



**PNG LNG Kwatali
Envairomen na Sosel Ripot**

**Namba Wan Kwata
2011**



PNG LNG

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



Kapsaitim simen bilong sanapim PNG LNG Plent

“Bihainim ol wok redi long sait na rot na infrastraksa developmen long yia i go pinis, kapsaitim namba wan foundesen bilong LNG Plent i makim wanpela bikpela wok kamap insait long patnasip namel long PNG LNG Projek na Papua Niugini.”

Decie Autin, Projek Eksekutiv, Esso Highlands Limited

Papua Niugini Likwifait Netserol Ges (PNG LNG) Projek (Projek) i makim tupela bikpela wok kamap insait long namba wan kwata bilong 2011 wantaim wanpela brukim graun seremoni bilong wok konstraksen long ol proses tren na namba wan simen foundesen ol i kapsaitim long LNG Plent, we bai wanpela bikpela Projek fasiliti o ples wok.



Brukim graun seremoni long proses eria

Esso Highlands Limited, wanpela han bisnis bilong Exxon Mobil Corporation, i wok sanapim na bosim Projek makim ol ko-vensera o bisnis i wokbung: Oil Search Limited, National Petroleum Company PNG Limited, Santos Limited, JX Nippon Oil and Gas Exploration Corporation, Mineral Resources Development Company Limited na Eda Oil Limited na wanwok bilong ol.

Dispela em i namba faiv PNG LNG Kwatali Envaironmen na Sosel Ripot, na i soim olsem Esso Highlands Limited, olsem opereta bilong Projek, i wok long inapim olgeta tok promis bilong em long sait bilong sefti, helt, envaironmen na sosel menesmen.

Ol wok pastaim long konstraksen

Pri-konstraksen sevei wok bihainim onso paiplain Rait ov We i go het yet, wantaim samting olsem 67 pesen bilong 292-kilomita bikpela paiplain ol i seveim pinis. I go inap long namel long mun Februari, ol onso paiplain pri-konstraksen

sevei i painim 68 kalsarel herites sait we i mas i gat abrusim o banis. Menesmen tim bilong Projek i wok wantaim ol sosel na kalsarel spesolis long abrusim o daunim senis mak konstraksen i kamapim insait long ol dispela eria.

67 persen bilong 292-kilomita bikpela paiplain rot ol i seveim pinis

Konstraksen

Olsem LNG Plent na ol arapela bikpela Projek sait i muv i go insait long hevi konstraksen wok, ol kontrak kampani i wok apim wok mak bilong ol i kam insait long Papua Niugini. Infrastraksa i wok lo sensis na kamap mobeta, wantaim tu ol rot, bris wok na sanapim bilong ol konstraksen kem i go het yet. Long wankain taim, Apstrim Infrastraksa kontrak kampani i inapim pinis wanpela sefti wokmak wantaim faiv milian awa wok i kamap na i nogat Lost Taim Insiden. Long luksave long dispela, ol i kisim Anuel Projek Eksekutiv Sefti, Sekiuriti, Helt na Envaironmen (SSHE) Awot long namba wan mak bilong wokman sefti, gutpela sabkontrakta menesmen, na gutpela wokbung na timwok.



Decie Autin, Projek Eksekutiv, Esso Highlands Limited, i givim Anuel Projek Eksekutiv SSHE Awot i go long Apstrim Infrastraksa kontrak kampani

