

Relevant Works (Major) Experience/Highlights

PIPELINE CONSTRUCTION OF 50KM OF GAS DISTRIBUTION LINE

PROJECT NAME -

CONSTRUCTION / LAYING AND COMMISSIONING OF 50KM BY 4", 8" & 12" GAS DISTRIBUTION PIPELINE IN BENIN CITY AND 3 NO CNG FILLING STATIONS – EDO STATE

CLIENT NAME -

NIPCO PLC

SUBCONTRACTOR -

ENIKKOM CONSTRUCTION LIMITED (Enikkom Investment Services Ltd)

PROJECT SCOPE

- 15km of 12" Distribution Line
- 25Km of 8" Distribution Line.
- 10 km of 4" Distribution Line.
- 1.5 km of the various sizes of Pipeline were installed by Horizontal Directional Drilling across roads, built up areas etc;

PROJECT STATUS -

Completed – August 2009.



Relevant Works (Major) Experience/Highlights

PIPELINE CONSTRUCTION OF 15KM OF GAS DISTRIBUTION LINE – PHASE 1

PROJECT NAME -

CONSTRUCTION / LAYING AND COMMISSIONING OF 15KM of 12", 8" & 4" UNDERGROUND STEEL PIPELINE LAYING WORK & ABOVE GROUND PIPING WORK AT IBAFO AREA (LAGOS – IBADAN EXPRESSWAY), OGUN STATE. (PHASE 1).

CLIENT NAME -

NIPCO PLC

CONTRACTOR -

ENIKKOM CONSTRUCTION LIMITED

PROJECT SCOPE

- 15km of (12" Gas Distribution Pipelines, 8" Gas Distribution Pipelines and 4" Gas Distribution Pipelines) - 3km of the various sizes of Pipeline were installed by Horizontal Directional Drilling (HDD) across built up areas and a creek.

PROJECT STATUS -

Completed – Feb 2015 (Phase 1)



Relevant Works (Major) Experience/Highlights

SPDC OTUMARA-ESCRAVOS PIPELINE PROJECT – INSTALLATION OF (12"+3") X 2.78KM BUNDLED CROSSING

PROJECT NAME -

SPDC OTUMARA-ESCRAVOS PIPELINE PROJECT

CONTRACT NAME -

HDD FOR ESCRAVOS RIVER CROSSING

CLIENT NAME -

SAIPEM CONTRACTING NIGERIA LIMITED

CONTRACTOR -

ENIKKOM CONSTRUCTION LIMITED

PROJECT SCOPE

- Mobilizing of 2nos. HDD Rigs (300Tons) Plus (500Tons) to Site
- Site Set Up
- Installation of 12" + 3" x 2.78km Long Bundled Crossing Using the Intersect Method whereby the Crossing was Drilled from Both Ends Using Two (2) Rigs and Intersecting at the Middle for the Pilot Hole.

PROJECT STATUS -

Completed, April 2016.

NOTE - THIS IS THE LONGEST BUNDLED CROSSING IN AFRICA AT THE TIME OF COMPLETION



SPDC OTUMARA-ESCRAVOS PIPELINE PROJECT INSTALLATION OF (12" + 3") X 2.78KM BUNDLED CROSSING**

SAIPEM Briefly

March 2016

editorial



Rosemary Ehiogu Happy reading!

In the same manner Saipem's Onshore Operations Manager, Mr Davide Rossi expressed Management's delight in the achievement of the project team as this is the first project in Nigeria to achieve a 2.8 kilometers of Horizontal Directional Drill pull across the Escravos River which is the longest of such HDD operations in Nigeria. He noted that this is particularly instructive because it was achieved with an indigenous company Enikkom Construction Limited

In this edition we have showcased some fascinating achievements in the first quarter of 2016, you will also find stories on the socio-economic impacts generated by our presence in Nigeria.

Regardless of the way the market scenario develops in 2016, I am certain that sustainable local content strategy will remain an essential factor in our success story.

Continuation of page 1.

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With the mix of SCNL experience and ENNIKOM management, the team (ENNIKOM and SCNL) spent considerable time in preparing the design of this job, developing a detailed engineering for the entire operation which comprises of 5 phases: drilling of the pilot hole; reaming of wider hole 18"; reaming a 24 "size hole; swabbing or cleaning the hole; and pulling back the pipe. During these steps the stability of the drilled hole is guaranteed by pumping bentonite and additives into the hole. The whole system is then kept under pressure to avoid any collapse.



