


|  | ENVIRONMENTAL RISK ASSESSMENT FORM | | | | | | | | | ARTK/EMS/RA |
|---|--|---|--------------------------|---------------------------------------|---------------------------------------|--|-----------------|----------|-------------|---------------------------------|
| | | | | | | | | | | ISSUE NO.: 2.0 |
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| | | | | | | | | | NO: 01 | |
| ASPECT | IMPACT | ACTIVITY NORMAL – N ABNORMAL – A EMERGENCY – E | COMPLIANCE OBLIGATION | RELEVANT INTERNAL ISSUES Y/N | RELEVANT EXTERNAL ISSUES Y/N | CONCERN OF INTERESTED PARTIES Y/N | RISK ASSESSMENT | | | MITIGATION PLAN EMP/OCP/EPRP |
| | | | | | | | LIKELIHOOD | SEVERITY | TOTAL SCORE | |
| Generation of dust | Air Pollution | N | Y | Y | Y | Y | 2 | 2 | 4 | OCP - 05 |
| Generation of waste | Land Contamination/Water contamination/ Degradation of air quality | N | Y | Y | Y | Y | 2 | 3 | 6 | |
| Generation of noise | Noise pollution | N | Y | Y | Y | Y | 4 | 3 | 12 | OCP -06 |
| Resource use-Raw materials | Depletion of natural resources | N | N | Y | Y | N | 2 | 2 | 4 | |
| Generation of heat | Damage to vegetation/ Global Warming | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Change in shape & size of the land | Disturbance to sites of natural/heritage significance | N | N | Y | Y | N | 2 | 3 | 6 | OCP1 |
| Deforestation | Global warming/Soil Erosion | N | N | Y | Y | N | 2 | 3 | 6 | |
| Usage of fossil fuel | Global warming/Depletion of natural resources | N | Y | Y | Y | Y | 2 | 2 | 4 | |
| Spillage of grease/lubricants | Land Contamination/Water contamination | N | Y | Y | Y | Y | 2 | 2 | 4 | |
| Consumption of energy | Depletion of natural resources | N | N | Y | Y | N | 2 | 4 | 8 | |

OCP - OPERATIONAL CONTROL PROCEDURE
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EXCAVATION

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|------------------------------------|--|---|--------------------------|--------------------------------|--------------------------------|--|-----------------|-----------|-------------|---------------------------------|
| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Generation of dust | Air Pollution | N | N | Y | Y | y | 2 | 4 | 8 | OCP - 05 |
| Generation of heat & vibration | Sound pollution / Damage to Eco System | N | Y | Y | Y | y | 2 | 2 | 4 | |
| Interrupt/modify drainage | Land Contamination / Depletion of under water resources | N | N | N | Y | N | 2 | 2 | 4 | |
| Generation of waste | Land Contamination/Water contamination/ Degradation of air quality | N | N | Y | Y | y | 3 | 4 | 12 | EMP1 |
| Consumption of raw materials | Depletion of natural resources | N | N | Y | Y | y | 2 | 3 | 6 | |
| Change in shape & size of the land | Disturbance to sites of natural/heritage significance | N | N | N | Y | y | 2 | 3 | 6 | |
| Consumption of energy | Depletion of natural resources | N | N | Y | Y | y | 2 | 3 | 6 | |
| Generation of noise | Noise Pollution | N | N | Y | Y | y | 2 | 2 | 4 | |
| Consumption of fossil fuel | Depletion of natural resources | N | N | Y | Y | N | 2 | 3 | 6 | OCP - 04 |
| Soil erosion | Damage to eco system | N | N | Y | Y | y | 2 | 2 | 4 | |