Tebol 1 - Ol kontrak na bikpela wok konstraksen

Kontrak	Kontrak Kampani	Ol Bikpela Wok Long Namba Wan Kwata 2011
Apstrim Infrastraksa (C1)	Clough Curtain Brothers Joint Venture	Wok bilong stretim na strongim bris i pinis. Ol bikpela graunwok bilong Hides Ges Kondisening Plent disel rifuil eria i pinis. Pinisim na opim rot i go long Wara Kikori Bris. Pinisim wok lo nupela seksen bilong rot long Kantobo i go long Wara Mubi.
LNG Plent Eli Woks (C2)	Curtain Brothers Papua New Guinea Limited	Ol bikpela graunwok na kalvet ekstensen long rot i bungim Motukea Ailan na LNG plent sait i pinis.
Opso Paipain (EPC2)	Saipem	Givim pinis sabkontrak bilong karim ol lain paip long ples bilong paintim i go long sait. Pinisim piseri na komyuniti ripot na givim i go long Papua Niugini Dipatmen bilong Envaironmen na Konsavesen.
LNG Plent na Marin Fasilitis (EPC3)	Chiyoda and JGC Corporation	Brukim graun seremoni i makim givim bilong proses eria i go long sab-kontrak husait i mekim ol proses tren. Namba wan simen faundesen i kapsait bilong paip rek insait long namba wan proses tren. Pinisim bilong sip bris pail testim. Rivuyu bilong ol LNG tang model i pinis. Wok blong mekim nain persen nickel stil plet bilong insait bilong LNG teng i pinis. Faktori orait testim bilong namba wan Ges Tebain Jenereta i pinis.
Hides Ges Kondisening Plent na Hides Welped (EPC4)	CBI Clough Joint Venture	Faktori tok orait long testim menlain ges kompresen pekes na ol ges tebain pawa jenaresen pekes i pinis.
Onso Paipain (EPC5A)	SpieCapag	Faktori tok orait testim long olgeta menlain manuel na ektuetet valv i pinis. Bikpela konstraksen kem long Kopi i opim wok.
Komo Ples Balus (EPC5B)	McConnell Dowell and Consolidated Contractor Group Offshore	Fes namba wan na tu bilong Men Kem i pinis, na givim 140pla moa bet lo silp. Tok wanbel i kamap wantaim wanpela asples Papagraun Kampani long silip wanpela rot bilong wokabaut raunim ples balus, long givim mobeta rot long komyuniti i wokabaut i go kam.
Asosieted Ges Developmen	Various	Fabrikasen bilong riplesmen bilong oflot boi maka i go het. Wok na konstraksen menesmen kontrak i go long wanpela kampany lo stretim bek Kumul Marin Teminal.
Driling (nupela wels na wokovas)	Nabors Drilling International Limited	Ol kontrak bilong daireksenal drilling, mesamen long taim bilong drilling, loging long taim bilong drilling, fomesen iveluesen, peforeting, laina hanga na komyunikesens i go aut pinis.

Sefti, helt na sekiuriti

I gat ol sans bilong asua i stap insait long olgeta projek we i gat moa long wanpela wok sait, na planti bikpela masin. Olgeta dispela rot bilong bungim birua i bikpela moa insait long ol ples i gat bikpela bus na maunten. Projek i lukim wanpela wokman i dai long dispela kwata taim wanpela Onso Paipain kontrak kampani kru man, husait i wok kliarim paipain Rait ov We, i dai taim em i kisim bagarap long diwai i pundaun antap long em klostu long Gobe. Projek i salim bikpela tok sori bilong i go long famili na ol poroman bilong dispela kru man na toksave long ol atoriti. Projek i kirapim kwik wanpela wok painimaut i go insait long dispela birua.

Long narapela birua insait yet long Sauten Hailans Provins, sampela ol sabkontrak i bin kisim bagarap taim ol i ron long helikopta bilong ol. Ol i kisim gutpela medikal halivim, na ol Papua Niugini atoriti i karimaut wok painim i go insait long dispela hevi.

Long dispela kwata, long halivim helt bilong ol wokman, Projek i lonsim wanpela 'Stay Fit and Well, Prevent Tuberculosis' kempen we i gat awenes long ol wokmanmeri na wok monitaring i kamap wantaim wanpela tritmen riferal progrem long sapotim Wol Tubakulosis De long Mas 24.

