

Instructions

Construction Permit Requirements for Electricity Generation for Own Use

Doc. Type.	Form
Doc. No.	LN.FM-003
Issue Date	2024-01-26
Revision No.	00
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Licensing

This Checklist should be completed and submitted together with "Form XI – Construction Permit"

This Checklist is to be completed by Applicants or Licensees intending to construct generating stations with an installed capacity of 250 kW and above

	Read Energy Reg pefore completing	ulation (General) Regulations 2023 this form		
	2. Use CAPITAL letters and where applicable mark with			
	Official Use Only Construction Permit Number			
3. T	This checklist has e	eight (08) parts.	Construction Fermit Number	
a	a. For initial	applications complete parts:		
	A,B,C,D,E,G&H			
t		s to a Construction permit complete		
4 1	parts: A,B,F,G8			
4. C	Jse a separate app	olication form for each project.		
A.	Applicants D	etails		
	••			
Nam	ne of Applicant			
Please mark with $oxtimes$ to select type of entity or specify in "other"				
□Limited Liability Company □Partnership □Sole Trader □Body Corporate				
☐ Trust ☐ Other (please specify)				
3	a) Company/Enti	ty's Registration Number		
ŀ	b) ZRA Taxpay	yer Identification Number		
	(TPIN)			
,	c) ERB (application	on fee) Receipt Number		
,	c) LIND (application			
Pleas	se mark with 🛛 to	o select type of application		
i icas	c mark with 🖾 to	sciect type of application		
Initia	ı 🗆	Amendment \Box	Renewal \Box	
milicia		, unchaine in	inchewa!	
B. Financial Information				
		otal cost of implement the project		
	unt in Figures			
Amo	unt in Words			



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Please provide any other details in support of the application, if any?	
For information purposes only) New York of the Cost components used in the determination of the Cost components used in the Cost cost cost cost cost cost cost cost c	

- tariff (wheeling charges, distribution pricing model, etc). The model should state the underlying assumptions to demonstrate the financial viability and technical feasibility of operating the distribution asset.
- b) Project financing: Please provide details of who will fund the project, and how the project will be financed including the components (debt, equity, export credits, bonds, etc).
- C. **Key Technical Personnel for Construction Permit** (initial application only)

Key engineering/project personnel that are expected to provide expertise for quality assurance.

No	Name	Responsibility ¹	Certification No.	Certification Body	Expiry Date

D. Permission from other Authorities

Requirement	Issue date	Expiry date	Reference No.
Environmental clearance			
Local Authority (Zoning Approval)			
Heritage site conservation			
Water abstraction			

¹ Indicate respective responsibility e.g Project supervisor, SHEQ, site foreman, etc



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Parks & wildlife		
Protected forests		
Feasibility study		
Expected life of the generation plant (years)		
Construction start date	End date	
E. Details of the Proposed Genera	tion Plant	
Name of generating station		
Describe the location of the pro topographical map of scale 1:50,000. with degrees. The map should be printed on at le	ject and utilities (Detailed project location, including a GPS coordinates of 'power house' or 'control room' provided in east AI paper for clarity)	
I. Key Project Parameters i. Hydropower		
Installed Capacity (MW)	15	
Plant Capacity Factor (%)	60%	
Project Type (run-of-river or storage)		
Design Flow (m ³ /s)		
Gross Head (m)		
Net Head (m)		
Turbine type (Francis, Kaplan, Pelton etc	C.)	
Number of turbines		
Manufacturer		
Rated capacity of each turbine (MW)		
Length of Headrace (m)		
Length of Penstock (m)		
Length of Tailrace (m)		
Length of Dam/Weir (m)		
Height of Dam/Weir (m)		
Required water flow (m ³ /s)		
Name of the river / waterfalls / reservoir ii. Solar Photovoltaic		

Detailes of PV Modules Description	Detailes of PV Modules	Description
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Detailes of PV Modules	Description
Installed Capacity (MWdc) / (MWac)	
Capacity Utilization Factor (%)	
PV Module Rating (Wdc)	
Manufacturer	
Number of PV Modules	
Number of PV Arrays	
Average Performance Ratio	
Measured average solar irradiance (W/m²)	
PV mounting structures (fixed/tracking)	
Inclination angle / orientation if fixed	
Detailes of Inverters	Description
· · · ·	
Manufacturer	
Manufacturer Inverter Type	
Inverter Type	
Inverter Type Number of Inverters	
Inverter Type Number of Inverters Inverter Rating (kW/kVA)	
Inverter Type Number of Inverters Inverter Rating (kW/kVA) Voltage input / output (Vdc / Vac)	