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PILING

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

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FORM WORK

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

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

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USAGE OF GENERATOR

| ASPECT | IMPACT | ACTIVITY NORMAL – N ABNORMAL – A EMERGENCY – E | COMPLIANCE OBLIGATION | RELEVANT INTERNAL | RELEVANT EXTERNAL | CONCERN OF PARTIES Y/N | RISK ASSESSMENT | | | MITIGATION PLAN EMP/OCP/EPRP |
|--------------------------------|---|---|--------------------------|----------------------|----------------------|------------------------------|-----------------|-----------|-------------|---------------------------------|
| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Fuel Use | Depletion of natural resources | A | Y | Y | Y | Y | 2 | 3 | 6 | OCP - 04 |
| Generation of heat | Generation of green house gases & contributes to carbon footprint | A | N | Y | Y | N | 2 | 2 | 4 | |
| Generation of noise | Noise Pollution | A | Y | Y | Y | Y | 3 | 3 | 9 | OCP06 |
| Smoke Emission | Air Pollution | A | N | Y | Y | Y | 2 | 2 | 4 | |
| Spillage & leakage of fuel/oil | Fire risk / Land Contamination | A | N | Y | Y | Y | 2 | 2 | 4 | |

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USAGE OF HOIST & MACHINERY

| ASPECT | IMPACT | ACTIVITY NORMAL – N ABNORMAL – A EMERGENCY – E | COMPLIANCE OBLIGATION | RELEVANT INTERNAL | RELEVANT EXTERNAL | CONCERN OF PARTIES Y/N | RISK ASSESSMENT | | | MITIGATION PLAN EMP/OCP/EPRP |
|--------------------------------|--|---|--------------------------|----------------------|----------------------|------------------------------|-----------------|-----------|-------------|---------------------------------|
| | | | | ISSUES Y/N | ISSUES Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Generation of Noise | Noise Pollution | N | Y | Y | Y | Y | 3 | 2 | 6 | OCP - 06 |
| Consumption of fossil fuel | Reduction of natural resources | N | N | Y | Y | N | 2 | 3 | 6 | OCP - 07 |
| Smoke Emission | Air pollution | N | Y | Y | Y | Y | 2 | 2 | 4 | |
| Usage of energy | Depletion of Natural Resources | N | N | Y | Y | Y | 2 | 3 | 6 | OCP - 02 |
| Generation of heat | Generation of green house gases & contributes to carbon footprint/Global warming | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Spillage & leakage of fuel/oil | Fire risk / Land Contamination | N | N | Y | Y | N | 2 | 2 | 4 | |
| Generation of hazardous waste | Damage to vegetation / Land and Water Contamination | N | N | Y | Y | Y | 3 | 3 | 9 | EMP01 |

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| | | | | Y/N | Y/N | Y/N | Likelihood | Seveirity | TOTAL SCORE | | |
| | | | | Y/N | Y/N | | | | | | |
| Consumption of raw materials | Depletion of natural resources | N | N | Y | Y | N | 2 | 2 | 4 | | |
| Generation of noise | Noise pollution | N | Y | Y | Y | Y | 3 | 2 | 6 | OCP - 06 | |
| Generation of waste | Damage to vegetation/Land & Water contamination | N | N | Y | Y | Y | 3 | 3 | 9 | EMP01 | |

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STEEL FOR CONCRETE REINFORCEMENT

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|---------------------|--|---|--------------------------|--------------------------------|--------------------------------|--|-----------------|-----------|-------------|---------------------------------|
| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| 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 | Y | Y | N | 2 | 2 | 4 | |
| Generation of Waste | Damage to vegetation/Land & Water contamination | N | N | Y | Y | Y | 3 | 3 | 9 | EMP01 |

