

THE PROJECT

# PROPOSED RENOVATION OF FILLING STATION

THE LOCATION  
**190, IPAJA ROAD, AGEGE, LAGOS STATE**

THE CLIENT  
**IBILE OIL AND GAS CORPORATION**  
**No. 6AA Milverton Street, Ikoyi, Lagos State.**



**INVITATION TO TENDER (ITT)**

**FEBRUARY 2022**

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## **DESCRIPTION OF WORKS**

The works comprise general renovation of the existing Filling Station's Main Building, Generator House and associated External works as directly connected to the work - Station Service Station, Office/Lube Bay, Generator/Panel House, Mechanical Installations and Electrical Installations.

## **INSTRUCTIONS TO TENDERERS**

1. Tenderers are to read carefully the documents provided for tendering, examine the drawings, visit and examine at their own expense the site of the project and obtain for themselves at their own responsibility all requisite information for making a tender and they will be deemed to have included in their tender figures for the implications and requirements of the Contract Documents.
2. Upon receipt of the Bills of Quantities, the Contractor is to check the number of pages and should any be missing or in duplicate or if any writing or figures be indistinct or if any of the wordings be ambiguous or the meaning of intention not clear, he is to notify the Architect and have the matter clarified and / or rectified before his tender is submitted. No claims for increases in the Tender figure will be entertained subsequent to its acceptance on the grounds of misrepresentation.
3. The tender is to be made out in ink on the official Form of Tender provided herewith. This tender form is to be submitted enclosed and sealed in the tender envelope provided herewith. The Tender amount is to be written in words and figures in the spaces provided and is to be signed in full by the principal of the firm authorised to do so. The full name and address of the Contractor shall be printed in block letters or typed in the space provided below the signature.
4. The Form of Tender duly completed and the Bills of Quantities duly priced, extended and totaled are to be sealed in the respective envelopes provided and delivered by hand or registered post to:

**IBILE OIL AND GAS CORPORATION  
No. 6AA Milverton Street, Ikoyi,  
Lagos State.**

so as to reach us not later than 12.00 hours on the 11<sup>th</sup> of March, 2022.

### **TENDERS RECEIVED AFTER THIS TIME WILL NOT BE CONSIDERED.**

The full name and address of the Contractor must be printed in block letters or typed at the back the envelop.

5. No claims for increases in the Tender figure or Bill Rates will be entertained subsequent to the acceptance of the Tender on the grounds of any promise, guarantee or instruction whether verbal or written given by the Employer or Architects other than allowed for in the Contract.
6. All errors arising either out of extension or summation will be corrected and the tenders will be judged on the corrected tenders.
7. The tenderer shall be expected to fully mobilize equipment, temporary buildings and staff to the site within an agreed and reasonable period immediately after the official handing-over

of the site. Any Advance Payment made to the Contractor by the Employer for purchases of approved materials, goods and equipment must be secured by a BOND obtained from an approved BANK or INSURANCE COMPANY as directed by Foreign Service Academy. Payment will be made only upon the approval of the BOND by the Bank.

8. The Contractor shall take out full insurance to cover the whole works and indemnify the Employer from all possible claims arising during the execution of the works.
9. The Person whose tender is accepted will be required to execute a formal agreement in the form annexed.
10. The Employers do not bind themselves to accept the lowest or any tender and will not assign any reason for the rejection of any tender.
11. Programme of Construction
12. The Tenderer shall submit with his Tender particulars of his proposed programme of construction, and a description of the methods of construction he proposes to adopt.
13. Notwithstanding the requirement that work is to be completed on schedule, Contractors are advised to note that the completion period still remains a competitive part of the Tender.
14. Plan of Operations to be Furnished
15. After the acceptance of his Tender and before the commencement of the Works, the Contractor shall submit to the Architect, for his approval, a detailed "Plan of Operations" and programme showing the order of procedure and method in which he proposes to carry out the Works and shall submit, in writing, particulars of his arrangements of the execution of the Works, for the mobilization of constructional Equipment and Temporary Works which he intends to supply, use or construct as the case may be. The submission to and approval by the Architect of such programme or the furnishing of such particulars shall not relieve the Contractor of any of his duties or responsibilities under the Contract.
16. The Contractor whose tender is accepted must ensure that they have a registered COREN Engineer on site.

