Memorandum to the Board of Royal Dutch Shell plc Group Investment Proposal

Summary Information

•									
Business unit and company	Shell Petroleum	Develo	pment C	Company	of Nige	eria Limit	ed (SPDC	2)	
Group equity interest	JV with a 30% i		s SPDC	is the Jo	int Vent	ture (JV)	operator (of an unii	ncorporated
Other shareholders / partners	Nigeria Nation Production Cor								
Amount	US\$533.7mln Si 100% JV estim Pre-FID propo and Shell's MCA	ate of U sals. Th	JS\$924.8 is propo	mln. US sal inclu	S\$93.1ml ides She	In 100% ell equity	JV has b share (30	een appr	oved in the
Project	Gbaran Infill.								
Main commitments	Description	Previously approved (100% JV)	Requested Budget (100% JV)	Complete Budget (100% JV)	Complete Budget (30% Shell Share)	Total Shell Share (Equity + Carry)	NNPC MCA Carry (36.67% Shell Share)	This Proposal (30% Shell Share)	Total Shell Share (Equity + Carry) This Proposal
	NAG Wells Facilities & Pipelines	46.3 46.1	213.2 605.6	259.5 651.7	77.8 195.5	156.0 401.5	78.2 206.0	64.0 181.7	142.1 387.7
	Total CAPEX (\$ mln)	92.4	818.8	911.2	273.4	557.6	284.2	245.6	529.8
	SCD	0.7	13.0	13.7	4.1	4.1	0.0	3.9	3.9
	Total OPEX (\$ mln)	0.7	13.0	13.7	4.1	4.1	0.0	3.9	3.9
	Total Project (\$ mln)	93.1	831.8	924.8	277.5	561.7	284.2	249.5	533.7
Source and form of financing	The source of proposal is for premise for this the proposal is a	this in	vestmen al is the	t to be Modifie	finance d Carry	d via Al Agreeme	ternative nt (MCA)	Funding	(AF). The
Summary cash flow (Shell Share)		G	baran Phase (S	e 2A JV+MCA Shell Share P	A project cas SV RV-RT)	hflow plot			
	225	2014 20	7 2020 2	023 2026	2029 2032	2035 2038	Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	450 (Lu uu 9) 00 00 00 00 00 00 00 00 00 00 00 00 00	
Summary economics	Summary	Econom	ice		NPV7		RTEI	0(0/a)	VIR7
(Shell Share)	(RV-	RT12)	100		(USD ml	n)		` ,	
		Canan			203.3		25		0.46
	High	Capex			196.4		22	<u> </u>	0.40

Section 1: The Proposal (Management Summary)

1.1 <u>Management Summary</u>

This Group Investment Proposal requests approval for funding of US\$924.8mln Shell Share (US\$249.5mln Equity & US\$284.2mln Carry) for the execution of the Gbaran Infill Project, which aims to develop 1.3Tscf of gas to keep the Gbaran Central Processing Facility (CPF) full to meet SPDC JV gas supply commitment to NLNG trains 1-6 and Domestic gas supply. The approval is being sought based on the conclusion of the commercial round of the contracting process with the eventual contractors already identified.

The full project scope includes the drilling of Nine (9) new NAG development wells from three fields (1 in Gbaran, 5 in Koroama; and 3 in Epu), one (1) appraisal well and the re-completion and hook-up of Koroama-002 NAG appraisal well drilled in 2005, All these wells are on the approved Oct 2012 STDWS. In a bid to accelerate the project and optimize cluster drilling at Koroama, the Koroama TBUV-2 well was drilled in Oct 2012 as an early opportunity and Koroama 002 recompletion is ongoing, while the remaining five Koroama wells will be drilled from Jul 2013 to April 2014. The Gbaran VZTX-2 well will be spudded in February 2013, while the Epu wells will be drilled in 2014 and 2015.

The project will also install 2 x 10MMscf/d booster compressors, two slug catchers and associated process and utility tie-in facilities at the Gbaran CPF; six (6) remote site process and utility facilities; 30 km of inter-sites HV/FO composite cables; and a 40 km network of pipelines linking the remote well locations to the Gbaran CPF. Production will start in December 2014 for Gbaran, December 2015 for Koroama, and August 2016 for Epu, while peak daily project production is planned at 600 MMscf/d and 37,000 bbl/day of condensate. The detailed project scope and life cycle costs can be found in Appendix 1.

The project is in the Alternative Funding (AF) tranche in BP12. The JV Partners (NAPIMS & IOCs) have been engaged regarding the cost estimates (facilities, wells and owners cost) and alignment reached. Proposed funding vehicle is the Modified Carry Agreement (MCA). The agreed costs are as outlined in Table 1 below.

1.2 <u>Project Background</u>

The Gbaran Infill Project is part of the initial Gbaran-Ubie Phase 2 project, which passed VAR3 in November 2006, DG3 in July 2007, and completed in-house FEED in December 2008 but was put on hold due to funding constraints until a reframing workshop with Joint Venture Partners in March 2009. The reframing workshop resulted in the splitting of the initial Gbaran-Ubie Phase 2 opportunity into three separate scopes (a) Gbaran, Koroama, and Epu fields (Gbaran infill), (b) Kolo Creek Deep Fields, (c) Ubie/Oshi filed) to minimize overall capital investment, optimize SPDC's infrastructure usage, and provide a better focus for the individual sub-opportunities.

Detail design for the Gbaran Infill project was completed in 2011, in line with the contracting strategy agreed with NAPIMS that required the completion of detail design prior to receipt of the commercial bids in support of the FID decision. Tendering of the procurement and construction scope has been concluded and the selected contractors known. Project VAR4 was completed in September 2011 and all high urgency actions have been successfully completed.

1.3 <u>Previous proposals</u>

In April 2010, a pre-FID investment proposal of \$ 16.6mln (Shell Share) was approved for Detail design, Survey, Location preparation for Koroama field, Land acquisition, Environmental Impact Assessment studies and line pipe pre-payment. The proposal also covers the Gbaran Infill Project's share of the initial

Gbaran-Ubie Phase 2 project sunk costs related to Front-End Engineering Design. All these have been completed except for the ongoing location preparation works.

In addition to the pre-FID approvals, US\$11.3mln Shell share investment has been approved, US\$8.01mln in August 2012 to accelerate the drilling, completion and hook-up of Koroama TBUV-2 NAG well as an early opportunity and US\$3.29 in November 2012 for the re-completion of the KOMA 002T well which was accelerated as a result of location imposed constraints (inaccessibility of planned well locations as a result of flooding and unusually high water levels)

Section 2: Value proposition and strategic and financial context

The proposal aligns with SPDC JV contractual commitment to supply gas to NLNG.