HDD site during the pullback operation.

In line with the Nigerian Content Policy, the project was fully achieved in Nigeria with cooperation from key contributors involving communities and sub-contractors partnering with Saipem Contracting Nigeria Limited to meet completion.

SCNL is proud of its achievement in practically demonstrating the spirit of the Nigerian Content which translated into provision of several direct and indirect jobs, bringing business to the rural communities, discouraging capital flight, and boosting local capacity in course of the project.

"...congratulations for a job well done.
Keep up with saipem" *Guido D'Loisio*

NIGERIA Gets Another Boost on Otumara Project

NIGERIAN Content Development in the oil and gas sector gained yet another boost on the 20th of March 2016, with the successful completion of the longest HDD pull ever done in Africa by Nigerians on SCNL's Otumara project. The Otumara-Saghara-Escravos Pipeline Project is an EPC Contract awarded by Shell Petroleum Development Company of Nigeria limited (SPDC), as part of Shell's program to reduce gas flaring in the Country.

The 42-kilometre-long pipeline, of various sizes ranging from 2 to 12 inch, passes through swampy terrain and dry land including a major river crossing. The pipeline will collect about 30 million cubic feet a day of processed associated gas from the Otumara and Saghara fields in the western Niger Delta and send it through the Escravos-Lagos system to the domestic market, helping to reduce flaring, or the burning of gas produced alongside oil.



Jubilation at the HDD string exit point at the NSC HDD site

The Construction Manager Alufa Austin on announcing the successful completion of the 2.8km HDD operation on behalf the Project thanked all the team members for their contribution towards the success of the unprecedented and challenging task.

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Key Project Nigerian Content Performance (30.03.2016)	
Total Project Hours	2,015,885
Hours Achieved with Nigerians	1,842,720
Nigerian Content %	92%
NHCD Training Hours	15,432

Otumara-Saghara-Escravos pipeline project in pictures



Briefly

Page 2.

Relevant Works (Major) Experience/Highlights

PIPELINE CONSTRUCTION OF 15KM OF GAS DISTRIBUTION LINE – PHASE 2

PROJECT NAME -

CONSTRUCTION / LAYING AND COMMISSIONING OF 10KM of 12", 8" & 4" UNDERGROUND STEEL PIPELINE LAYING WORK & ABOVE GROUND PIPING WORK AT IBAFO AREA (LAGOS – IBADAN EXPRESSWAY), OGUN STATE. (PHASE 2).

