

**PNG LNG Kwatali
Envairomen na Sospel Ripot**

**Namba Tu Kwata
2012**



PNG LNG

*Energy for the World. Opportunity for Papua New Guinea.
Eneji Bilong Wol. Luksave Bilong Papua Niugini.*



Wok bung wantaim long karim gutpela kaikai

“Ol woka, saplaia na stekholda insait long dispela PNG LNG Projek i kamapim wanpela strongpela tim insait long dispela tupela yia. Mipela i soim rispek na luksave long wok bilong wanpela narapela na serim wantaim win bilong wanpela narapela.”



Decie Autin, Projek Eksekutiv, Esso Highlands Limited

Long taim ol konstraksen wok i stat long 2010, dispela Papua Niugini Likwifait Nuturel Ges (PNG LNG) Projek (Projek) i kamapim tim i wok bung wantaim namel long ol woka, kontrakta, ol komyuniti memba na ol arapela stekholda. Dispela tim nau i kamapim ol bikpela wok bilong Projek na envairomen, sosel na helt komitmen we bai kamapim sastenabel sindaun bilong Papua Niugini long bihaintaim.

Dispela em i namba ten PNG LNG Kwatali Envairomen na Sosel Ripot, we i soim olsem wanem Esso Highlands Limited, opereta bilong dispela US\$15.7bilien Projek, i kamapim tru sosel, envairomen, helt na sosel komitmen bilong Projek. Esso Highlands Limited, wanpela han bilong Exxon Mobil Corporation, i go pas long mekim wok bilong konstraksen na operesen na i developim Projek wantaim ol ko-vensera olsem: Oil Search Limited, National Petroleum Company of PNG (Kroton) Limited, Santos Limited, JX Nippon Oil and Gas Exploration Corporation, Mineral Resources Development Company Limited na Petromin PNG Holdings Limited, wantaim ol wanwok bilong ol.

Wokfos developmen

Wok bilong konstraksen i kamap bikpela nau, na moa long 17,600 pipel i wok wantaim long kamapim ol komitmen bilong Projek long planti projek sait. Long ol dispela woka, klostu hap namba bilong ol em ol Papua Niugini, wantaim ol Lendona Kampani (Lancos) i wok long givim moa long 70 pesen bilong ol Papua Niugini pipel insait long wokfos.

17,600+ pipel i kamapim namba bilong Projek wokmanmeri

Long dispela kwata, Projek i givim moa long 950 kos inap olsem 147,000 trening aua long helpim ol wokfos i redi long wok bilong konstraksen na operesen. Moa long 10,000 Papua Niugini sitisen i kisim trening long Projek i kam inap nau.

Dispela i bringim total namba bilong trening aua i go antap long 1.3 milien na total namba bilong ol kos i kamap em inap long 5,000.

Pot Mosbi Konstraksen Trening Fasiliti nau i ken tok 1,600 i greduet long en na 30 pesen bilong ol em ol meri. Long ol dispela, moa long 300 greduet i kisim ol intenesenel luksave Technical and Further Education (TAFE) Australia Setifiket Level I long Risos na Infrastraksa Operesen, na 35 i kisim Australian Quality Training Framework stended Setifiket Level II long Jeneral Konstraksen na Sivil Konstraksen.



Ol greduet bilong Pot Mosbi Konstraksen Trening Fasiliti

Namba wan Projek intek bilong ol lain i kisim trening long Operesens na Meintenens, ol i bin rikrutim long namel bilong 2010, i stap namel nau long pinisim Advens Skils training long Nova Scotia, Canada na namba tu lain i stap insait long Faundesen Skils Program long Papua Niugini.

Long taim ol wok i pinis long Projek, namba bilong bikpela wokfos bai surik i kam daun. Tasol, ol dispela trening em Projek i givim long ol woka insait long dispela tupela yia i givim ol save em ol i ken yusim long painim wok long narapela hap. Ol wok long kain eria olsem ol arapela maining na oil na ges projek, o long ol gavman infrastraksa projek. Ol program em Projek i kamapim olsem kapesiti bilding na laivilhud developmen program i wok long sapatim tu ol komyuniti long kamapim ol lokal bisnis.

