Construction Phase

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status			
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence		
Geology	Nature of impact:			No en	vironmental i	mpact on ge	ology is identified.				
	Nature of impact:				T1: Altera	ation of Topo	ography				
	Without Mitigation	1	4	4	4	36	Medium	-	High		
T1: Alteration of Topography	degree to which impact can be reversed:				Medium						
	degree of impact on irreplaceable resources:		Low								
	With Mitigation	1	3	2	3	18	Low		High		
	Nature of impact:										
	Without Mitigation	1	2	2	4	20	Low	-	High		
Impact C1: Carbon Footprint	degree to which impact can be reversed:				Low						
	degree of impact on				Low						

		Extent	Duration	Magnitude	Probability	Sig	gnificance	Status			
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence		
	irreplaceable resources:										
	With Mitigation	1	2	2	4	20	Low	-	High		
	Without Mitigation	2	2	2	4	24	Low	-	High		
Impact SL1: Contamination of	degree to which impact can be reversed:		Medium								
soils	degree of impact on irreplaceable resources:				Low						
	With Mitigation	1	2	2	4	20	Low	-	High		
	Without Mitigation	1	2	2	3	15	Low	-	High		
Impact SL2: Change	degree to which impact can be reversed:				Medium						
in Land Capability	degree of impact on irreplaceable resources:				Low						
	With Mitigation	1	2	2	3	15	Low	-	High		

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status	
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence
	Without Mitigation	1	5	4	4	40	Medium	-	High
Impact FL1: Loss of Diversity of	degree to which impact can be reversed:				Medium				
Indigenous Floral Communities	degree of impact on irreplaceable resources:				Low				
	With Mitigation	1	5	2	3	24	Low	-	High
	Without Mitigation	2	5	8	4	60	Medium	-	High
Impact FA1: Loss of Habitat for Faunal Communities	degree to which impact can be reversed:				Medium				
Including Species of Conservation Concern	degree of impact on irreplaceable resources:				Low				
	With Mitigation	1	5	6	3	36	Medium	-	High
Impact AQ 1: Impact	Without Mitigation	2	2	4	4	32	Medium	-	High
of PM10 Concentrations on Receptors	degree to which impact can be reversed:				High				

Determinal locate		Extent	, ,								
Potential Impact		(E)	(D)	(M)	(P)	(S=(I	E+D+M)*P)	(+ve or - ve)	Confidence		
	degree of										
	impact on irreplaceable				Low						
	resources:										
	With	2	2	2	3	18	Low	_	High		
	Mitigation		_			10	2011		1.1811		
	Without Mitigation	2	2	4	4	32	Medium	-	High		
	degree to										
	which impact				110-4						
Impact AQ 2: Impact	can be		High								
of PM2.5	reversed:										
Concentrations on	degree of										
Receptors	impact on irreplaceable				Low						
	resources:										
	With	2	2	2	3	18	Low	_	High		
	Mitigation				3	10	LOW		111611		
	Without Mitigation	2	2	6	4	40	Medium	-	High		
	degree to										
	which impact can be				Low						
Impact H1: Surface	reversed:										
Water	degree of										
Contamination	impact on				Medium						
	irreplaceable		iviedium								
	resources:										
	Mitigation	1	2	4	3	21	Low	-	High		

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status		
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence	
	Without Mitigation	2	3	6	4	44	Medium	-	High	
Impact GW1: Groundwater	degree to which impact can be reversed:				Low					
Contamination	degree of impact on irreplaceable resources:		Medium							
	With Mitigation	1	1	4	4	24	Low	-	High	
	Without Mitigation	1	2	4	3	21	Low	-	High	
Impact EN1: Noise as a Result of	degree to which impact can be reversed:				High					
Construction Activities	degree of impact on irreplaceable resources:				Low					
	With Mitigation	1	2	2	3	15	Low	-	High	
Impact ACH 1:	Without Mitigation	1	5	4	2	20	Low	-	High	
Impact on Archaeological and Cultural Heritage	degree to which impact can be reversed:				Low					