2.1 <u>Justification for Expenditure</u>

Having taken the opportunity to accelerate Koroama TBUV2 & Koroama 002T recompletion, this proposal only seeks approval for the drilling of eight (8) NAG development wells (including one appraisal well) in Gbaran (1 NAG development well), Koroama (4 NAG development wells and 1 appraisal well) and Epu (1 NAG development well and 2 NAG development/appraisal wells), as well as the installation of the infrastructure required to evacuate the production to the Gbaran CPF. These activities must be pursued to keep the Gbaran CPF full and avoid penalties for not meeting SPDC JV gas contractual commitments to NLNG Trains 1-6 (See Fig 1) and domestic gas supply.

2.2 Production and Reserves

The Gbaran Infill Project will develop 1.3Tscf of gas and 13 Mmbbls of condensate from the Gbaran, Koroama, and Epu fields to sustain gas supplies to the Gbaran CPF and meet SPDC JV gas supply commitments to NLNG Trains 1-6 and domestic gas supply.

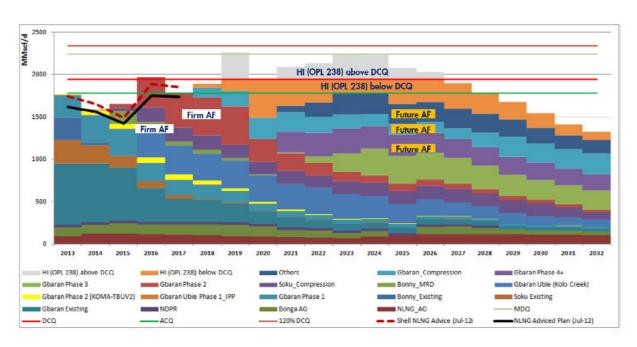


Figure 1: NLNG Trains 1 to 6 supply plot

2.3 <u>Summary Economics</u>

The FID economics evaluation was carried out on a forward-looking basis using production forecast and contractors cost provided by the project team. Sensitivity analysis was carried out to determine the values

of the project at different production volumes and high CAPEX. Additional risk and uncertainty analysis was also carried out which shows a 100% chance of the project returning a positive NPV. The evaluation assumed funding under the 2008 Modified Carry Arrangement (MCA) terms.

The details of the results are in Table 2 and the Tornado Plot and Profitability Plots are shown in Figures 2 & 3.

Table 2a: Summary economics grid for Gbaran Infill Project

PV Reference Date: 1/7/2012	NPV (S/	/S \$ mln)	VIR	RTEP	VTE		ГС /boe)	Payout- Time (RT)	Maximum Exposure (RT-AT)
Cash flow forward from: 1/1/2012	0%	7%	7%	%		0%	7%	(уууу)	\$mln (yyyy)
Base Case									
SV (\$50/bbl RT12)	318.3	135.2	0.30			4.6	6.3		
RV (\$70/bbl RT12)	437.3	203.3	0.46	25		4.6	6.3	2018	192.4(2014)
HV (\$90/bbl RT12)	534.0	258.7	0.58			4.6	6.3		
Sensitivities (using RV-RT12)									
Low Volumes (P90)		66.5	0.15						
High Volumes (P10)		266.0	0.60						
High CAPEX (P90)		196.4	0.40						
Project funded under JV		207.4	1.01						
1.5% cost markup due to BVA		192.6	0.40						
PIB		16.5	0.04						
Additional Uncertainty and Risk A	nalysis -	using RV	(only req	uired for j	proposals	> \$ 300 1	nln S/S)		
NPV(P10)		265.7							
NPV(P90)		77.4							
EMV at RV		180.6							
Probability of NPV > 0 at RV		97%							
Dispersion = EMV / (NPVP10- NPVP90) at RV		0.96							

Key project Parameters (Shell share)

Parameter	Unit	BP12 Provision	Low	Mid	High	Comments
Capex (MOD)	US\$ mln	247.0	487.5	529.8	591.4	JV +MCA
Opex (MOD)_Project	US\$ mln	NA	38.0	72.1	115.9	ABC + SCD
Production Volume	mln boe	68.7	23.9	62.4	118.6	latest Data set as per ARPR
Start Up Date	mm/yy	Dec-14	NA	Dec-14	NA	
Production in first 12 months	mln boe		5.2	5.1	4.8	The optimizer pulls more volumes from the Low and Base cases to ensure that the CPF is kept full, hence the higher volumes in the 1st year of production

Section 3: Risks, Opportunities and alternatives

3.1 Risks and Mitigation Plans

The project employs a comprehensive Risk and Opportunity Management system, with Risks affecting the Cost and schedule analyzed and worked into the project cost estimate and schedule accordingly. The top project risks and mitigation plans are described below;

Funding constraints risks (C, E)

The proposal is for this project to be financed via Alternative Funding (AF) as agreed with Joint Venture Partners.

Mitigation: Efforts have been intensified at all levels to ensure that the alternative funding discussions are concluded by December 2012 and funds available in January 2013. In addition, a contingency of 3mths delay to FID and contract award have been included in Schedule Risk analysis (cost within this GIP). 1).

HSSE & SP Risks (P, T):

HSE risks of executing relatively complex project (project transverses land, seasonally swamp and swamp terrains across several communities) have been identified and assessed using the HEMP processes /tools. Upon analysis, the threats, controls measures, top events, recovery measures were identified, with responsible action parties assigned. In addition, HSSE requirements were included and evaluated during the tendering process. The project will develop strong HSSE Leadership by SPDC and Contractor Management Team as well as leverage on National and SPDC corporate security plans, lessons learnt from Gbaran Ubie Phase 1 project, and successful HSE initiatives such as the Injury Free Club. A few Examples of the top risks includes: Risk of Hydrocarbon under pressure (Gas); Transportation (Land & Marine); Lifting and Hoisting; Security etc:

Risk of Hydrocarbon under pressure (Gas): Project involves work at the Gbaran CPF. Approved Concurrent operations plan and Matrix of Permitted Operations (MOPO) will be enforced, including robust procedure for managing Hydrocarbon under pressure (Gas) alongside Permit to work system, Positive isolation requirements, Gas testing, equipment selection/certification, with 100% site supervision, etc.

Risk of Transportation (Land and Marine): A journey management procedure and plan will be instituted with Journey Managers appointed to implement the procedures. Monitoring systems and feedback processes will be in place for continuous improvement. In addition, every journey request will be challenged, and optimized where possible, to reduce exposure. Prior to embarking on any journey, the Security Operating Level (SOL) shall be confirmed.

