



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:

Activity 1(a) – Energy Generation, Transmission and Storage Activities
The construction of facilities for the generation of electricity (solar & diesel power)

Activity 1(b) – Energy Generation, Transmission and Storage Activities
The construction of facilities for the transmission and supply of electricity (solar & diesel power)

Activity 2.3 – Waste Management, Treatment, Handling and Disposal Activities
Temporary storage of waste

Activity 3.3 – Mining and Quarrying Activities
Resource manipulation and related activities

Activity 5.1(d) – Land Use and Development Activities
Use for nature conservation

Activity 9.4 – Hazardous Substance Treatment, Handling & Storage
Storage of hazardous substances (diesel)

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1. OVERVIEW AND GENERAL INFORMATION	
a) Name of the unit and complete address	Erf 1509, Karibib, is located within the Extension 6, Erongo Region.
b) What are the main activities carried out on site?	The activities undertaken at Erf 1509, Karibib entails the construction of a processing plant for marble and granite, consisting of an industrial cutter machine, industrial microwave resining machine and industrial polishing plant.
c) Number of people employed on site (temporary + permanent)	22
d) Is a copy of the site layout plan available?	Yes
e) Are there any other projects in the area having similar activities?	Yes
f) Environmental Clearance Certificate (ECC) Number and date issued (if available)	ECC – 01347 issued on 11 May 2021

2. SITE HISTORY AND DETAILS	
a) When was the facility established?	Since 2020
b) Who owns the facility/industry?	Namibia Marble and Granite (PTY) Ltd. (NAMAGRA)
c) Who owns the land and what is the type of the land?	Namibia Marble and Granite (PTY) Ltd. (NAMAGRA), and it is an industrial area.
d) Is the land ownership/lease document available?	Yes
e) What is the total land area?	5.7 ha
f) What was the previous land use of that area (commercial, residential, industrial or agricultural)?	Industrial and light industrial
g) Does the facility have any citations or complaints pending against it?	None
h) Has there ever been any major accidents on-site?	None

3. PROCESS REVIEW	A	N/A	Comments
a) Give a detailed description of the production process.	X		The marble process plant entails the processing of raw marble blocks by means of an industry-specific process, which comprises of different components and stages with steps (i.e. cutting machine, microwave resining and polishing).
b) Total production capacity of the plant/ project in terms of tonne per annum	X		50 000 M2 OF SLABS (IN 2CM OR 3CM THICKNESS)
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?	X		Kindly attach requested list

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NAMAGRA (PTY) LTD

Co. Reg. No: 87/051
VAT Reg. No: 0028549015
VAT Import No: 0028549016
P.O. Box 69 KARIBIB - 13008, NAMIBIA

NAMIBIA MARBLE & GRANITE (PTY) LTD

+264 64 550 201
+264 64 550 108

info@namagra.com
www.namagra.com

22/05/2024

INPUT REQUIRED IN PRODUCTION PROCESS

<u>Item</u>	<u>Quantity/month</u>	<u>Price/unit</u>
Martble blocks	500tons	N\$ 12,480.00/m3
Resin	20 x 25kg	N\$2,312.00
SudFloc	1000kg	N\$34,000.00
SuperFloc	1 x 25kg	N\$2,100.00
Kemsmooth	1 x 25kg	N\$2,312.00



Directors:
F-P Wittreich (Namibian)

C. Wittreich (Namibian)

F. Wittreich (German)

d) What are the outputs produced (including pollutants) and their quantities?	X		Polished slabs. About 2000m ² per week. No pollutants produced.
e) Provide a list of all the machinery and utilities used on-site along with their capacities number, energy consumption and time in use.	X		Marble cutting and polishing lines. Approximately 27,350 KWH
g) How often is maintenance work carried out on-site?			Bi-Weekly
h) Does any recycling/reuse of material take place on-site?	X		Yes. Solid waste is separated into recyclable groups such as glass, plastic and paper. These recyclable items are collected and taken to the Karibib Town Council site. Used oil are collected and taken to recycle plants in Walvis Bay.

