ARTECH Building Happiness

ENVIRONMENTAL RISK ASSESSMENT FORM

ARTK/EMS/RA ISSUE NO.: 2.0

REVISION NO.: 00

ISSUE DATE: 01.01.2016 NO: 01

SITE PREPARATION

		ACTIVITY		RELEVANT		CONCERN OF INTERESTED	R	ISK ASSESSN	IENT	
ASPECT	IMPACT	NORMAL - N ABNORMAL - A EMERGENCY - E	- A OBLIGATION ISSUES		ISSUES	PARTIES Y/N	LIKELIHOOD	SEVERITY	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
Generation of dust	Air Pollution	N	Υ	Υ	Y	Υ	2	2	4	OCP - 05
Generation of waste	Land Contamination/Water contamination/ Degradation of air quality	N	Υ	Υ	Υ	Y	2	3	6	
Generation of noise	Noise pollution	N	Υ	Υ	Υ	Υ	4	3	12	OCP -06
Resource use-Raw materials	Depletion of natural resources	N	N	Υ	Y	N	2	2	4	
Generation of heat	Damage to vegetation/ Global Warming	N	N	Υ	Υ	Y	2	2	4	
Change in shape & size of the land	Disturbance to sites of natural/heritage significance	Z	Ν	Y	Υ	N	2	3	6	OCP1
Deforestation	Global warming/Soil Erosion	N	N	Υ	Υ	N	2	3	6	
Usage of fossil fuel	Global warming/Depletion of natural resources	N	Υ	Υ	Y	Y	2	2	4	
Spillage of grease/lubricants	Land Contamination/Water contamination	N	Υ	Υ	Υ	Y	2	2	4	
Consumption of energy	Depletion of natural resources	N	N	Υ	Y	N	2	4	8	

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ARTK/EMS/RA

EXCAVATION

ISSUE DATE: 01.01.2016 NO.: 02

	IMPACT	ACTIVITY	COMPLIANCE OBLIGATION	RELEVANT	RELEVANT	CONCERN OF	RISK ASS	ESSMENT		MITIGATION PLAN
ASPECT		NORMAL – N ABNORMAL – A EMERGENCY – E		INTERNAL ISSUES Y/N	EXTERNAL ISSUES Y/N	INTERESTED PARTIES Y/N	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
Generation of dust	Air Pollution	N	N	Υ	Υ	У	2	4	8	OCP - 05
Generation of heat & vibration	Sound pollution / Damage to Eco System	N	Υ	Υ	Υ	у	2	2	4	
Interrupt/modity drainage	Land Contamination / Depletion of under water resources	N	N	N	Υ	N	2	2	4	
Generation of waste	Land Contamination/Water contamination/ Degradation of air quality	N	N	Υ	Υ	у	3	4	12	EMP1
Consumption of raw materials	Depletion of natural resources	N	N	Υ	Υ	у	2	3	6	
Change in shape & size of the land	Disturbance to sites of natural/heritage significance	N	N	N	Υ	У	2	3	6	
Consumption of energy	Depletion of natural resources	N	N	Υ	Υ	у	2	3	6	
Generation of noise	Noise Pollution	N	N	Υ	Υ	у	2	2	4	
Consumption of fossil fuel	Depletion of natural resources	N	N	Υ	Υ	N	2	3	6	OCP - 04
Soil erosion	Damage to eco system	N	N	Υ	Υ	У	2	2	4	

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REVISION NO.: 00 ISSUE DATE: 01.01.2016

NO.: 03

PILING

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		ACTIVITY		RELEVANT		CONCERN OF				
ASPECT	IMPACT	NORMAL – N ABNORMAL – A EMERGENCY – E	COMPLIANCE OBLIGATION	INTERNAL ISSUES Y/N	EXTERNAL ISSUES Y/N	INTERESTED PARTIES Y/N	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
Generation of heat & vibration	Noise disturbance/Threat to nearby buildings & structures	N	Υ	Υ	Υ	Υ	2	2	4	
Consumption of energy	Depletion of natural resources	N	N	Υ	Υ	Υ	2	3	6	OCP - 02
Consumption of fuel	Depletion of natural resources	N	N	Y	Y	Y	2	3	6	OCP - 04
Generation of waste	Land Contamination/Water contamination/ Degradation of air quality	N	N	Υ	Υ	Y	2	4	8	EMP01
Generation of dust	Air Pollution	N	N	Υ	Y	Υ	2	3	6	
Change in shape & size of the land	Disturbance to sites of natural/heritage significance	N	N	Y	Υ	Y	2	2	4	
Generation of noise	Noise Pollution	N	N	Υ	Y	Y	2	3	6	OCP - 06
Soil Compaction	Degradation of soil quality	N	N	Υ	Y	Y	2	2	4	
Consumption of raw materials	Depletion of Natural Resources	N	N	Y	Υ	Y	2	4	8	

