Item	Location	Paramete	r/ Means of Monitoring	Result (Average / Max / Total. etc.)	Standard (Legal / International Standard)	Frequency	Remarks
	Construction site		spection of mechanical ion and exhaust gas	Equipment in good mechanical condition	\land	Every day before working	Everyday all equipment are inspected before any activity.
Air quality	Construction site		observation of dust	Dust emission, minimized - regular and controled watering, especially on dry and Windy days		Every day	Watering is being performed regularly throught construction site in the following areas: Main - Camp, Quarry, Sub - Camp, Villages, Work Fronts including detours and critical areas. (ongoing)
, in quality		Ν	lo. of complaint	There are no complaints		Any time	Not yet reported during this period.
	Boundary of ROW nearest to construction site			Not yet started monitoring measurements	0.02 mg/m ³ (Japan, average 24h)	2 times in dry season and 2 times in rainy season	The equipment has arrived from calibration. To date we are waiting to them to send us the manuals in English Language
			SO ₂	Not yet started monitoring measurements Not yet started monitoring measurements	0.04 mg/m ³ (Japan, average 24h)		N/A N/A
Water Pollution	River, stream, reservoir and other public water body where construction works are executed.	NO ₂ Visual observation		There is no record of activities with high potential for water pollution.	0.10 mg/m ³ (Japan, average 24h)	Every Month	The quality and quantity of water from all existent borehole the contractor is monitoring by conducting water ananysis and they recording the quantities of water use. The water from River, stream the contractor is monitoring the quantities of extraction and they are searching for acredited company to conduct the water analysis. (ongoing)
	Along N-13	Ν	lo. of complaint	There are no complaints		Any time	Not yet reported during this period.
Noise	Boundary of land plot nearest to the construction site		Noise Level	Not yet started monitoring measurements	70dB (06:00-21:00) 60dB (21:00-06:00) (Japan, Trunk Roads)	Every Month	The contractor has already provided the monitoring equipment. To date we are waiting to them to send us the manuals in English Language
	Sensitive Area (School, Hospital)			Not yet started monitoring measurements	55dB (Japan, Sensitive Area)		
		Waste Oil and other construction		There are appropriate containers for diferent waste produced on site: Wast Oil - 200 L Drums; not appropriately stored. House keeping not satisfactory around the workshop Tires - Warehouse; Scrap, Metal - Warehouse containers. The Waste are stored correctly and ccording to the Waste Management Plan of the project already approved.			Tires, filters and used oils were produced and have been stored in drums containers in the storage area of the workshop. They are reusing the remnants of metals to produce signal board, funnel and others. (ongoing)
	Western en en en en en el en elle		Recycling Status	not yet			not yet
General waste	Waste storage at construction site, Waste Disposal SIte		Way of recycle	not yet		Every day	not yet
	Waste Disposal Oile		, ,	not yel	I X		not yet
		General Waste	Way of treatment	not yet Re-use (used by internal personal); Re-use in construction activities; Dumpsite.			not yet The bottles were taken by the cleaners and reused as water drinking container and others they sell for communite.
				It's on going and almost finalized the process to define carefuly with all parties involved in the project, the adequate desposal waste.			The general waste had as final destination the site landfill area and non biodegradable, were stored in proper area.
Ecosystem	Along N-13		rvation of animals, reptiles and amphibious	No record of perturbation or contamination of Fauna	\backslash	Every half year (1 time in dry season and 1 time in rainy season)	Snakes and Foxes are being observed during night hours; but nothing unusual has been noticed.
Accident	Along N-13		Traffic Accident Report	No record of traffic accident at Construction Site		Every Month	Preliminary traffic accidents are reported within a maxumum of three days after occurance
		Visual obverv	vation of accident with anim	No record of accident with animals			None to date
		A: No. of	land acquired/ B: to be aquired	A:1 and B: 5	Progress Ratio: A/A+B		A: 1 land was acquired during the Month at km 106+000 for borrow pit. B: 5 lands are in negotiations and all is for for borrow pit
Land Acquisition	Along N-13		Is received compensation/ s to be compensated	A: 21 and B: 6	Progress Ratio: A/A+B	Every Month	A: By contractor - 6 and Sub-contractor RAP 15. B: By contractor 6 and by Sub-contractor RAP 1
		Co	inplaint received	In the places where the works will affect houses and other buildings, the owners require the payment of compensation before start of the work of the project. Sub-contractor for RAP has been on site assessing affected properties in the month oJanuary 2018.	In general, all affected people		There are 21 affected people already recived the compensation