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?	X		2020/0106
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?	X		Environmental Clearance Certificate dated 12 May 2021
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?		X	

5. AIR EMISSIONS	A	N/A	Comments
a) What are the sources of stack and fugitive emissions in the facility?		X	
b) Has stack and ambient monitoring carried out?		X	
c) Does emissions meet standards specified in the CTO certificates?		X	
d) Are monitoring records/reports maintained?	X		Yes. Monthly and annual monitoring reports are maintained.
e) What are the air pollution control device that has been installed?		X	
f) What is the frequency of cleaning and maintaining the air pollution control device?		X	
g) Are site processes and operations free of significant fugitive air emissions?		X	

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?	X		Bulk potable water, estimated at 6m ³ /month, is supplied via the existing water network from Karibib Town Council, which is used for administrative purposes (i.e. offices,

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			toilets, showers). Yes, it is metered.
b) How many boreholes are installed in the site?		X	
c) How many flow meters are installed in the plant? What are their readings?	X		YES, 1X
d) Schematic of a raw water treatment plant and DM plant e.g. Sceptic tanks, filtering systems etc.	X		See attached photo.
e) Latest groundwater quality test reports		X	
f) Specify average daily water consumption of the entire plant and in township/colony (m3/day):	X		Plant recycles by the hour. No measures in place yet.
g) Has the plant / activity studied the impact of its water consumption on respective surface water source and/or groundwater table?	X		Yes, no discharge of any water is maintained. Raw water is being recycled.
h) Break-up of average freshwater consumed for last two financial years?	X		Freshwater is only being used for sanitary purposes, toilets, etc.
i) Specific water consumption values for last two financial years (in m3/tonne or m3/Mwh, etc.):		X	
j) Chemicals used in water treatment plant with quantity and price:	X		See attached list.
k) What is the capacity of the demineralization (DM) plant? What is then average quantity of water treated in DM plant (m3/day)?	X		1080m3 per day
l) Does the plant/ project have rainwater harvesting (RWH) system? If it does, is it rooftop, paved or unpaved?	X		Rooftop
m) Method of harvesting rainwater—Storage in artificial tanks/recharge into the pit/ trench/well	X		The recycle water channels are build to convey rainwater to the main underground reservoir.
n) Total rainwater harvesting potential of the plant	X		Has not been measured.
o) Rainwater harvesting potential of the site developed by the plant:	X		Has not been measured.
p) Total rainwater harvesting done by the plant	X		Has not been measured.
q) Frequency of monitoring of the groundwater quality and quantity (pre- and post-monsoon) and frequency of cleaning the rainwater harvesting catchment/storage system		X	
r) How is the harvested rainwater utilized by the plant/ project?	X		Used within the closed loop circulation.
s) Key measures taken by the plant/project for water conservation in the past three years and water saving achieved in terms of m3	X		Constant recycling

