

DBSA		GIYANI TVET COLLEGE	Baseline Risk Assessment	Prepared by		D Pather						Date: 12/01/2022 Rev 0	
Task/ Activity	Hazard(See Hazard List)	Associated Risk	Cause(Unsafe Act or Condition)	Consequences (Injury, Property Damage etc.)	SHE	NORMAL	ABNORMAL	EMERGENCY	Inherent Risk			Required Control Measures (for threats)	
									S	L	RR		
Appointment of PR CHSA	Not appointing competent registered PR CHSA	Legal non compliance	Unsafe act	Delays/ Financial/ Reputation	S	N			P3	14	1	Ensure the PR CHSA is appointed Agents are professionally registered Agents have the competence and qualifications to completed the task	
		Unsafe site	Unsafe act	Injury/Property damage	S	N			P3	14	1	Ensure the PR CHSA is appointed Agents are professionally registered Agents have the competence and qualifications to completed the task	
	PR CHSA not completing inspections	Unsafe site	Unsafe act	Injury/Property damage	S	N			P3	14	1	PR. CHSA agents performing duties as per scope of services	
Appointment of designers	Not appointing competent registered designers	Legal non compliance	Unsafe act	Delays/ Financial/ Reputation	S	N			P3	14	1	Ensure designers are appointed Designers are professionally registers Designers have the competence and qualifications for the project	
		Unsafe structures	Unsafe act	Injury/Property damage	S	N			P3	14	1	Ensure designers are appointed Designers are professionally registers Designers have the competence and qualifications for the project	
	Designers not completing inspections	Unsafe structures	Unsafe act	Injury/Property damage	S	N			P3	14	1	Designers to perform legal duties as mandated	
	Designers not approving and signing of documents	Unsafe structures	Unsafe act	Injury/Property damage	S	N			P3	14	1	All designs and changes to be approved by appointed designers All designs to be reviewed	
Appointment of Competent Principal contractor	Principal Contractor not competent	Unsafe working environment	Unsafe act	Injury/Property damage	S	N			P3	14	1	Principal contractor to have necessary competency and experience Appointment of competent construction manager Comprehensive SHE plan Implementation of SHE plan	
Procurement	Purchasing materials	Poor quality and spec- risk to project integrity, delays	Unsafe condition	Injury/ Illness	S	N			P3	14	1	Technical specification Budget to be reviewed as project progresses H&S final sign off on H&S budget Quality sign off	
Budget and Resources	Not budgeting for H&S requirements	Unable to resource identified controls	Unsafe condition	Injury/ Illness	S	N			P3	14	1	Prelim budget to include H&S resources Budget to be reviewed as project progresses H&S final sign off on H&S budget	

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Site walkthrough	Dust	Respiratory infection	Unsafe condition	Injury	S	N			P3	I3	2	Awareness and training	
												Induction	
												Site orientation	
												Site inspections	
												PPE	
	Walking on roadways	Exposure to traffic	Unsafe condition	Injury	S	N			P3	I3	2	SHE Plan- communicated	
												Awareness and training	
												Induction	
												Site orientation	
												Keep to pavements	
	Uneven ground	Slips and Trips	Unsafe condition	Injury	S	N			P3	I3	2	Management visits off peak	
												Traffic plan where required	
												Awareness and training	
												Induction	
												Site orientation	
	Snakes, insect bites, bee stings	Poisonous, allergy	Unsafe condition	Injury	S	N			P3	I3	2	Site inspections	
Levelling where possible													
Housekeeping													
Awareness and training													
Induction													
Social Impact	Not communicating with the surrounding community	Miscommunication/public unrest	Unsafe condition	Injury / Property damage	S	N			P3	14	1	Public liaison to communicate	
												Communication plan	
												Meetings and public face to face meetings	
Surveys and studies	Geotechnical surveys not completed	Quality of soil unknown, dolomite land unknown	Unsafe Act	Injury / Property damage	S	N			P3	14	1	Awareness and training	
												Supervision	
	Not completing Topographical surveys	unknown natural and unnatural structures, terrain, structures, electrical structures, rivers etc	Unsafe Act	Injury/ Property damage	S	N			P3	14	1	complete surveys as required to identify electrical structures, buildings, rivers etc	
												Communication	
Environmental Authorisations	Not completing environmental authorisations	Risk of fines and delays	Unsafe condition	Injury/ Property damage	S	N			P3	14	1	Appointment of ECO	
		Harm to environment	Unsafe act	Enviro	E	N			P3	14	1	Completion of application	
												Appointment of ECO	
												Completion of application	
													Consideration to EIA
Driving to site	Driving fatigued	Falling asleep at the wheel	Unsafe act	Injury	S	N			P3	14	1	Awareness and training	
												Supervision	
												Communication	
	Inclement weather	unclear roads (rain, fog)	Unsafe condition	Injury	S	N			P3	14	1	Weather reports	
												Journey management	
												Supervision	
	Unsafe route	Danger zones, high hijacking spots	Unsafe condition	Injury	S	N			P3	14	1	Awareness and training	
												Journey management	
Licensed driver	Loss of control	Unsafe arc	Injury	S	N			P3	14	1	Driver licenced		
											Vehicle maintenance		
Unroadworthy vehicle	Loss of control	Unsafe condition	Injury	S	N			P3	14	1	Awareness		