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FORM WORK

ISSUE DATE: 01.01.2016 NO.: 04

										110 04
		ACTIVITY		RELEVANT	RELEVANT EXT.		ISK ASSES			
ASPECT	IMPACT	NORMAL – N ABNORMAL – A EMERGENCY – E	COMPLIANCE OBLIGATION	INTERNAL ISSUES	ISSUES	PARTIES CONCERN	LIKELIHOOD	SEVEIRITY	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
Generation of waste	Fire risk/ Land Contamination	N	N	Υ	Y	Υ	3	3	9	EMP - 01
Generation of noise	Noise pollution	N	Υ	Υ	Υ	Υ	2	2	4	
Generation of Dust	Degradation of air quality	N	Υ	Υ	Υ	Υ	2	3	6	OCP - 05
Consumption of raw materials	Depletion of natural resources	N	N	Υ	Υ	Υ	2	2	4	
Usage of energy	Depletion of natural resources	N	N	Υ	Υ	Υ	2	3	6	OCP - 02
	Disturbance to sites of natural/heritage significance	N	N	Υ	Υ	Υ	2	2	4	

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FUEL & OIL STORAGE

NO.: 05

		ACTIVITY	COMPLIANCE	RELEVANT		CONCERN OF	R	ISK ASSES	SMENT	MITICATION DI AN
ASPECT	IMPACT	NORMAL – N ABNORMAL – A EMERGENCY – E	OBLIGATION	INTERNAL Y/N	EXTERNAL Y/N	PARTIES Y/N	LIKELIHOOD	SEVEIRITY	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
Spillage & leakage	Land Pollution	N	N	Υ	Υ	Y	2	3	6	OCP - 07
Releases to Water-Seepage to ground water	Water contamination	N	Υ	Υ	Υ	Y	2	3	6	
Incidents-Fire potential	Heat Generation / Air Pollution	А	Υ	Υ	Υ	Υ	2	3	6	EPRP
Hazardous waste generation	Damage to vegetation / Land Pollution	N	N	Y	Y	Υ	2	2	4	

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USAGE OF GENERATOR

NO.: 06

		ACTIVITY	COMPLIANCE	RELEVANT	RELEVANT	CONCERN OF	R	ISK ASSES	SMENT	MITIGATION BLAN
ASPECT	IMPACT	NORMAL – N ABNORMAL – A EMERGENCY – E	OBLIGATION	INTERNAL Y/N	EXTERNAL Y/N	PARTIES Y/N	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
Fuel Use	Depletion of natural resources	А	Y	Y	Y	Y	2	3	6	OCP - 04
Generation of heat	Generation of green house gases & contributes to carbon footprint	А	N	Υ	Υ	N	2	2	4	
Generation of noise	Noise Pollution	А	Υ	Υ	Υ	Y	3	3	9	ОСР06
Smoke Emission	Air Pollution	А	N	Υ	Υ	Y	2	2	4	
Spillage & leakage of fuel/oil	Fire risk / Land Contamination	А	N	Υ	Y	Y	2	2	4	

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USAGE OF HOIST & MACHINERY

NO.: 07

		ACTIVITY	COMPLIANCE	INTERNAL EX			R	ISK ASSES	SMENT	MITICATION DI AN
ASPECT	IMPACT	NODMAL N	OBLIGATION		EXTERNAL ISSUES Y/N	PARTIES Y/N	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
Generation of Noise	Noise Pollution	N	Υ	Υ	Υ	Υ	3	2	6	OCP - 06
Consumption of fossil fuel	Reduction of natural resources	N	N	Υ	Y	N	2	3	6	OCP - 07
Smoke Emission	Air pollution	N	Υ	Υ	Y	Y	2	2	4	
Usage of energy	Depletion of Natural Resources	N	N	Y	Υ	Υ	2	3	6	OCP - 02
Generation of heat	Generation of green house gases & contributes to carbon footprint/Global warming	N	N	Υ	Υ	Y	2	2	4	
Spillage & leakage of fuel/oil	Fire risk / Land Contamination	N	N	Υ	Υ	N	2	2	4	
Generation of hazardous waste	Damage to vegetation / Land and Water Contamination	N	N	Y	Υ	Y	3	3	9	EMP01

