JOB SAFETY AND ENVIRONMENTAL ANALYSIS

MMS#. **020-F001-[NZ]**

Project Name: **Kiribati Road Rehabilitation Project** **JSEA No:** **X00A** **-020-** **2536** Rev: **4** Page **1** of **7**

Activity/Location: **Traffic Management** **Approved By** **Mark Liersch**

PREPARED/REVIEWED	
NAME	**DATE**
Tim Grant	**28/03/13**
Michael Wynne	**15 July 2013**
James Fruh	**15 July 2013**

PREPARATION NOTES

- Input from persons doing the work.
- Be thorough when describing the basic job steps.
- Preferably use control measures that engineer out the risk e.g. handrails, guarding.
- Refer to the relevant CEPs, SWIs or EPIs in the control measures.
- Make sure all hazards related to the work site are identified and controlled - there may be hazards that are not addressed in the CEP, SWI or EPI.
- Supervisor to provide relevant information (methodology, technical details) from CEPs and Project Risk Register.

PPE

Standard PPE applicable to all activities as noted on this JSEA are as follows:

Safety Footwear	X	Safety Helmet	X	High Visibility Clothing	X
Long Trousers	☒	Long Sleeved Shirt	☒	_____	☐
Safety Glasses	☒	Gloves	☒		

Note: Other specific PPE is to be identified as part of this risk assessment and listed under "How to Control the Risk" on the following pages. (**X** indicates use is mandatory)

SAFE WORK INSTRUCTIONS (SWIs) & ENVIRONMENT PROTECTION INSTRUCTIONS (EPIs) RELEVANT TO THIS WORK			
K001-Operating Plant	☐	K044-Exposure to Noise	☐
K002-Using Powered Small Plant	☐	K051-Welding & Cutting Drums & Vessels	☐
K003-Using Laser Survey Equipment	☐	K052-Stacking & Storage of Materials	☐
K004-Using Hand Tools	☐	K053-Trenching & Excavations	☒
K113 Electrically Powered Hand Tools	☐	K126 Concrete Pumping	☐
K115 Compressed Air	☐	K129 Hazardous Chemicals – Storage & use	☐
K116 Oxyacetylene	☐	K072-Working with Asbestos	☐
K114 Explosive Powered Tools and Power Actuated Tools	☐	K130 Manual Handling	☐
K108 Ladders Use	☐	K132 Personal Protective Equipment	☐
K010-Erecting & Using Mobile Scaffolding	☐	K083-Communicable Disease	☐
K011-Erecting & Using Fixed Scaffolding	☐	K136 Fitness for Work	☐
K012-Lifting & Slinging	☐		
K117 Electric Arc Welding Equipment	☐	L001-Soil Erosion Sediment. & Surface Run-0ff	☐
K014-Using Electrical Equipment	☐	L002-Disturbance to Terrestrial Flora & Fauna	☐
K015-Operating Cranes	☐	L003-Disturbance to Aquatic Flora & Fauna	☐
K016-Operating Light Vehicles	☐	L004-Noise Emissions	☐
K018-Using a Workbox	☐	L005-Atmospheric Emissions	☐
K024-Demolition	☐	L006-Vibration	☐
K031-Work Near Plant	☒	L007-Storage, Maint. & Refuelling Machinery	☐
K032-Work Near Underground Services	☐	L008-Storage & Handling of Hazardous Subs.	☐
K033-Work Near Overhead Power Lines	☐	L009-Social Impact	☐
K124 Water Awareness	☐	L010-Land Restoration & Rehabilitation	☐
K035-Working Close to Traffic	☒	L011-Potential for Bush Fires	☐
K105 Height	☐	L012-Infectious Plant, Disease & Weeds	☐
K037-Sunburn & Skin Cancer	☐	L013-Solid and Liquid Waste	☐
K038-Thermal Stress-Heat	☒	L014-Disturbance to Cultural Heritage	☐
K039-Thermal Stress-Cold	☒	L015-Land Contamination	☐
K040-Remote & Isolated Work	☐	L016-Visual Amenity	☐
K041-Housekeeping-Access & Egress	☐	L017-Energy & Water Consumption	☐
K043-Cyclonic Conditions	☐	L018-Acid Sulphate Soils	☐

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Activity/Location: **Traffic Management**

Any significant hazards as defined in the Health & Safety in Employment Act 1992, Part 2 must be **E**liminated / **I**solated / **M**inimised and result recorded in the end column.