## **FORM OF TENDER**

To: .....

IBILE Oil and Gas Corporation,  
No. 6AA Milverton Street, Ikoyi,  
Lagos State.

Dear Sir,

**RE: PROPOSED RENOVATION OF NIPCO FILLING STATION FOR IBILE OIL AND GAS CORPORATION  
AT 190, IPAJA ROAD, AGEGE, LAGOS STATE.**

1. We ..... the undersigned, do hereby offer to refurbish and complete the works described in these bills of quantities and in accordance with the conditions of contract for the sum of:  
.....  
.....  
(N.....)

2. We undertake, if our tender is accepted, to commence the works within 2 weeks of the receipt of your letter of award and to complete and deliver the works comprised in the contract within ..... Months calculated from the last day of the aforesaid period in which the works are commenced.
3. We agree to abide by this tender for a period of four weeks from the day fixed for receiving the same and it shall be binding upon us and may be accepted at any time before the expiration of that period.
4. Unless and until a formal agreement is prepared and executed, this tender, together with the written acceptance thereof, shall constitute a binding contract between us and Ibile Oil and Gas Corporation.
5. We understand that IBILE Oil and Gas Corporation is not bound to accept the lowest or any tender it may receive.

Dated ..... Day of ..... 2022

Signature: .....

In the capacity of .....

Duly authorized to sign tenders for and on behalf of:

Company: .....

Address: .....

.....

WITNESS:

Signature:.....

Name: .....

Occupation: .....

# **BILL OF QUANTITIES**

## **SERVICE STATION**

<b>ITEM</b>	<b>Description</b>	<b>Qty</b>	<b>unit</b>
	<b><u>SERVICE STATION CANOPY</u></b>		
A	Allow a Provisional Sum of N500,000.00 for roof leakages	1	Sum
	<b><u>Civil Works</u></b>		
	<b><u>Concrete Work</u></b>		
	<u>In-situ concrete</u>		
	<u>Grade 20 (1:2:4); Reinforced;</u>		
B	Dispenser Base( Diesel and Kerosine)	2	m <sup>3</sup>
	<u>Sawn formwork;</u>		
C	Sides and soffits of lintels	12	m <sup>2</sup>
	<u>Bed and Backing</u>		
	<u>Cement and sand sand(1:3)</u>		
D	15mm floated backing.	12	m <sup>2</sup>
	<b><u>Tile,slab and block finishings</u></b>		
	<u>Supply and fix the following;</u>		
	<u>wall tiles laid level on wall with approved adhesive to cement and sand bed(measured separately)including pre-grouting joints with matching cement.</u>		
E	Quary Floor tiles(Fuel dispender bases)	50	m <sup>2</sup>
	<b><u>Painting and Decoration</u></b>		
	<u>Prepare and apply three coats to Berger Paint or equal equal approved gloss paint on:</u>		
F	Rendered walls internally( Epoxy primer Red and Epoxy primer grey) on sides and soffit of canopy with column poles	450	m <sup>2</sup>
G	Rendered walls internally( Marine coating White)	450	m <sup>2</sup>

	on sides and soffit of canopy with column poles		
<b><u>SERVICE STATION CANOPY CONTD</u></b>			
<b><u>SIGNAGE</u></b>			
A	1200X3500mm high <b>Pylon Signage</b> Led Display, Conopy logo on Canopy roof fuel dispensing machine and illuminated perimeter lights.	1	Sum
B	Allow a Provision for supply and installation of aluminum long span roofing sheet 0.70mm guage in accordance to design	420	m <sup>2</sup>
C	1mm thick plain plate as fascial cladding including painting	90	m <sup>2</sup>
D	Ditto in Stand pole Clading	20	m <sup>2</sup>
E	Supply and fix high quality Alucobond cladding complete with steel frame hanger and other accessories	90	m <sup>2</sup>