Groim ol Papua Niugini bisnis

Wok bilong Enterprise Centre na Bisnis Developmen tim bilong Projek i kamapim bikpela wok long promotim ol lokal pipel i kam insait long Projek, wantaim 183 milien Kina (US\$88 milien) long mani long wok bilong Projek i go long ol Lanco long dispela kwata na 1 bilien Kina (US\$480 milien) i kam inap nau.

Bungim wantaim olgeta mani em Projek i spendim insait long kantri wantaim ol Lanco na non-Lanco saplaia em klostu i bungim mak bilong 5 bilien Kina (US\$2.4 bilien) i kam inap nau.

5 bilien Kina em ol i spendim long Papua Niugini i kam inap nau

Long dispela kwata, Enterprise Centre i winim bikpela mak, em i pinisim 200th bisnis asesmen ripot bihain long em i statim wok long 2010. Skelim olgeta wantaim, Centre i kamapim 1,002 trening de- dispela em i 67 pesen moa long namba wan kwata bilong 2012. Wanpela as bilong dispela em bikos moa ogenaisesen bilong ol meri i yusim dispela sans bilong trening na bisnis asesmen em Centre i wok long givim.

Long mun Me, Anuel Rot So bilong Centre i lukluk long helpim ol kampani i stap outsait long Projek impek eria long kam insait long ol bisnis i pas long Projek.

Long wankain taim tu, antap long ol ektiviti i kam long Projek, ol Lanco i wok long go insait long ol narapela bisnis we i no pas long Projek konstraksen. Eksampl, foapela Lanco long ol viles long LNG plent sait i kamapim profit-sering patnasip wantaim lokal ritela na holisel kampani RH Trading Limited, long operetim tripela stua long LNG plent sait.

Ol dispela stua i op long mun Epril, na nau ol i salim ol liklik samting i go long ol woka long LNG plent sait husat i save hatwok long go long Pot Mosbi bipo long baim ol saplai.

Konstraksen

Projek i ran gut long winim mak bilong 2014 taim bilong salim ges (stat ap windo), we planti konstraksen wok i pinis long dispela kwata. Dispela i karamapim wok pinis bilong instelesen bilong 407-kilomita opso paiplain, jeti trestle, not na saut LNG tenk auta sel na ruf instelesen, na moa long 80 pesen bilong Driling Rig 702 set ap long Welped B.

Ki konstraksen i stap long Tebol 1.

407-kilomita opso paiplain instelesen i pinis



Driling Rig 702 long Welped B

Tebol 1 – Ol kontrak na bikpela wok konstraksen

Kontrak	Kontrakta	Ol Bikpela Wok Long Namba Tu Kwata 2012
Apstrim Infrastraksa (C1)	Clough Curtain Brothers Joint Venture	Pinisim planti wok bilong stretim graun long Welped Akses Rot. Pinisim na henova bilong proses eria bilong Hides Ges Kondisening Plent i go long Hides Ges Kondisening Plent na Hides Welpeds kontrakta.
Opso Paiplain (EPC2)	Saipem	Pinisim instelesen bilong 407-kilomita opso paiplain.
LNG Plent na Marin Fasilitis (EPC3)	Chiyoda and JGC	Pinisim auta sel na ruf instelesen bilong tupela LNG tenk. Pinisim 2.4-kilomita jeti trestle.
Hides Ges Kondisening Plent na Hides Welpeds (EPC4)	CBI Clough Joint Venture	Stat long kapsaitim simen bilong ekwipmen faundesen i stat long yutiliti eria. Stat long mekim wok bilong strakturel stil na andagraun paiping.
Onso Paiplain (EPC5A)	SpieCapag	Moa long 170 kilomita welding i pinis long 292-kilomita paiplain. Klaim na gredim kostu 180 kilomita paiplain Rait ov We. Pinisim namba tri na bikpela tru bilong ol foapela horisental daireksenel driling operesen aninit long Mubi River.
Komo Ples Balus (EPC5B)	McConnell Dowell and Consolidated Contractor Group	Pinisim moa long 800 mita bilong ranwe. Pinisim 75 pesen long wok bilong sanapim ol stil bilong sapot fasiliti.
Asosietet Ges Developmen	Kain kain	Konstraksen i stat long Gobe Prodaksen Fasiliti. Pinisim wok bilong komisining na pefomens testing bilong triethylene glycol yunit na asosietet ges kula long Kutubu Sentral Prosesing Fasiliti. Putim tupela nupela jenereta long Kumul Marin Terminal.
Driling (nupela wels na wokovas)	Nabors Drilling International Limited	Set-ap bilong namba wan driling rig long Welped B. Namba tu driling rig i statim 800 kilomita raun bilong en long Hailans Haiwe i go long Hides eria.