Security Risk: The project is located in the Niger Delta, where security issues are particularly significant. This is highlighted by cases of hostage taking, armed attacks and sabotage of, especially, pipeline systems. Additionally, deteriorating Security situation in the Northern part of the Country, in the form of targeted bombing, could migrate down south and requires that this risk be carefully monitored

The amnesty programme of the federal government has helped to calm the security situation although uncertainty still pervades. Based on outcome of security risk assessment, a detailed project security plan for the project has been developed which dovetails into relevant operations security plan. The security operating level of risk will be assessed from to time to determine necessary line of action when there is a change in risk level.

In the event of unforeseen incidents, all of the identified mitigation measures are backed up by emergency response preparedness, both on the part of the contractors and in collaboration with SPDC depending on severity.

Community related Risks (P)

The project straddles 11 main communities; hence the community stakeholder base is large and diverse. Also there are delays in completing some Gbaran Phase 1 GMoU Projects, deploying GMOUs (Steady State) in the Operating areas, and the fact that project will impact new activity area (Epu) may lead to community agitations, work stoppages and reputational damage.

- Mitigation: Community interfaces will be managed through the Global Memorandum of Understanding (GMoU) mechanism (as detailed in the project SP Plan); this will be deployed in alignment with the project schedule. Also an allowance has been made in the project budget for funding of social investment programmes

Contractor Capacity (T, O)

The high activity level and limited EPC contractor base puts pressure on contractors' capacity as they are involved in executing multiple contracts at the same time, and lead to Government pressuring IOCs to contract out with untested local emerging contractors in the effort to build local contractor base capability.

Mitigation: The project work scope has been divided in two separate work packages. Package 1 covers the facilities scope, which drives the project schedule, and Package 2 covers the flowlines and pipelines scope. The facilities scope has been recommended for award to a contractor with experience of working with SPDC whilst the flowline and pipeline scope has been recommended for award to a contractor that will be working for SPDC for the first time. The Contractors' capacities will be reviewed prior to mobilization to site and additional SPDC project management resources mobilized to support the package 2 contractor. In addition, contractor's performance will be monitored closely to enable early intervention on appearance of any red flag.

NNPC Award Approvals for EPC Contracts (C, E)

To safeguard the project schedule it is necessary to award the contract packages by Q1 2013. The commercial bids have been evaluated and award recommendation made to NAPIMS. However, approval protocols within NAPIMS/NNPC can take upwards of 6-12 months to process and contract award ahead of the formal NNPC approval could expose Shell to cost recovery issues (if NAPIMS declines to honour cash calls or approve end of year performances at OPCOM).

Mitigation: SPDC has and will continue to maintain close and rigorous engagement with NAPIMS to ensure common understanding of project priorities and urgencies. There is also a high chance of NNPC GEC /Board approvals for proposals that have passed and obtain the endorsement of the NAPIMS Contract Review Committee (CRC), which in most cases are given in a timely manner. Against this background the proposal is to secure Shell LDL approval to award the contracts packages once NAPIMS CRC endorses and forwards the award approvals to NNPC GEC / Board. It is also noteworthy that a couple of recent awards were similarly made under LDL e.g. FYIP Ph1 Offshore and Otumara pipeline and these were later approved by NNPC board some 9 – 12 months after submission as well as the Southern Swamp which is still awaiting approval. It is estimated that that the risk of exposure becomes minimal once the support of the NAPIMS CRC is received.

Opportunities

The project scope includes the drilling of the Koroama SPUU-1 appraisal well, which will be completed and hooked up if successful. The potential production volume of 100MMScf/d for this well has not been accounted for in the project base case economics and therefore represents an upside.

Alternatives

SPDC has committed to supply NLNG (trains 1 to 6) for a 20-year period and gas supply to the CPF, which is expected to deliver about half of the required volumes, will decline from 2013. The alternative to developing the Gbaran Node Further Development is to develop the Gbaran Deep reservoirs. However

these projects are still in the exploration stage. Efforts are being made to align these Gbaran Deep exploration wells with the Gbaran Ubie projects to save costs and to be able to hook-up these exploration wells up if prospects are promising.

Section 4: Carbon Management

Green House Gas (GHG) Emissions for the Gbaran Infill Project over the 25 year forecasted project life are estimated at 227,168 tonnes of CO2eq; for an expected average production of about 24,000 bpd (net condensate) and 600 MMSCFD NAG. Fugitive emissions are the main source of emission amounting to about 82% of the total emissions. Venting due to routine maintenance and depressurization accounts for 14%, and the fuel gas combustion by the gas engines, for electricity generation, accounts for the remaining 4%.

Over a forecast period of ten years, projected energy intensity is 4.245E-07 GJ per tonnes of hydrocarbon produced. Regarding GHG emissions and energy consumption, this project is considered ALARP.

In addition, the following proposals have been made which will have a direct impact on emissions reduction as well as enabling accurate measurement and analysis of energy use. These include;

- 1. Use of fully pressure rated facilities which will eliminate the need for relief valve as ultimate safeguard for overpressure protection of facilities downstream of the wellhead. Depressurization philosophy is to depressurize the flowlines at the Gbaran CPF, where it will be flared.
- 2. Installation of pressure protection on the slug catcher at the Gbaran CPF to reduce demand on installed relief valve. This reduces relief events and consequently flaring emissions.
- 3. Provide Vent and Flare Gas Meters respectively to measure and Monitor venting/flaring incidents, frequency and flow rates

Section 5: Corporate structure, and governance

The existing corporate structure and governance arrangements of SPDC-JV with SPDC as operator still subsist for this investment.

Section 6: Functional Support and consistency with Group and Business Standards

This proposal complies with Shell Group Business Principles, policies and standards. Functional support for this proposal is provided by Projects & Technology (P&T), Finance, Social Performance, Supply Chain Management, HSE, Operations, Legal, Security, Treasury and Tax functions.

Section 7: Project management, monitoring and review

This is a "P&T executed" project delivered by the UIG/T/PD Major Projects team. The ORP compliant governance structure is in place, including a project specific DRB, DE and BOM. A Project Control and Assurance Plan (PCAP) has been approved that defines the applicable controls for the EXECUTE phase.

Section 8: Budget Provision

It is proposed that at FID, the project budget requirement will be from the alternative funding tranche. In line with current AF agreements, it is expected that project FID OPEX and project management costs will continue to be funded via the regular JV budgetary process.

Section 9: Group Financial Reporting Impact

MCAs are accounted for in the same way as ordinary course investments in JV projects i.e. recording resulting capex, depreciation, gross revenues, royalties and taxes and associated production and reserves in line with Group Policy. The financial impact of the MCA's are calculated in line with the base case MCA specific assumptions and are indicated in the table below.