Narapela Helt tim progrem i lukluk long ol stopim wok miting, narapela nem em helt stendaun, long Projek long strongim luksave long birua bilong sik malaria na wok banisim long

bekim ol nupela sik malaria i kamap. Moa yet, Projek i karimaut ol intagretet vekta kontrol program na strongim medikal sekap bilong sik tubakulosis pastaim long ol wokman i statim wok, bai ol i ken painim kwik ol sik tubakulosis.

Sefti na sekiuriti bilong Projek wokfos na ol komyuniti i stap klostu i wanpela bikpela samting yet. Sekuiriti strateji bilong Projek i go moa long kamapim longpela taim pasin poroman wantaim ol komyuniti i kam aninit long wok bilong Projek, na i strongim ol papagraun na ol komyuniti longn yusim fomal rot bilong autim na tok ples klia wanem kain ol belhevi ol i gat.

Projek i wanbel wantaim ol asples komyuniti lida na Papua Niugini Gavman yet i strongim loa na oda wantaim moa polismanmeri i stap na promotim tu developmen bilong ol lokol bisnis i wok wantaim projek.

I bin gat wanpela hevi i lukim samting olsem 150 pipel i go insait long Wellpad A Kem. Em i lukim sampela bagarap long tripela Projek wokman, na rausim bilong olgeta sotpela taim wokmanmeri na wok i pas long strongim sefti na sindaun bilong ol wokmanmeri. As bilong dispela go insait long kem nau i stap long wanpela wok painim. Ol samting ol i painimaut i soim olsem as bilong em i no long sait bilong Projek. Sekuiriti tim bilong projek i glasim na strongim ol disain bilong ol kem na ol sekiuriti progrem bilong ol.

Sosel developmen

Projek i go het yet long givim moa mani i go insait long promotim ekonomik groa na kamapim ol gutpela samting bilong ol komyuniti i stap insait long Projek Impek Eria. Olsem, long dispela kwata, 24 helt edukesen skolaspis i go aut long ol sumatin bilong Sauten Hailans, Galp Provins na Sentral Provins aninit long wanpela wokbung wantaim Divain Wod Yunivesiti (Divine Word University) na non-gavman ogenaisesen Population Services International.

Moa long dispela, 22,500 skul pek igat planti ol samting bilong skul i bin go aut long moa long 22,500pla skul pikinini. Dispela i poromanim lons bilong Kastom Stori / Sene Gori Kompetisen, we i askim ol skul pikinini long kisim skul long ol tumbuna bilong ol long long pasin tumbuna na kalsa bilong Papua Niugini.

22,500

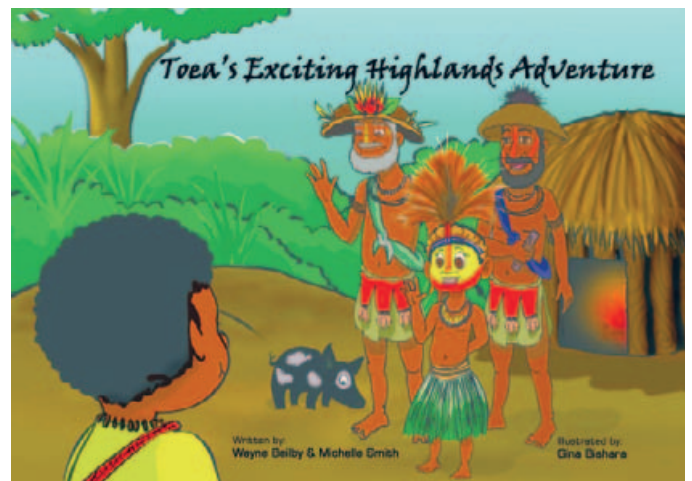
Skul pek i go aut long ol pikinini

Tilim bilong tupela namba wan buk insait long 'Toea' pikinini buk siris i go long olgeta 82 elementeri skul insait long Projek Impek Eria. Ol buk i bihainim stori bilong wanpela yangpela boi i go long kainkain hap insait long Papua Niugini, na kamapim save na luksave long kalsa bilong ol pipel. Ol buk i kisim pinis luksave bilong Nesenel Edukesen Dipatmen na ol i laik givim gutpela kwaliti riding samting i go long ol elementeri skul pikinini.

