

SCOPE OF WORK

PROJECT TITLE: LPG PLANT CONSTRUCTION AND FABRICATION (IPORIN PLANT)

1. PRE-INSTALLATION WORKS

- a. Mobilization of site personnel
- b. Mobilization of site equipment
- c. Erection of temporary buildings

2. CIVIL WORKS

- a. Construct concrete platform with steel beam roofing for cylinder filling (3m/6m)
- b. Cast 4Nos. concrete pit for platform scales
- c. Construct Fire water pump shed
- d. Construct Pump shed
- e. Security House and 2 nos. steel gates
- f. Generator Concrete Base
- g. Office structure (3 offices, 3 toilets, 1 open area (office/showroom))
- h. Perimeter Fencing (2 side only)
- i. Office Area Flooring
- j. General Painting
- k. Tank plinth (2 nos. tanks)
- l. Water Tank foundation
- m. Access road construction within as shown in drawing
- n. Paving stone car parking area as shown in drawing

3. ELECTRICAL WORKS

Provide and install cables & glands to be used in the following locations:

- a. Electrical cables from powerhouse to pump shed
- b. Electrical cables to power for pump electric motor control panel (Panel not included in scope).
- c. Electrical cable for electronic filling scales panel
- d. PHCN connection (meter to be provided by client)
- e. Electrical cable for air compressor
- f. Provide and install the required explosion proof light fittings for plant area filling shed, pump house).
- g. Light fitting for office building
- h. Provide and Install 2 nos. 3.75kw air conditioner for office building as per
- i. Provide fire alarm for office building as specified in BOQ
- j. Electrical cables for office building
- k. Earthing and lightning arrestor
- l. Perimeter lighting