CLIENT NAME -

NIPCO PLC

CONTRACTOR -

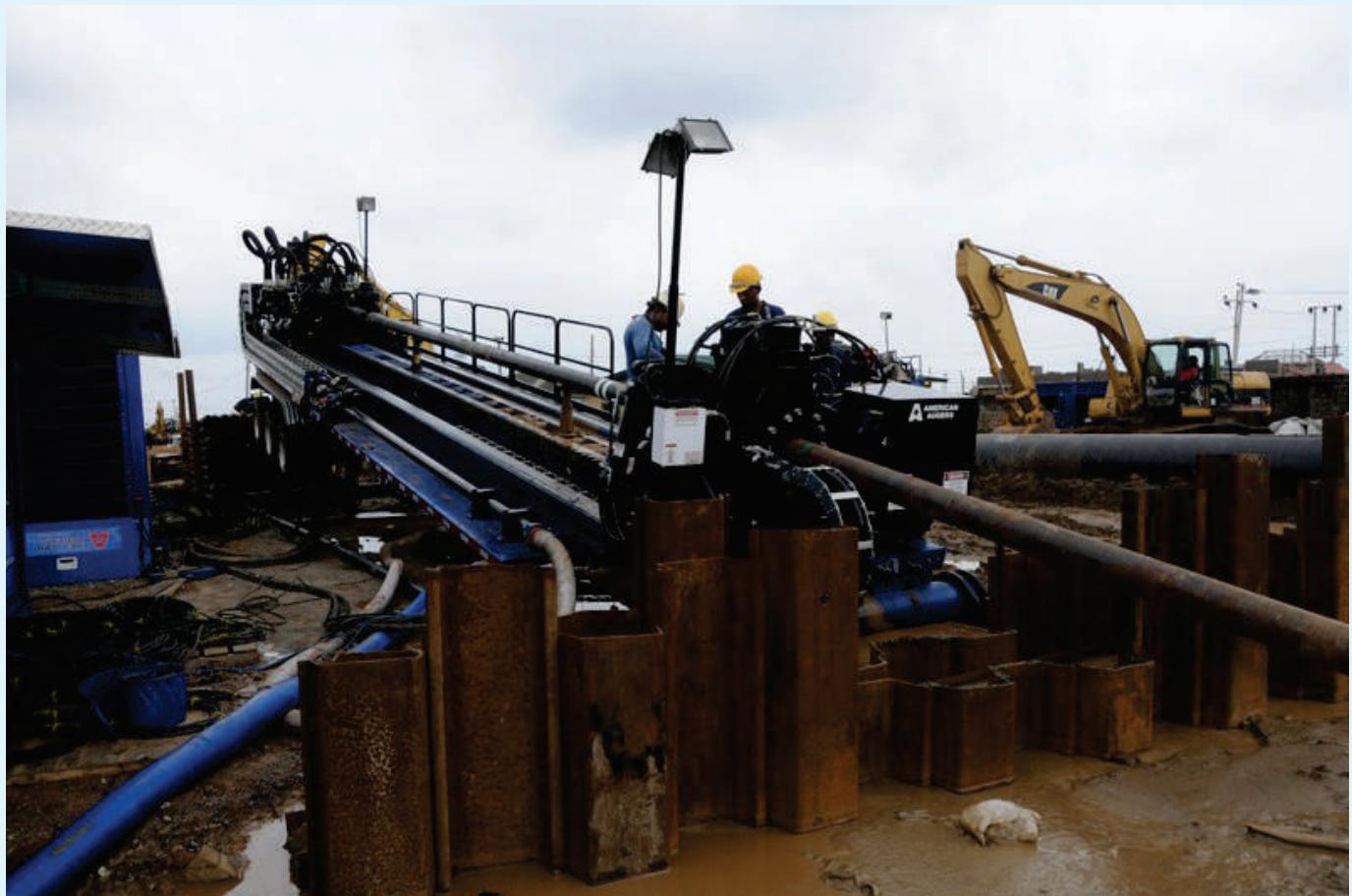
ENIKKOM CONSTRUCTION LIMITED

PROJECT SCOPE

- 10km of (12" Gas Distribution Pipelines, 8" Gas Distribution Pipelines and 4" Gas Distribution Pipelines)
- 5km of the various sizes of Pipeline were installed by Horizontal Directional Drilling (HDD) across built up areas and a creek.

PROJECT STATUS -

Completed – Aug 2016 (Phase 2)



(ENIKKOM CONSTRUCTION LIMITED) HORIZONTAL DIRECTIONAL DRILLING (HDD) EXPERIENCE

ITEM	PROJECT DESCRIPTION, TYPE OF PROJECT, POSITION IN THE PROJECT EXECUTION, LOCATION	CONTRACTOR / VENDOR	CLIENT	Completion Time	Status
1	LEKKI GAS PIPELINE PROJECT (LGPP): Engineering, Procurement, Construction and Installation of 36inch (schedule 22.225) x 1.5km Gas Pipeline Across Swamp and River Using Horizontal Directional Drilling (HDD) Method at Ejirin, Epe, Lagos State. EPC CONTRACTOR. MAIN CLIENT – DANGOTE INDUSTRIES LIMITED.	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED / DANGOTE FERTILIZERS LIMITED	July 2019	Completed
2	Escravos Export System Project; Design and Installation of 30" X 540m Pipeline Section At Escravos Creek Using Horizontal Directional Drilling (HDD) Method. INSTALLATION CONTRACTOR.	ENIKKOM CONSTRUCTION LIMITED	GRAMEN PETROSERVE LIMITED / CHEVRON NIGERIA LIMITED	Jan-2018	Completed
3	CONSTRUCTION, INSTALLATION AND TESTING OF 12" x 11.6km PIPELINE (Phase - 1) including 5.6km of installation using HDD (12" x 1.7km; 12" x 900m; 12" x 1.25km; 12" x 700m; 12" x 580m; 12" x 470m) ALONG IBADAN EXPRESS WAY	ENIKKOM CONSTRUCTION LIMITED	GREEN GAS LIMITED / NIPCO PLC;	June 2016	Completed
4	Expansion Of Escravos-Lagos Gas Pipeline Project – Phase I For The Construction, Installation And Testing Of 36inch X 15km Pipeline By Horizontal Directional Drilling (HDD) with 5.33km of Continous HDD Section - 2.78km; 550m and 2km sections.	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Dec 2015	Completed
5	Installation of 12inch x 4km Pipeline Crossing from Ango Field to Offshore Section going to Auntie Julie Platform (12" x 1.8km Swamp Section by HDD and 12" x 2.2 km shore approach by HDD). The line is for the provision of Hydrocarbon Evacuation Pipeline from the Ango Reservoir in OML-59 to Auntie Julie Production Facility BELBOP NIGERIA LIMITED.	ENIKKOM CONSTRUCTION LIMITED	MSI AFRICA DEVELOPMENT LIMITED;	May 2016	Completed
6	Emergency Reconstruction Of Atlas Cove – Mosimi 16" X 1900m Pipeline Section At Ijedodo Swamp Using Horizontal Directional Drilling (HDD) Method. EPC CONTRACTOR.	ENIKKOM CONSTRUCTION LIMITED	PSC	March 2018	Completed
7	Emergency Reconstruction Of Atlas Cove – Mosimi 16" X 3000m Pipeline Section At Arepo Swamp Using Horizontal Directional Drilling (HDD) Method. EPC CONTRACTOR.	ENIKKOM CONSTRUCTION LIMITED	PSC	April 2016	Completed