US\$ mln	2012	2013	2014	2015	2016	Post 2016
Total Commitment	4	76	190	159	72	32
SCD OPEX	0	1	1	1	1	0
Pre-FID	0	0	0	0	0	0
Cash Flow						
Capital expenditure	4	75	189	158	71	32
Cash Flow from Operations	1	23	64	89	142	745
Cash Surplus/(Deficit)*	-3	-52	-125	-69	71	713
Profit and Loss						
NIBIAT +/-	0	3	10	31	79	431
Balance Sheet						
Average Capital Employed	2	31	126	244	298	69

Section 10: Disclosure

Material disclosure, if any, will be done in line with the Group Disclosure Guidelines.

Section 11: Financing

The pre-FID portion of this investment has been financed with JV funding. It is expected that financing for the main project scopes shall be through the MCA funding mechanism. Formal sign-off is being finalized with JV partners. However, it is planned to make commitments upon NAPIMS approval of MCA figures

Section 12: Taxation

There are no unusual taxation features.

Section 13: Key Parameters

Approval is sought for additional US\$533.7mln (Shell Share), for the drilling/completion of 9 NAG wells and the construction of infrastructure for evacuation of production to the Gbaran CPF.

Section 14: Signatures

This Proposal is submitted for approval.

Supported by:	For Business Support:
Bichsel, Matthias	Andrew, Brown
ECMBi	ECAB
Date /	Date / /
Supported by:	For Business Approval:
Henry, Simon	Voser, Peter
Chief Financial Officer	Chief Executive Officer
Date / /	Date /

Appendices

Economics Assumptions

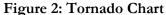
- Oil PSVs of \$50/bbl @SV-RT12, \$70/bbl @RV-RT12 (Base) and \$90/bbl @HV-RT12 with Bonny offset applied.
- 2012 NLNG T1-6 price was used for gas sales to NLNG.
- Education Tax of 2% assessable profit.
- NDDC levy of 3% total expenditure.
- Gas Heating Value (GHV) of 1150btu/scf for Export gas.
- Flare Penalty of \$3.5/Mscf was applied and is not tax deductible.
- Abandonment estimated as 10% of total RT CAPEX.
- Condensate was treated as oil and taxed under Petroleum Profit Tax PPT (PPT tax rate of 85%).

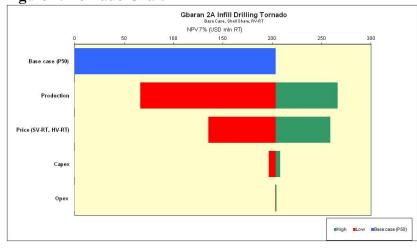
MCA Assumptions

- Profit gas ceiling of 8% IRR on carried costs.
- All costs on the MCA would be recovered through cost gas and condensate.
- Current agreement for recovery of carry costs is maintained.
- \$70.22/bbl Condensate at PSV RV-RT in 2012.
- OPEX and PMT not carried under current MCA arrangement.
- P50 Schedule is premised on funding available by end 2012.

PIB assumptions

- PIB as per July 2012 draft version
- Gas royalty rate increased from 7% to 12.5%
- Gas tax rate increased from 30% to 80% (NHT 50% and CIT 30%)
- No ITA





Gbaran 2A Infill Drilling Profitability Chart 400 0.90 350 0.80 0.70 300 0.60 NPV7%(\$ MIn 250 0.50 200 0.40 0.30 100 0.20 50 0.10 n 0.00 80 100 110 120

Oil Price RT12

Figure 3: Project Profitability Plot

Appendix 1: Details and Cost Estimate (MOD 100% JV) for the Gbaran Infill Project

The scope of the Gbaran Infill Project consists of the following:

A. Wells

1. Drilling of Nine (9) NAG wells from three fields (1 in the Gbaran, 5 in the Koroama; including the Kororama SPUU-1 appraisal well, and 3 in Epu),

B. Gbaran CPF & Remote Sites Facilities - Package 1 Contract

- 1. Installation of 2 x 10MMscf/d booster compressors, and two slug catchers at the Gbaran CPF and tiein to the existing process, electrical, control and safeguarding systems.
- 2. Construction of (on-plot) DSS piping, and utilities facilities at 6 remote well locations, including Field Auxiliary Rooms, Electrical substations, drain & vent vessels, corrosion inhibition packages, utility water tower and distribution systems, etc.
- 3. Installation of two (2) 55m microwave tower and telecommunication infrastructure at Epu-1 and Koroama manifold areas, including telecom cabinets PAGA and CCTV and radio field equipments.
- 4. Installation of CCTV, LAN/WAN, microwave and phone systems for all the remote locations..

C. Pipelines and Inter-Site Composite Cables – Package 2 Contract

- 1. Construct a 40 km network of seven carbon steel pipelines linking the remote well locations to the existing Gbaran CPF. (pipelines dimensions are 1 off 8km x 10-inch, 2 off 5.5km x 8-inch, 2 off 6km x 12-inch, 1 off 5.0km x 6-inch, and 1 off 4.2km x 10-inch)
- 2. Install a 30 km network of five HV/Fiber Optic inter-site composite cables linking the remote well locations to the existing Gbaran CPF (1 x 8km, 2 x 5.5km, 1 x 6km, and 1x 4.2km)

D. Accelerated scope

- 1. Drilling, completion and hookup of 1 NAG well (TBUV2)
- 2. Recompletion of 1 NAG well (Koroama 002T)

Details of the cost estimate (MOD 100% JV) for the full scope (including TBUV2 and Koroama 002T) of the Gbaran Infill Project can be found below.