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CONCRETING

| ASPECT | IMPACT | ACTIVITY NORMAL – N ABNORMAL – A EMERGENCY – E | COMPLIANCE OBLIGATION | RELEVANT INTERNAL ISSUES | RELEVANT EXTERNAL ISSUES | CONCERN OF INTERESTED PARTIES Y/N | RISK ASSESSMENT | | | MITIGATION PLAN EMP/OCP/EPRP |
|--------------------------------|---|---|--------------------------|--------------------------------|--------------------------------|--|-----------------|-----------|-------------|---------------------------------|
| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Dust Generation | Degradation of air quality | N | Y | Y | Y | Y | 2 | 3 | 6 | OCP - 05 |
| Noise Generation | Noise Pollution | N | Y | Y | Y | Y | 2 | 3 | 6 | OCP - 06 |
| Waste Generation | Damage to vegetation/Land & Water contamination | N | N | Y | Y | Y | 3 | 4 | 12 | EMP01 |
| Consumption of fuel | Depletion of Natural Resources | N | N | Y | Y | Y | 2 | 3 | 6 | |
| Usage of energy | Depletion of Natural Resources | N | N | Y | Y | Y | 2 | 4 | 8 | OCP02 |
| Usage of raw materials | Depletion of Natural Resources | N | N | Y | Y | N | 2 | 2 | 4 | |
| Usage of cement | Air Pollution | N | N | Y | Y | N | 2 | 2 | 4 | |
| Noise during deshuttering work | Noise Pollution | N | Y | Y | Y | Y | 2 | 2 | 4 | |
| Usage of water | Depletion of ground water table | N | Y | Y | Y | Y | 3 | 3 | 9 | EMP - 08 |

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MASONARY WORK

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|------------------------------|---|---|--------------------------|--------------------------------|--------------------------------|--|-----------------|-----------|-------------|---------------------------------|
| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Resource use - Raw materials | Depletion/use of finite natural resources | N | N | Y | Y | Y | 2 | 3 | 6 | |
| Waste Generation | Damage to vegetation/Land & Water contamination | N | Y | Y | Y | Y | 4 | 4 | 16 | EMP01 |
| Dust Generation | Degradation of air quality | N | Y | Y | Y | Y | 2 | 2 | 4 | |
| Usage of water | Depletion of ground water table | N | Y | Y | Y | Y | 2 | 3 | 6 | |

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| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Energy use | Depletion of Natural Resources | N | Y | Y | Y | Y | 2 | 3 | 6 | OCP - 02 |
| Consumption of materials | Depletion of natural resources | N | N | Y | Y | N | 2 | 2 | 4 | |

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PLASTERING

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|----------------------------|---|---|--------------------------|--------------------------------|--------------------------------|--|-----------------|-----------|-------------|---------------------------------|
| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Consumption of materials | Reduction of natural resources | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Usage of cement | Air Pollution | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Generation of waste | Damage to vegetation/Land & Water contamination | N | N | Y | Y | Y | 3 | 2 | 6 | EMP01 |
| Soil & water contamination | Land & water pollution | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Dust Generation | Degradation of air quality | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Usage of water | Depletion of ground water table | N | Y | Y | Y | Y | 2 | 3 | 6 | OCP08 |

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PAINTING

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|------------------------------------|--|---|--------------------------|--------------------------------|--------------------------------|--|-----------------|-----------|-------------|---------------------------------|
| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Hazardous waste generation | Land and water contamination / Damage to Vegetation / Global Warming | N | Y | Y | Y | Y | 2 | 2 | 4 | |
| Air Emissions | Air Pollution | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Resource use-Manufactured goods | Creation of hazardous/special waste | N | N | Y | Y | N | 2 | 2 | 4 | |
| Energy use | Depletion of Natural Resources | N | Y | Y | Y | Y | 2 | 3 | 6 | OCP - 02 |
| Storage of paint | Fire Risk | N | Y | Y | Y | N | 2 | 2 | 4 | |
| Leakage of paint | Land/Water contamination | N | N | Y | Y | Y | 2 | 2 | 4 | |

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| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| 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 | Y | Y | Y | 2 | 2 | 4 | |
| Noise generation | Noise Pollution | N | Y | Y | Y | Y | 4 | 2 | 8 | OCP - 06 |
| Waste Generation | Damage to vegetation/Land & Water contamination | N | N | Y | Y | Y | 3 | 2 | 6 | EMP01 |
| Dust Generation | Degradation of air quality | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Generation of heat | Global Warming | N | Y | Y | Y | N | 2 | 2 | 4 | |