Sefti, helt na sekiuriti

Long dispela kwata, Projek i no painim wanpela bagarap na i winim ol narapela kwata, maski long taim planti moa wok i kamap na we ol wok long wan wik i winim moa long wan milien aua.



Moa long 33,000 paip join long Malaysia i kamap gut long Papua Niugini

Dispela gutpela sefti rekot i kamap bikos wok i kamap oltaim long kamapim gut save long as bilong sefti proses long hap bilong konstraksen wok, na komitmen bilong ol Projek woka long lukautim ol yet na ol wanwok. Eksampel, long dispela kwata, projek i kirapim ol Sefti Bes Prektis miting olsem hap bilong Liding Indiketas fo Haia Hasad Ektivitis program ol i kirapim long namba wan kwata bilong 2012.

Long wankain taim tu, ol i opim wanpela Operesen Senta long Hides long lukautim wok bilong sekiuriti na wokabout manesmen long not eria bilong Projek.

Helt tim i saptim ol Projek kontrakta long taim ol i muvim wok na kem i go long rot bilong onso paipplain. Ol i mekim wok bilong sekap long haijin, kaikai na kwaliti bilong wara long hap we ol nupela ples bilong wok na kem i kamap na sekap tu long helt bilong ol wokman bipo long ol i stat wok. Helt tim i wok wantaim ol kontrakta na medikal saplaia bilong Projek long lukim olsem i gat inap medikal risos long ol ples bilong wok long Apstrim.

Pasin bilong sekap long sik tubekulosis i kamap gut long dispela kwata, long taim ol i stretim gut pasin bilong testim na sekap long ol pipel. Ol i yusim nau GeneXpert® teknoloji long Projek na Kikori Hospital olsem hap bilong 'Patnasip fo Helt' agrimen wantaim Papua Niugini Institute of Medical Research.

Dispela GeneXpert teknoloji i sotim taim bilong painimaut sapos man i gat sik TB i kam daun long wan aua tasol we bipo ol i mas wet inap sampela wik, na test i soim olsem 99 pesen em i soim tru risal bilong test. Em bai helpim long painimaut hariap long sik tubekulosis na givim marasin long sikman long hap bilong Projek na long komyuniti tu.

Ol komyuniti bai kisim helpim tu long National Infectious Disease Diagnostic and Research Laboratory long University of Papua New Guinea School of Medicine and Health Sciences long Pot Mosbi, em Esso Highlands Limited i givim mani long en. Bai em i op na statim wok bilong en long namba foa kwata long 2012.

Sosel developmen

Sosioikonomik tim i wok long saptim ol komyuniti developmen komiti na skruim moa trening program bilong ol Papua Niugini long ol kain pasin bilong luksave na givim sans bilong trening i go long ol meri na Pesonel Vaibiliti trening. Pesonel Vaibiliti trening i helpim ol pipel long skelim gut taim na mani na strongim gutpela sindaun namel long famili memba, wanpisin, na ol arapela grup, na givim save long ol i ken kirapim ol liklik projek bilong painim mani. Moa long 560 pipel long Hides, Komo, Kutubu, Moran na LNG plent sait eria i bin stap insait long Pesonel Vaibiliti trening.