## OFFICE / LUBE BAY

ITEM	Description	Qty	unit
A	Carefully hack-off existing wall finishes to receive new work including cart away (internal wall) Lube bay	220	m <sup>2</sup>
B	Carefully hack up existing floor tiles including the cement/sand bed and cart away	120	m <sup>2</sup>
C	Carefully remove all the existing ceiling finishes including cart away from site	150	m <sup>2</sup>
<i>Carefully remove the following and store as directed</i>			

D	Aluminium fixed window size 2000 x 1200 ( with metal burglary)	2	nr
E	Aluminium sliding window size 1800 x 1200 ( with burglary)	5	nr
F	Ditto 600 x 600 ( without burglary)	3	nr
<b>Wooden doors</b>			
G	Ditto size 900mm x 2100mm high	4	nr
H	Ditto size ; size 750mm x 2100mm high	3	nr
<b>Metal doors</b>			
J	Size 1200 x 1200	2	nr
K	Ditto 900 x 1200	3	nr
<b>Aluminium Entrance Door</b>			
L	Size 1200 x 1200	1	nr
M	Water closet ( WC)	3	nr
<b>Demolition Carried to collection</b>			
<b>WINDOWS</b>			
<b><u>ALUMINUM WINDOWS</u></b>			
<u>Supply and fix high quality white powder coated aluminium windows with 6mm tinted glass and aluminium flyscreen complete with fittings including locks,plugging and screwing to concrete and blockworks.</u>			
A	2600x1500mm high two leave sliding aluminium hinged window	2	Nr.
B	2400x1500mm high two leave sliding aluminium hinged window ( W2)	3	Nr.
C	Allow provisional sum of N250,000 for iron burglar proof for windows(ALL Windows)	1	Nr
<b>DOOR</b>			
<b><u>Metal Door</u></b>			



A	900x2100mm imported purpose made metal security door complete with frames and ironmongery( Station office ,back toilet )	7	Nr
B	1500 x 2400mm high swing door with Stainless handle in the main entrance	1	No
C	Allow for Servicing of existing roller shutter door at the service office 2600 x 1500mm	3	No
<b>FLOOR FINISHES</b>			
<u>Beds and Backing:</u>			
<u>Cement and sand (1:3):</u>			
A	44mm floated bed	120	m2
<b><u>Tile,slab and block finishings</u></b>			
<b><u>Supply and fix the following:</u></b>			
<u>Floor tiles laid level on floor with approved adhesive to cement and sand bed(measured separately)including pre-grouting joints with matching cement.</u>			
B	600x600x8mm glazed vitrified floor tiles	85	m <sup>2</sup>
C	Ditto quarry tiles in lube bay	35	m <sup>2</sup>
D	600x600x8mm glazed vitrified floor tiles external walk way	35	m <sup>2</sup>
E	100mm wide 600x600mm glazed vitrified wall skirting.	140	m
<b>WALL FINISHES</b>			
A	Allow a Provisional Sum of N250,000 for dressing and making goods around doors, windows and other broken areas;	1	Nr
<b><u>Wall Finishing</u></b>			
<b><u>TILING</u></b>			
High quality wall tiles fixing with adhesive on cement			

	<u>mortar, grouting with matching cement grout - rate to include pvc genesis angle to edges of files</u>		
B	Spanish White 400 X 250 Glazed wall tiles on sand and cement base (measured separately) internally	110	m2
C	Ditto 15mm thick bedding	110	m2
	<b><u>Painting and Decoration</u></b>		
	<u>Prepare and apply three coats to Fine coat or equal equal approved emulsion paint on:</u>		
D	Rendered walls internally	275	m <sup>2</sup>
	<u>POP Wall Screeding</u>		
E	Plaster of Paris Screed rendering on plastered surfaces, steel trowelled and sanding on completion internally.	155	m <sup>2</sup>
F	Plaster of Paris Screed rendering on plastered surfaces, steel troweed and sanding on completion Externally.	176	m <sup>2</sup>
	<b><u>Prepare and apply Fine Emusion wall finish to:</u></b>		
G	Rendered walls externally. (SANDTEX MATT)	176	m <sup>2</sup>
	<b><u>Prepare and apply Fine Gloss wall finish to:</u></b>		
H	Fascia board	45	m <sup>2</sup>
	<b><u>CEILING FINISHES</u></b>		
	<u>In-situ finishings</u>		
	<u>Suspended Ceiling; exposed grid system comprising 1.5mm white galvanized steel grid at 600mm centers both ways filled with white laminate</u>		
A	Supply and install 600 x 600 x 15mm thick laminated gypsum board on the internal ceiling area ,	120	m <sup>2</sup>