Attachment 18

Monitoring Location		Lilumile village								
Details of Location	2	Nearest school	arest school and health centre, road access							
Samplers Identifications and positions Date of Sampling		Fernado Saide	- HSO C	ompa	ny Sinohydro C	Corporation, Lda				
		Fidel Castro - SI	ES Com		ny Nippon Koe	i Mozambique,	Lda			
		16th October 2	6th October 2018							
Time of Sampling		15minutes of sa	ampling							
Elapsed-time	Start Time	5:25pm								
Meter Reading	End Time	5:40pm								
Total Sampling T	īme (min.)	SP10 Level (µg/m³)	Standard (Legal International Standa	·	andard (Legal / IMozambique	SPM2.5 Level(mg/m ³) Standard)	coment			
5:25pm		0,112	0.02 mg/m ³ (Japan, average 24h)		L5 mg/m³ (Mozambique, erage 24h)	0,088				
5:26pm		0,111	0.02 mg/m³(Japan, average 24h)		L5 mg/m ³ (Mozambique, erage 24h)	0,087				
5:27pm		0,100	0.02 mg/m³ (Japan, average 24h)		L5 mg/m³ (Mozambique, erage 24h)	0,081				
5:28pm 0,			0.02 mg/m ³ (Japan, average 24h)		.5 mg/m³ (Mozambique, erage 24h)	0,071				
5:29pm		-,	0.02 mg/m³ (Japan, average 24h)		.5 mg/m³ (Mozambique, erage 24h)	0,054				
5:30pm		0,002	0.02 mg/m ³ (Japan, average 24h)		.5 mg/m³ (Mozambique, erage 24h)	0,070				

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0,124 0,071	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,080	
0,071				
	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,061	
0,067	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,057	
0,062	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,050	
0,061	0.02 mg/m³(Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,054	
0,200	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m³ (Mozambique, average 24h)	0,113	
0,430	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,182	
	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)		
	0.02 mg/m³ (Japan, average 24h)			
ight				
	0,062 0,061 0,200 0,430	average 24h)0,0620.02 mg/m³ (Japan, average 24h)0,0610.02 mg/m³ (Japan, average 24h)0,2000.02 mg/m³ (Japan, average 24h)0,4300.02 mg/m³ (Japan, average 24h)0.02 mg/m³ (Japan, average 24h)	average 24h)average 24h)0,0620.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,0610.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,2000.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,2000.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,4300.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)	average 24h)average 24h)0,0070,0620.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,0500,0610.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,0540,2000.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,1130,4300.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,1820,4300.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,1820,02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,1820.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,1820.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0.15 mg/m³ (Mozambique, average 24h)

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<u>19/10/2018</u>

Monitoring Locatio	n	Lilumile village							
Details of Location	Drilling area c	rilling area construction activities							
Samplers Identifications and positions		Fernado Saide -	HSO	Com	pany	Sinohydro Corpo	ration, Lda		
		Fidel Castro - SES		Com	pany	Nippon Koei Moz	zambique, Lda		
Date of Sampling		16th October 2	018						
Time of Sampling		15minutes of sa	ampling						
Elapsed-time	Start Time	e6:00pm							
Meter Reading	End Time	6:15pm							
Total Sampling	īme (min.)	SP10 Level (mg/m ³)	Standard (Lega International Stand		Standard (Leg	al / Mozambique	SPM2.5 Level (mg/m ³) Standard	coment	
6:01pm		0,102	0.02 mg/m ³ (Japan, average 24h)		0.15 mg/m³ (№ 24h)	ozambique, average	0,081		
6:02pm		0,042	0.02 mg/m ³ (Japan, average 24h)		0.15 mg/m ³ (N 24h)	ozambique, average	0,050		
6:03pm		0,096	0.02 mg/m ³ (Japan, average 24h)		0.15 mg/m³ (N 24h)	ozambique, average	0,078		
6:04pm		-/	0.02 mg/m ³ (Japan, average 24h)		0.15 mg/m³ (№ 24h)	ozambique, average	0,076		
6:05pm		0,080	0.02 mg/m³ (Japan, average 24h)		0.15 mg/m ³ (Mozambique, average 24h)	0,069		
6:06pm		-,	0.02 mg/m³(Japan, average 24h)		0.15 mg/m ³ (Mozambique, average 24h)	0,049		
6:07pm		-,	0.02 mg/m³ (Japan, average 24h)		0.15 mg/m ³ (Mozambique, average 24h)	0,064		