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ARTK/EMS/RA

SCAFFOLDING WORK

NO.: 08

		,		RELEVANT RELEVANT INTERNAL EXTERNAL		CONCERN OF INTERESTED	R	ISK ASSES	SMENT	
ASPECT	IMPACT	NORMAL - N ABNORMAL - A EMERGENCY - E	OBLIGATION	ISSUES Y/N Y/N	ISSUES Y/N Y/N	PARTIES Y/N	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
Consumption of raw materials	Depletion of natural resources	N	N	Υ	Υ	N	2	2	4	
Generation of noise	Noise pollution	N	Υ	Υ	Υ	Υ	3	2	6	OCP - 06
Generation of waste	Damage to vegetation/Land & Water contamination	N	N	Υ	Υ	Y	3	3	9	EMP01

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ARTK/EMS/RA

STEEL FOR CONCRETE REINFORCEMENT

NO.: 09

		ACTIVITY		RELEVANT	RELEVANT	CONCERN OF				MITIGATION DI AN
ASPECT	IMPACT	NORMAL - N ABNORMAL - A EMERGENCY - E	COMPLIANCE OBLIGATION	INTERNAL ISSUES Y/N	EXTERNAL ISSUES Y/N	INTERESTED PARTIES Y/N	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
Usage of energy	Depletion of Natural Resources	N	N	Y	Y	N	2	3	6	OCP - 02
Usage of Materials	Depletion of Natural Resources	N	N	Υ	Y	N	2	2	4	
Generation of Waste	Damage to vegetation/Land & Water contamination	N	N	Y	Υ	Y	3	3	9	EMP01

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NO.: 10

CONCRETING

	<u> </u>									NO 10
		ACTIVITY	001451141105	RELEVANT	RELEVANT EXTERNAL	CONCERN OF	R	ISK ASSES	SMENT	MITIGATION PLAN
ASPECT	IMPACT	NORMAL – N ABNORMAL – A	COMPLIANCE OBLIGATION	INTERNAL ISSUES	ISSUES	INTERESTED PARTIES	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
		EMERGENCY - E		Y/N	Y/N	Y/N				
Dust Generation	Degradation of air quality	N	Y	Y	Y	Y	2	3	6	OCP - 05
Noise Generation	Noise Pollution	N	Υ	Υ	Υ	Υ	2	3	6	OCP - 06
Waste Generation	Damage to vegetation/Land & Water contamination	N	N	Υ	Υ	Y	3	4	12	EMP01
Consumption of fuel	Depletion of Natural Resources	N	N	Υ	Υ	Y	2	3	6	
Usage of energy	Depletion of Natural Resources	N	N	Υ	Υ	Υ	2	4	8	OCP02
Usage of raw materials	Depletion of Natural Resources	N	N	Υ	Υ	N	2	2	4	
Usage of cement	Air Pollution	N	N	Υ	Υ	N	2	2	4	
Noise during deshuttering work	Noise Pollution	N	Υ	Υ	Y	Υ	2	2	4	
Usage of water	Depletion of ground water table	N	Υ	Υ	Y	Υ	3	3	9	EMP - 08

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ENVIRONMENTAL SIGNIFICANT ASPECT ASSESSMENT FORM

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NO.: 11

MASONARY WORK

		ACTIVITY		RELEVANT	RELEVANT EXTERNAL	CONCERN OF			SMENT	
ASPECT	IMPACT	NORMAL – N ABNORMAL – A	COMPLIANCE OBLIGATION	INTERNAL ISSUES	ISSUES	INTERESTED PARTIES	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
		EMERGENCY - E		Y/N	Y/N	Y/N				
Resource use - Raw materials	Depletion/use of finite natural resources	N	N	Υ	Y	Y	2	3	6	
Waste Generation	Damage to vegetation/Land & Water contamination	N	Υ	Υ	Υ	Υ	4	4	16	EMP01
Dust Generation	Degradation of air quality	N	Υ	Υ	Υ	Υ	2	2	4	
Usage of water	Depletion of ground water table	N	Υ	Υ	Υ	Υ	2	3	6	

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DOOR FRAME FIXING

NO.: 12

		ACTIVITY		RELEVANT	FXTFRNAI	CONCERNIO	R	ISK ASSES	SMENT	
ASPECT	IMPACT	NORMAL – N ABNORMAL – A	COMPLIANCE OBLIGATION	INTERNAL ISSUES	ISSUES	INTERESTED PARTIES	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
	EMERGENCY - E		Y/N	Y/N	Y/N					
Energy use	Depletion of Natural Resources	N	Υ	Υ	Υ	Y	2	3	6	OCP - 02
Consumption of materials	Depletion of natural resources	N	N	Υ	Υ	N	2	2	4	