50/50 MOD Cost Estimate (US\$	mln)
Description	
Location Preparation, Drilling and Completion	259.5
Pipeline and Hook-up	66.4
NAG Facilities* (inclusive of PMT, VAT & Owners Cost)	585.3
Total CAPEX (100% JV)	911.2
SCD	13.7
Total OPEX (100% JV)	13.7
Total (100% JV)	924.8
Total (Shell Share)	533.7

Table 1: Yearly estimated expenditure (FUS\$ mln)

				COST PHASIN	· ·		
1	Previously			COST PHASIN			
Description	approved	2012	2013	2014	2015	2016	Total
Facilities Capex 100%	присте	2022	2020	2021	2020	2020	20112
IV (FUS\$mln) - less	44.0	0.0	161.1	191.5	120.7	88.5	605.8
PMT& SCD		0.0			120	00.5	003.0
Wells Capex 100% IV							
(FUS\$mln)	46.3	2.0	76.3	134.8	0.0	0.0	259.5
Total Capex 100% JV							
(FUS\$mln) - less	90.3	2.0	237.5	326.3	120.7	88.5	865.3
PMT&SCD							
PMT 100% JV	2.1	9.9	12.3	12.7	6.8	2.1	45.9
(FUS\$mln)	2.1	7.7	12.5	12.7	0.0	2.1	75.7
Opex 100% JV	0.7	0.0	3.8	4.5	2.7	2.1	13.7
(FUS\$mln)	0	0.0	0.0		2	2.1	10
Total 100% JV (FUS\$	93.1	11.9	253.5	343.5	130.2	92.6	924.8
mln)							
Total 100% JV (FUS\$							
mln) excluding Pre-							
FID							831.8
Shell Share Equity	27.9	3.6	76.1	103.1	39.1	27.8	277.5
(30%)							
MCA Carry Shell Share (36.67%)	0.0	0.7	87.1	119.7	44.3	32.4	284.2
Total Shell Share							
(FUS\$ mln)	27.9	4.3	163.1	222.7	83.3	60.2	561.7
This proposal Total							
Shell Share excluding							
Pre-FID (FUS\$ mln)							533.7
(= = + =====)							

GLOSSARY

AF – Alternative Funding

CPF – Central Processing Facility

DPR - Department of Petroleum Resources

DRB - Decision Review Board

ESFS - Estimate & Schedule Fact Sheet

FEED - Front End Engineering Design

GHG - Green House Gas

GMoU - Global Memorandum of Understanding

HEMP – Hazard & Effects Management Process

HSE - Health, Safety & Environment

HV - High Value

IOC - International Oil Companies

MCA - Modified Carry Agreement

MOD – Money of the Day

MOPO - Matrix of Permitted Operations

NAG - Non Associated Gas

NAPIMS - National Petroleum Investment Management Services

NCDMB - Nigerian Content Development Management Board

NLNG - Nigeria Liquefied Natural Gas Limited

NPV - Net Present Value

PIB - Petroleum Industry Bill

PMT - Project Management Cost

PPT - Petroleum Profit Tax

PSV – Project Screening Value

RFSU – Ready For Start Up

RT – Real Term

RTEP – Real Term Earning Power

RV – Ranking Value

SCD – Sustainable Community Development

STDWS - Short Term Drilling & Workover Sequence

SV - Screening Value

VIR - Value Investment Ratio

Note: Production forecast and PDRA forecast need to be fully consistent with economic and financial evaluations and results presented in the GIP. HCM foecast need to be captured in HRV-MS, which is the single data source for HCM.

CHE	CK			
developed reserves additions minus cum produciton				
2P Reserves Developed	SEC Proved Developed			
IPa_Cum_Exp_Dev	IPa_Cum_Prv_Dev			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
0.0	0.0			
3.3	1.0			
3.6	1.3			
2.8	0.6			
2.4	0.0			
1.8	0.1			
1.2	0.5			
0.8	0.6			
0.5	0.5			
0.4	0.4			
0.3	0.3			
0.2	0.2			
0.2	0.2			
0.2	0.2			
0.1	0.1			
0.1	0.1			
0.1	0.1			
0.1 0.1	0.1 0.1			
0.1	0.1			

incorrect

СНІ	-CK
developed	
additions	
	iciton
prouc	icitori
	050.5
2P Reserves	SEC Proved
Developed	Developed
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
7.21	2.30
7.60	2.24
6.55	1.34
7.66	0.96
6.30	0.66
5.02	1.96
4.09	3.41
3.40	3.26
2.96	2.92
2.67	2.66
2.43	2.42
2.23	2.22
2.02	2.01
1.86	1.85
1.68	1.67
1.51	1.50
1.34	1.33
1.18	1.17
1.02 0.85	1.01 0.84
0.73	0.72
0.62	0.61 0.52
0.44	0.52
0.36	0.45
0.29	0.33
0.24	0.23
0.20	0.19
0.20	0.19
0.17	0.10
0.10	0.12
0.08	0.09
0.05	0.07
0.03	0.04
negative ni	umbers are

