7. Risk Assessment:

ACTIVITY DESCRIPTION	N : Earthworks		ARA Pro	eparec	Ву:		Date: 24/08/2017			
	HAZARD		INITIAL F	RISK (4)		CONTROLS (5)		RESIDU	JAL RISK (5)
Job Steps (1)	Hazard Description and Effect (2)	Population at Risk (3)	Hazard Severity	Likelihood of	Risk Rating	List all Controls Required		Hazard	Likelihood of	Risk Rating
Conflict arising from Protestors	Slips, trips, falls, injury	Workers, Security personnel, protestors		***************************************						
Access & Egress to work areas.	Access area & soft peat causing slips, trips and falls	Workers in vicinity							I	
	Engulfment/ sinking of machinery being used or operatives at risk in soft area	Machine Operatives							1	
Working Near Plant	Personnel being run over by mobile plant causing serious injuries or fatalities	Workers in vicinity	I							
	Oil and grease causing dermatitis & environmental hazards	Operatives		The state of the s						
	Dust / Noise causing respiratory problems and noise induced hearing loss	Ground Workers			I				I	

ACTIVITY DESCRIPTION	V : Earthworks		ARA Pro	epare	d By:		Date: 24/08/2017			
	HAZARD		INITIAL F	RISK (4)		CONTROLS (5)		RESIDU	IAL RISK (I	5)
Job Steps (1)	Hazard Description and Effect (2)	Population at Risk (3)	Hazard Severity	ikelihood of	Risk Rating	List all Controls Required		Hazard	Likelihood of	Risk Rating
Use of Excavator	Ground worker being struck by slewing excavator causing crush injury or fatality or Ground workers being struck by material being lifted by excavator causing major injuries	Workers within the vicinity								The state of the s
	Flying particles from wheels or tracks during operation causing eye injuries, etc	Site Personnel								
	Collision of machinery or plant	Plant & Plant Operators		1				I		
Emergency Procedures	Engulfment, injuries, fire,	Site Personnel			1					
Excavations	Slip/Trip/Fall for people and Machinery Collapse of sides. Poor access/egress leading to fall.	Site Personnel						The second secon		
ACTIVITY DESCRIPTION	I : Earthworks		ARA Pre	parec	Ву:		Date: 24/08/2017			

	HAZARD		INITIALR	RISK (4)		CONTROLS (5)	RESIDU	JAL RISK (6))
Job Steps (1)	Hazard Description and Effect (2)	Population at Risk (3)	Hazard Severity	Likelihood of	Risk Rating	List all Controls Required	Hazard	Severno Likelihood of Occurrence	Risk Rating
Loading/unloading	Dropping of loads Crush Injury [may be severe, even fatal]. Property damage. Electrocution. Entrapment / Overturning. Uncontrolled interaction between load and pedestrians. Collisions with other large plant on site. Operators direct field of vision obscured by load leading to contact with other persons or plant. Contact with overhead services. Failure of lifting equipment. Inadequate supervision. Untrained Operatives Unbalanced Loads Use of mobile phones by operators. Tipping of stone	Plant operators Other workers in the vicinity							

ACTIVITY DESCRIPTION: Earthworks	ARA Prepared By:	Date: 24/08/2017
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	HAZARD		INI	TIAL RI	SK (4)			CONTROLS (5)	RESIDU.	AL RISK (6)
Job Steps (1)	Hazard Description and Effect (2)	Population at Risk (3)		Hazard Severity	Likelihood of	,	Risk Rating	List all Controls Required	Hazard Severity	Likelihood of Occurrence	Risk Rating
Excavator, & wheeled excavator lifting activities	Worker being struck by slewing excavator causing crush injury or fatality or Ground workers being struck by material being lifted by excavator causing major injuries. Operators or other plant operators Untrained operators Lifting hooks damaged and safety clips missing Exceeding Safe Working Load as indicated on Machine Speeding Use of mobile phones by operators. Unbalanced loads	Ground Workers & Plant Operators		To the state of th			THE CONTRACTOR OF THE CONTRACT				

ACTIVITY DESCRIPT	ION : Earthworks		ARA Pre	pared	Ву:		Date: 24/08/2017			
	HAZARD		INITIAL R	ISK (4)		CONTROLS (5)		RESIDU	AL RISK (6))
Job Steps (1)	Hazard Description and Effect (2)	Population at Risk (3)	Hazard Severity	ikelihood of	Risk Rating	List all Controls Required		Hazard	Likelihood of Occurrence	Risk Rating
Lifting equipment	Contact with buildings, construction materials Load moves while slinging Load falls due to improper slinging Sharp-rough edges of objects	operatives								

