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**BIOFIL TECHNOLOGIES  
NIGERIA LIMITED**

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**SHELL PETROLEUM DEVELOPMENT COMPANY**  
Port Harcourt, Rivers State

**METHODOLOGY AND PROGRAMME OF WORK**

**INTEGRATED WASTE TREATMENT PLANT (IWTP)**  
[A SUSTAINABLE WASTE MANAGEMENT SOLUTION]

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# **1 METHODOLOGY**

## **1.1 Site Organization**

### **Site Office / Warehouse**

A temporary site office and warehouse will be needed to house the foreman, bricks, cement and some construction tools and other materials for the project. We will however liaise with the site manager for allocation of a land space or room for this purpose.

### **Housekeeping**

Biofil Technologies Nigeria Limited will, at all times ensure and as far as practicable that the works are kept in a clean and tidy manner. Unwanted debris from the clearing and earthworks and other materials will be cleared from site either immediately or stockpiled carefully for subsequent removal.

### **Working Hours**

It is intended that normal site hours be from 07:30 – 17:00 hrs Monday to Saturday inclusive with a break between 12:00non – 1:00pm for lunch.

### **Security**

BIOFIL TECHNOLOGIES will make use of the site security for the protection of its materials, equipment and assets. BIOFIL TECHNOLOGIES personnel will be issued with safety reflector jackets and will liaise and co-ordinate its activities with the relevant authorities e.g. Project Manager and Site Security as and when required.

## **1.2 Method statement**

This document forms the framework for the approach to be employed by BIOFIL TECHNOLOGIES during the period of the contract.

### **Duration of works**

Due note has been taken of the requirement to commence clearance and site preparation immediately after the initial payment. The works will be completed and handed over within the

stipulated period. In order to achieve this, works will proceed through the normal industry days from Mondays to Saturdays.

### **Holidays**

On public holidays, our personnel will not be on site unless agreed with the client to continue work on site. We shall also observe holidays, as our programme of work exclude public holidays.

### **Personnel Protective Equipment**

All personnel will wear safety boots, protective overalls and helmets at all times. Ear defenders, gloves and goggles will be worn for operations, which require them.

### **General problems that could arise**

- There could be the problem of bad weather in the form of prolonged rainfall, which could delay the works.
- In such cases, an extension of time could be asked from the client. However, as much as we can, all the works will be protected against bad weather.
- There could be possibilities of price hikes, this could have an adverse effect on our rates and could lead to cost over runs.
- We will ensure that our store is well stocked with every material needed to complete the entire project on schedule.

### **Demobilisation and handing over**

The last two days of the project will be used to demobilize our staff and equipment from the site. We shall clear and clean the site and hand-over the project at the stipulated time.

## **1.3 Mobilization Schedule**

### **Mobilisation**

Within a period of 5 days from the date of initial payment of the contract, we shall mobilize our staff, equipment and materials to site.

#### 1.4 Work programme

ITEM	TASK	PERIOD	DATES
1	Site Clearing and Excavation	3 days	10 <sup>th</sup> to 12 <sup>th</sup> Dec. 2018
2	Stabilization and Bio-digesters base construction	3 days	13 <sup>th</sup> to 15 <sup>th</sup> Dec. 2018
3	Laying of bricks for Digesters dome	14 days	17 <sup>th</sup> to 9 <sup>th</sup> Jan. 2019
4	Plastering of both inside and outside of dome digesters	4 days	10 <sup>th</sup> to 14 <sup>th</sup> Jan. 2019
5	Construction of Digesters expansion chambers	6 days	15 <sup>th</sup> to 21 <sup>st</sup> Jan. 2019
6	Construction of Filtration beds	6 days	22 <sup>nd</sup> to 28 <sup>th</sup> Jan. 2019
7	Construction of slabs cover for filtration bed and last inspection chambers	2 days	29 <sup>th</sup> to 30 <sup>th</sup> Jan. 2019
8	Introduction of filtration media and sealing of filtration cover slabs	1 day	31 <sup>st</sup> Jan. 2019
9	Laying of effluent and biogas pipes	3 days	1 <sup>st</sup> to 4 <sup>th</sup> Feb. 2019
10	Installation of effluent treatment system (dosing system)	2 days	5 <sup>th</sup> to 6 <sup>th</sup> Feb. 2019
11	Installation of Shredding Machine	1 day	7 <sup>th</sup> Feb. 2019
12	Backfilling and cleaning of the environment	2 days	8 <sup>th</sup> to 9 <sup>th</sup> Feb. 2019
13	Handing Over	1 day	11 <sup>th</sup> Feb. 2019
14	<b>TOTAL</b>	<b>48 days</b>	