gative numbe incorrect

to be included	HEDULE FACT SHEET in GIP and PCN submission	ns	Version 2.6	Confidential
Gbaran Ubie In LAND, East.	nfill Project	27.2		oved Cost & Schedule Estimate
LAND, EGSI.		Project No.	The second second second	C-12060
	Estimator: Emaviwe, A	- Tanner		larry, Bateyim
Market Scenari	Case: Base		The state of the s	re as per SI-SX Data Set
	is FID Apr-2013 / Project Com		Costs are in: USD	
alegory	a ray Apr-2015 / Project Comp	bienou pec-2016	EDM Date:	1-Jul-11
acilities			Total Costs	
Vells			408	
wners Cost (i)	The state of the s	-FIO & Taxes]	103	
PC Premium (i			78	
ontingency iflation	(i) 16.44%, (ii) 0% facilities 16%	Wellst 0%	84	
manon			35	
		P10 867	P50 925	P90
		-8%	925	1,002
sterprise Fram	nework Agreement Effects	district the second sec	Project Applied	Verified, Not Applied
A Effects Inco	rporated in the P50 above			Termen, Nor Applied
	sportied in the F30 00046	1	12	
sumptions Estimate &	Plandings 0		OK	ems and tie-in estimates have be
Schedule	built using CAPCOST L	used on MTO list from EEED July	anables ni-ti	estimates were prepared based o
tract Strategy	analysis using Primave Two EPC packages will and tie-in works. Site p Corporate Civil works c EPC contract packages management services c	tra risk analysis tool has been can be used for the execution of this preparation required for well dril call-out contracts. on lumpsum basis will be institut contract will be used to provide o	rried out on the s project, one for p ling operations w red for facilities a	nd pipeline works. A project
Project Risks Exclusions	services in the design, project. Security/communities is risks, Internal and exte SPDC financing of inters on P90 dates, also calcu	procurement, fabrication, constru ssues, Funding issues (could impo irnal interface. est during construction. Manager ulated milestones were moved to	ction, pre-commi air contractors' ca ment adjustment of the nearest next	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie
y Project Risks Exclusions	services in the design, project. Security/communities is risks, Internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to acco	procurement, fabrication, constru ssues, Funding issues (could impo ernal interface. est during construction. Manager ulated milestones were moved to emmodate for any force majeure	ction, pre-commi iir contractors' ca ment adjustment o the nearest next , no adjustment h	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applied a quarter. The applied managements been made to the P90 costs.
r Project Risks Exclusions achmarking &	services in the design, project. Security/communities is risks, Internal and exte SPDC financing of intercon P90 dates, also calculations are to accomplish the project of the control of	procurement, fabrication, constru ssues, Funding issues (could impo arnal interface. est during construction. Manager ulated milestones were moved to ammodate for any force majeure as have been benchmarked with	air contractors' ca ment adjustment of the nearest next , no adjustment h	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applied quarter. The applied managements been made to the P90 costs.
Froject Risks Exclusions chmarking &	services in the design, project. Security/communities is risks, Internal and exte SPDC financing of intercon P90 dates, also calculations are to accomplish the project of the control of	procurement, fabrication, constru ssues, Funding issues (could impo arnal interface. est during construction. Manager ulated milestones were moved to ammodate for any force majeure as have been benchmarked with	air contractors' ca ment adjustment of the nearest next , no adjustment h	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applied quarter. The applied managements been made to the P90 costs.
Froject Risks Exclusions schmarking & Metrics	services in the design, project. Security/communities is risks, Internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the cost been benchmarked with	procurement, fabrication, constru ssues, Funding issues (could impo arnal interface. est during construction. Manager ulated milestones were moved to ammodate for any force majeure as have been benchmarked with	air contractors' ca ment adjustment of the nearest next , no adjustment h	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie
Project Risks Exclusions schmarking & Metrics	services in the design, project. Security/communities is risks, Internal and exte SPDC financing of intercon P90 dates, also calculations are to accomplish the project of the control of	procurement, fabrication, constru ssues, Funding issues (could impo irnal interface. est during construction. Manager ulated milestones were moved to immodate for any force majeure. Is have been benchmarked with h completed projects. IPA extern	ir contractors' ca nent adjustment of the nearest next, no adjustment h recently complete ad benchmarking	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applied quarter. The applied managements been made to the P90 costs.
Exclusions Exclusions achmarking & Metrics EX Phasing an	services in the design, project. Security/communities is risks, internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the cost been benchmarked with defianced Progress:	procurement, fabrication, constru ssues, Funding issues (could impo irnal interface. est during construction. Manager ulated milestones were moved to immodate for any force majeure, is have been benchmarked with h completed projects. IPA extern	netion, pre-commi- air contractors' ca ment adjustment of the nearest next, no adjustment h recently complete al benchmarking	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applied quarter. The applied managements been made to the P90 costs. It is projects. Schedule durations have undertaken for this project.
Exclusions Exclusions schmarking & Metrics EX Phasing an	services in the design, project. Security/communities is risks, Internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the cost been benchmarked with the progress:	procurement, fabrication, constru ssues, Funding issues (could impo irnal interface. est during construction. Manager ulated milestones were moved to immodate for any force majeure. is have been benchmarked with th completed projects. IPA extern	nent adjustment of the nearest next, no adjustment herecently complete ad benchmarking Key Schedule Dates: Finish (PSO)	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applied quarter. The applied management as been made to the P90 costs. d projects. Schedule durations have undertaken for this project.
Exclusions Exclusions achimarking & Metrics EX Phasing an	services in the design, project. Security/communities is risks, internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the cost been benchmarked with defianced Progress:	procurement, fabrication, construits assues, Funding issues (could import and interface). est during construction. Manager ulated milestones were moved to a milestones were majeure as have been benchmarked with the completed projects. IPA external phase is the completed projects.	netion, pre-commi- nert adjustment of the nearest next, no adjustment h recently complete ad benchmarking Key Schedule Dates: Finish (PSO) Apr-2013	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management as been made to the P90 costs. d projects. Schedule durations ha was undertaken for this project. Finish (P90) Jun-2013
Exclusions Exclusions schmarking & Metrics EX Phasing an	services in the design, project. Security/communities is risks, Internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the control of the cont	procurement, fabrication, construits assues, Funding issues (could import a construit and interface). est during construction. Manager ulated milestones were moved to ammodate for any force majeure as have been benchmarked with the completed projects. IPA externion. Phase Fib Detailed Design Contrast Award	nent adjustment of the nearest next, no adjustment has recently complete ad benchmarking Key Schedule Dates: Finish (P50) Apr-2013 Jul-2013	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management as been made to the P90 costs. d projects. Schedule durations ha was undertaken for this project. Finish (P90) Jun-2013 Sep-2013