Page 1 of 2

6:09pm	0,059	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m³ (Mozambique, average 24h)	0,050	
6:10pm	0,099	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m³ (Mozambique, average 24h)	0,080	
6:11pm	0,052	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m³ (Mozambique, average 24h)	0,049	
6:12pm	0,073	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,064	
6:13pm	0,074	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,065	
6:14pm	0,067	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,050	
6:15pm	0,072	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,064	
Weather Conditions	Fine / Sunny /	Cloudy / Rainy			
Site Conditions					
Observations / Remarks					

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Monitoring Locatio	n	Quarry									
Details of Location		Nearest jaw C	rasher								
Samplers Identifications and positions		Fernado Saide	- HSO C	Company Sinohydro Co		orporation, Lda					
		Fidel Castro - Sl	ES C	Company Nij	Nippon Koei Mozambique, Lda						
Date of Sampling		16th October 2	l6th October 2018								
Time of Sampling		15minutes of sa	ampling								
Elapsed-time	Start Time	7:37pm									
Meter Reading	End Time	7:51pm									
Total Sampling 1	lime (min.)	SP10 Level (mg/m ³)	Standard (Legal / International Standa	ird)		SPM2.5 Level (mg/m ³) Standard)	coment				
7:37pm		0,376	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m³ (Mozaml average 24h)	pique,	0,145					
7:38pm		0,414	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozami average 24h)	oique,	0,157					
7:39pm		0,103	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozamb average 24h)	pique,	0,057					
7:40pm		0,000	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m³ (Mozamb average 24h)	vique,	0,053					
7:41pm		0,561	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m³ (Mozamb average 24h)	pique,	0,190					
7:42pm		0,102	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m ³ (Mozamb average 24h)	ique,	0,186					
7:43pm		0,657	0.02 mg/m ³ (Japan,	0.15 mg/m ³ (Mozamb	ique	0,244					

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7:45pm	0,065	0.02 mg/m³(Japan, average 24h)	0.15 mg/m³ (Mozambique, average 24h)	0,044	
7:46pm	0,608	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,216	
7:47pm	0,087	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m³ (Mozambique, average 24h)	0,049	
7:48pm	0,204	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m³ (Mozambique, average 24h)	0,106	
7:49pm	0,370	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m³ (Mozambique, average 24h)	0,157	
7:50pm	0,415	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m³ (Mozambique, average 24h)	0,179	
7:51pm	0,558	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,209	
Weather Conditions	Fine / Sunny /	′ Cloudy / Rainy			
Site Conditions					
Observations / Remarks					

<u>Date</u>

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Monitoring Location		Lipiche village									
Details of Location Nearest Quarry			у								
Samplers Identifications and positions		Fernado Saide ·	- HSO	Company	Sinohydro Corporatio	on, Lda					
		Fidel Castro - SES		Company	Nippon Koei Mozaml	pique, Lda					
Date of Sampling		16th October 2	6th October 2018								
Time of Sampling		15minutes of sa	ampling								
Elapsed-time	Start Time	8:30pm									
Meter Reading	End Time	8:45pm									
Total Sampling	Time (min.)	SP10 Level (µg/m³)	Standard (Legal / International Standard)		Standard (Legal / Mozambique	SPM2.5 Level (mg/m ³)	coment				
8:30pm		0,067	0.02 mg/m ³ (Japan, average 24h)		0.15 mg/m ³ (Mozambique, average 24h)	0,062					
3:31pm		0,074	0.02 mg/m ³ (Jap 24h)	an, average	0.15 mg/m ³ (Mozambique, average 24h)	0,069					
3:32pm		0,081	0.02 mg/m³ (Jap 24h)	an, average	0.15 mg/m ³ (Mozambique, average 24h)	0,075					
8:33pm		0,083	0.02 mg/m³ (Jap 24h)	an, average	0.15 mg/m ³ (Mozambique, average 24h)	0,073					
8:34pm		0,098	0.02 mg/m³ (Jap 24h)	an, average	0.15 mg/m ³ (Mozambique, average 24h)	0,085					
3:35pm		1 1	0.02 mg/m ³ (Jap 24h)	an, average	0.15 mg/m ³ (Mozambique, average 24h)	0,076					
3:36pm		· ·	0.02 mg/m³ (Jap 24h)	an, average	0.15 mg/m ³ (Mozambique, average 24h)	0,076					