## GENERATOR / PANEL HOUSE

ITEM	Description	Qty	unit
	<b><u>WINDOWS</u></b>		

	<b><u>ALUMINUM WINDOWS</u></b>		
	Supply and fix high quality white powder coated aluminium windows with 6mm tinted glass and aluminium flyscreen complete with fittings including locks,plugging and screwing to concrete and blockworks.		
A	900x950mm high one leave casement aluminium projected window	1	Nr.
	<b><u>DOOR</u></b>		
	<b><u>Metal Door</u></b>		
A	750x2100mm imported purpose made metal security door complete with frames and ironmongery( Store)	1	Nr
B	See through metal gate size 1800x 2100mm high in acordance to Architect drawings	2	Nr
	<b><u>FLOOR FINISHES</u></b>		
	<u>Beds and Backing:</u>		
	<u>Cement and sand (1:3):</u>		
A	44mm screeded bed	40	m2
	<b><u>WALL FINISHES</u></b>		
A	Allow a Provisional Sum of N50,000 for dressing and making goods around doors, windows and other broken areas;	1	Nr
	- <b><u>Painting and Decoration</u></b>		
	<u>Prepare and apply three coats to SANDTEX MATT or equal equal approved emulsion paint on:</u>		
B	Rendered walls internally	85	m <sup>2</sup>
	<u>POP Wall Screeding</u>		
C	Plaster of Paris Screed rendering on plastered surfaces, steel		

	trowelled and sanding on completion internally.	85	m <sup>2</sup>
D	Plaster of Paris Screed rendering on plastered surfaces, steel troweed and sanding on completion Externally.	70	m <sup>2</sup>
	<b><u>Prepare and apply Fine Emusion wall finish to:</u></b>		
E	Rendered walls externally.	70	m <sup>2</sup>
	<b><u>Prepare and apply Fine Gloss wall finish to:</u></b>		
F	Fascia board	6	m <sup>2</sup>
	<b>CEILING FINISHES</b>		
	<u>In-situ finishings</u>		
	<u>Suspended Ceiling; exposed grid system comprising 15mm white galvanized steel grid at 600mm centers both ways filled with white laminate</u>		
A	Supply and install 600 x 600 x 15mm thick laminated gypsum board on the internal ceiling area ,	5	m <sup>2</sup>

## EXTERNAL WORKS

ITEM	Description	Qty	unit
	<b><u>EXTERNAL WORKS</u></b>		
	<b><u>Fence</u></b>		
	<b><u>Concertina Wire</u></b>		
A	Provide and install 600mm diameter concertina wire with y-angle on newly constructed fence.	100	m
	<u>Painting Render; Prepare and Apply one prime coat and two finishing coats of GREY FIRE RETARDENT SUPERIOR TEXTURED paint; including making good existing fence wall to receive paint</u>		
B	Walls; over 300 girth; (Fence)	810	m2
C	Fabricate and install main gate size 12000 x 1200mm high	3	Nr

D	Ditto fabricate and install metal dwarf front fence 26500 x 1200mm high	1	Nr
	Ditto size 18000 x 1200mm high	1	Nr
	<b><u>Other External works</u></b>		
E	Supply and Install Bollard pole filled concrete at carpark/ filling shed barricade	50	Nr
	<b><u>DRIVE/ WALKWAY</u></b>		
F	Supply and spread granite chipping on the compound of the gas plant 50mm thick	905	m2
G	Allow for concrete slab with formwork and reinforcement on drainage for drive in and out	7	m3
H	Allow for concrete walkway from filling station to generator house, with fabric mesh reinforcement and formwork (measured together)	5	m3
J	150 x 450 kerb; 450 x 200 foundation	70	m
	Allow for making good existing concrete in floor in station.		Sum