Exclusions Exclusions Achmarking & Metrics EX Phasing an	services in the design, project. Droject. Security/communities is risks, Internal and extermine SPDC financing of intercon P90 dates, also calculated adjustments are to accompliate a facilities cost been benchmarked with deplanned Progress:	procurement, fabrication, construits ssues, Funding issues (could imported interface). est during construction. Manager ulated milestones were moved to ammodate for any force majeure. Is have been benchmarked with the completed projects. IPA externation. Phase Fility Detailed Design Contract Award	nent adjustment of the nearest next, no adjustment herecently complete to be been complete to the nearest next, no adjustment herecently complete to the nearest next percently complete to the nearest next next next next next next next nex	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied managements been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) Jun-2013 Sep-2013 Sep-2013 Sep-2013
Exclusions Exclusions Achmarking & Metrics EX Phasing an	services in the design, project. Security/communities is risks, Internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the control of the cont	procurement, fabrication, construing saves, Funding issues (could import interface). est during construction. Manager ulated milestones were moved to bommodate for any force majeure. Its have been benchmarked with the completed projects. IPA external	nent adjustment of the nearest next, no adjustment has recently complete and benchmarking Key Schedule Dales: Finish (PSO) Apr-2013 Jul-2013 Jul-2013 Oct-2014	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management as been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) 1001-2013 Sep-2013 Sep-2013 Feb-2015
Exclusions Exclusions schmarking & Metrics EX Phasing an	services in the design, project. Droiect. Security/communities is risks, internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the cost been benchmarked with the Planned Progress:	procurement, fabrication, constru ssues, Funding issues (could impo irnal interface. est during construction. Manager ulated milestones were moved to irnal interface. est during construction. Manager ulated milestones were moved to irnal interface. Est have been benchmarked with the completed projects. IPA extern Phase filb Detailed Design Contract Award Procurement Mechanical Completion (varxa)	nent adjustment of the nearest next, no adjustment had precently complete and benchmarking Key Schedule Dates: Finish (PSO) Apr-2013 Jul-2013 Oct-2014 Dec-2014	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management as been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) Jun-2013 Sep-2013 Sep-2013 Feb-2015 May-2015
Exclusions Exclusions chamarking & Metrics EX Phosing an	services in the design, project. Droiect. Security/communities is risks, Internal and exte SPDC financing of intere on P90 dates, also calculated adjustments are to accomplete the facilities cost been benchmarked with d	procurement, fabrication, construing saves, Funding issues (could import interface). est during construction. Manager ulated milestones were moved to bommodate for any force majeure. Its have been benchmarked with the completed projects. IPA external	nent adjustment of the nearest next, no adjustment has recently complete and benchmarking Key Schedule Daless Finish (PSO) Apr-2013 Jul-2013 Jul-2013 Oct-2014	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management as been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) Jun-2013 Sep-2013 Feb-2015 May-2015 Feb-2016
Exclusions Exclusions schmarking & Metrics EX Phasing an	services in the design, project. Droiect. Security/communities is risks, Internal and exte SPDC financing of intere on P90 dates, also calcuadjustments are to according to the project of the project	procurement, fabrication, constru	nent adjustment of the nearest next, no adjustment had precently complete ad benchmarking Key Schedule Datest Finish (PSO) Apr-2013 Jul-2013 Jul-2013 Oct-2014 Oct-2014	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applie t quarter. The applied managements been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) Jun-2013 Sep-2013 Sep-2013 Feb-2015 May-2015 Feb-2016 Nov-2016
Exclusions Exclusions chamarking & Metrics EX Phosing an	services in the design, project. Droiect. Security/communities is risks, Internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the control of the control o	procurement, fabrication, construits of the control interface. est during construction. Manager ulated milestones were moved to ammodate for any force majeure is have been benchmarked with a completed projects. IPA externible projects. IPA exter	nent adjustment of the nearest next, no adjustment had precently complete adjustment had benchmarking Key Schedule Dates: Finish (P50) Apr-2013 Jul-2013 Jul-2013 Oct-2014 Dec-2014 Oct-2015 Jul-2016	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applie t quarter. The applied management as been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) Jun-2013 Sep-2013 Feb-2015 Feb-2015 Feb-2016 Nov-2016 Aug-2015
Exclusions Exclusions Address Exclusions Exclusions Exclusions Exclusions Exclusions Exclusions Exclusions Exclusions	services in the design, project. Droiect. Security/communities is risks, internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the control of	procurement, fabrication, construstions, Funding issues (could import and interface). est during construction. Manager ulated milestones were moved to be milestones. Shave been benchmarked with the completed projects. IPA external properties in the projects of the projects. IPA external properties in the projects of the projects in the projects of the projects o	nent adjustment of the nearest next, no adjustment herecently complete and benchmarking Key Schedule Dates: Finish (PS0) Apr-2013 Jul-2013 Jul-2013 Oct-2014 Dec-2014 Oct-2015 Jul-2015 Jul-2016 Jon-2015	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applie t quarter. The applied managements been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) Jun-2013 Sep-2013 Sep-2013 Feb-2015 May-2015 Feb-2016 Nov-2016
Exclusions Exclusions schmarking & Metrics EX Phasing an	services in the design, project. Droiect. Security/communities is risks, internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the control of	procurement, fabrication, construits assues, Funding issues (could import a construction of the control interface). est during construction. Manager ulated milestones were moved to be milestones. IPA externity of the completed projects. IPA externity of the control of th	nent adjustment of the nearest next, no adjustment has been complete at benchmarking Key Schedule Dates: Finish (PSO) Apr-2013 Jul-2013 Oct-2014 Dec-2014 Oct-2015 Jul-2015 Dec-2015 Oct-2016	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management is been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) Jun 2013 Sep-2013 Sep-2013 Feb-2015 May-2016 Aug-2015 May-2016 Feb-2017
Exclusions Exclusions Another and Anothe	services in the design, project. Droiect. Security/communities is risks, internal and exte SPDC financing of intercon P90 dates, also calcuadjustments are to according to the control of	procurement, fabrication, construits and the procurement of the procur	nent adjustment of the nearest next, no adjustment herecently complete (all benchmarking) Key Schedule Dates: Finish (PSO) Apr-2013 Jul-2013 Jul-2013 Oct-2014 Doc-2014 Jul-2015 Jul-2015 Jul-2015 Jul-2015 Jul-2015 Doc-2015	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management is been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) 100-2013 Sep-2013 Sep-2013 Feb-2015 May-2015 May-2016 Aug-2015 May-2016
Project Risks Exclusions Exclusions America EX Phosing on EX Phosing on EX Phosing on EX Phosing on	services in the design, project. Droject. Security/communities is risks, Internal and exte SPDC financing of intere on P90 dates, also cake adjustments are to according to the project of the project	procurement, fabrication, construits assues, Funding issues (could import a construction of the control interface). est during construction. Manager ulated milestones were moved to be milestones. IPA externity of the completed projects. IPA externity of the control of th	nent adjustment of the nearest next, no adjustment has been complete at benchmarking Key Schedule Dates: Finish (PSO) Apr-2013 Jul-2013 Oct-2014 Dec-2014 Oct-2015 Jul-2015 Dec-2015 Oct-2016	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management is been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) Jun 2013 Sep-2013 Sep-2013 Feb-2015 May-2016 Aug-2015 May-2016 Feb-2017