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Blasting	Rock blasting	Exposure to Dust	Unsafe condition	Injury	S	N			P3	14	1	Blasting plan	
												Training and competency	
												Communication plan	
												Approval from authorities	
												TRA	
												Appointment of supervisor	
	Rock blasting	Exposure to Noise	Unsafe condition	Injury	S	N			P3	14	1	PPE	
												Method statement	
												Blasting plan	
Rock blasting	Exposure to flying debris	Unsafe condition	Injury	S	N			P3	14	1	Training and competency		
											Communication plan		
											Approval from authorities		
											TRA		
											Appointment of supervisor		
											PPE		
Access to site and site security	Inadequate security	Hijacking	Unsafe condition	Injury	S	N			P3	14	1	Method statement	
												Onsite security	
												Access control	
	Inadequate security	Riots	Unsafe condition	Injury	S	N			P3	14	1	Visitor sign in	
												Onsite security	
												Access control	
	Inadequate security	Theft/hijacking	Unsafe condition	Injury	S	N			P3	14	1	Visitor sign in	
												Community liaison	
												onsite security	
												access control	
												visitor sign in	

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Site Establishment	Traffic	Employees being struck by moving vehicles	Unsafe condition	Injury	S					P2	14	1	Sufficient barricading of area using safety net and corns Signs and notices for motorists Flagmen Supervision Safe working procedure - Traffic management plan Training, communication and awareness Supervision
	Sharp edges	Employees coming in contact with sharp edged tools	Unsafe condition	Injury	S					P5	12	2	Safe work procedure Posting of signage Housekeeping Capping of the edges should be done where is possible
	Dust	Inhalation of hazardous substances	Unsafe condition	Illness	H					P3	12	2	Dust Mitigation Procedure Posting of signage Isolation of none working personnel Work area ventilation Use of PPE - Dust Mask (FPP1 -FPP2)
	Noise	Noise induced hearing loss	Unsafe condition	Hearing loss	H					P3	13	2	Isolation of none working personnel Supervision Ear protection - Ear plugs/Ear muffs
	Unsecured load	Load falls while moving	Unsafe condition	Injury	S					P3	14	1	Training, communication Task Planning - rigging study Competent work Verification Validity of Test certificates Isolation of none working personnel Demarcation and or Barricading PPE - Gloves,
				Property damage	S					P4	14	1	Training, communication Task Planning - rigging study Competent work Verification Validity of Test certificates Isolation of none working personnel Demarcation and or Barricading PPE - Gloves,
	Public Safety and Traffic Management	Inadequate signage	Unaware of road hazards	Unsafe condition	Injury	S	N			P3	14	1	Public liaison to communicate Signages and awareness training Traffic Plan Inspections Supervision
													Inadequate signalling