		Extent	Duration	Magnitude	Probability	Sig	gnificance	Status			
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence		
	degree of impact on irreplaceable resources:				High						
	With Mitigation	1	1	2	2	8	Low	-	High		
	Without Mitigation	3	2	4	3	27	Low	+	High		
Impact SES 1:	degree to which impact can be reversed:		Not Applicable								
Employment Opportunities	degree of impact on irreplaceable resources:		Not Applicable								
	With Mitigation	3	2	4	4	36	Medium	+	High		
	Without Mitigation	3	2	4	3	27	Low	+	High		
Impact SES 2: Local Economic	degree to which impact can be reversed:		Not Applicable								
Development Opportunities	degree of impact on irreplaceable resources:		Not Applicable								
	With Mitigation	3	2	4	4	36	Medium	+	High		

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status				
Potential Impact		(E)	(D)	(M)	(P)	(S=(I	E+D+M)*P)	(+ve or - ve)	Confidence			
	Without Mitigation	2	2	4	3	24	Low	-	High			
Impact SES 3:	degree to which impact can be reversed:				Medium							
Nuisances	degree of impact on irreplaceable resources:		Low									
	With Mitigation	2	2	2	2	12	Low	-	High			
	Without Mitigation	1	2	2	4	20	Low	-	High			
Impact V1: Visual	degree to which impact can be reversed:		High									
Impact	degree of impact on irreplaceable resources:				Low							
	With Mitigation	1	2	2	4	20	Low	-	High			
Impact HM 1:	Without Mitigation	2	2	6	4	40	Medium	-	High			
Hazardous Materials Management	degree to which impact				Low							

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status	
Potential Impact		(E)	(D)	(M)	(P)	(S=(I	E+D+M)*P)	(+ve or - ve)	Confidence
	can be reversed:								
	degree of impact on irreplaceable resources:				Low				
	With Mitigation	1	2	2	3	15	Low	-	High

Operational Phase

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status		
Potential Impact		(E)	(D)	(M)	(P)	(S=(I	E+D+M)*P)	(+ve or - ve)	Confidence	
Geology	Nature of impact:			No environm	ental impact of	on geology is	identified or antic	ipated		
Topography	Nature of impact:		No environmental impact on topography is identified or anticipated.							
	Nature of impact:									
Impact C2: Carbon	Without Mitigation	4	5	2	5	55	Medium	-	High	
Footprint	degree to which impact can be reversed:				Low					

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status			
Potential Impact		(E)	(D)	(M)	(P)	(S=(I	E+D+M)*P)	(+ve or - ve)	Confidence		
	degree of impact on irreplaceable resources:				Low						
	With Mitigation	4	5	2	5	55	Medium	-	High		
	Without Mitigation	4	5	2	5	55	Medium	-	High		
Impact C3: Local	degree to which impact can be reversed:		Low								
Climate Change	degree of impact on irreplaceable resources:				Low						
	With Mitigation	4	5	2	5	55	Medium	-	High		
	Without Mitigation	2	3	4	4	36	Medium	-	High		
Impact SL3: Contamination of soils	degree to which impact can be reversed:		High								
30113	degree of impact on irreplaceable resources:		Medium								

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status	
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence
	With Mitigation	1	1	2	3	12	Low	-	High
	Without Mitigation	1	3	4	3	24	Low	-	High
Impact FL2: Loss of Diversity of	degree to which impact can be reversed:				Medium				
Indigenous Floral Communities	degree of impact on irreplaceable resources:				Low				
	With Mitigation	1	1	2	3	12	Low	-	High
	Nature of impact:								
	Without Mitigation	1	3	4	3	24	Low	-	High
Impact FA2: Loss of Fauna	degree to which impact can be reversed:				Medium				
	degree of impact on irreplaceable resources:				Low				
	Mitigation Measures								

		Extent							
Potential Impact		(E)	(D)	(M)	(P)	(S=(I	E+D+M)*P)	(+ve or - ve)	Confidence
	With Mitigation	1	3	4	2	16	Low	-	High
	Without Mitigation	2	5	2	3	27	Low	-	High
Impact AQ 3: Impact of PM10	degree to which impact can be reversed:				High				
Concentrations on Receptors	degree of impact on irreplaceable resources:				Low				
	With Mitigation	2	5	2	2	18	Low	-	High
	Without Mitigation	2	5	2	2	18	Low	-	High
Impact AQ 4: Impact of PM2.5	degree to which impact can be reversed:				High				
Concentrations on Receptors	degree of impact on irreplaceable resources:				Low				
	With Mitigation	1	5	2	1	8	Low	-	High
Impact AQ 5: Impact of SO2	Without Mitigation	2	5	4	3	33	Medium	-	High

