## ENVIRONMENTAL IMPACT ASSESSMENT REPORT

PROPOSED SETTING UP OF AN ASPHALT PLANT AT LA MARIE

DEC

2019

EIA REPORT



This is an Environmental Impact Assessment Report (EIA) for the proposed setting up of an asphalt processing plant over a plot of an extent of 9,983 sq m.

NON	TITLE & SIGNATURE PAGE NON-TECHNICAL SUMMARY CHAPTER 1: INTRODUCTION	
1.1	BACKGROUND	5
1.2	SCOPE	6
1.3	PROMOTER PROFILE	8
1.4	PROJECT JUSTIFICATIONS	9
1.5	LEGAL REQUIREMENTS	12
1.6	PROJECT TEAM	15
1.7	PROJECTED PROJECT TIMELINE	16
<b>1.8</b> CHA	STRUCTURE OF EIA REPORT PTER 2: SITE DESCRIPTION	<b>17</b> 20
2.1	PROJECT SITING	20
2.2	GENERAL SITE FEATURE	21
2.3	SITE OWNERSHIP	22
2.4	SITE STATUS AND ZONING	22
2.5	SITE ACCESSIBILITY	23
2.6	SITE SURROUNDING ENVIRONMENT	24
2.7	STATUTORY PROVISIONS	26
2.8	SITE SENSITIVITY	26
2.9	SITE JUSTIFICATION	26
2.10	OUTLINE PLANNING SCHEME	26
2.11	OUTCOME	27
2.12	SITE GEOLOGICAL CHARACTERISTICS	27
<b>2.13</b> CHA	LOCAL CLIMATIC CONDITIONS PTER 3: PROJECT DESCRIPTION	<b>28</b> 29
3.1	PROJECT OUTLINE	29
3.2	ASPHALT PLANT – OVERVIEW	30

3.3	RAW MATERIALS	31
3.4	EQUIPMENT INVOLVED	32
3.5	FACILITY DESIGN	35
3.6	ASPHALT PROCESSING	36
3.7	PROCESS FLOWS	43
3.8	PRODUCTION CAPACITY & OPERATING HOURS	44
3.9	STORAGE REQUIREMENTS	44
3.10	UTILITIES REQUIREMENTS	45
3.11	TECHNICAL, ECONOMIC & ENVIRONMENTAL FEATURES	46
3.12	REQUIREMENTS	47
3.13	QUALITY ASSURANCE	50
<b>3.14</b> CHA	ENVIRONMENTAL EFFECTS PTER 4: METHOD OF ASSESSMENT	<b>51</b> 52
4.1	OVERVEIW ENVIRONMENTAL ASSESSMENT	52
4.2	APPRAISING ENVIRONMENTAL EFFECTS	52
4.3	BASELINE DATA GATHERING	57
	ASSESSMENT METHODOLOGY PTER 5: PREDICTED ENVIRONMENTAL IMPACT	<b>58</b> 59
5.1	OUTLINE OF ENVIRONMENTAL EFFECTS	59
5. 5. 5. 5. 5. 5.	ENVIRONMENTAL EFFECTS – COMMISSIONING PHASE  2.1 SOLID WASTE MANAGEMENT  2.2 WASTEWATER MANAGEMENT  2.3 AIR QUALITY  2.4 NOISE IMPACT  2.5 TRAFFIC IMPLICATIONS  2.6 VISUAL EFFECTS  2.7 FAUNA / FLORA  2.8 LAND USE / LAND PLANNING  2.9 HEALTH & SAFETY  ENVIRONMENTAL EFFECTS – OPERATIONAL PHASE	60 61 62 63 64 65 66 67 68 69
5.	3.1 SOLID WASTES	71
	3.2 WASTEWATER MANAGEMENT 3.3 AIR EMISSIONS	72 73
	3.4 NOISE IMPACT	73

5.3.5	5 TRAFFIC IMPLICATIONS	75
5.3.6	5 FIRE SAFETY	76
5.3.7	7 FLY & RODENTS	77
5.3.8	B HEALTH & SAFETY	78
5.3.9	9 VISUAL IMPACT	79
5.3.1	10 SOCIO ECONOMIC IMPACT	80
CHAPT	TER 6: MITIGATION MEASURES	81
6.1 A	PPROACH TO MITIGATION MEASURES	81
6.2 N	MITIGATING MEASURES – COMMISSIONING PHASE	82
6.2.1		82
6.2.2		82
6.2.3		83
6.2.4		83
6.2.5	•	84
6.2.6		84
6.2.7		85
6.2.8	B HEALTH & SAFETY	85
	IITIGATING MEASURES – OPERATIONAL PHASE	86
6.3.1		86
6.3.2		87
6.3.3		88
6.3.4		89
6.3.5 6.3.6		90 91
	7 FLY & RODENTS	92
	S VISUAL IMPACT	93
6.3.9		94
	FER 7: RESIDUAL IMPACT	95
	FER 8: SOCIO CULTURAL & SOCIO ECONOMIC IMPACTS	
CHAP	TER 8: SUCIO CULTURAL & SUCIO ECONOMIC IMPACTS	96
8.1 Soc	ial Impacts	96
8.2 Eco	nomic Implications	96
CHAPT	FER 9: MONITORING & MAINTENANCE	97
CHAPT	TER 10: ENHANCEMENT OPPORTUNITIES	105
10.1 Vi	sual Enhancement	105
	TER 11: PROJECT'S ALTERNATIVES	106
11.1	Project's Selection # 1	107
11.2	Site Selection # 2	107
11.3	Project's Features # 3	108
CHAPTER 12: CONCLUSION & SUMMARY OF ENVIRONMENTAL OUTCOMES		
CHAPTER 13: REFERENCES		109 111
	I LIX 10. IXLI LIXLINGLU	111

## LIST OF ANNEXES

- Annex 1: Site Compatibility Assessment
- Annex 2: Asphalt Plant Facility Design
- Annex 3: Solid Wastes Management Plan
- Annex 4: Wastewater Management Plan
- Annex 5: Air Impact Assessment
- Annex 6: Noise Level Modelling
- Annex 7: Fire Safety Assessment
- Annex 8: Occupational Health & Safety
- Annex 9: Preliminary Traffic Assessment
- Annex 10: Compliance to Regulations
- Annex 11: Risk Assessment & Disaster Management Plan
- Annex 12: Frequently Asked Questions (FAQ)
- Annex 13: Preliminary Life Cycle Assessment
- Annex 14: Certificate of Incorporation / Business Card
- Annex 15: Title Deed
- Annex 16: Site Plan & Location Plan
- Annex 17: Context Plan
- Annex 18: Site Layout Design
- Annex 19: Equipment Specifications
- Annex 20: Process Flow Diagram
- Annex 21: Fire Safety Drawing
- Annex 22: Material Safety Data Sheets