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									S	L	RR			
Construction Crew on the road	Working on the road	Exposure to traffic	Unsafe condition	Injury	S	N			P3	14	1	Traffic plan		
												Appointment of Traffic officer		
												Safe work procedures		
												Inspections		
												Supervision		
Earthmoving plant and equipment and Mobile equipment	Unauthorised use of equipment	Collison	Unsafe Act	Injury	S	N			P3	14	1	Medicals		
												Training		
												Inspections		
												Planned job observations		
												Supervision		
	Maintenance of vehicles	Exposure to energy sources	Unsafe Act	Injury	S	N			P3	14	1	Competent person		
												Maintenance lay down area		
												SOP's		
												Maintenance plan		
												Supervision		
	Use of defective equipment/vehicle	Collison	Unsafe Act	Injury	S	N			P3	14	1	LOTO		
												Plant maintenance		
Training														
Inspections														
Planned job observations														
Tower Crane Operation	Tower crane erection/ dismantle	Loading / offloading	Unsafe Act	Injury	S	N			P3	14	1	Supervision		
												TRA		
												Safe work procedure		
												Training and competency		
												Communication		
	Operation	Collapse	Unsafe Act	Injury	S	N			P3	14	1	Planned job observations		
												Supervision		
												Rigging study/ plan		
												Communication		
												Training and competency		
Form and Support work	Manual Handling	Poor posture	Unsafe Act	Injury	S	N			P3	13	2	Inspections		
												Planned job observations		
												Supervision		
												TRA		
												Training		
	Structural	Collapse	Unsafe Act	Injury	S	N			P3	14	1	SOP's		
												Competence		
												Signed of designs		
												Training		
												Inspections		

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Health and Hygiene	Working with dust (Cement, sand etc)	Exposure to Dust	Unsafe condition	Illness	S	N			P3	I3	2	Water trucks	
												Training	
												Inspections	
												Planned job observations	
												PPE	
												Supervision	
	Blood pathogens	HIV/AIDS exposure	Unsafe condition	Illness	S	N			P3	I3	2	Competent person	
												First aid kit	
												Hazardous waste contact details	
	Eating	Improper facilities	Unsafe condition	Illness	S	N			P3	I3	2	PPE	
												Proper eating facility	
												Housekeeping	
												Cleaning	
	Ablution	Improper facilities	Unsafe condition	Illness	S	N			P3	I3	2	Inspections	
												Supervision	
												Proper ablution	
												Handwash soap	
	Smoking	Exposure to smoking	Unsafe condition	Illness	S	N			P3	I3	2	Housekeeping	
												Awareness talks on hygiene	
												Inspections	
												Supervision	
	Emergency preparedness	Lack of emergency preparedness	Unsafe condition	Illness	S	N			P3	I3	2	Smoking area	
												Policy	
												Training and awareness	
												Supervision	
	Working outside	Heat/Cold	Unsafe condition	Illness	S	N			P3	I3	2	Inspections	
												Emergency response plan	
												Drills and training	
Awareness and training													
Competent emergency team													
Surveys/testing													
Working in the dark	Lighting	Unsafe condition	Injury	S	N			P3	I3	2	PPE		
											Training		
											Inspections		
											Planned job observations		
											Supervision		
											Competent person		
Working with noise generating equipment	Noise	Unsafe condition	Injury	S	N			P3	I3	2	Surveys/testing		
											PPE		
											Training		
											Inspections		
											Planned job observations		
											Supervision		
Competent person													