Page 1 of 2

0,088	0.02 mg/m ³ (Japan, average	0.15 mg/m ³ (Mozambique,	0,077	
	24h)	average 24h)		
0,086	0.02 mg/m³ (Japan, average	0.15 mg/m ³ (Mozambique,	0,078	
	24h)	average 24h)		
0,081	0.02 mg/m³ (Japan, average	0.15 mg/m ³ (Mozambique,	0,076	
	24h)	average 24h)		
0,078	0.02 mg/m³ (Japan, average	0.15 mg/m ³ (Mozambique,	0,073	
	24h)	average 24h)		
0,088	0.02 mg/m³ (Japan, average	0.15 mg/m ³ (Mozambique,	0,079	
	24h)	average 24h)		
0,086	0.02 mg/m³ (Japan, average	0.15 mg/m ³ (Mozambique,	0,078	
	24h)	average 24h)		
0,088	0.02 mg/m³ (Japan, average	0.15 mg/m ³ (Mozambique,	0,077	
	24h)	average 24h)		
Fine / Sunny /	' Cloudy / Rainy			
	0,086 0,081 0,078 0,088 0,088 0,086	24h) 0,086 0.02 mg/m³ (Japan, average 24h) 0,081 0.02 mg/m³ (Japan, average 24h) 0,078 0.02 mg/m³ (Japan, average 24h) 0,088 0.02 mg/m³ (Japan, average 24h) 0,086 0.02 mg/m³ (Japan, average 24h) 0,086 0.02 mg/m³ (Japan, average 24h)	24h)average 24h)0,0860.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,0810.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,0780.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,0880.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,0880.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,0860.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,0880.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, average 24h)0,0880.02 mg/m³ (Japan, average 24h)0.15 mg/m³ (Mozambique, 	24h) average 24h) 0,086 0.02 mg/m³ (Japan, average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,078 0,081 0.02 mg/m³ (Japan, average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,076 0,078 0.02 mg/m³ (Japan, average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,076 0,078 0.02 mg/m³ (Japan, average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,073 0,088 0.02 mg/m³ (Japan, average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,079 0,086 0.02 mg/m³ (Japan, average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,078 0,086 0.02 mg/m³ (Japan, average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,078 0,088 0.02 mg/m³ (Japan, average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,078 0,088 0.02 mg/m³ (Japan, average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,077 24h) average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,077 0,088 0.02 mg/m³ (Japan, average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,077 24h) average 24h) 0.15 mg/m³ (Mozambique, average 24h) 0,077 24h) average 24h) 0.15 mg/m³ (Mozambique, average 24h)

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Monitoring Locatio	n	Lione Campsite					
Details of Location		Nearest works	hop				
Samplers Identifications and positions		Fernado Saide -	HSO Con	npany	Sinohydro Corporati	on, Lda	
		Fidel Castro - SI	ES Con	npany	Nippon Koei Mozam	bique, Lda	
Date of Sampling 16 th October 20		16 th October 20	18				
Time of Sampling		15minutes of sa	ampling				
Elapsed-time	Start Time	9:30pm					
Veter Reading	End Time	9:45pm					
Total Sampling	īme (min.)	SP10 Level (µg/m³)	Standard (Legal International Stand		rd (Legal / Mozambique)	SPM2.5 Level (mg/m ³) Standard)	coment
9:32pr	n	- /	0.02 mg/m ³ (Japan, average 24h)		ng/m³ (Mozambique, ge 24h)	0,064	
9:33pr	n	0,075	0.02 mg/m³ (Japan, average 24h)	1	ng/m³ (Mozambique, ge 24h)	0,064	
9:34pm (0,070	0.02 mg/m³ (Japan, average 24h)		ng/m³ (Mozambique, ge 24h)	0,065	
9:35pm		0,000	0.02 mg/m³ (Japan, average 24h)		ng/m ³ (Mozambique, ge 24h)	0,064	
9:36pr	n	0,071	0.02 mg/m³ (Japan, average 24h)		ng/m ³ (Mozambique, ge 24h)	0,063	
9:37pm		0,079	0.02 mg/m ³ (Japan,	0.15 n	ng/m ³ (Mozambique,	0,069	

Page 1 of 2

9:38pm	0,073	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,066	
9:40pm	0,069	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,064	
9:41pm	0,066	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,061	
9:42pm	0,069	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,066	
9:43pm	0,068	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,061	
9:44pm	0,071	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m³ (Mozambique, average 24h)	0,067	
9:45pm	0,069	0.02 mg/m³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,066	
9:46pm	0,074	0.02 mg/m ³ (Japan, average 24h)	0.15 mg/m ³ (Mozambique, average 24h)	0,069	
Weather Conditions	Night				
Site Conditions					
Observations / Remarks					

Record by: Checked by:

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<u>Signature</u> <u>Date</u> 15/10/2018 atteni 19/ 10/2018

Noise Monitoring Program

Details of the activity

Name of Organizer	Sinohydro Corporation, Lda
Date	16 th October 2018
Time	5:25pm to 9:45pm
Venue	
Programme	Noise monitoring activity
Noise Control	Sampling
Measures Adopted	

Noise Monitoring equipment and personnel

0.11.1164	Brand	Model
Sound Level Meter	Smart Sensor Digital sound	AS8153
	Name	Position
Noise Monitoring Staff	Fernando Saide	HSO
	Fidel Castro	SES

Noise Monitoring results

Location of Noise	Lilumile – nearest school and health centre						
Monitoring Point							
Time Period	Background noise level	bise level Noise level of the activity (dBA)					
(e.g. 8pm-8:15pm)	(measured before the	in Leq(5min) in Leq(15min)					in)
	activities)	Min	Ave	Max	Min	Ave	Max
5:25pm to 5:40pm		52.08 58.04 64					64.0
Coment:		1 I					

Location of Noise	Drilling area construction activities						
Monitoring Point							
Time Period	Background noise level	Noise level of the activity (dBA)					
(e.g. 8pm-8:15pm)	(measured before the	in Leq(5min)			in Leq(15min)		
	activities)	Min	Ave	Max	Min	Ave	Max
6:00pm to 6:15pm		60.8 64.25 67				67.7	
Coment:							

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Page 1 of 2

Location of Noise	Quarry (nearest Jaw Crasher)								
Monitoring Point									
Time Period	Background noise level Noise level of the activity (dBA)								
(e.g. 8pm-8:15pm)	(measured before the	in Leq(5min) in Leq(15min)					nin)		
	activities)	Min	Ave	Max	Min	Ave	Max		
7:36pm to 7:51pm		60.0	63.65	67.3	63.6	68.05	72.5		
	The max level increased when dumping stones in jaw crasher								
Coment									

Location of Noise	Lipiche village nearest Quarry							
Monitoring Point								
Time Period	Background noise level Noise level of the activity (dBA)						A)	
(e.g. 8pm-8:15pm)	(measured before the	in Leq(5min) in Leq(15min)					in)	
	activities)	Min	Ave	Max	Min	Ave	Max	
8:30pm to 8:41pm		37.7	53.7	69.7	37.7	48.8	59.9	
Coment:								

Location of Noise	Lione Campsite						
Monitoring Point							
Time Period	Background noise level	Nois	e level	of the	activi	ty (dB.	A)
(e.g. 8pm-8:15pm)	(measured before the	in Leq(5min) in Leq(15min)					nin)
	activities)	Min	Ave	Max	Min	Ave	Max
9:30pm to 9:45pm		34.0	54.2	74.4	34.3	51.65	69.0
	The max level increased w	vhen tr	uck dr	iving r	nearest	sampl	e
Coment	position						

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Water Quality Monitoring - Km 115, Chicalo River

Location		Km 115, Chicalo river					
Date		17 th October 2018					
Start Time (hh:mm)		5:42pm					
Weather		Sun					
Sea Conditions		N/	/Α				
Tidal Mode		N/	Ά				
Water Depth (m)		N/	Ϋ́Α				
Monitoring Depth		Surface	Middle	Bottom			
Salinity		N/A					
Temperature	(°C)	N/A					
DO Saturation	(%)	N/A					
DO	(mg/l)	N/A					
Turbidity	(NTU)	Only visual observation					
SS Sample Identification		N/A					
SS	(mg/l)	N/A					
Observed Construction Activities	<100m from location						
	>100m from location	The water from River st monitoring the quantitie					
Other Observations		The colour of water is not clean.					

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Water Quality Monitoring - Km 142, Lunguena river

Location		Km 142, Lunguena river							
Date		17 th October 2018							
Start Time (hh:mm)		11:00							
Weather		Sun	Sun						
Sea Conditions		N/A							
Tidal Mode		N/A							
Water Depth (m)									
Monitoring Depth		Surface	Middle	Bottom					
Salinity		N/A							
Temperature	(∘C)	N/A							
DO Saturation	(%)	N/A							
DO	(mg/I)	N/A							
Turbidity	(NTU)	Only visual observation							
SS Sample Identification		N/A							
SS	(mg/l)								
Observed Construction Activities	<100m from location								
	>100m from location	The water from River stream the contractor monitoring the quantities of extraction.							
Other Observations		The colour of water is no	ot clean.						
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Jenando Swille 19/10/2018

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