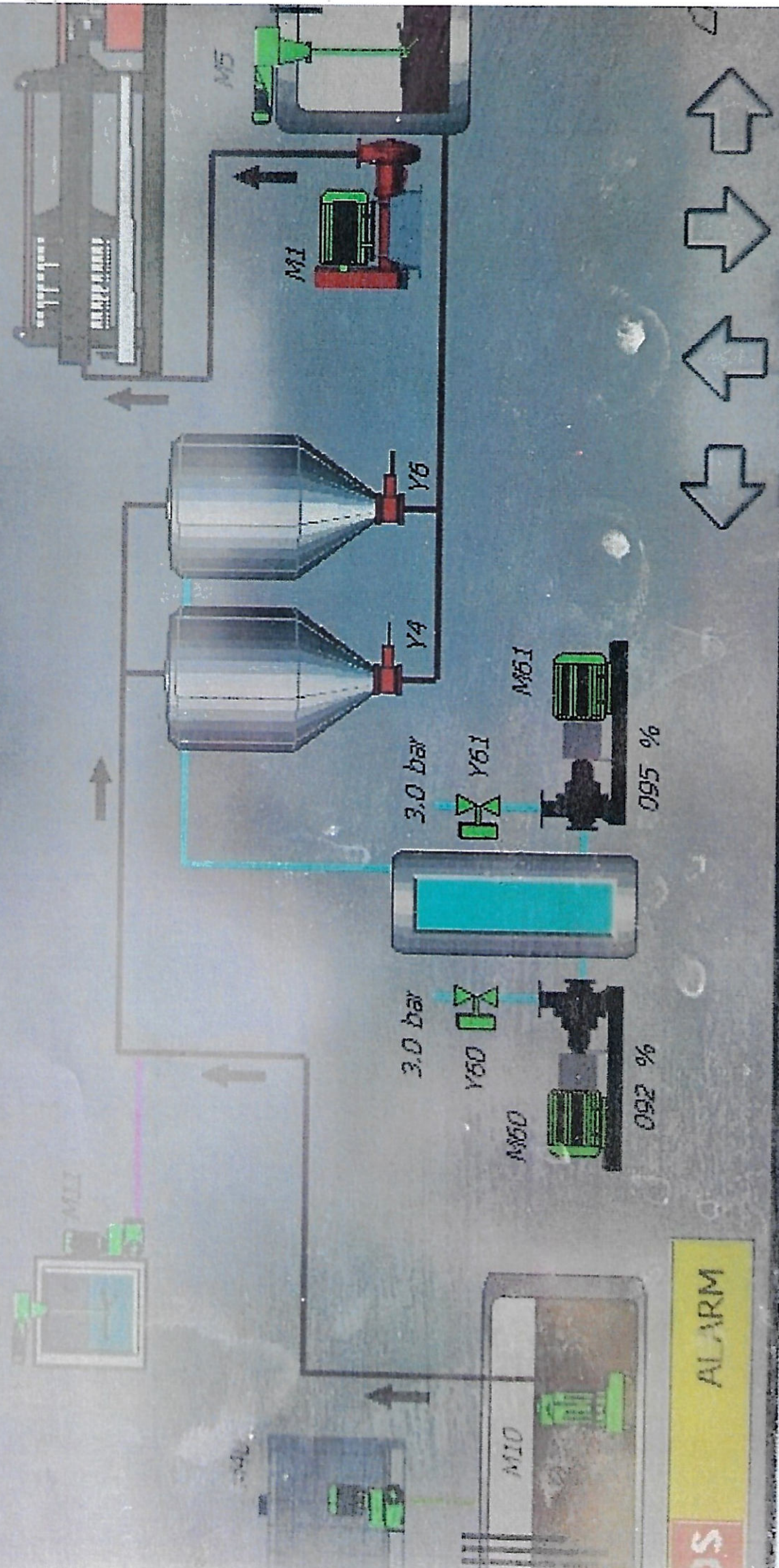
6.2 Wastewater	A	N/A	Comments
a) Schematic diagram of an Effluent Treatment Plant (ETP) and Sewage Treatment Plant (STP) along with their capacities (attach)	X		No waste water, closed loop circulation system.
b) Latest laboratory test reports of ETP and STP inlet/outlet streams		X	
c) Does the plant/ project have separate ETP for its different products?		X	
d) Total effluent generated by plant/ project (including all products) in last two financial years		X	
e) Total sewerage generated by plant/ project and colony in last two financial years		X	

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DIFFERENTIAL PRESSURE

STOP



De Jager, Jaco – NAMAGRA – XMP – Namibia

From: Krahemann, Mark – NAMAGRA – XMP – Namibia
Sent: 17 May 2024 14:48
To: De Jager, Jaco – NAMAGRA – XMP – Namibia
Subject: Water treatment
Attachments: WI240350_Xclusive Marble Processing.pdf

Hello Jaco

Floculants and Chemicals Used in plant:

SudFloc 3365	1000kg	N\$ 34000.00	2 containers/ month
Super Floc A 110 (up to now)	25kg	N\$ 2100.00	1Bag/Month
Kemsmooth 2900	25kg	N\$ 2312.00	1 Bag/ Month

Water Capacity 350 cubic meter at a flow rate of 2 cubic meter/ minute and recovery of water in excess of 98%.