Luksave olsem agrikalsa em i wanpela bikpela samting insait long laip na sindaun bilong ol rural komyuniti long Papua Niugini, Projek i sapotim developmen bilong ol agrikalsa wok long ples, wantaim ol projek i go het pinis long Hides, Omati na long LNG Plent Sait. Ol dispela wok program i lukluk long promotim ekonomik developmen insait long ol ruel eria i sapotim ol komyuniti long planim ol fres gaden kaikai, sanapim ol lain diwai kesyu na halivim ol meri insait long Kikori eria long kamapim wanpela kampani bilong saplaim ol kago olsem ol sidling samting.



Redim ol skul pek long tilim i go aut



Namba tu buk insait long stori bilong 'Toea'

Ol bikpela konstraksen projek i ken lukim kamap bilong planti manmeri husat i ting olsem bai gat sans long kisim wok o salim samting na kisim mobeta komyuniti sevis o famili sekuiriti. Namba bilong ol kainkain developmen i go antap moa, na tu ol haus na gaden i wok long kamap bihain long wanpela sensus o wok kaunim insait long wanpela Projek Impek Eria. Insait long komyuniti komyunikesens, Sosioekonomik tim i wok go het long toksave long ol de bilong pinis we bihain long em, sampela nupela bilding o haus i sanap, bai no inap pulim luksave long kompensesen.

Narapela bikpela wok em sapotim ol ples insait long LNG plent sait eria long kamapim komyuniti bes inmaigresen plen bilong ol yet long halivim ol yet long lukautim gut kamap bilong ol pipel i bihainim projek i kam insait long eria bilong ol.

Developim ol Papua Niugini bisnis

Bihainim wanpela lukluk long lokol skills developmen, strongim, na onasip bilong ol papa long samting, projek i ken larim wanpela gutpela samting i ken givim kaikai long ol lain tumbuna bilong bihain.

Entaprais Senta i go het yet long wokbung wantaim ol lokol bisnis long kain kain gutpela rot bilong halivim ol long painim na kisim ol sans bilong wok bisnis wantaim Projek na strongim save bilong ol. Laikim bilong Entaprais Senta trening i wok long groa hariap tru wantaim moa long 600 de trening i go aut long samting olsem 250 manmeri i kam long ol bisnis bilong Papua Niugini dispela kwata. Dispela em abrusim 275 de moa long ol namba bilong las kwata. Strong bilong Senta i wok long groa bihainim ol nid lo ol samting ol lokol bisnis i nidim, wantaim ol bisnis tok stia sevis i go aut long fopela LNG plent sait ples long dispela kwata.

Baim kago na sevis long ol asples lain na bisnis i wok long halivim long apim mak bilong ol asples saplaia igo antap long wol stendat. Insait long dispela kwata, moa long 475 milian Kina (US\$185 milion) i go aut long ol Papua Niugini kago na sevis, na i bringim manimak Projek i baim ol samting insait long kantri, inap long moa long tu bilian Kina (US\$779 milion). Dispela invesmen o wok bisnis i kamap long eli infrastraksa developmen program wok, konstraksen bilong Komo Ples balus, ol namba wan wok long LNG plent sait, na ol wok lojistiks na eviesen.

Ol Projek kontrak kampani tu i wok long sapatim ol Papagraun Kampani wantaim Projek mani abrusim mak bilong 280 milian Kina (US\$110 milion) kam inap nau.

Wokfos developmen

Moa long **5,300** Papua Niugini manmeri i kisim wok na makim 75 persen bilong olgeta Projek wokmanmeri

Projek i wok long strongim developmen bilong ol wokmanmeri bilong Projek, trening na helt wok bihainim groa na namba bilong ol wokmanmeri bilong em. Long pinis bilong mun Mas, moa long 7,000 manmeri wok long Projek. Moa long 5,300 Projek wokmanmeri em ol Papua Niugini manmeri yet, husat i makim 75 pesen long olgeta wokfos bilong Projek.



