



REPUBLIC OF NAMIBIA

MINISTRY OF ENVIRONMENT, FORESTRY AND TOURISM

DIRECTORATE OF ENVIRONMENTAL AFFAIRS

ENVIRONMENTAL AUDIT - (SELF AUDIT QUESTIONNAIRE)

Please Take Note:

- 1. All questions are mandatory and thus must be fully completed
2. Knowingly providing false or misleading information is an offence as in terms of Section 43 (1) of the Environmental Management Act, Act No. 7 of 2007.

Activity: Tourism and hospitality facility consisting of a lodge and events venue

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Table with 2 columns: Question (a-f) and Answer. Row 1: Overview and General Information. Row 2: Name of unit and address. Row 3: Main activities. Row 4: Number of employees. Row 5: Site layout plan. Row 6: Other projects. Row 7: Environmental Clearance Certificate.

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2. SITE HISTORY AND DETAILS	
a) When was the facility established?	1993
b) Who owns the facility/industry?	O&L Leisure
c) Who owns the land and what is the type of the land?	WUM properties Pty Ltd
d) Is the land ownership/lease document available?	Yes
e) What is the total land area?	
f) What was the previous land use of that area (commercial, residential, industrial or agricultural)?	Prior to 1993, the land was used for a variety of agricultural purposes. At present one part of the farm is utilized for tourism purposes, while the remainder is on occasion used for farming purposes.
g) Does the facility have any citations or complaints pending against it?	None.
h) Has there ever been any major accidents on-site?	One fatality during construction in 2021 (sub-contractor fatality), incident was investigated by Ministry of Labour and the liability was found to be with the sub-contractor.

3. PROCESS REVIEW	A	N/A	Comments
a) Give a detailed description of the production process.			
b) Total production capacity of the plant/ project in terms of tonne per annum			
c) What are the inputs required in the production process (preferably in the form of a list containing name, amount/quantity required and their price?			
d) What are the outputs produced (including pollutants) and their quantities?			
e) Provide a list of all the machinery and utilities used onsite along with their capacities, number, energy consumption and time in use.			<ul style="list-style-type: none"> • Twin 300Kva generator plant (Volvo engines)..Used only during Nampower power failures, and maximum running time during this power outage is approximate 18-48hrs. • 5 borehole pumps of which 4 runs continuously delivering average 18000cm³ water/month. • 5Kva Diesel operated generator, 2,5Kva submersible pump, • 2 chainsaws, • 1x 3phase wood saw, and • 4x petrol operated lawn mowers for workshop, garden and farm division, used at least twice a month. • 2 X Heavy duty laundry roller machines,

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			<ul style="list-style-type: none"> • 2x heavy duty washing machines and 2x heavy duty tumble driers used for approximately 4hrs/day for laundry operations. • 1x 3phase sewer plant operating 24/7, for sewer filtering, in turn creating at least 32cm³ grey water/month for irrigation purposes. • 2x commercial gas 6burner stoves, • 3x electric 3phase ovens, • 2x 3phase electric cookers operating +_ 16hrs/day, and • 4x industrial walk-in freezers/coolers operating 24/7, for the use in food and beverage operations. • 4x 2,2Kw pool pumps.
g) How often is maintenance work carried out on-site?			Normal upkeep of buildings and related infrastructure is ongoing with no fixed schedule. The following infrastructure have scheduled maintenance at fixed intervals as indicated in parentheses Preventative maintenance plan is in place and duties are performed as scheduled on this planning.
h) Does any recycling/reuse of material take place on-site?			Sewerage water to grey water

4. LICENSE AND PERMITS	A	N/A	Comments
a) Does the facility have a valid factory license? If not, has the facility applied for it? Is a copy of the application form available?			
b) Does the facility have a valid Consent to Operate (CTO) certificate? If not, has the facility applied for it? Is a copy of the application form available?	Yes		Namibia Tourism Board (NTB) Registration
c) Does the facility generate hazardous waste? If it does, does the facility have authorization for storage, handling and transportation of hazardous waste as per the Hazardous Waste (Management and Handling) Rules? If not, has the facility applied for it? Is a copy of the application available?			MEFT will need to provide more information regarding what exactly it is that they want with regards to this. Is there a threshold lito of volumes generated and what type of wastes they are specifically referring to in this instance.