y Project Risks Exclusions nchmarking & Metrics PEX Phasing an	services in the design, project. Droject. Security/communities is risks, Internal and exte SPDC financing of intere on P90 dates, also cake adjustments are to according to the project of the project	procurement, fabrication, construits assues, Funding issues (could import a construction of the control interface). est during construction. Manager ulated milestones were moved to be milestones. IPA externity of the completed projects. IPA externity of the control of th	nent adjustment of the nearest next, no adjustment has been complete at benchmarking Key Schedule Dates: Finish (PSO) Apr-2013 Jul-2013 Oct-2014 Dec-2014 Oct-2015 Jul-2015 Dec-2015 Oct-2016	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management is been made to the P90 costs. d projects. Schedule durations have was undertaken for this project. Finish (P90) Jun 2013 Sep-2013 Sep-2013 Feb-2015 May-2016 Aug-2015 May-2016 Feb-2017
y Project Risks Exclusions nchmarking & Metrics PEX Phasing an 38 30 30 30 30 30 30 30 30 30	services in the design, project. Droject. Security/communities is risks, Internal and exte SPDC financing of intere on P90 dates, also cake adjustments are to according to the project of the project	procurement, fabrication, construits ssues, Funding issues (could import of the country of the	nent adjustment of the nearest next, no adjustment had precently complete adjustment in recently consistent adjustment in recently complete adjustment in rece	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applie t quarter. The applied management of the P90 costs. I d projects. Schedule durations have been made to the P90 costs. I projects. Schedule durations have undertaken for this project. Finish (P90) Jun-2013 Sep-2013 Sep-2013 Feb-2015 May-2015 Feb-2016 Nov-2016 Aug-2015 May-2016 Feb-2017 May-2017
y Project Risks Exclusions nchmarking & Metrics PEX Phasing and 120 320 320 320 320 320 320 320	projects. Droiects. Security/communities is risks, Internal and external and exte	procurement, fabrication, construstives and interface. est during construction. Manager ulated milestones were moved to bommodate for any force majeure is have been benchmarked with a completed projects. IPA externion Detailed Design Contract Award Procurement Mechanical Completion (vzrx-2) Mechanical Completion (coreces) Mechanical Completion (coreces) MFSU (Krooma) RFSU (Krooma) RFSU (Fpu) Project Completion	ir contractors' ca ment adjustment of the nearest next, no adjustment has the nearest next, no adjustment has recently complete and benchmarking Key Schedule Dates: Finish (PSO) Apr-2013 Jul-2013 Jul-2013 Jul-2014 Dec-2014 Dec-2015 Jul-2016 Jun-2015 Dec-2016 Dec-2016	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management of the P90 costs. d projects. Schedule durations have been made to the P90 costs. d projects. Schedule durations have undertaken for this project. Finish (P90) Jun-2013 Sep-2013 Sep-2013 Feb-2015 May-2015 Feb-2016 Aug-2015 May-2016 Aug-2017 May-2017
y Project Risks Exclusions nchmarking & Metrics PEX Phasing an 100 100 100 Date : Name :	services in the design, project. Droject. Security/communities is risks, Internal and exte SPDC financing of intere on P90 dates, also cake adjustments are to according to the project of the project	procurement, fabrication, construstives and interface. est during construction. Manager ulated milestones were moved to bommodate for any force majeure. Is have been benchmarked with the completed projects. IPA externs Phase FID Detailed Design Contract Award Procurement Mechanical Completion (vzrz-2) Mechanical Completion (vzrz-2) Mechanical Completion (vzrz-2) RESU (VZIX-2) RESU (Erooma) RESU (VZIX-2) RESU (Fpu) Project Corapletion	nent adjustment of the nearest next, no adjustment has been complete and benchmarking Key Schedule Dales: Finish (PSO) Apr-2013 Jul-2013 Jul-2013 Jul-2014 Doc-2014 Doc-2014 Doc-2015 Doc-2015 Doc-2016 Doc-2016	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applie t quarter. The applied management of the P90 costs. It is a projects. Schedule durations have been made to the P90 costs. It is a projects. Schedule durations have undertaken for this project. Finish (P90) Jun-2013 Sep-2013 Sep-2013 Feb-2015 May-2015 May-2016 Feb-2017 May-2017 Polect Manager 1 · 1 2. Olo, Molabi
Project Risks Exclusions Inchmarking & Metrics PEX Phasing and 100 100 100 100 100 100 100 1	Project Services Manager Project Services Manager Nyakasza, Empka	procurement, fabrication, construstives and interface. est during construction. Manager ulated milestones were moved to bommodate for any force majeure is have been benchmarked with a completed projects. IPA externion Detailed Design Contract Award Procurement Mechanical Completion (vzrx-2) Mechanical Completion (coreces) Mechanical Completion (coreces) MFSU (Krooma) RFSU (Krooma) RFSU (Fpu) Project Completion	nent adjustment of the nearest next, no adjustment has recently complete and benchmarking Key Schedule Dates: Finish (P50) Apr-2013 Jul-2013 Jul-2014 Dec-2014 Dec-2014 Jul-2015 Jul-2015 Jul-2015 Dec-2015 Oct-2016 Dec-2016	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management of the P90 costs. It is projects. Schedule durations have been made to the P90 costs. It is projects. Schedule durations have undertaken for this project. Finish (P90) 100-2013 Sep-2013 Sep-2013 Sep-2013 Feb-2015 May-2015 May-2016 Feb-2017 May-2017 Polect Manager 1 1 1 2 Dio, Afolabi
y Project Risks Exclusions nchmarking & Metrics PEX Phasing an 100 100 100 100 100 100 100 100 100 1	Project Services Manager Project Services Manager Ny Project Services Manager Ny Project Services Project Services New Year Project Services	procurement, fabrication, construsions, Funding issues (could important interface). est during construction. Manager ulated milestones were moved to bommodate for any force majeure. It is have been benchmarked with the completed projects. IPA external Phase Phase Phase Phase Phase Phose Phose Phase Signature	nent adjustment of the nearest next, no adjustment has recently complete and benchmarking Key Schedule Dates: Finish (P50) Apr-2013 Jul-2013 Jul-2014 Dec-2014 Dec-2014 Jul-2015 Jul-2015 Jul-2015 Dec-2015 Oct-2016 Dec-2016	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 · 4 months have been applie t quarter. The applied management of the P90 costs. It is a projects. Schedule durations have been made to the P90 costs. It is a projects. Schedule durations have undertaken for this project. Finish (P90) Jun-2013 Sep-2013 Sep-2013 Feb-2015 May-2015 May-2016 Feb-2017 May-2017 Polect Manager 1 · 1 2. Olo, Molabi
Exclusions Exclusions enchmarking & Metrics PEX Phasing and 186 180 180 180 180 180 180 180 180 180 180	Project Services Manager Project Services Manager Nyakasza, Empka	procurement, fabrication, construstives and interface. est during construction. Manager ulated milestones were moved to bommodate for any force majeure. Is have been benchmarked with the completed projects. IPA externs Phase FID Detailed Design Contract Award Procurement Mechanical Completion (vzrz-2) Mechanical Completion (vzrz-2) Mechanical Completion (vzrz-2) RESU (VZIX-2) RESU (Erooma) RESU (VZIX-2) RESU (Fpu) Project Corapletion	ir contractors' cannot adjustment of the nearest next, no adjustment in recently complete (all benchmarking) Key Schedule Dates: Finish (PS0) Apr-2013 M-2013 M-2013 M-2014 Dec-2014 Dec-2014 Dec-2015 Jon-2015 Dec-2015 Dec-2016	ssioning/commissioning of this sh flow resulting in delays), HSE of 2 - 4 months have been applie t quarter. The applied management of the P90 costs. It is projects. Schedule durations have been made to the P90 costs. It is projects. Schedule durations have undertaken for this project. Finish (P90) 100-2013 Sep-2013 Sep-2013 Sep-2013 Feb-2015 May-2015 May-2016 Feb-2017 May-2017 Polect Manager 1 1 1 2 Dio, Afolabi