Potential Impact		Extent	Duration	Magnitude	Probability	Sig	gnificance	Status (+ve or -	Confidence			
Potential impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	ve)	Connuence			
Concentrations on Receptors	degree to which impact can be reversed:		Low									
	degree of impact on irreplaceable resources:				Medium	Medium						
	With Mitigation	1	5	2	2	16	Low	-	High			
	Without Mitigation	1	5	2	1	8	Low	-	High			
Impact AQ 6: Impact of NOx	degree to which impact can be reversed:		Medium									
Concentrations on Receptors	degree of impact on irreplaceable resources:				Medium							
	With Mitigation	1	5	0	1	6	Low	-	High			
Impact H2: Surface	Without Mitigation	1	3	4	4	32	Medium	-	High			
Water Contamination	degree to which impact can be reversed:	Medium										

		Extent	Duration	Magnitude	Probability	Si	gnificance	Status			
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence		
	degree of impact on irreplaceable resources:				Medium						
	With Mitigation	1	2	2	3	15	Low	-	High		
	Without Mitigation	3	3	6	4	48	Medium	-	High		
Impact GW2: Groundwater	degree to which impact can be reversed:		Medium								
Contamination	degree of impact on irreplaceable resources:				Medium						
	With Mitigation	1	2	4	4	28	Low	-	High		
	Without Mitigation	2	4	4	3	30	Low	-	High		
Impact EN2: Acoustic Impact on Neighbouring Workers	degree to which impact can be reversed:		High								
Accommodation	degree of impact on irreplaceable resources:	Low									

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status	
Potential Impact		(E)	(D)	(M)	(P)	(S=(I	E+D+M)*P)	(+ve or - ve)	Confidence
	With Mitigation	2	4	4	3	30	Low	-	High
	Without Mitigation	2	4	4	2	20	Low	-	High
Impact EN3: Acoustic Impact on	degree to which impact can be reversed:				High				
Residential Receptors	degree of impact on irreplaceable resources:		Low						
	With Mitigation	2	4	4	2	20	Low	-	High
	Without Mitigation	2	4	4	4	40	Medium	+	High
Impact SES 4: Retention of	degree to which impact can be reversed:				Not Applica	ble			
Existing Employees	degree of impact on irreplaceable resources:				Not Applica	ble			
	With Mitigation	2	4	6	4	48	Medium	+	High
	Without Mitigation	2	4	2	3	24	Low	+	High

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status			
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence		
Impact SES Ev	degree to which impact can be reversed:		Not Applicable								
Impact SES 5: Improvement in Ambient Air Quality	degree of impact on irreplaceable resources:		Not Applicable								
	With Mitigation	2	4	2	3	24	Low	+	High		
	Without Mitigation	2	3	2	4	28	Low	-	High		
Impact V2: Visual	degree to which impact can be reversed:				High						
Impact	degree of impact on irreplaceable resources:				Low						
	With Mitigation	2	2	2	3	18	Low	-	High		
Impact HM 2: Loss of Primary	Without Mitigation	2	1	4	2	14	Low	-	High		
Containment of SO3 Gas in the WSA Plant	degree to which impact can be reversed:										

Data atial las as at		Extent	Duration	Magnitude	Probability	Sig	gnificance	Status	C		
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence		
	degree of impact on irreplaceable resources:				Low						
	With Mitigation	1	1	2	2	8	Low	-	High		
	Without Mitigation	1	1	4	2	12	Low	-	High		
Impact HM 3: Loss of Primary Containment of SO2	degree to which impact can be reversed:				Low						
Gas in the WSA Plant	degree of impact on irreplaceable resources:		Low								
	With Mitigation	1	1	2	2	8	Low	-	High		
	Without Mitigation	1	1	2	2	8	Low	-	High		
Impact HM 4: Loss of Secondary Containment of	degree to which impact can be reversed:				Low						
Sulphuric Acid	degree of impact on irreplaceable resources:				Low						