Na tu, tupela meri, Cathy Alex na Doris Pipi bilong Sauten Hailans Provins, i bin go stap insait long faivpela wik Global Wimen in Manesmen program long Washington DC em Projek yet i bin sponsa long en, long dispela kwata.

Projek i go het yet wantaim program bilong en Sapot tu Skuls we em i givim ol bokis i gat ol buk bilong rit, na ol wara tenk i go long ol skul long ol viles i stap long LNG plent sait. Long wok bung namel long Projek na ol kontrakta bilong en, ol i wokim na opim wanpela nupela elementeri skul bilding long Hides long dispela kwata, we i kisim ol skul pikinini long pri skul, gret 1 and gret 2.



Ol student long Para Elementeri Skul long opisal opening seremoni

Wantaim sapot i go long ol skul, Projek i givim tu US\$300,000 i go long Papua Niugini Eben Yut Emploimen Program. Dispela Program i givim pri-emploimen trening na aprentis wok i go long ol at-risk yangpela pipel long Nesenel Kapital Distrik. Projek i skelim pinis US\$900,000 i go long saptim dispela Program.

Wok bilong envairomen

Long dispela kwata, namba wan independen wid rivi bilong Projek i glasim gen ol wok aninit long Wid, Plent, Patojin na Pest Manesmen Plen bilong Projek na tu, ol wid manesmen program bilong ol kontrakta. Dispela rivi i painimaut olsem Projek na kontrakta fasiliti i soim ol i bihainim Plen, i bin gat bikpela level bilong wid haijin long ol woksait na strongpela wok bilong ol kontrakta long soim olsem ol i kontrolim gut wid manesmen.

Lender Group Independent Environmental and Social Consultant (IESC) i glasim tu envairomen na sosel komitmen bilong Projek long taim ol i mekim namba sikis lukluk raun long sait long mun Mas 2012. Ripot bilong dispela lukluk raun i stap long websait bilong Projek na i toktok long ol samting IESC i bin painimaut long taim ol i inspektim ol woksait na miting wantaim ol woka bilong Projek na ol komyuniti.

Long dispela kwata, Projek i givim kontrak bilong rausim ol weist na operesen bilong Hides Weist Manesmen Fasiliti. Ol i statim tu wok bilong oil weist prosesim long ol fasiliti long Lae na Pot Mosbi bihain long Projek rivi na tokorait. Na tu, ol Projek kontrakta i painim ol rot bilong risaikel. Eksampl, Onso Paipain kontrakta i wok long yusim gen ol pekej kadbot long pasim na was long ol beil tin na plastik long taim ol i salim i go long prosesim fasiliti bilong narapela hap. Long LNG sait, gutpela wok bilong wanpela baiodaijesta bilong tritim ol weist kaikai i mekim na ol i baim wanpela moa. Samting olsem tupela ton kompos pipia ol i rausim long namba wan baiodaijesta em ol i yusim olsem fetilaisa long graun arere long LNG plent sait.

Ol woksait long ol Projek i makim Wol Envairomen De long Jun 5 na wanpela ektiviti long dispela de em ken risaikling kompetisen we ol i bungim 59 kilogram ken na salim i go long Hides long risaikel.



Klinim ol Projek sait long Wol Envairomen De

Long statim ol wok redi bilong drilling operesen long dispela kwata, trening na toksave sesen i kamap wantaim Drilling kontrakta we i karampim ol samting olsem pasin bilong lukautim ol enimal na luksave long ol wid.

Drilling tim wantaim Projek i mekim fomal spil rispons trening. Ol i stretim tok wantaim wanpela narapela lain long givim spil rispons sapot sevis long ol spil we ol lain long sait i no inap long stapim, we bai i gat inap rispons kapesiti i stap bipo long wok bilong drilling i stat.

Reinstetmen em i wanpela ki ektiviti long dispela kwata long taim konstraksen i pinis long sampela woksait.