(ENIKKOM CONSTRUCTION LIMITED) HORIZONTAL DIRECTIONAL DRILLING (HDD) EXPERIENCE

ITEM	PROJECT DESCRIPTION, TYPE OF PROJECT, POSITION IN THE PROJECT EXECUTION, LOCATION	CONTRACTOR / VENDOR	CLIENT	Scheduled Completion Time	Status
8	HDD for Escravos River Crossing: Otumara Project: Construction Of 12"x2" X 2.737km Bundled Pipeline To Cross The Escravos River Using The Horizontal Directional Drilling (HDD) Method for SAIPEM CONTRACTING NIGERIA LIMITED. Main Client is SPDC INSTALLATION CONTRACTOR.	ENIKKOM CONSTRUCTION LIMITED	SAIPEM CONTRACTING NIGERIA LIMITED;	Feb 2016	Completed
9	Expansion of Escravos-Lagos Gas Pipeline Project-Phase I. Construction, Installation and Testing of 30inch x 395m Gas Pipeline across the Benin-Warri Expressway Using the Horizontal Directional Drilling (HDD) Technology for ZAKHEM. Main Client is NIGERIAN GAS COMPANY LIMITED (NGC). EPC CONTRACTOR.	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	April 2012	Completed
10	Engineering, Procurement, Construction and Commissioning of (16", 6" and 4" x 700m single Boundle Pull) Products Pipelines from Alakpata Facility to Marina Floating Jetty of the Phase I Apapa Oando Jetty Project : Offshore Pipeline Construction From New Jetty To Alapata Facilities Using The Horizontal Directional Drilling (HDD) Method. EPCC CONTRACTOR.	ENIKKOM CONSTRUCTION LIMITED	APAPA SPM LIMITED / OANDO PLC	March 2014	Completed
11	Construction / Laying and Commissioning of 2 River Crossings on the 54km by 24inch Gas Transmission Pipeline from Adanga to Calabar in Cross River State (Onshore Part of the Lot3) by Horizontal Directional Drilling viz; Calabar River - 680m, Uruan River - 739m, EPCC CONTRACTOR.	ENIKKOM CONSTRUCTION LIMITED	COMPACT MANIFOLD AND ENERGY SERVICES LIMITED (CMES);	Dec 2013z	Completed
12	Construction and Installation of 12" x 300m Gas Pipeline by Horizontal Directional Drilling across the Liverpool River for the Entire Pipeline Crossing of liverpool River for the OANDO Pipeline Works. EPC CONTRACTOR.	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	October 2011	Completed
13	Construction and Installation of 12" x 300m Gas Pipeline by Horizontal Directional Drilling across the Sambreiro River at Rumuji for the Ogbele-Rumuji Pipeline Project. EPC CONTRACTOR.	ENIKKOM CONSTRUCTION LIMITED	NIGER DELTA PETROLEUM RESOURCES;	July 2010	Completed
14	Complete Installation of 7 No River Crossings using the Horizontal Directional Drilling Method HDD on the 18inch by 130km Calabar Pipeline Project.(12" x 1.302km; 12" x 485m; 12" x 472m; 12" x 875m; 12" x 363m; 12" x 704m; 12" x 760m)	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	December 2008	Completed