Attached latest test result

Mark Kraehemann

f) Provide the details of wastewater generation and recycling in the entire facility		X	
g) Does the plant/ project monitor the impact of wastewater on the receiving waterbody/ land?		X	
h) What is the total number of outlets for effluent discharge from the plant/ project?		X	
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 (m3/day)	X		1080m3 per 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?		X	

8. FUEL CONSUMPTION	A	N/A	Comments
a) List the different type of fuel used in different areas of the plant/ project	X		DIESEL, Silent Generators
b) Quantification of fuel used in each process and its calorific value	X		10,000 – 15,000 liters per month.
c) How is the industry storing the different types of fuel?	X		Bulk Diesel tank from TOTAL FUEL Supplier.
d) If they are using:			
Gas—Is the supply regular? If not, mention the number of hours.		X	
Biomass—Is it available for the entire year?		X	
Coal—Are they using low ash coke or high coke and the supply is regular or not?		X	

9. CHEMICAL HANDLING AND STORAGE	A	N/A	Comments
a) What are the various types of chemicals stored on-site?		X	
b) Is a list of chemicals available?		X	
c) How are chemicals transported?		X	
d) What kind of containers are there for storing the chemicals?		X	
e) Are there any above or underground chemical storage tanks on-site?		X	

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f)	Are any of the chemicals toxic or harmful? How many of them are hazardous?		X	
g)	Are all the chemicals labelled?		X	
h)	Are the chemical containers' lid closed after use?		X	
i)	Are records of chemicals and dyes usage maintained in the logbook?		X	