Wokbung wantaim ol stekholda na komyuniti

Kirapim sindaun bilong pipel em sampela ektiviti i kamap long dispela kwata we Projek i givimaut klostu olsem 28,000 lip kaukau, 940 stik tapiok, 1,700 kru bilong painapel, 530 muli/mandarin sidling, 340 kilogram kon, 260 kilogram pinat na 2.1 kilogram kaikai bilong kol ples long Hides na Komo eria. Long las tupela yia, Projek i lukluk long kamapim ol kaikai na enimal long helpim sindaun bilong ol pipel. Nau ol i kirapim tingting bilong ol viles pipel long yusim save bilong ol long painim mani bilong ol yet na komyuniti bilong ol. Long bihaintaim, bai ol dispela liklik bisnis i helpim ol pipel long kisim mani na bai ol i no inap nidim sapot bilong Projek.

Long dispela kwata, Projek i kisim ripot na raitim daun 100 komplek, dispela namba i 23 pesen daunbilo long mak bilong las kwata. I gat sampela as watpo na namba bilong ol komplek i go daun. Wanpela bilong ol em bikos tupela bikpela kontrakta i pinisim wok na klostu ol wok bilong len akses tu i pinis.

Wara taskfos bilong Projek i wok wantaim ol komyuniti long stretim ol hevi i kamap long wara na ol impek i kamap long ol konstraksen i kamap long ol wara. Long dispela kwata, ol i wokim narapela 14 straksa long wara, we i bringim namba bilong ol wara straksa ol i wokim long ol komyuniti long Hides na Komo eria i go antap long mak bilong 61.

Wok bilong Projek long toktok wantaim ol komyuniti na stekholda long toksave long ol ektiviti bilong Projek na strongim ol sefti toksave i wok long gohet yet. Eksampl, long dispela kwata, Projek i lonsim niuspepa kolum bilong wan wan mun i kam long Esso Highlands Limited Manesim Dairekta Peter Graham. Nem bilong dispela kolum em Yumi Stori long PNG LNG, na i toksave long ol rida long konstraksen wok bilong Projek na ol komyuniti program. Namba wan kolum i kamap long tupela niuspepa, *The National* na *Post Courier* na ol i tanim long Tok Pisin na putim long *Wantok Niuspepa*.

Klostu 28,000 pipel long ol engesmen ektiviti

Na tu long dispela kwata, Papua Niugini nesenel ragbi tim, ol Kumul, i lukluk raun long Onso Paipain woksait inap sevenpela de. Ol niuspepa i raitim stori bilong dispela lukluk raun bilong ol.



Ol Kumul i lukluk raun long Projek woksait long strongim toksave bilong sefti

Projek i wok bung wantaim Papua Niugini Department of Foreign Affairs, na i givim toksave long LNG plent sait lukluk raun bilong 15 mausman/meri bilong ol ovasis misin long Papua Niugini na tenpela Hed ov Misin.

Bihain long Projek i kisim Hela Tensisenal Atoriti na Sentral Provinsal Gavman long namba wan kwata bilong 2012, Projek i bung wantaim provinsal edministresen bilong Galp Provins na Sauten Hailans Provins long wok wantaim ol long kamapim gutpela luksave na wok long ol hap bilong Projek we ol pipel bilong ol narapela ples bai muv i go sindaun. Ol gavman ejensi long Kikori i kamapim ol rot bilong kontrolim ol pipel na faiv yia developmen plen na pablik awenes wantaim ol komyuniti grup long pasin we ol outsait lain bai muv i kam insait. Kikori Distrik Lokal Level Gavman tu i wok long developim polisi bilong in-maigresen.

Long taim Projek i muv long konstraksen feis i go long ol wok bilong operesen, pasin bilong strongim timwok i kamap bikpela samting long bihaintaim bilong wokfos. Projek i wok wantaim ol woka, komyuniti memba na ki stekholda long strongim timwok na kamapim gutpela na sastenabel autkams bilong Papua Niugini.





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ExxonMobil

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