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Transportation of material and equipment	Moving motor vehicle	Collision due to defective motor vehicle	Unsafe Condition	Injury	S				P3	14	1	Operator to have a valid drivers licence Operator to be medically fit for the job Pre- inspection of the vehicle Safe work procedure Adhere to road traffic rules and regulations Adhere to maintenance/ service schedule
	Members of the public	Significant number of people in the community are blind	Unsafe condition	Injury	S				P2	14	2	Community liaison to meet with community members to explain hazards Operators/ drivers training and awareness Operator drivers to obey speed limits and routes Supervision
	Members of the public	Theft/hijacking	Unsafe condition	Property loss	S				P2	14	2	Paying attention to media for areas with riots Communication media to contact emergency services Emergency preparedness plan Locking and unlocking plan
	Congestion of vehicles on the public roads	Speeding and colliding with other motor vehicles on the roads	Unsafe condition	Injury	S				P2	15	1	Awareness and training Adhere to road traffic rules and regulations Keep safe following distance at all times
	Improper stacking and securing of loads	Load could fall while in transit	Unsafe condition	Injury	S				P3	14	1	Training, communication and awareness Task Planning - rigging study Competent workers such as rigger and Supervisor Verification Validity of Test certificates
				Property damage	S				P4	14	1	Training, communication and awareness Task Planning - rigging study Competent workers such as rigger and Supervisor Verification Validity of Test certificates
	Poor road surface	Tyre damages due to road potholes	Unsafe condition	Property loss	S				P4	13	2	Training and awareness Speed limits Communication Journey management
	Incompetent vehicle operator	Multiple motor vehicle accidents	Unsafe act	Injury	S				P3	15	1	Only competent appointed operators to operate mobile plant Training, communication and awareness Traffic management plan to manage traffic caused by the incident
				Property damage	S				P3	15	1	Only competent appointed operators to operate mobile plant Training, communication and awareness Traffic management plan to manage traffic caused by the incident
				Hydrocarbon spillages	E				P3	15	1	Spill kits Traffic management plan to manage traffic caused by the incident

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Lifting and Rigging	Adverse weather conditions	Being faced with hail/rain storms, fog	Unsafe condition	Injury	S				P5	14	1	Pre- Task planning - Weather focus Rescheduling of work Safe work procedure - Rigging and slinging			
				Property damage	S				P5	14	1	Pre- Task planning - Weather focus Rescheduling of work Safe work procedure - Rigging and slinging Use of certified slings to control load Communication and coordination between Operator and rigger High visibility clothing			
				Swinging loads	Load can bump into other structures	Unsafe condition	Property damage	S				P4	14	1	Task Planning Use of a spotter or flagman Communication and coordination between Operator and rigger Reverse hooter and strobe light PPE - Gloves Boots
				Improper securing of the load	Load dropping	Unsafe condition	Property damage	S				P4	I5	1	Job observation Pre-use inspection Competent rigger Constant Supervision
				Injury								TRA			
	Working at heights	Working at elevated positions	Fall from heights	Unsafe condition	Injury	S				P3	I4	1	Safe work procedure - Working at Heights and Fall Rescue plan Communication and training Use of Fall Arrest System Use of Fall prevention - Life line, guard rails Barricading and demarcation		
													Unstable ladder	Unsafe condition	Injury
			Structural collapse	Unsafe condition	Injury	S				P4	I5	1			
													Tools and equipment falling to the ground	Unsafe condition	Injury

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Working with power tools	Exposed electrical wires	Electrocution	Unsafe Condition	Injury	S				P3	13	2	Planned Preventative Maintenance(Schedules) Pre Start up checklist(inspections) Safe Working Procedure - Use of power tools Lock Out- Tag out procedure Training, Communication & Awareness Job Observation
	Trailing cables	Trip and fall to the ground	Unsafe Condition	Injury	S				P4	12	2	Work area inspection Adequate housekeeping Posting of signage Supervision
	Sparks	Body burns	Unsafe condition	Injury	S				P5	13	1	Demarcate Welding/grinding bays with screens Planned Preventative Maintenance(Schedules) Pre Start up checklist(inspections) Safe Working Procedure Training, Communication & Awareness Job Observation Emergency preparedness plan PPE
		Fire outbreak	Unsafe condition	Injury	S				P5	15	1	Demarcate Welding/grinding bays with screens Planned Preventative Maintenance(Schedules) Pre Start up checklist(inspections) Safe Working Procedure Training, Communication & Awareness Job Observation Emergency preparedness plan PPE - Aprons, Spats, Goggles, Gloves, Dust Masks
	Flying particles	Eye contact with flying debris	Unsafe condition	Injury	S				P5	13	1	Machine guards Supervision Job Observation PPE - Dust masks, goggles and gloves
	Dust, Fumes	Inhalation of hazardous substances	Unsafe condition	Illness	H				P3	12	3	Dust Mitigation Procedure Posting of signage Isolation of none working personnel Work area ventilation Use of PPE - Dust Mask (FPP1 -FPP2) Placing of temporary extractor fans
	Noise	Noise induced hearing loss	Unsafe condition	Injury	H				P3	13	2	Isolation of none working personnel Supervision Ear protection - Ear plugs/Ear muffs Noise survey
	Rotating and moving equipment	Hand or finger caught in between moving parts	Unsafe condition	Injury	S				P4	13	2	Safe operating procedure Training, communication and awareness Competent work Pre - Inspection PPE