## MECHANICAL INSTALLATIONS

ITEM	Description	Qty	unit
	<b><u>FIRE FIGHTING SYSTEM</u></b>		
A	<b>Pipes (Black Steel SCH 40)</b>		M
i.	100mm dia.	95	"
ii.	75mm dia.	190	"
iii.	50mm dia.	90	"
iv.	25mm dia.	20	"
B	<b>Tees (BS.)</b>		Nos
i.	100 x 100 x 100mm dia.	1	"
ii.	100 x 65 x 100mm dia.	4	"
iii.	50 x 50 x 50mm dia.	8	"
iv.	50 x 25 x 50mm dia.	5	"
C	<b>Elbow (BS)</b>		Nos
i.	100mm dia.	15	"
ii.	75mm dia.	25	"
iii.	50mm dia.	20	"
iv.	25mm dia.	15	"

D	<b>Reducing Socket (BS.)</b>		
i.	100 x 25mm dia.	1	Nos "
ii.	50 x 25mm dia.	1	"
E	<b>Socket (BS.)</b>		Nos
i.	100mm dia.	15	"
ii.	75mm dia.	26	"
iii.	50mm dia.	20	"
iv.	25mm dia.	6	"
F	<b>Fire Hydrant</b>		Nos
i.	75mm dia.	4	"
G	<b>Fire Hose Reel</b>		Nos
i.	Automatic swing fire hose reel with 30m long of 25mm dia. Make Augus	3	"
J	<b>Landing Valve</b>		Nos
i.	65mm dia.	3	"
K	<b>Breeching Inlet</b>		Nos
i.	100mm dia.	1	"
L	<b>Gate Valve</b>		Nos
i.	75mm dia.with flange	8	"
ii.	50mm dia.	6	"
iii.	25mm dia.	4	"
	<b><u>FIRE FIGHTING SYSTEM Contd.</u></b>		
A	<b>Supporting Brackets with threaded rod &amp; Anchor bolt</b>		Nos
i.	100mm dia.	10	"
ii.	75mm dia.	8	"
iii.	50mm dia.	10	"
iv.	25mm dia.	6	"
B	<b>Nipple(Black Steel)</b>		Nos
i.	100mm dia.	4	"
ii.	75mm dia.	12	"
iii.	50mm dia.	10	"
iv.	25mm dia.	8	"
C	<b>union connector(Black Steel)</b>		Nos
i.	75mm dia.	8	"
ii.	50mm dia.	4	"
iii.	25mm dia.	4	"
D	<b>Reducing Bushing (BS.)</b>		Nos

i.	75 x 50mm dia.	2	"
ii.	50 x 25mm dia.	4	"
E	<b>Air Automatic Air Vent</b>		"
i.	25mm dia.	2	"
F	<b>Gate Valve</b>		Nos
i.	100mm dia.	1	"
G	<b>Non Return Valve</b>		"
i.	75mm dia.	4	"
ii.	50mm dia.	4	"
H	<b>Flange with Rubber Parking</b>		
i.	100mm dia.	1	"
ii.	75mm dia.	16	"
iii.	65mm dia.	4	"
J	<b>Fire Extinguisher</b>		
i.	9Kg Dry Powder	15	"
ii.	9Kg CO2	15	"
iii.	Fire Bucjket	10	"
K	Fire Sprinkler Pump c/w jockey pump. Capcity: 20L/sec at 6000pa 1 Electric 1 Diesel Make: Naffco or Approved Equal	1	Set
L	22mm dia Bolt and Nut	98	Nos
M	75mm dia foot valve	1	Nos
N	All other items necessary for a complete installation including pipe brackets		Lots
<b>SANITARY WARES INSTALLATION</b>			
<b><u>Supply and Fix Only</u></b>			
A	Twyford Water Closet (Close couple trap S4300 outlet) TWYFORD or approved equivalent	3	No
B	Twyford Wash Hand Basin - c/w 00 x 420mm. or approved equivalent	3	No

	Supplyg and Fix the following items		
C	15mm dia angle valve	45	Nos
D	15mm dia chrome flexible connector	45	Nos
E	Wash basin Tap	10	Nos
F	100mm dia Pan Connector	10	Nos
5	Toilet roll holder	6	Nos
6	Hand drier	6	Nos
7	Soap Dispenser	6	Nos
8	32mm dia bottle trap with magic waste	15	Nos
9	All other items necessary for a complete installation including pipe brackets		Lots