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status	
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence
	With Mitigation	1	1	2	1	4	Low	1	High
	Without Mitigation	1	1	2	2	8	Low	-	High
Impact HM 5: Loss of Secondary Containment of	degree to which impact can be reversed:				Low				
Hydrated Lime / Effluent	degree of impact on irreplaceable resources:				Low				
	With Mitigation	1	1	2	1	4	Low	-	High

Closure Phase

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status	
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence
Geology	Nature of impact:			No en	vironmental i	mpact on ge	ology is identified.		
Impact T2:	Without Mitigation	1	5	4	4	40	Medium	+	High
Restoration of Topography	degree to which impact can be reversed:				N/A				

-		Extent	Duration	Magnitude	Probability	Sig	nificance	Status	
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence
	degree of impact on irreplaceable resources:				N/A				
	With Mitigation								
	Nature of impact:								
	Without Mitigation	2	5	4	3	33	Medium	-	High
Impact SL4: Contamination of soils	degree to which impact can be reversed:								
30113	degree of impact on irreplaceable resources:				Low				
	With Mitigation	1	2	2	2	10	Low	-	High
	Without Mitigation	3	3	4	4	40	Medium	-	High
Impact SL5: Quantity and Quality of Topsoil	degree to which impact can be reversed:				Medium				
	degree of impact on				Medium				

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status	
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence
	irreplaceable resources:								
	With Mitigation	2	2	4	3	24	Low	-	High
	Without Mitigation	1	4	4	4	36	Medium	-	High
Impact SL6: Ongoing Rehabilitation not	degree to which impact can be reversed:				High				
to Standard	degree of impact on irreplaceable resources:				Low				
	With Mitigation	1	1	2	3	12	Low	-	High
	Without Mitigation	3	5	6	4	56	Medium	-	High
Impact SL7: Contradiction of	degree to which impact can be reversed:				Medium				
SDF's	degree of impact on irreplaceable resources:				Low				
	With Mitigation	1	1	2	3	12	Low	-	High

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status				
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or - ve)	Confidence			
	Without Mitigation	1	4	4	4	36	Medium	-	High			
Impact SL8: Site-	degree to which impact can be reversed:		Medium									
wide Rehabilitation	degree of impact on irreplaceable resources:		Low									
	With Mitigation	1	1 1 2 3 12 Low -						High			
	Without Mitigation	2	5	6	4	52	Medium	-	High			
Impact FL3: Invasive	degree to which impact can be reversed:				High							
Species	degree of impact on irreplaceable resources:	Low										
	With Mitigation	1	1	2	4	16	Low	-	High			
Impact FL4: Land Degradation	Without Mitigation	1	5	4	3	30	Low	-	High			

Potential Impact		Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	(S=(F+D+M)*P) (+v			Confidence			
	degree to	(L)	(6)	(IVI)	(F)	(3-(1	LTDTIVIJ FJ	ve)				
	which impact											
	can be				Medium							
	reversed:											
	degree of											
	impact on		Medium									
	irreplaceable resources:											
	With	_	1 1 2 2 B Law									
	Mitigation	1	1	2	2	8	Low	-	High			
	Without	2	2	4	4	32	Medium	-	High			
	Mitigation											
	degree to which impact											
Impact AQ 7: Impact	can be											
of PM10	reversed:											
Concentrations on	degree of											
Receptors	impact on				Low							
	irreplaceable resources:											
	With	2	2	2	3	18	Low	_	High			
	Mitigation	_	-	_	3		2011		6			
Impact AQ 8: Impact	Without Mitigation	2	2	4	4	32	Medium	-	High			
of PM2.5	degree to											
Concentrations on	which impact											
Receptors	can be				High							
	reversed:											

Potential Impact		Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		gnificance E+D+M)*P)	Status (+ve or - ve)	Confidence	
	degree of impact on irreplaceable resources:				Low			,		
	With Mitigation	2	2	2	3	18	Low	-	High	
	Without Mitigation	3	4	6	4	52	Medium	-	High	
Impact H3: Surface Water	degree to which impact can be reversed:		Low							
Contamination	degree of impact on irreplaceable resources:				Medium					
	With Mitigation	1	1	4	2	12	Low	-	High	
	Without Mitigation	3	4	6	4	52	Medium	-	High	
Impact GW3: Groundwater Contamination	degree to which impact can be reversed:		Low							
Contamination	degree of impact on irreplaceable resources:				Medium					