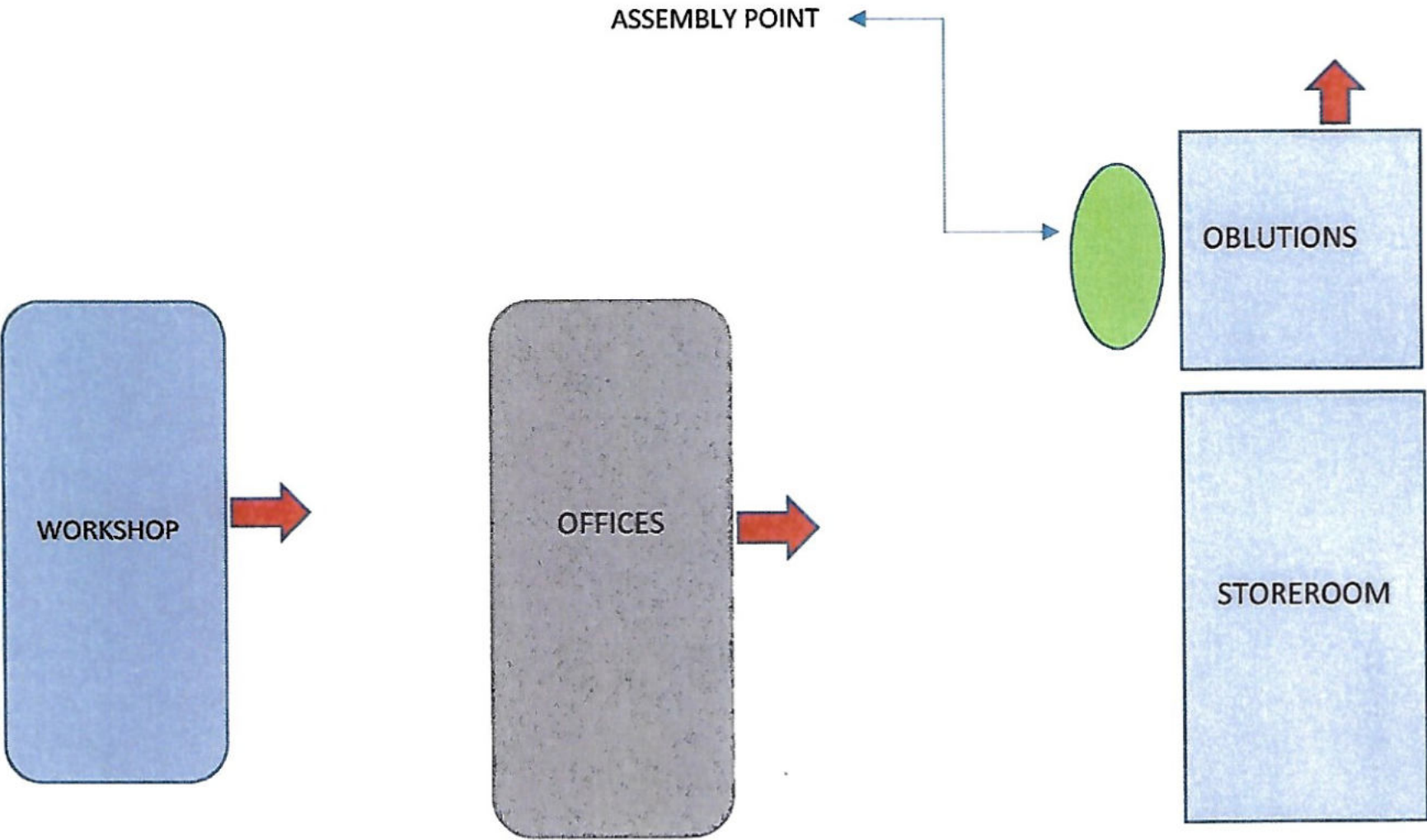
10. SOLID AND HAZARDOUS WASTE MANAGEMENT		A	N/A	Comments
a)	What kinds of solid waste are generated on-site?	X		Marble stone slurry
b)	What is the quantity of solid waste generated?	X		30 Ton per month.
c)	How is the solid waste disposed of?	X		Marble slurry & Waste is re-processed into product for export.
d)	Is any of the waste reused or recycled?	X		Recycled and re-used..
e)	What are the sources of hazardous waste generation on-site?		X	
f)	What is the quantity of hazardous waste generated?		X	
g)	How is the hazardous waste disposed of?		X	
h)	Are hazardous waste disposal records maintained?		X	
i)	Are any of the hazardous wastes treated on-site?		X	
j)	Where are the hazardous wastes stored before disposal?		X	

11. OCCUPATIONAL HEALTH AND SAFETY		A	N/A	Comments
a)	Does the facility have a site emergency plan?	X		See attached.
b)	If yes, then has this plan been documented?	X		Yes
c)	What are the recognized hazards in the facility?		X	