## ELECTRICAL INSTALLATIONS

ITEM	Description	Qty	unit
<b>1</b> <b>A</b>	<b>OFFICE/LUBE BAY</b> <b>LIGHTING FITTING</b>		Nos
	Supply and install the following:		
1	2 x 36W LED Fluorescent fitting	4	Nos
2	2 x 36W IP65 LED Fluorescent fitting	5	Nos
3	40W 600mm x 600mm recessed panel light fitting	15	Nos
4	100W LED Flood light fitting	3	Nos
5	24W LED Surface downlight fitting	4	Nos



6	24W White prismatic bowl luminaire	10	Nos
7	Extractor fan	2	Nos
8	Installation Accessories		Lot
<b>B</b>	<b>SWITCHES &amp; ACCESSORIES</b>		
	Supply and install the following:		
1	10A1-Gang 1-Way Switch	30	Nos
2	13A Twin Switch Socket Outlet	20	Nos
3	13A Twin Switch Socket Outlet IP65	20	Nos
4	20A Double Pole switch	10	Nos
<b>C</b>	<b>CONDUITING &amp; WIRING</b>		
	Supply and run the following PVC Pipes, Cables and Accessories - All cables to be Nigercin or approved equal		
1	Light points using 1.5mm <sup>2</sup> sc cable in 20mm dia. PVC Pipes	20	Nos
2	Power point using 2.5mm <sup>2</sup> sc cable in 20mm Dia. PVC Pipe	40	Nos
3	Power point(20A & 15A) using 4.0mm <sup>2</sup> sc cable in 20mm Dia. PVC Pipe	10	Nos
4	Installation Accessories		Lot
<b>D</b>	<b>CONTROL AND PROTECTION</b>		
	Supply and install the following:		
1	100A 4- Way TPN MCB Distribution Board with integral isolator	2	Nos

2	100A 8- Way TPN MCB Distribution Board with integral isolator	1	No
3	32A Enclosed TPN MCCB	6	Nos
4	32A 4P Isolator	4	Nos
5	Installation Accessories	Lot	
<b>E</b>	<b>SLEEVES</b> Supply and install the following: PROVISIONAL QUANTITIES		
1	100mm Diameter UPVC Pipe	100	m
2	50mm Diameter UPVC Pipe	50	m
3	Installation Accessories		Lot
<b>2</b>	<b>GENERATOR</b>		
<b>A</b>	<b>LIGHTING FITTING</b> Supply and install the following:		Nos
1	2 x 36W LED Fluorescent light fitting	6	Nos
2	40W 600mm x 600mm recessed panel light fitting	4	Nos
3	Installation Accessories		Lot
<b>B</b>	<b>SWITCHES &amp; ACCESSORIES</b> Supply and install the following:		
1	10A1-Gang 1-Way Switch	3	Nos
2	13A Twin Switch Socket Outlet	7	Nos
3	13A Twin Switch Socket Outlet IP65	4	Nos
4	20A Double Pole switch	1	Nos
5	Connection pont for AC outlet	1	Nos
6	Installation Accessories		Lot

<b>C</b>	<b><u>CONDUITING AND WIRING</u></b> Supply and run the following PVC Pipes, Cables and Accessories - All cables to be Nigerchin or approved equal		
1	Light points using 1.5mm <sup>2</sup> sc cable in 20mm dia. PVC Pipes	10	Nos
2	Power point using 2.5mm <sup>2</sup> sc cable in 20mm Dia. PVC Pipe	11	Nos
3	Power point(20A & 15A) using 4.0mm <sup>2</sup> sc cable in 20mm Dia. PVC Pipe	1	Nos
4	Installation Accessories		Lot
<b>D</b>	<b><u>CONTROL AND PROTECTION</u></b> Supply and install the following:		
1	32A 4- Way SPN MCB Distribution Board with integral isolator	1	Nos
2	Installation Accessories	Lot	
<b>E</b>	<b><u>SLEEVES</u></b> Supply and install the following: PROVISIONAL QUANTITIES		
1	100mm Diameter UPVC Pipe	100	m
2	50mm Diameter UPVC Pipe	60	m
3	Installation Accessories		Lot
<b>3</b>	<b><u>SEVICE STATION/ EXTERNAL</u></b>		
<b>A</b>	<b><u>LIGHTING FITTING</u></b> Supply and install the following:		Nos
1	400W IP65 Flood light fitting	19	Nos
2	3.2M Standard steel lighting pole	19	Nos
3	24W LED Fire rated Canopy light	22	Nos
4	Site signage	1	Nos
5	Installation Accessories		Lot
<b>B</b>	<b><u>POWER EQUIPMENT</u></b> Supply and install the following:		
1	11/.415KV 300KVA Transformer	1	No

