ENVIRONMENTAL ASPECTS REGISTER	
Doc Name:	**Environmental Aspects Register**
Doc Number	**HIL/IMS/SHEQ/L/007**
Version	1
Revision	0
Effective date	28th February, 2020
Prepared by:	
Name: Felix Makundi **Date:** 28th February, 2020 **Signature:** 	
Approved by:	
Name: Heriel Muhulo **Date:** 28th February, 2020 **Signature:** 	

Amendment Record

No.	Date	Version	Brief description	Prepared by	Reviewed by	Approved by
1	28.02.2020	Issue 1.0 rev. 00	Initial release	Felix Makundi	Eng. Heriel Muhulo	Eng. Heriel Muhulo

Criteria for Significant Evaluation of Environmental Aspects

- The environmental aspects are evaluated for their significance according to the six criteria listed in Table 1 one by one.
- A score of "1" or "0" will be assigned.
- The environmental aspect will be evaluated against the five criteria available.
- If an environmental aspect scores "1" for at least a criterion, it is considered as a significant environmental aspect (SEA)
- If an environmental aspect scores "0" for a criterion, it shall be evaluated by the remaining criteria one by one.
- If an environmental aspect scores "0" for all 5 criteria, it is regarded as insignificant.

Table 1: Score assignment for evaluation criteria

#	Evaluation criteria	Conditions	Score
1	Compliance Obligation	The aspect is legally regulated.	1
		The aspect is not legally regulated.	0
2	International issues	There are internal issues about the aspect	1
		No internal issues about the aspect	0
3	Local Issues/interested parties	There are interested parties or local issues about the aspect	1
		No interested parties or local issues about the aspect	0
4	Environmental consequence	Expected release of pollutants of severe environmental consequence	1
		The aspect does not have potential environmental impacts of severe consequence.	0
5	Corporate concerns	Hematec Investment Ltd has received valid, justifiable complaints for similar situations previously and the aspect is a corporate concern reflected in the corporate policy	1
		The aspect is not corporate concern	0

No	Activity	Environmental Aspect	Environmental Impact	Control	Influence	Situation			Evaluation of Significant Aspects					Aspect Rating	Control measures
						Normal	Abnormal	Emergency	Compliance obligation	International issues parties	Local issues/ interested	Environment consequences	Corporate concerns		
A	**AIR EMISSIONS**														
1	Use of vehicles and other construction machinery	Exhaust flue gas emission above the legal requirement	Deterioration of air quality due to emission of gases such as CO_2, unburned hydrocarbon, NOx, SOx.	x		x	x	x	1	1	1	1	1	Significant	● Regular vehicle maintenance as per manufacturer recommendations.
2	Structure painting	Emission of Volatile Organic compounds (VOC) to the air	Ambient air pollution	x		x			0	0	0	0	0	Insignificant	●Adherence to MSDS Refer Hazardous waste management procedure
3	Storage of paint, thinners	Emissions of VOC (BTEX)	● Ambient air pollution ● Fire eruption	x			x	x	1	0	1	1	1	Significant	●Adherence to MSDS **Refer:** Material Storage Procedure Hazardous waste management procedure
4	Fire extinguishers services	Emission of Carbon dioxide to the atmosphere (Greenhouse gas)	Global warming		x	x			1	1	1	1	1	Significant	Use of legal registered supplier for fire extinguishers servicing **Refer:** Sustainable Procurement Procedure
5	Use of Air conditioning	Emission of Ozone depleting gases	Ozone layer depletion	x		x			1	1	1	1	1	Significant	Purchase of CFC free air conditioner **Refer:** Sustainable Procurement Procedure

B: AQUEOUS EMISSIONS															
6	Use of washrooms	Sewage	Surface and underground water pollution as sewage carry infectious diseases and propagate the growth of organisms	x		x	x		1	0	1	1	1	Significant	Regular maintenance checks and clearance of septic tanks **Refer:** Waste management procedure
7	Parking of Company vehicles	Surface run offs from car parks	● If it surfaces run off is contaminated with oils and chemicals it has the potential to cause ecotoxicity through soak away. ● Surface and ground water pollution	x		x			0	0	0	0	0	Insignificant	Regular vehicle maintenance
8	Office cleaning	Use of cleaning agents and water consumption	Indoor air pollution	x		x			0	0	0	0	0	Insignificant	● Proper use of detergents conc. which will not be excess to cause indoor air pollution ● Allow enough ventilation of the room before re-entering the room
9	Construction near water sources or downslope	Sedimentations to water sources	● Increase in water turbidity Affect light penetration to the to the water ● Increase water temp and affect aquatic lives	x		x			1	1	1	1	1	Significant	**Refer:** Erosion and sedimentation control procedure
C: USE OF RAW MATERIALS AND NATURAL RESOURCES															
10	Use of paper for printing	Use of a natural resource	Reduction in natural resources	x		x			0	0	0	0	0	Insignificant	Raise awareness to staff on the proper use of paper
11	Use of electricity	Use of energy	Reduction in natural resources.		x	x			0	0	0	0	1	Significant	**Refer:** Controlling and monitoring of electrical energy procedure