Detailes of Wind Turbines	Description
Installed capacity (MW)	
Wind power extraction efficiency (%)	
Wind turbine rating (MW)	
Manufacturer	
Number of wind turbines	
Wind turbine swept area	
Cut in wind speed (m/s)	
Cut off wind speed (m/s)	
Average wind speed (m/s)	
Wind turbine hub height (m)	
Turbine axis (Vertical / Horizontal)	

iv. Thermal Power Plants (biomass, bagasse, coal, HFO, etc)

Detailes of turbines / burners	Description
Installed Capacity (MWac)	
Plant capacity factor (%)	
Turbine / burner rating (MW)	
Manufacturer	
Number of turbines / burners	



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Type of fuel (e.g., bagasse, HFO)				
Fuel requirement (tonnes per year)				
Air pollution control technology				
2. Auxiliary Facilities				
i. Switch Yard				
Power Evacuation Line Voltage (kV)				
Power Evacuation Line Length (km)				
Grid integration point capacity (MVA)				
Transformers Capacity (kVA)				
ii. Grid Integration Point				
Name of Substation (if applicable)				
Voltage Level (kV)				
Transformers capacity (MVA)				
Transmission and Distribution Infrastructure Required for Power Evacuation (Please provide information on the proposed interconnection point, the length of the distribution/transmission (evacuation) line, the voltage, and the grid owner/operator)				
Applicable technical standards and regulations (Outline of safety, design, installation, communication, equipment, construction, etc)				

F. Application for Extension

- a) Please fill in "Form XI" and "Part I" of this "Checklist"
- b) Please ensure that the application is submitted at least three (3) months before the expiry of the "Construction Permit"
- c) Please attach the project implementation plan in the "ERB Prescribed Format" showing the milestones achieved
- d) Please include a "Cover Letter" stating the justification for the extension of the permit and the implementation status (as a percentage) which should be aligned to milestones in (c)



Documented SHEQ Plan for construction phase

Letter appointing an EPC contractor / Registered Engineer

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above

G. Declaration by Applicant					
I (full name in block letters)					
declare that the particulars, details and information given in this Application Form are true and correct to the best of my knowledge					
Signature Date					
H. Appendices (Please attach the following to your application where applicable)					
H. Appendices (Please attach the following to your application where applicable)Requirement	Υ	N	NA		
	Y	N	NA		
Requirement	Y	N	NA		
Requirement WARMA Water Abstraction Permit	Y	N	NA		
Requirement WARMA Water Abstraction Permit NHCC consent letter, (if project is impacting on national heritage site)	Y	N	NA		
Requirement WARMA Water Abstraction Permit NHCC consent letter, (if project is impacting on national heritage site) Local Authority Zoning Approval	Y	N	NA		
Requirement WARMA Water Abstraction Permit NHCC consent letter, (if project is impacting on national heritage site) Local Authority Zoning Approval DNPW consent letter (if project falls in national parks & game management area)	Y	N	NA		
Requirement WARMA Water Abstraction Permit NHCC consent letter, (if project is impacting on national heritage site) Local Authority Zoning Approval DNPW consent letter (if project falls in national parks & game management area) Forestry Department consent letter (if project falls in national protected forest)	Y	N	NA		
Requirement WARMA Water Abstraction Permit NHCC consent letter, (if project is impacting on national heritage site) Local Authority Zoning Approval DNPW consent letter (if project falls in national parks & game management area) Forestry Department consent letter (if project falls in national protected forest) ZEMA project approval letter	Y	N	NA		



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Review of the Application				
Recommendation	Reject	Request for information		
Reason(s) or Condition(s) for the Re	ecommendation			
Treason(s) or Condition(s) for the fit	.commendation			
		_		
Reviewed by	Sign	Date		
Checked by	Sign	Date		
Approved by	Sign	Date		