(ENIKKOM CONSTRUCTION LIMITED) HORIZONTAL DIRECTIONAL DRILLING (HDD) EXPERIENCE

ITEM	PROJECT DESCRIPTION, TYPE OF PROJECT, POSITION IN THE PROJECT EXECUTION, LOCATION	CONTRACTOR / VENDOR	CLIENT	Scheduled Completion Time	Status
15	Construction and Installation of 12"x 195m Gas Pipeline across the Coconut River in Lagos for the 12inch Gas Pipeline Construction that Stretches Out From Honeywell Tin-Can to Amuwo Odofin (Gaslink Phase II Project) Lagos State. EPC CONTRACTOR.	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	March 2009	Completed
16	Installation of 18" x 250m Iju River Crossing at the Akute Power Project Using Horizontal Directional Drilling Technology	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	April 2009	Completed
17	Installation of 50km x 4", 6" and 8" diameter Gas Distribution Pipeline System within Benin City with over 20km of Installation done by HDD	ENIKKOM CONSTRUCTION LIMITED	NIPCO PLC	April 2010	Completed
18	INSTALLATION OF A 24INCH X 1.4KM GAS PIPELINE ACROSS THE NIGER RIVER AT NDONI (EPC FOR PIPELINE 24", 18" AND 10" N-LNG PHASE 3 GAS SUPPLY PROJECT). Subcontract from Intrinsic Nigeria Limited with DAEWOO/NAOC as MAIN CLIENT.	ENIKKOM CONSTRUCTION LIMITED	INTRINSIC NIGERIA LIMITED;	April 2010	Completed



PIPELINE CONSTRUCTION EXPERIENCE (ENIKKOM CONSTRUCTION LIMITED)

ITEM	PROJECT DESCRIPTION, TYPE OF PROJECT, POSITION IN THE PROJECT EXECUTION, LOCATION	CONTRACTOR / VENDOR	CLIENT	Scheduled Completion Time	Status
1	Relocation of NNPC Atlas Cove - Mosimi 16" Pipeline Segment Located Along the Alignment of the Lagos-Badagry Carriageway Expansion Project; 16" x 1,800m Pipeline Construction by Open Cut and 16" x 220m Pipeline Construction by HDD.	ENIKKOM CONSTRUCTION LIMITED	LAGOS STATE MINISTRY OF WORKS & INFRASTRUCTURE (LSMW&I) / PPMC;	May 2015	Completed
2	Construction, Testing and Commissioning of 12", 8" & 4" Underground Steel Pipeline Laying Work & Above Ground Piping Work at Ibafo Area (Lagos-Ibadan Expressway), Ogun State. Reference No.: NIPCO/GGL/CNG/IBAFO/PL/09-13 (WO).	ENIKKOM CONSTRUCTION LIMITED	NIPCO PLC	July 2016	Completed
3	Onshore Engineering, Procurement and Construction Contract of 30" x 12.5km Product Pipeline for the Trans Niger Pipeline Loopline Project (TNPL) - Package 1, From Ogale To TP1 at Eleme in River State. Main Client is Shell Petroleum Development Company Nigeria Limited (SPDC) & Main Contract No. is NG01010061.	ENIKKOM CONSTRUCTION LIMITED	KAZTEC ENGINEERING LIMITED;	Nov 2014	Completed
4	Engineering, Procurement and Construction for 24" x 51km Gas Transmission Pipeline and Metering Station at Calabar in Cross River State (Onshore Part of the Lot 3). Main Client-Niger Delta Power Holding Company (NDPHC).	ENIKKOM CONSTRUCTION LIMITED	NIGER DELTA POWER HOLDING COMPANY LIMITED (NDPHC);	Nov 2014	Completed
5	Engineering, Procurement and Construction (EPC) of Gas Supply Infrastructure (6" x 0.034km; Pressure Reduction and Gas Metering Facilities) to Standard Metallurgical Company Limited (SMCL), JV Contract itn of Petrotrans-Enikkom JV Limited, Main Client-Nigerian Gas Company (NGC).	ENIKKOM CONSTRUCTION LIMITED	NIGERIAN GAS COMPANY LIMITED (NGC);	Aug 2012	Completed
6	Expansion of Escravos-Lagos Gas Pipeline Project-Phase I. Construction, Installation and Testing of 30" Pipeline Segment by Thrust Boring Method under Road Between Warri to Oben for ZAKHEM. Main Client is NIGERIAN GAS COMPANY LIMITED (NGC)	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Aug 2012	Completed
6	Construction of 24" x 18km and 16" x 16.5km Gas Pipeline from Itoro to Ibeshi. Subcontract from ZAKHEM. Contractor ENIKKOM/GEN OIL.	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Apr 2011	Completed