12	Use of water in construction, Kitchen and welfare facilities	Use of natural resources	Reduction in natural resource		x	x		x	0	0	0	0	1	Significant	**Refer:** Use of water procedure
13	Use of Fuel in vehicles and other construction equipment	Use of fossil fuel	Reduction in non-renewable natural resources	x		x		x	1	0	0	1	1	Significant	**Refer:** Use of fuel procedure
14	Furniture, electrical equipment	Use of natural resource	Reduction in natural resource		x	x		0	0	0	0	0	0	Insignificant	**Refer:** Sustainable Procurement Procedure
15	Construction materials	Use of construction materials such as timber, cement, fiber, fabricated tower members, paints etc	● Depletion of natural resources such as cutting of tree for timber production ● Mining of minerals for fabrication such as Fe, Cr, Ni		x	x			0	0	0	1	1	Significant	**Purchase of metals from authorized external providers** **Refer:** Sustainable Procurement Procedure
16	Printing (eg. Printer, cartridges, toner, CDs) used in offices	Generation of spoiled waste	● Consumption of resources ● Generation of waste		x	x			1			1	1	Significant	**Refer:** Hazardous waste management procedure Waste management procedure
17	Use of Office IT equipment (computers and keyboards)	Generation of e-waste	Carcinogenicity Pulmonary and cardiovascular disease	x		x		x	1	1	1	1	1	Significant	**Refer:** Hazardous waste management procedure Waste management procedure
18	Use of aggregate	Mining/ excavating of aggregate	● Soil erosion ● Accumulation of water in open pits which acts as mosquito breeding areas		x	x			1	0	1	1	1	Significant	**Refer:** Sustainable Procurement Procedure
D	**LAND EMISSIONS & WASTE GENERAL**														

19	Generation of controlled/office waste	Disposal of waste	Human/life threat from uncontrolled disposal to land	x		x			0	0	0	1	1	Significant	**Refer:** Waste management procedure
20	Generation of kitchen waste	Production of biodegradable waste	Greenhouse effect adversely affects environment	x		x			0	0	0	0	0	Insignificant	Raising awareness to employee during internal programme
21	Generation of waste paper	Use of natural resource and/or release of pollutants	Depletion of natural resources	x		x			0	0	0	0	0	Insignificant	Raising awareness to employee during internal programme
22	Generation of electrical/ electronic waste	Use of natural resource and/or release of pollutants	● Global warming due to emission of CO, CO_2 from power plants ● Deterioration of air quality due to emission of SOx, NOx from power plants	x		x			1	1	1	1	1	Significant	**Refer:** Hazardous waste management procedure
23	Generation of waste plastics	Use of natural resource and/or release of pollutants	Non-biodegradable. Toxic fumes from incineration.	x		x			0	0	1	1	1	Significant	**Refer:** Waste management procedure
24	Generation of waste packaging and pallets	Creation of waste pallets /packaging.	Waste pallets / packaging		x	x			0	0	0	0	0	Insignificant	**Refer:** Waste management procedure
25	Generation of waste glass	Disposal of broken glass	● Can assist in spread of disease especially when people get cut eg. Tetanus ● May acts as breeding areas for mosquitoes especially when it contains water	x		x			0	0	0	0	0	Insignificant	**Refer:** Waste management procedure

26	Generation of cement bags wastes	Disposal of cement bags	Clogging of sewerage system Release of dioxin/furan gas if burnt to the air	x		x			1	0	0	1	1	Significant	**Refer:** Waste management procedure
27	Generating of spoil soil waste during clearing	Accumulated pile spoil soil	Sedimentation Dust	x		x			0	0	0	0	0	Insignificant	Use of spoil soil for backfilling
28	Generation of metal wastes	Use of natural resource and/or release of pollutants	Depletion of natural resources	x		x			0	0	0	0	0	Insignificant	**Refer:** Waste management procedure
29	Generation of optic fiber glass waste	Disposal of sharp and non-degradable fiber glass	Physical injury upon exposure	x		x			1	0	0	1	1	Significant	**Refer:** Waste management procedure
30	Generation of expired medicine from First Aid Kits	Disposal of expired medicine	Contamination of surface and underground water surface	x		x			1	0	0	1	1	Significant	**Refer:** Hazardous waste management procedure
31	Storage of flammable materials in the warehouse such as oil, paint, thinners	Oil spill	Fire eruption & soil, surface and groundwater contamination	x		x		x	1	0	1	1	1	Significant	Adherence to Material Safety Data Sheet (MSDS) **Refer:** Hazardous waste management procedure Material Storage Procedure
32	Maintenance of vehicle	Disposal of used oil, lead acid battery	Surface and ground water contamination	x		x		x	1	0	1	1	1	Significant	**Refer:** Hazardous waste management procedure

33	Site layout/set up	Site clearance	● Soil erosion due to exposed bare land ●Destruction of existing flora and fauna (ecosystem)	x		x			0	0	1	1	1	Significant	**Refer:** Flora and fauna protection procedure Erosion and sedimentation control procedure
34	Construction of infrastructures	Excavations	Soil erosion Destruction of habitat	x		x			0	0	1	1	1	Significant	**Refer:** flora and fauna protection procedure **Refer:** Erosion and sedimentation control
E	**COMMUNITY/PUBLIC AND NEIGHBOR**														
35	Noise from machinery use	Noise pollution	Nuisance Hearing impairment	x		x			1	0	1	1	1	Significant	**Refer:** Noise control procedure
36	Use of vehicles and other machinery	Generation of combustion gases, production of noise, dust, odor, pollution and vibration, increased traffic	Greenhouse effect, use of natural resources eg fossil fuels, air pollution with oxides of nitrogen, sulphur and carbon	x		x	x		1	1	1	1	1	Significant	**Refer:** Machinery Management and Calibration Procedure
37	Visual impact of buildings	Aesthetics	Visual appearance	x		x			0	0	0	0	0	Insignificant	Conducting of Environmental Impact assessment before any activity