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Scaffolding	Pinch points	Hands or body parts coming in contact with the load and surface	Unsafe Condition	Injury	S				P4	I3	2	Training and awareness
												Supervision
												Use of cut resistant safety gloves
												PPE
	Heavy objects	Lifting of heavy materials causing back injuries	Unsafe condition	Injury					P4	I3	2	Job rotation
												Job breaks
												Correct lifting techniques-bend knees not back
												Ensure one employee carries a maximum of 15 lifts per minute
	Ergonomics	Lifting of heavy materials	Unsafe Condition	Injury	S				P3	13	2	Use the following formula for lifting duration lifting between 1 and 2 hours with recovery time $\geq 0.3 \times$ lifting
Job rotation												
Job breaks												
Ergonomics procedure												
Manual handling of material	Sharp edges	Employees coming in contact with sharp edged equipment	Unsafe condition	Injury	S				P3	12	3	Inspections
												Safe working procedure - Ergonomics procedure
												Training, communication and awareness
												Supervision
	Heavy objects	Body part sprains resulting from improper lifting techniques	Unsafe condition	injury/illness	H				P3	I3	2	PPE - Cut resistant safety gloves
												Lifting aids
												Buddy system for loads above 22kgs
												Safe working procedure - Ergonomics procedure
	Ergonomics	Lifting of heavy materials	Unsafe Condition	Injury	S				P3	13	2	Job rotation
												Ergonomics procedure
												Job breaks
												Correct lifting techniques-bend knees not back
	Uneven ground	Falling and tipping over	Unsafe condition	injury	S				P4	13	2	Ensure one employee carries a maximum of 15 lifts per minute
Use the following formula for lifting duration lifting between 1 and 2 hours with recovery time $\geq 0.3 \times$ lifting												
Pathway assessment												
Examine site layout												
Housekeeping												

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									S	L	RR												
Handling of hazardous and flammable liquids and chemicals	Chemical liquid	Fire outbreak	Unsafe Condition	Property damage	S				P4	15	1	MSDS											
												Work area ventilation											
												Notices and signage											
												Remove combustible material from work area											
												Placement of fire extinguishers											
												Safe Working Procedure - Use of HCS											
		Skin irritation	Unsafe condition	Injury	S				P3	12	3	Training, Communication & Awareness											
												Job Observation											
	Fumes	Inhalation of hazardous substances	Unsafe condition	Illness	S				P3	12	3	MSDS											
												Safe working procedure -HCS											
												Training, communication and awareness											
												Isolation of none working personnel											
												Work area ventilation											
												Notices and signage											
	Heat	Heat burns	Unsafe condition	Injury	S				P4	12	2	PPE - Dust masks, respirator,											
												Job breaks											
Job rotation																							
Supervision																							
PPE - Overalls,																							
Stacking and Storing												Improper stacking and storage	Loads falling on employees	Unsafe Condition	Injury	S				P4	12	1	Communication, training and awareness
																							Appointed competent stacking and storage supervision
																							Monthly checklist of all stacking and storage areas
	Employees to keep a safe distance from storage areas with heavy equipment																						