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ALUMINIUM WORK

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| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Noise generation | Noise Pollution | N | N | Y | Y | Y | 3 | 2 | 6 | OCP - 06 |
| Hazardous waste generation | Land and water contamination / Damage to Vegetation / Global Warming | N | N | Y | Y | Y | 3 | 2 | 6 | OCP - 01 |
| Generation of heat | Global Warming | N | N | Y | Y | N | 2 | 2 | 4 | |
| Usage of energy | Depletion of Natural Resources | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Resource use-Manufactured goods | Depletion of Natural Resources | N | N | Y | Y | N | 2 | 2 | 4 | |
| Dust Generation | Degradation of air quality | N | N | Y | Y | Y | 2 | 2 | 4 | |

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ROLLING SHUTTERING WORKS

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|---|--------------------------------|---|--------------------------|--------------------------------|--------------------------------|--|-----------------|-----------|-------------|---------------------------------|
| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Usage of manufactured goods | Depletion of Natural Resources | N | N | Y | Y | N | 2 | 2 | 4 | |
| Generation of noise | Noise Pollution | N | Y | Y | Y | Y | 2 | 2 | 4 | |
| Usage of energy | Depletion of Natural Resources | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Generation of waste | Land and water pollution | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Generation of toxic gases/fumes during welding | Degradation of air quality | N | N | Y | Y | Y | 2 | 2 | 4 | |

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EPRP - EMERGENCY PREPAREDNESS AND RESPONSE PLAN



ENVIRONMENTAL RISK ASSESSMENT FORM

ARTK/EMS/RA

ISSUE NO.: 2.0

REVISION NO.: 00

ISSUE DATE: 01.01.2016

NO.: 18

GRILL WORK

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

OCP - OPERATIONAL CONTROL PROCEDURE

EMP - ENVIRONMENTAL MANAGEMENT PROGRAMME

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FIRE FIGHTING WORK

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

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PLUMBING & SANITARY WORK

| ASPECT | IMPACT | ACTIVITY NORMAL – N ABNORMAL – A EMERGENCY – E | COMPLIANCE OBLIGATION | RELEVANT INTERNAL ISSUES | RELEVANT EXTERNAL ISSUES | CONCERN OF INTERESTED PARTIES Y/N | RISK ASSESSMENT | | | MITIGATION PLAN EMP/OCP/EPRP |
|-----------------------------------|---|---|--------------------------|--------------------------------|--------------------------------|--|-----------------|-----------|-------------|---------------------------------|
| | | | | Y/N | Y/N | | Likelihood | Seveirity | TOTAL SCORE | |
| Generation 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 | Y | Y | N | 2 | 2 | 4 | |
| Generation of noise | Noise pollution | N | N | Y | Y | Y | 2 | 2 | 4 | |
| Usage of water | Depletion of Natural Resources | N | Y | Y | Y | Y | 2 | 2 | 4 | |
| Usage of energy | Depletion of Natural Resources | N | Y | Y | Y | Y | 2 | 2 | 4 | |

OCP - OPERATIONAL CONTROL PROCEDURE

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| | |
|---|---|
| Potential cross contact from shared | C |
| Traces of allergens may present through | T |
| Not Present | N |

| ABC | ALLERGENS RISK ASSESSMENT | | | | |
|---------|---------------------------|-----------|-----|------|--------|
| | Finished product | | | | |
| PRODUCT | Peanuts | Tree nuts | Egg | Milk | Gluten |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| |
|--------------------|
| Present |
| Potential cross |
| Traces of allergen |
| Not Present |

| | | | |
|-----------|--------|-----------|------------------------|
| IENT FORM | | | ABC/RA/01 |
| | | | ISSUE NO.: 1.0 |
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| | | | ISSUE DATE: 01.01.2023 |
| S | | | |
| Soy | Sesame | Crustacea | SO2 |
| | | | |
| | | | |
| | | | |
| | | | |

| | |
|--------------------------|---|
| | P |
| contact from shared | C |
| gens may present through | T |
| | N |