5. AIR EMISSIONS	A	N/A	Comments
a) What are the sources of stack and fugitive emissions in the facility?			
b) Has stack and ambient monitoring carried out?			

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c) Does emissions meet standards specified in the CTO certificates?		
d) Are monitoring records/reports maintained?		
e) What are the air pollution control device that has been installed?		
f) What is the frequency of cleaning and maintaining the air pollution control device?		
g) Are site processes and operations free of significant fugitive air emissions?		

6. Water consumption and wastewater generation

6.1 Freshwater	A	N/A	Comments
a) What is the source of freshwater? Is it metered or not?	Yes		Boreholes. Yes, it is metered
b) How many boreholes are installed in the site?			5 installed operating boreholes
c) How many flow meters are installed in the plant? What are their readings?			5 meters Readings ads up to 14 500cm3/month
d) Schematic of a raw water treatment plant and DM plant e.g Sceptic tanks, filtering systems etc		N/A	
e) Latest groundwater quality test reports			January 2024
f) Specify average daily water consumption of the entire plant and in township/colony (m ³ /day):			+/- 467cm3
g) Has the plant / activity studied the impact of its water consumption on respective surface water source and/or groundwater table?	Yes		Specialist hydrogeological study as part of the original EIA
h) Break-up of average freshwater consumed for last two financial years?		N/A	
i) Specific water consumption values for last two financial years (in m ³ /tonne or m ³ /Mwh, etc.):			14 500m3/per month
j) Chemicals used in water treatment plant with quantity and price:			Sodium hypo chloride
k) What is the capacity of the demineralization (DM) plant? What is then average quantity of water treated in DM plant (m ³ /day)?		N/A	
l) Does the plant/ project have rainwater harvesting (RWH) system? If it does, is it rooftop, paved or unpaved?			
m) Method of harvesting rainwater—Storage in artificial tanks/recharge into the pit/ trench/well			
n) Total rainwater harvesting potential of the plant			
o) Rainwater harvesting potential of the site developed by the plant:			
p) Total rainwater harvesting done by the plant			
q) Frequency of monitoring of the groundwater quality and quantity (pre- and post-monsoon) and frequency of cleaning the rainwater harvesting catchment/storage system			Groundwater used for domestic purposes, is tested on a yearly basis.
r) How is the harvested rainwater utilized by the plant/ project?			

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s) Key measures taken by the plant/project for water conservation in the past three years and water saving achieved in terms of m ³		We have an irrigation system which limits certain areas on water, by means of programmed timer systems on each garden block. Training on water saving methods has been conducted, and a special maintenance operation was launched for immediate repairs on all leaking or damaged taps, as well as water leaks protruding from the ground surface. During an open forum session in July 2023 a water saving initiative topic was on the list.
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6.2 Wastewater	A	N/A	Comments
a) Schematic diagram of an Effluent Treatment Plant (ETP) and Sewage Treatment Plant (STP) along with their capacities (attach)			Attached
b) Latest laboratory test reports of ETP and STP inlet/outlet streams			Not available – testing to be done
c) Does the plant/ project have separate ETP for its different products?			No
d) Total effluent generated by plant/ project (including all products) in last two financial years			Meters only installed Nov 2023
e) Total sewerage generated by plant/ project and colony in last two financial years			Meters only installed Nov 2023
f) Provide the details of wastewater generation and recycling in the entire facility			The sewage line is routed to a lifting station, where the first filtering takes place by means of a filtering basket. Reaching a certain volume, pumps activate automatically and transfer stage 1 filtered sewer water to the plant where it enters an underground sump. From here stage 2 filtering starts, up to the final gray water. Grey water is automatically diverted to the irrigation reservoir at the back of the property, supplying the gardens.
g) Does the plant/ project monitor the impact of wastewater on the receiving waterbody/ land?			No, used only in the gardens
h) What is the total number of outlets for effluent discharge from the plant/ project?			3 outlets
i) Name of WTP unit/s (filtration unit/softening unit/reverse osmosis plant etc.) and its capacity and average quantity of water treated in filtration plant (m ³ /day)			580 cm ³ /day

7. NOISE POLLUTION	A	N/A	Comments
a) Does the facility have a valid factory license? If not, has the facility applied for it? Is a copy of the application form available?			