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Excavation and Trenching	Accessing to excavation	Fall into	Unsafe Act	Injury	S					P4	12	1	Training and competency												
													Access plan- ladder etc												
													Safe work procedure												
													Excavation inspection												
													TRA												
													Job observation												
	Working in excavation	Collapse of ground/ entrapment	Unsafe condition	Injury	S					P4	12	1	Fall protection												
													Training and competency												
													Access plan- ladder etc												
													Safe work procedure												
													Excavation inspection												
													TRA												
	Working outside an excavation	Fall into/ entrapment	Unsafe condition	Injury	S					P4	12	1	Job observation												
													Fall protection												
													Soil inspections												
Shoring																									
Barricading																									
Signage																									
Welding and cutting	Cutting/ welding of pipes	Heat/ fire	Unsafe Act	Injury	S					P4	13	2	Training and awareness												
													Wearing of appropriate PPE												
													Supervision												
													TRA												
													Job observation												
													Safe work procedure												
													Designated area for welding												
													Hot work permit												
	Cutting/ welding of pipes	Exposure to Arc flash	Unsafe Act	Illness	S					P4	13	2	Training and awareness												
													Wearing of appropriate PPE												
													Supervision												
													TRA												
													Job observation												
													Safe work procedure												
													Installation of windows	Manual Handling	Heavy lifting	Unsafe Act	Illness	S					P4	13	2
Wearing of appropriate PPE																									
Supervision																									
TRA																									
Job observation																									
Brickwork	Manual Handling	Heavy lifting	Unsafe Act	Illness	S					P4	13	2	Safe work procedure												
													Training and awareness												
													Wearing of appropriate PPE												
													Supervision												
													TRA												

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									S	L	RR		
Cement mixing	Manual Handling	Heavy lifting	Unsafe Act	Illness	S				P4	I3	2	Training and awareness	
												Wearing of appropriate PPE	
												Supervision	
	Dust	Exposure to dust	Unsafe Act	Illness	S				P4	I3	2	TRA	
												Job observation	
												Safe work procedure	
Electrical installation	Exposed live/ energized cables, Poor Tag out and Log out procedure	Electrocution	Unsafe condition	Electric shock	S				P4	I5	1	Training and awareness	
				Injury								Wearing of appropriate PPE	
							P4	I5	1	Supervision			
										TRA			
										Job observation			
										Pre-use inspection			
Stockpiling	Loading of rubble/ sand	Collapse/ Entrapment	Unsafe Condition	Injury	s				P3	I5	1	Competent rigger	
												Constant Supervision	
												Adhere to Log-out and Tag-out procedure	
												Land surveying	
												Training and competency	
												TRA	
Housekeeping	Clearing of waste	Exposure to waste	Unsafe Condition	Injury	s				P4	I3	2	Stockpile management pile	
												Training and competency	
												Safe work procedure	
												Inspections	
												TRA	
												Supervision	
Loading and unloading	Manual Handling	Heavy loads	Unsafe act	Injury	s				P4	I3	2	Waste separation	
												PPE	
												Inspection	
												Training and awareness	
												Safe work procedure	
												Training and awareness	
Supervision													
TRA													
Planned job observation													

	High
	Moderate
	Low- Moderate
	Low

DBSA

1	2	3	L3	L3
2	L3	L3	L2	L2
L3	L3	L2	L2	L1
L2	L2	L1	L1	L1
L1	L1	L1	L1	L1

SEVERITY					
	Health & Safety	Financial	Environment	Community safety and health	Quality
1	First aid treatment	Minor damage < R10 000	Minor impact within plant boundary	Complaints from public e.g. smell	Minor and infrequent customer complaints
2	Medical treatment (recordable)	R10 000 < Material Damage < R100 000	Minor impact extending beyond the plant boundary within site	Local public being told to take shelter indoors or evacuation, or adverse local publicity	Customer complaints that have the potential to deteriorate if not resolved
3	Loss time injury(Recordable)	R100 000 < Serious Damage < R 500 000	Moderate reversible impact at local scale	Hospitalisation or multiple press articles regarding complaints eg. Smell	Loss of one important customer that may impact market share
4	Fatality	R500 000 < Major Damage < R1 000 000	Serious reversible impact on a national scale	1-2 public fatality	Loss of one important customer that may impact market share
5	More than one fatality	Catastrophic > R1m	Very serious irreversible impact on a national scale	More than three public fatalities	Loss of significant number of key customers, causing significant loss of market share

	1	2	3	4	5
Likely-hood	Very Unlikely	Low	Possible	Likely	Almost Certain
Frequency	The event may occur once in every 10 - 20 years	The event may occur once in every 5 - 10 years	The event may occur once in every 2 - 5 years	The event may occur within next 1 - 2 years	The event may occur at least once a year or is already occurring
PROBABILITY					