PIPELINE CONSTRUCTION EXPERIENCE (ENIKKOM CONSTRUCTION LIMITED)

ITEM	PROJECT DESCRIPTION, TYPE OF PROJECT, POSITION IN THE PROJECT EXECUTION, LOCATION	CONTRACTOR / VENDOR	CLIENT	Scheduled Completion Time	Status
8	Laying, Testing and Commissioning of 8" & 4" (Dia) Steel Gas pipeline for NIPCO Benin City Gas Distribution Project (2nd Phase)	ENIKKOM CONSTRUCTION LIMITED	NIPCO PLC;	May 2011	Completed
9	Emergency Sectional Rehabilitation/Replacement of the 16" diameter Atlas Cove – Mossimi Pipeline. Main Client of NNPC and Subcontract from ZAKHEM.	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Nov 2010	Completed
10	Construction of 18" x 1.5km Gas Pipeline at Gbaran Ubie NIPP Lot 2 Project.	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	Apr 2010	Completed
11	Construction of 18" x 2.5km and 16" x 16.5km Gas pipeline that Transverses from NPDC Oredo Facility to POOC Gas Station, all Gas Pipelines Located in Edo State, including Road Crossings by Thrust Boring	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	Mar 2010	Completed
12	Installation of 12" x 13.8km Ogbele-Rumuji Pipeline Project, including the Sambreiro River Crossing by Horizontal Directional Drilling	ENIKKOM CONSTRUCTION LIMITED	NIGER DELTA PETROLEUM RESOURCES;	Apr 2010	Completed
13	Drilling and Blasting Services at Mfamosing Rock Section (UNICEM Project)	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	Sep 2010	Completed
14	Additional Works on the 18inch Calabar Gas Pipeline to include Bush Clearing, Excavation and Stringing	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	Sep 2009	Completed
15	Complete Drilling and Blasting of Three (3) km pipeline ditch	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	Feb 2009	Completed
16	Laying, Testing and Commissioning of 8" & 4" (Dia) Steel Gas pipeline for NIPCO Benin City Gas Distribution Project (1st Phase)	ENIKKOM CONSTRUCTION LIMITED	NIPCO PLC	Dec 2009	Completed
17	Construction of 12-Inch Gas Pipeline that Stretches Out From Honeywell Tin-Can to Amuwo Odofin (Gaslink Phase II Project) Lagos State, including 2Nos crossings by Horizontal Directional Drilling across the Coconut River.	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	Dec 2008	Completed
18	Pipe Lay and Weld for the Construction of Transmission Pipeline from Ukanafun in Akwa Ibom State to Mfamosing in Cross River State for Land, River Crossings, Road Crossings, Seasonal Swamp / Rocky and Hilly Terrains.	ENIKKOM CONSTRUCTION LIMITED	OILSERV LIMITED	Dec 2010	Completed

PIPELINE CONSTRUCTION EXPERIENCE (ENIKKOM CONSTRUCTION LIMITED)