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8. FUEL CONSUMPTION	A	N/A	Comments
a) List the different type of fuel used in different areas of the plant/ project			Diesel used for company vehicles and machinery. Petrol used for company vehicle and farm machinery, lawnmowers
b) Quantification of fuel used in each process and its calorific value			Petrol – 361l/month Diesel – 2885l/month
c) How is the industry storing the different types of fuel?			Fuel is stored as per standard regulations, as there is a fuel station on the property
d) If they are using:			
Gas—Is the supply regular? If not, mention the number of hours.			
Biomass—Is it available for the entire year?			
Coal—Are they using low ash coke or high coke and the supply is regular or not?			
9. CHEMICAL HANDLING AND STORAGE	A	N/A	Comments
a) What are the various types of chemicals stored on-site?			General household cleaning chemicals Pool chemicals
b) Is a list of chemicals available?			Sewer plant – Sodium hypo chloride Pool chemical – chlorine, pool acid
c) How are chemicals transported?			By hand
d) What kind of containers are there for storing the chemicals?			Plastic containers
e) Are there any above or underground chemical storage tanks on-site?			Fuel storage. - underground
f) Are any of the chemicals toxic or harmful? How many of them are hazardous?			Yes - 3
g) Are all the chemicals labelled?			yes
h) Are the chemical containers' lid closed after use?			Yes
i) Are records of chemicals and dyes usage maintained in the logbook?			No

10. SOLID AND HAZARDOUS WASTE MANAGEMENT	A	N/A	Comments
a) What kinds of solid waste are generated onsite?			Typical domestic waste and garden waste.
b) What is the quantity of solid waste generated?			+/- 150kg/day
c) How is the solid waste disposed of?			Waste removal company

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d)	Is any of the waste reused or recycled?			Not on the property
e)	What are the sources of hazardous waste generation on-site?			
f)	What is the quantity of hazardous waste generated?			
g)	How is the hazardous waste disposed of?			
h)	Are hazardous waste disposal records maintained?			
i)	Are any of the hazardous wastes treated onsite?			
j)	Where are the hazardous wastes stored before disposal?			

11. OCCUPATIONAL HEALTH AND SAFETY		A	N/A	Comments
a)	Does the facility have a site emergency plan?	Yes		
b)	If yes, then has this plan been documented?	Yes		
c)	What are the recognized hazards in the facility?			Fire
d)	Are fire extinguishers available in the facility?	Yes		
e)	What type of fire extinguisher is available?			DLT Foam, CO2, Nitrogen Fire extinguishers and Fire Hydrant reels.
f)	Are the fire extinguishers functional?	Yes		Yearly serviced
g)	Are facility personnel trained in its use?	Yes		Fire fighting training done
h)	Is personal protective equipment (PPE) available for use?	Yes		Kitchens, repairs & maintenance, gardens, housekeeping
i)	Do the workers use PPE?	Yes		
j)	Are health check-ups for workers conducted?	Yes		
k)	Do the workers know whom to contact in case of an emergency?	Yes		Emergency contact numbers displayed in each department
l)	Has any accident ever occurred on-site?	Yes		

Declarations

I, J. S. W. [Signature] (full name of **PROPONENT**) understand and agree that the information that I have provided in this questionnaire will be used by the Environmental Commissioner. I accept that the Environmental Commissioner will hold me accountable for any inaccurate or misleading information knowingly provided in this questionnaire, and acknowledge that the provision of

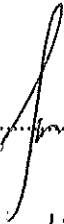
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such information will impede the lawful carrying out of the responsibilities and functions of the Environmental Commissioner.

I declare that the information that I have provided in this questionnaire is to the best of my knowledge, true and

Reliable.

Signature:.....



Date:.....

15/03/23

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