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ACTIVITY DESCRIPTI	ION : Earthworks		ARA Pre	parec	Ву:		Date: 24/08/2017			
	HAZARD		INITIAL R	ISK (4)		CONTROLS (5)		RESIDU	AL RISK (6)
Job Steps (1)	Hazard Description and Effect (2)	Population at Risk (3)	Hazard Severity	Likelihood af	Risk Rating	List all Controls Required		Hazard	Likelihood of Occurrence	Risk Rating
Manual Handling	Hand injuries, pinch points, hit by slewing loads, bone injuries (i.e. fractures, crush injuries in pinch points, arthritis), back strain, back pain, sciatic nerve pain, degenerative disk injuries, repetitive strain injury, musculo- skeletal injuries, soft tissue injuries (i.e. damaged tendons, stretched ligaments, damaged cartilage, muscle injuries).	Slinger/ Ground workers								
Hand Tools	Cuts lacerations Flying debris Tools used for the wrong purpose	Users of equipment								

ACTIVITY DESCRIPTION	V : Earthworks		ARA Pre	parec	Ву:		Date: 24/08/2017			
	HAZARD		INITIAL R	ISK (4)		CONTROLS (5)		RESIDU	AL RISK (6)
Job Steps (1)	Hazard Description and Effect (2)	Population at Risk (3)	Hazard Severity	ikelihood of	Risk Rating	List all Controls Required		Hazard Severity	Likelihood of Occurrence	Risk Rating
Abrasive wheels, and power tools	Burst wheel/disc Contact with wheel/disc Entanglement in moving parts Flying particles from fractured wheel/disc Flying particles during cutting or grinding operations Dust Noise Lacerations [may be severe, even fatal] Respiratory problems Dermatitis Noise-induced hearing loss Eye injuries	Plant operators Other workers in the vicinity								
Work in adverse weather	Falls/ Hit by flying objects	Site personnel								
Working adjacent to live traffic	Plant/vehicle collision with public vehicle Personnel run over by public vehicles	Site Personnel Members of public		1						

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ACTIVITY DESCRIPTION	N : Earthworks		ARA Pre	epared	Ву:		Date: 24/08/2017			
	HAZARD		INITIAL F	RISK (4)		CONTROLS (5)		RESIDU	AL RISK (6))
Job Steps (1)	Hazard Description and Effect (2)	Population at Risk	Hazard Severity	Likelihood of	Risk Rating	List all Controls Required		Hazard Severity	Likelihood of Occurrence	Risk Rating
Moving Plant- Dumper, Marooka, roller, site dumper.	Personnel run over by mobile plant causing serious injuries or fatalities, Jeeps and small plant being hit by Dump truck, collisions with other large plant on site, Operators direct field of vision obscured by skip and other blind spots., Flying particles from wheels tracks during operation, Dust, Fire hazard during refuelling. Overturning while tipping loads/ Moving with raised skips, Use of hand held mobile phones by operators, Access and Egress to and from cab, Dirty mirrors, lights and camera lenses covered in mud, Carrying passengers, Parking and dismounting Machine on a slope. Maintenance personnel receive crush injury and burns/scalds while carrying out maintenance work	Site Personnel/ Machine operators								

ACTIVITY DESCRIPTION : Earthworks			ARA Prepared By:				Date: 24/08/2017				
	HAZARD			isk (4)			CONTROLS (5)		RESIDUAL RISK (6)		
Job Steps (1)	Hazard Description and Effect (2)	Population at Risk	Hazard Severity	Likelihood of		Risk Rating	List all Controls Required		Hazard Severity	Likelihood of Occurrence	Risk Rating
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Wheeled Excavators on Public Roads	Road Traffic Incident and pedestrians being knocked over. Fatality, serious injury, fire and property damage.	Pedestrians, cylists, people in vehicles	1		The same plants with the same					192A-3	
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ACTIVITY DESCRIPTION : Earthworks			ARA Prepared By:			Date: 24/08/2017				
	HAZARD			ISK (4)		CONTROLS (5)		RESIDU	AL RISK (6))
Job Steps (1)	Hazard Description and Effect (2)	Population at Risk	Hazard Severity	Likelihood of		List all Controls Required		Hazard	Likelihood of Occurrence	Risk Rating
Rock breaking	Dust / Noise causing respiratory problems and noise induced hearing loss.	Ground Workers							A SECULIAR PROPERTY OF THE CONTRACT OF THE CON	