i>	
<i>18. Name of Body of water or Aquifer where effluent is to be discharged</i>	
<i>19. Category of Application</i>	

QUANTITY OF WATER REQUIRED

<i>20. Brief Description of Project and Intended Use for Water</i>				
<i>Type of Water Use</i>	<i>Groundwater m3/day)</i>	<i>Surface Water (m3/day)</i>		
		<i>River-Normal Condition</i>	<i>River-Flood Condition</i>	<i>Lake</i>
<i>21. Public</i>				
<i>22. Domestic</i>				
<i>23. Subsistence Irrigation</i>				
<i>24. Commercial Irrigation</i>				
<i>25. Industrial/Commercial</i>				
<i>26. Hydropower</i>				
<i>27. Others</i>				
<i>28. Sub-Total</i>				
<i>29. Quantity Returned</i>				
<i>30. Water Abstracted (row 27 – 28)</i>				
<i>31. Effluence Discharge</i>				

SIGNATURE

<i>Signature of Applicant or duly Authorised Agent</i>	
<i>Name</i>	
<i>Date of Application</i>	

SIGNATURE OF EK-WASRA OFFICIAL RECEIVING COMPLETION CERTIFICATE

<i>Signature of EK-WASRA Official</i>	
<i>Name</i>	
<i>Position</i>	
<i>Date Application received</i>	

Secretary of the Agency

Board Chairman