2	Allow for earthing of transformer and generator		Lot
3	Allow for civil works like transformer plinth, generator plinth and transformer fence.		Lot
4	Installation Accessories		Lot
<b>C</b>	<b><u>SUB - STATION ACCESSORIES</u></b> Supply and Install the following:		
1	10.3M Concrete pole	2	Nrs
2	11kV Gang isolators c/w lever	1	set
3	Raychem kit	1	set
4	11KV Lightning arrester	1	Set
5	11kV D - fuse	1	Set
6	11KV Channel iron	6	Nrs
7	Excavation and erection of pole		Lot
8	Installation Accessories		Lot
<b>D</b>	<b><u>CONNECTION FEES</u></b>		
1	IKEDC fees (Processing, testing and commissioning)		Lot
2	NEMSA Fees		Lot
<b>E</b>	<b><u>LOW VOLTAGE SWITCHBOARD</u></b>		
<b>3</b>	<b><u>PANEL</u></b> 400A TP MCCB panel INCOMER: 400A TPN MCCB .....1no OUTGOINGS: 100A TPN MCCB.....2nos 63A TPN MCCB.....2nos 32A TPN MCCB.....4nos 10A SPN MCB.....13no 32A SPN MCB.....3nos The board shall include ammeter, voltmeter, selector switches c/w Surge arrester and local LEDs fault indicator.	1	No
4	Installation Accessories		Lot
<b>F</b>	<b><u>CONTROL AND PROTECTION</u></b>		

	Supply and install the following:		
1	630A TPN Isolator	1	No
2	100A TPN Changeover	4	Nos
3	32A 4P Isolator	4	Nos
4	63A TPN Changeover	7	Nos
5	Installation Accessories		Lot
<b>G</b>	<b><u>LOAD CABLE &amp; SLEEVES</u></b>		
	Supply and install the following:		
1	150mm 1C PVC/SWA/PVC Copper cable	150	Mtrs
2	35mm 4C PVC/SWA/PVC Copper Cable	100	Mtrs
3	16mm 4C PVC/SWA/PVC Copper Cable	50	Mtrs
	16mm 1C Heavy duty PVC Earth Copper Cable	50	Mtrs
4	6mm 4C PVC/SWA/PVC Copper Cable	60	Mtrs
	6mm 1C PVC Earth Copper Cable	60	Mtrs
5	4mm 4C PVC/SWA/PVC Copper Cable	100	Mtrs
	4mm 1C PVC Earth Copper Cable	100	Mtrs
6	2.5mm 3C PVC/SWA/PVC Copper Cable	420	Mtrs
7	150mm Diameter UPVC Pipe	750	Mtrs
8	75mm Diameter UPVC Pipe	385	Mtrs
9	Installation Accessories		Lot
<b>H</b>	<b><u>EARTHING SYSTEM AND LIGHTNING PROTECTION</u></b>		
1	1.8M x 16mmdia. Copper earth rod	42	Nos
2	400mm x 400mm lattice copper earth mat	7	Nos
3	Copper Earth clamp	35	Nos
4	Earth coupler	21	Nos
5	Driving stud	14	Nos
6	Marconite	14	bags
7	Test clamp	1	Nos

8	Inspection Chamber	7	Nos
9	500mm Copper spike	1	No
10	25mm x 3 Copper Clip	40	Nos
11	25mm x 3 Copper bare Tape	20	mtrs
12	70mm <sup>2</sup> earth copper cable	150	mtrs
13	Other Installation accessories		Lot