Ol graduet enjinia i mekim wanpela 18-mun developmen program

Projek wok igat nid bilong ol kwolifait konstraksen wokman na strongim sans bilong wok bilong ol Papua Niugini manmeri taim em i givim ol trening ples long sampela ol ples insait long kantri. I kam inap nau, Projek na ol kontrak kampani bilong em i givim pinis moa long 80 kos i gat moa long 1,500 sesen, we moa long 5,000 PNG wokmanmeri i sindaun long em.

Wok bilong envairomen

Projek i wok long menesim gut ol netserol risos olsem wara, timba, ol ston na graun, bilong soim ol strongpela busgraun na wara wok bilip bilong em. Topsoil menesmen em i bikpela samting, bikos em i save holim strong benk bilong ol sid na larim busgraun i groa bek ken long plent matiriel i stap insait long graun, we i bikpela samting long kamapim gutpela sindaun. Kwari o ples ston namba 266, klostu long Omati, we i gat wanpela hul i stap long

givim fil bilong Kopi Skrepa Stesen Kem, i bin op ken long dispela kwata na i yusim topsoil we ol i bin bungim bipo na lukautim gut i stap.

Graun bilong Papua Niugini, sindaun bilong san na ren, na strong bilong graun bilong em i bung wantaim long mekim wok bilong pasim graun bruk na graun i pulap, wanpela bikpela wok salens bilong Projek. Dispela wok i nidim wok monitaring oltaim. Inspeksen na skelim bilong ol samting bilong pasim graun bruk na graun i pulap nating i stap insait pinis long ol verifikesen asesmen o wok sekim na i stap olsem hap bilong ol tulboks toktok na envaironmen awenes trening. Ol skul wanpela tim husat i rivyuim na strongim graun bruk na sedimen kontrol wok long Gobe i go long Wara Mubi Rot i go olsem tu long ol arapela Projek eria na long Onso Paipain kontrak kampani.

Moa yet, wanpela menesmen rivyu bilong ol pipia long olgeta hap bilong Projek, i dispela rivyu painim ol bikpela ples we pipia i save kamap, rot bilong skelim gut, na ol salens bilong mekim dispela wok. Bikpela moa luksave long pipia i wok long daunim lukluk i go long ol arapela ogenaisesen long pipia halivim na apim mak bilong mekim gut wok long olgeta Projek woksait.

Ol bikpela hap mak pipia i wok long kam insait long mekim wok konstraksen long LNG Plent, ol paipain, na ol arapela ples wok. Na taim em i givim ripot long olgeta ron bilong kago i go long Nesenel Agrikalsa Kworentin na Inspeksen Atoriti (NAQIA) pastaim long 90-de notis taim, Projek i wok long halivim long painim wanem kain ol birua i stap long wok bilong karim kago i go kam, na wanem ol wan wan oda i kam long NAQIA pastaim long kago i lusim namba wan sip bris bilong em.

Long kamapim wanpela gutpela wok luksave, na long halivim NAQIA, ol kontrak kampani i wok long serim infomesen long inapim ol komplaiens askim, na moa yet, ol kainkain sindaun olsem klarim bilong wanpela paip ol i pentim pinis taim em i stap yet long solwara.



Poto © C.B. Frith

Grey Goshawk *Accipiter novaehollandiae*
ol i painim insait long Projek Impek Ens

Wokbung wantaim ol stekholda na komyuniti

Kisim komyuniti long mekim wok program bilong Projek i seni long givim jeneral infomesen long Projek i go long skelim ol infomesen ol komyuniti i nidim na givim mobeta program bilong wan wan ol ples. Ol komyuniti i go het yet long toktok wantaim ol, serim infomesen, o wokbung kamapim ol komyuniti developmen objektif.