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NO.: 13

PLASTERING

		ACTIVITY		RELEVANT	RELEVANT	CONCERN OF	R	ISK ASSES	SMENT	
ASPECT	IMPACT	NORMAL – N ABNORMAL – A	COMPLIANCE OBLIGATION	INTERNAL ISSUES	EXTERNAL ISSUES	INTERESTED PARTIES	Likelihood		TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
		EMERGENCY - E		Y/N	Y/N	Y/N				
Consumption of materials	Reduction of natural resources	N	N	Y	Y	Y	2	2	4	
Usage of cement	Air Pollution	N	N	Υ	Υ	Υ	2	2	4	
Generation of waste	Damage to vegetation/Land & Water contamination	N	N	Υ	Υ	Υ	3	2	6	EMP01
Soil & water contamination	Land & water pollution	N	N	Υ	Υ	Υ	2	2	4	
Dust Generation	Degradation of air quality	N	N	Υ	Υ	Υ	2	2	4	
Usage of water	Depletion of ground water table	N	Υ	Υ	Υ	Υ	2	3	6	OCP08

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		ACTIVITY	INTERNAL EYT	EYTEDNAI		R	ISK ASSES	SMENT		
ASPECT	IMPACT	NORMAL – N ABNORMAL – A	COMPLIANCE OBLIGATION	INTERNAL ISSUES	ISSUES	INTERESTED PARTIES	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
		EMERGENCY – E		Y/N	Y/N	Y/N				
	Land and water contamination /									
Hazardous waste generation	Damage to Vegetation / Global	N	Υ	Υ	Υ	Υ	2	2	4	
	Warming									
Air Emissions	Air Pollution	N	N	Υ	Y	Y	2	2	4	
Resource use-Manufactured	Creation of hazardous/special									
goods	waste	N	N	Υ	Y	N	2	2	4	
Energy use	Depletion of Natural Resources	N	Υ	Υ	Υ	Υ	2	3	6	OCP - 02
Stavens of maint	Fine Diel	N.	γ	٧	٧	N.	2	2	4	
Storage of paint	Fire Risk	N	Y	Y	Y	N	2	2	4	
Leakage of paint	Land/Water contamination	N	N	Υ	Υ	Υ	2	2	4	

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NO.: 15

TILING

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		ACTIVITY		RELEVANT	RELEVANT EXTERNAL	CONCERN OF	R	ISK ASSES	SMENT	MITIGATION PLAN RE EMP/OCP/EPRP
ASPECT	IMPACT	NORMAL – N ABNORMAL – A	COMPLIANCE OBLIGATION	INTERNAL ISSUES	ISSUES	INTERESTED PARTIES	Likelihood	Seveirity	TOTAL SCORE	
		EMERGENCY - E		Y/N	Y/N	Y/N				
Resource use-Raw materials	Reduction of natural resources	N	N	Y	Y	N	2	2	4	
Usage of energy	Depletion of Natural Resources	N	N	Υ	Υ	Y	2	2	4	
Noise generation	Noise Pollution	N	Υ	Υ	Υ	Υ	4	2	8	OCP - 06
Waste Generation	Damage to vegetation/Land & Water contamination	N	N	Υ	Υ	Y	3	2	6	EMP01
Dust Generation	Degradation of air quality	N	N	Υ	Υ	Y	2	2	4	
Generation of heat	Global Warming	N	Υ	Υ	Υ	N	2	2	4	

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NO.: 16

ALUMINIUM WORK

		ACTIVITY	- \	RELEVANT CONCERN EXTERNAL		R	SMENT	MITIGATION D		
ASPECT	IMPACT	NORMAL – N ABNORMAL – A	COMPLIANCE OBLIGATION	INTERNAL ISSUES	ISSUES	INTERESTED PARTIES	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
		EMERGENCY - E		Y/N	Y/N	Y/N				
Noise generation	Noise Pollution	N	N	Υ	Υ	Υ	3	2	6	OCP - 06
	Land and water contamination /									
Hazardous waste generation	Damage to Vegetation / Global	N	N	Υ	Υ	Υ	3	2	6	OCP - 01
	Warming									
Generation of heat	Global Warming	N	N	Υ	Υ	N	2	2	4	
Usage of energy	Depletion of Natural Resources	N	N	Υ	Υ	Υ	2	2	4	
Resource use-Manufactured goods	Depletion of Natural Resources	N	N	Υ	Υ	N	2	2	4	
Dust Generation	Degradation of air quality	N	N	Υ	Υ	Υ	2	2	4	