Basic Job Step	What Can Harm You or the Environment	What Can Happen (Risks)	How To Control the Risk (Reduce). PPE is default	E/I/M
Setting up traffic controls (signs, fences, cones)	Sharp edges	• Cuts, grazes etc	• Use gloves when dealing with wire	M
	Using small tools	• Bodily harm	• Use the right tool for the job • If you don't know how to use it ask for assistance on how to use each tool correctly	I
	Oncoming traffic	• Vehicle striking personnel	• Hazards lights on vehicles • Cones/water filled barriers placed around working areas • Signs placed in advance to warn drivers • Adequate lighting	M/I
Flagmen controlling traffic	Oncoming traffic	• Vehicle striking flagmen	• Flagmen signs in advance • Radios	M
	Impatient drivers	• Driver attacking flagmen	• Flagmen wearing high visibility clothing • Record details pass onto local authourities	M
	Poor communication between flagmen	• Uncontrolled traffic crashing	• Training for radio use • On-going mentoring	M
Maintaining traffic controls	Members of the public damaging/stealing traffic controls	• Confused traffic causing accidents • Public access into site causing accidents	• Equipment secured where possible • Security guards patrolling area at night • Road to be re instated each night • Water filled barriers	E

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Basic Job Step	What Can Harm You or the Environment	What Can Happen (Risks)	How To Control the Risk (Reduce). PPE is default	E/I/M
Demobilising site	On coming Traffic	• Vehicle striking workers	• Put vehicle between workers and traffic • Hazard lights on • Flashing beacon on • Flagman to warn traffic	M
General	Open excavations	• People/vehicles falling in	• Water filled barriers • Signage • Public notice • Lighting • Vigilance • Area around excavation to be coned,barriered 1metre perimeter	M/I
	Working near water	Persons in water Drowning	• Do not take unnecessary risks along edge of causeway • Stay inside defined work area	M
	Working near plant	• Bodily harm • Plant damage	• Flashing hazards lights on all plant • Reversing beepers • Work areas cordoned off and room allowed for swing • See SWI: K031-Work Near Plant	M
	Working near traffic	• Vehicle strike personnel	• Road Work signs in advance warning oncoming traffic • Personnel to wear high visibility clothing • Road cones around working area	M/I
	Housekeeping	• Slips trips and falls • Contamination	• Clean-up site and site facilities after each work day • Ensure any hazardous materials are stored securely • See SWI K041-Housekeeping-Access & Egress	M
	Manual Handling	• Back pain/ Strains	• Correct lifting technique used when lifting materials • See SWI K081-Manual Handling	M

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Basic Job Step	What Can Harm You or the Environment	What Can Happen (Risks)	How To Control the Risk (Reduce). PPE is default	E/I/M
	Hot weather	• Sunburn • Heat exhaustion • Illness	• Drinking water available at all times • Work in shade whenever possible & have Sun Screen Available • Avoid going from cold (wet) to hot • See SWI K038 – Thermal Stress Heat • See SWI K037 – Sunburn and Skin Cancer	M
	Falling vegetation	• Struck by falling coconuts	• Avoid standing directly under fruit laden trees	M
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JSEA No: X00A -020- 2536 Rev: 4 **Supervisor Name:** _____

INDUCTION / REVIEW

DATE	NAME	SIGNATURE

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