Wanpela Sefti Awenes Program i lukluk moa long trefik na rot sefti na konstraksen sait sefti i go aut pinis long ful Projek Impek Eria. Dispela kwata em namba wan taim Program i go aut long ol skul na komyuniti i sindaun bihainim paiplain.

Moa yet long dispela, wanpela PNG LNG Plent Sait niusleta i kirap long bungim ol asples stori, ol hevi i kamaut long ol komyuniti bung na ol nupela wok program bilong ol kontrak kampani long plent sait. Inap long 1,600 niusleta i go aut long ol sios, skul na komyuniti ogenaísesen insait long fopela LNG plent sait ples. Bikos i gat bikpela laik insait long komyuniti long dispela, namba bilong ol kopi ol i prininim i go antap long mak 2,500 bilong Epril 2011 isyu.

1,600 kopi bilong namba wan PNG LNG Plent Sait niusleta i go aut

Luksave na stretim ol wari bilong komyuniti i stap olsem bikpela wok bilong Projek na ol kontrak kampani tim. Insait long dispela kwata, wanpela rivyu bilong Komyuniti Grivens Prosidia o rot bilong autim komyuniti wari i bin kamap olsem hap bilong wok Projek i mekim long strongim program bilong em. Wanpela grivens kodineta posisen i kamap long mekim Projek grivens o wari wok rot i makim namba wan wok pasin, na gutpela taim bilong stretim ol wari na hevi. Long pinis bilong mun Mas, wanpela wokbung i daunim namba bilong ol wari na hevi i stap yet inap long 75 pesen.

Projek i go het long wokbung wantaim ol Gavman ejensi olsem Dipatmen bilong Woks, bai ol i ken stretim wokabout bilong kago na masin bilong wok konstraksen. Olsem, Hailans Haiwe em i bikpela samting i mas stap gut bilong karim ol pipel na kago i go kam namel long Hailans rijen na nambis, wantaim tu ol kago na pipel bilong Projek.

Long dispela kwata, Projek i givim wanpela bikpela enjiniaring stadi o wok glasim long Hailans Haiwe i go long Papua Niugini Gavman Dipatmen bilong Woks. Dispela ripot bai halivim Gavman long karimaut sotpela taim na longpela taim wok mentenens na apgred wok bilong inapim ol taim ol i makim long dispela wok.

Rot long go insait long graun em i wanpela bikpela samting long wok bilong Projek. Risetelmen na kompensesen wok bilong go insait long graun i go het insait long dispela kwata, wantaim moa luksave long Hevi Hol Rot, Kopeanda Lenfil Sait, Wellpad Ekses Rot, Komo Ples Balus, Hides Ges Kondisening Plent, Hides Kwari 1 and Hides Kwari 3 na sauten hap bilong paiplain. Projek i tok pait pinis, na karimaut planti long ol In-Prinsipal Kompensesen Agrimen wantaim 82 In-Prinsipal Kompensesen Agrimen ol mausman bilong ol hauslain o klen na Projek Menesmen yet i sainim pinis.



Ofisal presentasen bilong Hailens Haiwe, stretim na wokim haiwe rot kamap gut repot

Projek i laim daunim laik bilong risetelmen sapos em i nap, em laik olsem em i ken mekim wok risetelmen bihainim ol intanesenel namba wan wok pasin bilong International Finance Corporation sosel banis polisi, na ol loa bilong Papua Niugini.

Projek i go insait long wanpela nupela na bikpela hap salens bilong wok insait long 2011, we bikpela bilong wok konstraksen program na namba bilong ol wokmanmeri bai groa moa yet. Tasol maski long dispela, banisim ol wokman meri na komyuniti helt na sefti, na lukautim gut busgraun na wara, na kalsarel pasin tumbuna na wokbung gut wantaim ol komyuniti bai stap yet olsem ol bikpela astingting bilong olgeta wok bilong Projek.





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