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ROLLING SHUTTERING WORKS

NO.: 17

		ACTIVITY		RELEVANT	RELEVANT EXTERNAL	CONCERN OF	R	ISK ASSES	SMENT	
ASPECT	IMPACT	NORMAL – N ABNORMAL – A	COMPLIANCE OBLIGATION	INTERNAL ISSUES	ISSUES	INTERESTED PARTIES	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
		EMERGENCY – E		Y/N	Y/N	Y/N				
Usage of manufactured goods	Depletion of Natural Resources	N	N	Υ	Y	N	2	2	4	
Generation of noise	Noise Pollution	N	Υ	Υ	Υ	Y	2	2	4	
Usage of energy	Depletion of Natural Resources	N	N	Υ	Υ	Υ	2	2	4	
Generation of waste	Land and water pollution	N	N	Υ	Υ	Υ	2	2	4	
Generation of toxic gases/fumes during welding	Degradation of air quality	N	N	Υ	Υ	Y	2	2	4	

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NO.: 18

GRILL WORK

		ACTIVITY			RELEVANT	CONCERN OF	R	ISK ASSES	SMENT	
ASPECT	IMPACT	NORMAL – N ABNORMAL – A EMERGENCY – E	COMPLIANCE OBLIGATION	INTERNAL ISSUES	EXTERNAL ISSUES	INTERESTED PARTIES Y/N	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
		LINERGENOT - E		Y/N	Y/N	T/N				
Generation of noise	Noise pollution	N	N	Y	Υ	Y	3	2	6	OCP - 06
Generation of toxic gases/fumes during welding	Air pollution	N	N	Υ	Υ	N	2	2	4	
Usage of manufactured goods	Depletion of Natural Resources	N	N	Υ	Y	N	2	2	4	
Usage of energy	Depletion of Natural Resources	N	N	Υ	Υ	Υ	2	2	4	
Generation of waste	Land & Water Pollution	N	N	Υ	Υ	Υ	2	3	6	EMP01

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FIRE FIGHTING WORK

NO.: 19

		ACTIVITY	COMPLIANCE	RELEVANT		CONCERNIO	R	ISK ASSES	SMENT	
ASPECT	IMPACT	NORMAL – N ABNORMAL – A	COMPLIANCE OBLIGATION	INTERNAL ISSUES	ISSUES	INTERESTED PARTIES	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
		EMERGENCY - E		Y/N	Y/N	Y/N				
Waste Generation	Land & Water Pollution	N	N	Υ	Υ	Υ	2	2	4	
Generation of noise	Noise pollution	N	N	Υ	Υ	Υ	3	3	9	OCP - 06
Resource use-Manufactured goods	Depletion of Natural Resources	N	N	Υ	Υ	N	2	2	4	

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NO.: 20

PLUMBING & SANITARY WORK

		ACTIVITY	COMPLIANCE	RELEVANT	RELEVANT	CONCERN OF	R	ISK ASSES	SMENT	
ASPECT	IMPACT	NORMAL – N ABNORMAL – A	COMPLIANCE OBLIGATION	INTERNAL ISSUES	EXTERNAL ISSUES	INTERESTED PARTIES	Likelihood	Seveirity	TOTAL SCORE	MITIGATION PLAN EMP/OCP/EPRP
		EMERGENCY - E		Y/N	Y/N	Y/N				
IIGeneration of waste	Damage to vegetation/Land & Water contamination	N	N	Y	Y	Y	3	2	6	
Resource use - Manufactured goods	Depletion of Natural Resources	N	N	Υ	Υ	N	2	2	4	
Generation of noise	Noise pollution	N	Z	Υ	Υ	Υ	2	2	4	
Usage of water	Depletion of Natural Resources	N	Υ	Υ	Υ	Υ	2	2	4	
Usage of energy	Depletion of Natural Resources	N	Υ	Υ	Υ	Υ	2	2	4	

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	ALLERGENS RISK ASSESSMENT FORM											
ABC	Raw Material Allegens											
RM/ INGREDIENTS/ PROCESSING AIDES/PACKING MATERIALS/CLEANING CHEMICALS	SUPPLIER	Peanuts	Tree nuts	Egg	Milk	Gluten	Soy	Sesame	Fish/ Shell fish	SO2		

Present	
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Potential cross contact from shared	С
Traces of allergens may present through	Т
Not Present	N

4.0.0	ALLERGENS RISK ASSESSM				
ABC				Fini	shed product
PRODUCT	Peanuts	Tree nuts	Egg	Milk	Gluten

Present
Potential cross
Traces of allere
Not Present

IENT FORM		ABC/RA/01	
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Soy	Sesame	Crustacea	SO2

	Р
contact from shared	С
gens may present through	Т
	N