ITEM	PROJECT DESCRIPTION, TYPE OF PROJECT, POSITION IN THE PROJECT EXECUTION, LOCATION	CONTRACTOR / VENDOR	CLIENT	Scheduled Completion Time	Status
19	36" Geregu Gas Supply Pipeline Project: Nigerian Gas Company Limited: Sub Contract for the Welding Works on a part of 36" gas pipeline (approximately 50km – 4300 joints) of 196km on Gas Supply to Geregu project.	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Oct 2009	Completed
20	Abeokuta Gas Pipeline: Sub Contract for the Transportation Of 3,100pcs of 24" diameter line pipes from Tin-Can Island to Abeokuta, Stringing of line pipes along the ROW, welding of line pipes and tie in of welded pipeline sections, Radiography and field works	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Feb 2008	Completed
21	Installation Gas Plant facilities and welding /fabrication of interconnecting pipework	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Dec 2008	Completed
22	Sub contract for Civil and Foundation works for the Abeokuta Gas plant	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Dec 2007	Completed
23	Call off Contract, Geregu Gas Pipeline Project Phase II (NGC Limited). Sub-contract for Road, Rail and Thrust Bored Crossings (2No Rail Crossings and 11No Road Crossings – 36" diameter pipeline)	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Dec 2008	Completed
24	Rehabilitation/Replacement of corroded swamp sections of the 16" diameter Atlas Cove – Mossimi Pipeline by the push pull flotation method, flushing of the entire 70km pipeline and tie-in of the replaced sections to the main line (Akute – 3.5km; Arepo – 2k)	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Jun 2007	Completed
25	Installation of 4No. 18" Pipeline Road Crossing by Thrust Boring Method at Bonny Island, including construction of Cofferdam.	ENIKKOM CONSTRUCTION LIMITED	TVONNE NIGERIA LIMITED	May 2006	Completed
26	Procurement and Installation/extraction of Sheet Piles for the Construction of Cofferdam for thrust boring works, including the Thrust Boring of the TSKJ and NLNG Roads on Bonny Island, Thrust Boring Of TSKG Roads	ENIKKOM CONSTRUCTION LIMITED	WILLBROS WEST AFRICA, INC;	Sep 2005	Completed
26	Ajaokuta Pipeline Project: Sub Contract for the Stringing of 18inch x 50km line pipes along the ROW, Excavation, Welding of line pipes, Laying and Backfilling of Welded Pipeline for the Dangote – Obajana Cement Factory.	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	July 2006	Completed

THRUST BORING EXPERIENCE (ENIKKOM CONSTRUCTION LIMITED)

ITEM	PROJECT DESCRIPTION, TYPE OF PROJECT, POSITION IN THE PROJECT EXECUTION, LOCATION	CONTRACTOR / VENDOR	CLIENT	Scheduled Completion Time	Status
1	Expansion of Escravos-Lagos Gas Pipeline Project-Phase II. Construction, Installation and Testing of 36" Pipeline Crossings from KP 294+000 to KP 333_300 by Thrust Boring Method under Road Between Lagos and Ogun States. Main Client is NIGERIAN NATIONAL PETROLEUM CORPORATION (NNPC)	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Dec 2013	Completed
2	Expansion of Escravos-Lagos Gas Pipeline Project-Phase I. Construction, Installation and Testing of 30" Pipeline Segment by Thrust Boring Method under Road Between Warri to Oben for ZAKHEM. Main Client is NIGERIAN GAS COMPANY LIMITED (NGC)	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Apr 2011	Completed
3	Thrust Boring Under Sewerage Line Crossings at Tema in Ghana for the WEST AFRICAN GAS PIPELINE Project	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	May 2009	Completed
4	Call off Contract, Geregu Gas Pipeline Project Phase II (NGC Limited). Sub-contract for Road, Rail and Thrust Bored Crossings (2No Rail Crossings and 11No Road Crossings – 36" diameter pipeline)	ENIKKOM CONSTRUCTION LIMITED	ZAKHEM CONSTRUCTION NIGERIA LIMITED;	Dec 2008	Completed
5	Installation of 4No. 18" Pipeline Road Crossing by Thrust Boring Method at Bonny Island, including construction of Cofferdam.	ENIKKOM CONSTRUCTION LIMITED	TVONNE NIGERIA LIMITED	May 2007	Completed
6	Procurement and Installation/extraction of Sheet Piles for the Construction of Cofferdam for thrust boring works, including the Thrust Boring of the TSKJ and NLNG Roads on Bonny Island, Thrust Boring Of TSKG Roads	ENIKKOM CONSTRUCTION LIMITED	WILLBROS WEST AFRICA, INC	Sep 2006	Completed
7	Thrust Boring of the TSKJ and NLNG Roads on Bonny Island (36" Crossing)	ENIKKOM CONSTRUCTION LIMITED	INTRINSIC OIL & GAS LIMITED	Sep 2006	Completed
8	Procurement and Installation/extraction of Sheet Piles for the Construction of Cofferdam for thrust boring works, including the Thrust Boring of the TSKJ and NLNG Roads on Bonny Island, Thrust Boring Of TSKG Roads	ENIKKOM CONSTRUCTION LIMITED	WILLBROS WEST AFRICA, INC	Sep 2006	Completed
9	Installation of Sheet Pile for the 48/32" Shell Pipe Crossing by Thrust Boring on Bonny Island (Additional 32m)	ENIKKOM CONSTRUCTION LIMITED	WILLBROS WEST AFRICA, INC	Oct 2006	Completed
10	Supply of Sheet Pile for the 48/32" Shell Pipeline Crossing by Thrust Boring on Bonny Island.	ENIKKOM CONSTRUCTION LIMITED	WILLBROS WEST AFRICA, INC	Aug 2006	Completed
11	Installation of Sheet Pile for the 48/32" Shell Pipeline Crossing by Thrust Boring on Bonny Island	ENIKKOM CONSTRUCTION LIMITED	WILLBROS WEST AFRICA, INC	Aug 2006	Completed