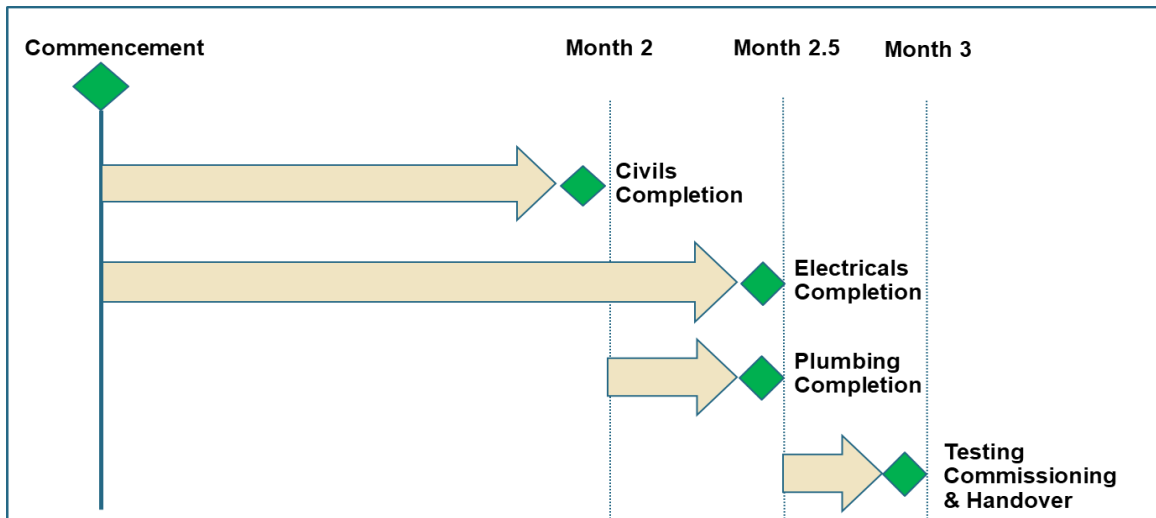
4. Domestic Water Installations

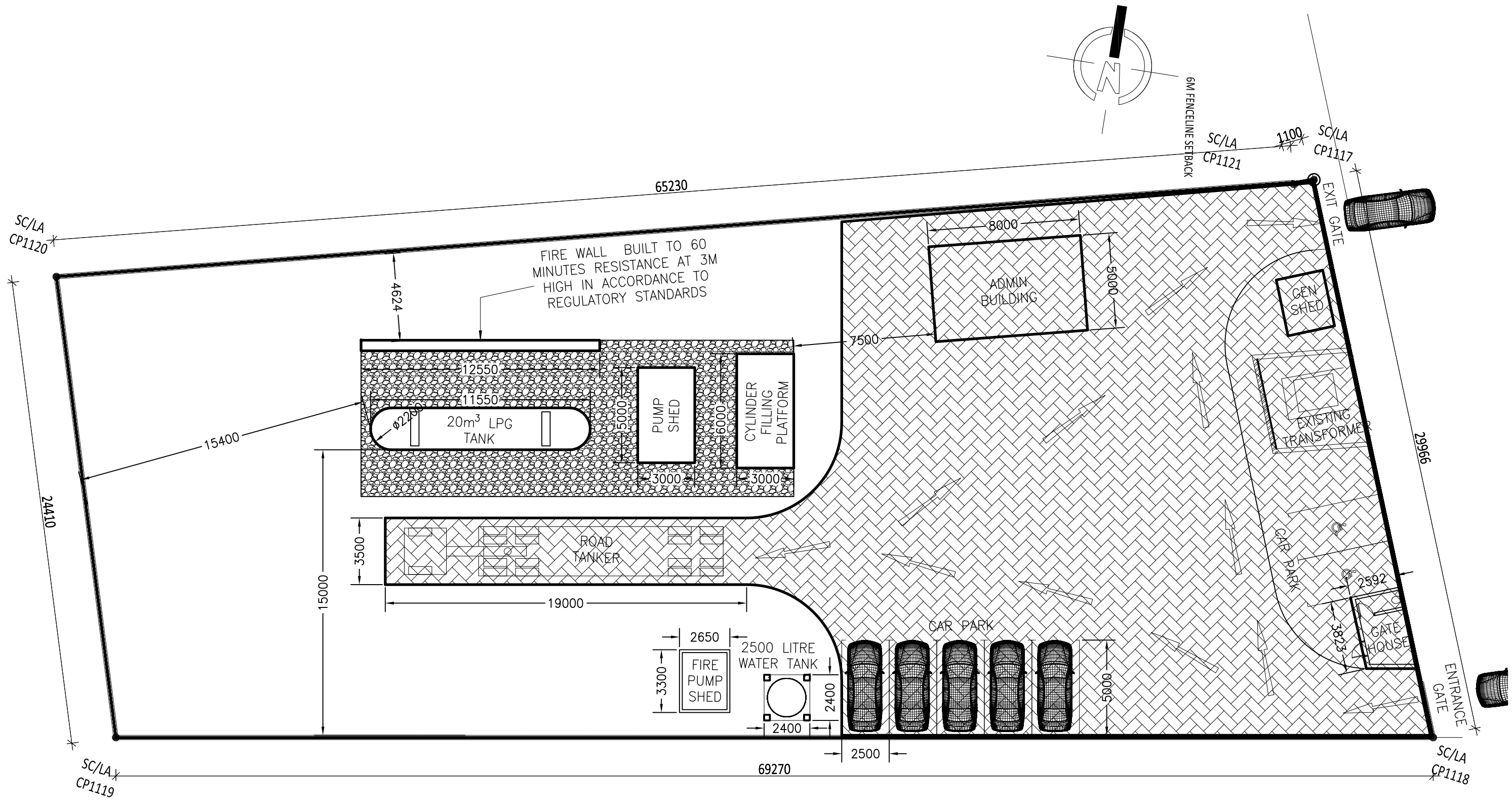
- a. Provide Borehole with Submersible Pumping Machine
- b. Provide PVC overhead water tank with scaffolding as specified in BOQ
- c. Provide fire extinguishers for office building as specified in BOQ.
- d. Provide all associated valves and materials

5. Post installation works

- a. Test all electrical installation
- b. Evacuate all equipment from site
- c. Carry outhouse keeping and site cleaning
- d. Hand over.

Project Duration: 90days:





WASTEWATER DISPOSAL					
ITEM	DESCRIPTION	QTY	UNIT	RATE	₦ : K
<u>EXCAVATION AND FILLING</u>					
A	Excavate foundation pit commencing at 150mm below ground level and not exceeding 4.0m deep.	54	cu.m		-
B	Backfill with selected excavated materials around foundation	15	cu.m		-
<u>disposal of materials</u>					
C	Load up and remove from site surplus excavated materials	1	Lump		-
<u>Concrete</u>					
D	Plain in-situ concrete (1:3:6 - 40mm aggregate) blinding not exceeding 100mm thick over well compacted sharp sand	2	cu.m		-
<u>CONCRETE WORKS</u>					
<u>Vibrated reinforced in-situ concrete grade 25 with a works cube strength of 25N/sq. m at 28 days 16m3 total volume filled into formwork and well packed around reinforcement (formwork and reinforcement both measured separately) in:</u>					
E	Slab (Base 300mm high)	2.7	cu.m		-
F	Slab (top 200mm high)	1.8	cu.m		-
G	Wall (200mm thick)	10.8	cu.m		-
<u>REINFORCEMENT</u>					
H	10-12mm diameter in slab	0.5	Ton		-
J	10- 12mm diameter in wall (200mm thick)	0.25	Ton		-
<u>Formwork</u>					
<u>Sawn formwork to the following:</u>					
K	Sides of Wall and soffit of top slab	48	sq.m		-
L	Ditto edge of slab	24	m		-
<u>RENDERING</u>					
<u>15mm cement and sand (1:4) smooth rendering on concrete or blockwork</u>					

A	Concrete walls	72	sq m		-
TO SUMMARY					-
<u>EXTERNAL</u> <u>SOIL, WASTE AND RAINWATER PIPEWORK INSTALLATION</u> <u>DPR pipes and fittings unless otherwise stated. (PROVISIONAL)</u>					
A	100mm diameter waste/vent/soil/Rain pipe	200	m		0.00
B	100mm bend (90° & 45°)	22	Nr		0.00
C	100mm tee (straight & WYE)	24	Nr		0.00
D	100mm vent cowl	18	Nr		0.00
E	100mm plug	12	Nr		0.00
F	100mm pan connector	10	Nr		0.00
K	100mm Socket	10	Nr		0.00
M	100mm rain water outlet	10	Nr		0.00
O	Accessories, tangit gum, brackets etc.	1	lot		0.00
BUILDERS WORK					
P	Allow for builder's work in connection with soil,	1	item		
TO SUMMARY					-
ITEM	DESCRIPTION	QTY	UNIT	RATE	₦ : K
	Soak Away and Septic Tank				-
	Soil and Waste Pipework				-
TOTAL FOR WASTEWATER DISPOSAL					-