		Extent	Duration	Magnitude	Probability	Significance		Status			
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)		(+ve or - ve)	Confidence		
	With Mitigation	1	1	4	2	12	Low	-	High		
	Without Mitigation	1	2	4	3	21	Low	-	High		
Impact EN4: Noise as a Result of	degree to which impact can be reversed:		High								
Closure Activities	degree of impact on irreplaceable resources:		Low								
	With Mitigation	1	2	2	3	15	Low	-	High		
	Without Mitigation	1	5	4	3	30	Low	-	High		
Impact ACH 2: Impact on	degree to which impact can be reversed:										
Archaeological and Cultural Heritage	degree of impact on irreplaceable resources:				Low						
	With Mitigation	1	1	0	2	4	Low	-	High		
	Without Mitigation	3	4	4	3	33	Medium	-	High		

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status				
Potential Impact		(E)	(D)	(M)	(M) (P) (S=(E+D+M)*P)		(+ve or - ve)	Confidence				
Impact SES 6: Loss	degree to which impact can be reversed:		Low									
of Employment Opportunities	degree of impact on irreplaceable resources:		Not Applicable									
	With Mitigation	3	4	4	3	33	Medium	-	High			
	Without Mitigation	2	5	6	4	52	Medium	-	High			
Impact V3: Visual	degree to which impact can be reversed:											
Impact	degree of impact on irreplaceable resources:											
	With Mitigation	2	2	2	3	18	Low	-	High			
Impact HM 6:	Without Mitigation	1	5	4	3	30	Low	+	High			
Cessation of Hazardous Activities	degree to which impact can be reversed:											

		Extent	Duration	Magnitude	Probability	Sig	nificance	Status	
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)		(+ve or - ve)	Confidence
	degree of impact on irreplaceable resources:				Low				
	With Mitigation	2	5	4	3	33	Medium	+	High

Cumulative

		Extent	Duration	Magnitude	Probability	Significance (S=(E+D+M)*P)		Status	Confidence
Potential Impact		(E)	(D)	(M)	(P)			(+ve or - ve)	
	Nature of impact:								
	Without Mitigation	4	5	2	5	55	Medium	-	High
Impact C4: Project Emissions for the National Inventory	degree to which impact can be reversed:								
and Climate Change	degree of impact on irreplaceable resources:				Low				
	With Mitigation	4	5	2	5	55	Medium	-	High
	Without Mitigation	2	2	4	4	32	Medium	-	High

Potential Impact		Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	Significance (S=(E+D+M)*P)		Status (+ve or - ve)	Confidence		
June 1 100	degree to which impact can be reversed:		High								
Impact AQ9: Cumulative PM10 Concentrations	degree of impact on irreplaceable resources:		Low								
	With Mitigation	2	2	2	3	18	Low	-	High		
	Without Mitigation	2	2	4	4	32	Medium	-	High		
Impact AQ10: Cumulative PM2.5	degree to which impact can be reversed:										
Concentrations	degree of impact on irreplaceable resources:										
	With Mitigation	2	2	2	3	18	Low	-	High		
Impact AQ11:	Without Mitigation	2	5	4	3	33	Medium	-	High		
Cumulative SO2 Concentrations	degree to which impact can be reversed:										

Detential Immed		Extent	Duration	Magnitude	Probability	Significance (S=(E+D+M)*P)		Status	Confidence		
Potential Impact		(E)	(D)	(M)	(P)			(+ve or - ve)	Confidence		
	degree of impact on irreplaceable resources:		Medium								
	With Mitigation	1	5	2	2	16	Low	-	High		
	Without Mitigation	2	2	6	4	40	Medium	-	High		
Impact EN5:	degree to which impact can be reversed:										
Cumulative Noise	degree of impact on irreplaceable resources:										
	With Mitigation	1	2	4	4	28	Low	-	High		
	Without Mitigation	2	4	4	4	40	Medium	+	High		
Impact HM 7: Implementation of Proposed Project	degree to which impact can be reversed:										
110003641103666	degree of impact on irreplaceable resources:		Low								

			Duration	Magnitude	Probability	Significance		Status	
Potential Impact		(E)	(D)	(M)	(P)	(S=(E+D+M)*P)		(+ve or - ve)	Confidence
	With Mitigation	3	4	6	4	52	Medium	+	High