TECHNICAL CAPABILITIES – EQUIPMENTS

Thrust Boring

THRUST BORING MACHINE 1

24 - 100 HORIZONTAL EARTH

BORING MACHINE

YEAR OF PURCHASE: 2000



THRUST BORING MACHINE 3

36/42-600E HORIZONTAL EARTH

BORING MACHINE

YEAR OF PURCHASE: 2010



THRUST BORING MACHINE 5

48/54-G900 HORIZONTAL EARTH

BORING MACHINE

YEAR OF PURCHASE: 2010



THRUST BORING MACHINE 2

36 – 340 HORIZONTAL EARTH

BORING MACHINE

YEAR OF PURCHASE: 2010



THRUST BORING MACHINE 4

42/48-600 HORIZONTAL EARTH

BORING MACHINE

YEAR OF PURCHASE: 2010



THRUST BORING MACHINE 6

72-1200NG HORIZONTAL EARTH

BORING MACHINE

YEAR OF PURCHASE: 2013



TECHNICAL CAPABILITIES – EQUIPMENT

Horizontal Directional Drilling (HDD)

HDD RIG NO. 1

AMERICAN AUGERS DD 580 & MUD CLEANING SYSTEM

300 TON PULL BACK CAPACITY HDD RIG

YEAR OF PURCHASE: 2003



HDD RIG NO. 4

AMERICAN AUGERS DD 1100 HDD RIG WITH

MCR-10000 DRILLING FLUID CLEANING SYSTEMS

500 TON PULL BACK CAPACITY

YEAR OF PURCHASE: 2012



HDD RIG NO. 7

AMERICAN AUGERS DD 220 HDD RIG & MUD CLEANING

SYSTEM 100 TON PULL BACK CAPACITY HDD RIG

YEAR OF PURCHASE: 2012



HDD RIG NO. 2

ASTEC 3292 HDD RIG & MUD CLEANING SYSTEM

15 TON PULL BACK CAPACITY

YEAR OF PURCHASE: 2008



HDD RIG NO. 5

AMERICAN AUGERS DD 1100 HDD RIG WITH MCR-10000

DRILLING FLUID CLEANING SYSTEMS

500 TON PULL BACK CAPACITY

YEAR OF PURCHASE: 2012



HDD RIG NO. 8

AMERICAN AUGERS DD 1100 HDD RIG WITH

MCR-10000 DRILLING FLUID CLEANING SYSTEMS

500 TON PULL BACK CAPACITY

YEAR OF PURCHASE: 2013



HDD RIG NO. 3

AMERICAN AUGERS DD 440T HDD RIG & MPR-6000

DRILLING FLUID MIXING, PUMPING & RECYCLING

SYSTEMS MUD CLEANING SYSTEM 200 TON PULL BACK

CAPACITY HDD RIG WITH | YEAR OF PURCHASE: MAY, 2008



HDD RIG NO. 6

AMERICAN AUGERS DD 625 HDD RIG & MUD CLEANING

SYSTEM 300 TON PULL BACK CAPACITY HDD RIG

YEAR OF PURCHASE: 2012



HDD RIG NO. 9

AMERICAN AUGERS DD 155 HDD RIG & MUD

CLEANING SYSTEM 70 TON PULL BACK

CAPACITY HDD RIG

YEAR OF PURCHASE: MAY, 2017



PICTURES OF DREDGING WORKS



PICTURES OF HDD SITE



Pipeline Welding Pictures



**Address:****ABUJA:**

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