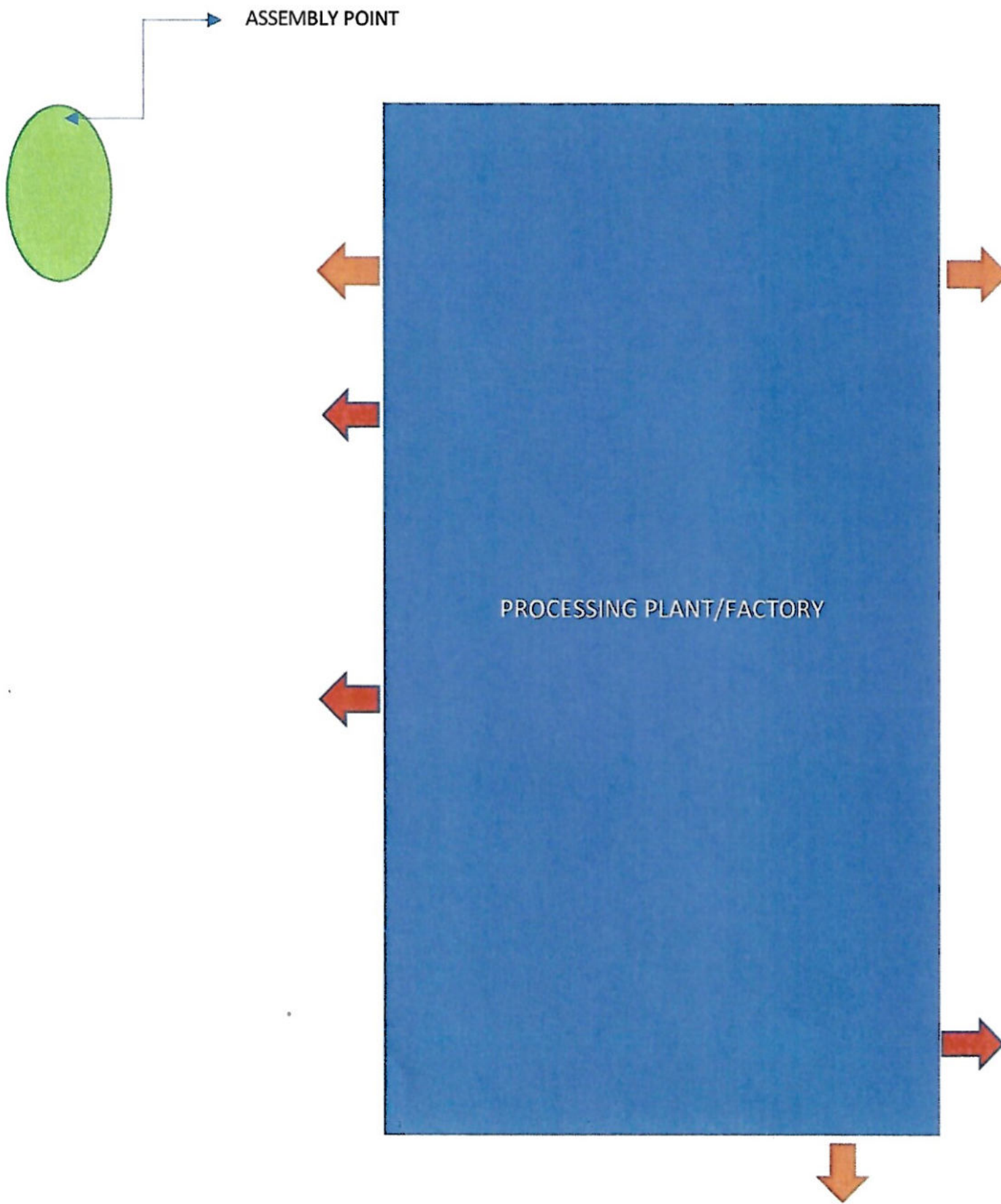
d)	Are fire extinguishers available in the facility?	X		Yes
e)	What type of fire extinguisher is available?	X		
f)	Are the fire extinguishers functional?	X		Yes
g)	Are facility personnel trained in its use?			
h)	Is personal protective equipment (PPE) available for use?	X		Yes
i)	Do the workers use PPE?	X		Yes
j)	Are health check-ups for workers conducted?	X		YES

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FIRE EMERGENCY PLAN – OFFICE COMPLEX



FIRE EMERGENCY PLAN – MINE




k) Do the workers know whom to contact in case of an emergency?	X	Yes.
l) Has any accident ever occurred on-site?	X	Minor incidents.

Declarations

I Namibia Marble and Granite (PTY) Ltd. (NAMAGRA) (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 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:..... 22/05/2024

General Manager
 NAMAGRA (PTY) Ltd
 P.O. Box 89, Karibib
 Tel: +264 64 550 201
 Fax: +264 64 550 108

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