



Client Ballinagree national School
Project New Classroom extension and associated site works
Project No. 24134

Project Title: Construction of Extension and Associated Site Works																																																																						
Project Number: 24134		Company / Client : Board Of management Ballinagree NS				Risk Assessment#: DRA - 01		<table border="1"> <tr> <th colspan="2">0 - 5 = Low Risk</th> <th colspan="5">Severity of the potential injury/damage</th> </tr> <tr> <th colspan="2">6 - 10 = Moderate Risk</th> <th>Insignificant damage to Property, Equipment or Minor Injury</th> <th>Non-Reportable Injury, minor loss of Process or slight damage to Property</th> <th>Reportable Injury moderate loss of Process or limited damage to Property</th> <th>Major Injury, Single Fatality critical loss of Process/damage to Property</th> <th>Multiple Fatalities Catastrophic Loss of Business</th> </tr> <tr> <th colspan="2">11 - 15 = High Risk</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> <tr> <th colspan="2">16 - 25 = extremely high unacceptable risk</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> <tr> <th rowspan="5">Likelihood of the hazard happening</th> <th>Almost Certain</th> <td>5</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> </tr> <tr> <th>Will probably occur</th> <td>4</td> <td>8</td> <td>12</td> <td>16</td> <td>20</td> </tr> <tr> <th>Possible occur</th> <td>3</td> <td>6</td> <td>9</td> <td>12</td> <td>15</td> </tr> <tr> <th>Remote possibility</th> <td>2</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> </tr> <tr> <th>Extremely Unlikely</th> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </table>				0 - 5 = Low Risk		Severity of the potential injury/damage					6 - 10 = Moderate Risk		Insignificant damage to Property, Equipment or Minor Injury	Non-Reportable Injury, minor loss of Process or slight damage to Property	Reportable Injury moderate loss of Process or limited damage to Property	Major Injury, Single Fatality critical loss of Process/damage to Property	Multiple Fatalities Catastrophic Loss of Business	11 - 15 = High Risk		1	2	3	4	5	16 - 25 = extremely high unacceptable risk		1	2	3	4	5	Likelihood of the hazard happening	Almost Certain	5	10	15	20	25	Will probably occur	4	8	12	16	20	Possible occur	3	6	9	12	15	Remote possibility	2	4	6	8	10	Extremely Unlikely	1	2	3	4	5
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Project Manager:		Design Safety Advisor & Designer: PMCG Consulting Engineers & Project Management.				Date of Assessment: March 2026																																																																
Hazards	Y/N	Lifting Equipment	Y	Hot/Cold Surfaces	N	Moving Parts	Y	Falling Objects	Y	Lighting	Y																																																											
Environment	Y	Manual Handling	Y	Flammable	Y	Sharp Objects	Y	Traffic	Y	Property Damage	N																																																											
Electricity	Y	Pressure Systems	N	Explosives	N	Works Equipment	Y	Slips, Trips & Falls	Y	Litter Waste	Y																																																											
Noise / Vibration	Y	Hot Water	N	Hot Works	Y	Working at Height	Y	Hazard Substances.	Y	Biological	Y																																																											
Risk Evaluation: Based on numerical values of 1 (low) to 5 (High) for Likelihood and Severity, Risk Rating = Likelihood x Severity is calculated as Low, Medium or High																																																																						



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Haz Ref	Activity/Process/ Material/Element	Hazard /Risk	Stage of Work	L	S	RR	Risk Control Measures:	L	S	R R
		General - Overview					The proposed works is located within the boundaries of an operational school			
1	Construction of extension	• Use of Con-Saws • Contact with Concrete • Use of hand Tools • Use of power tools • Cuts/abrasions • Flying debris • Eye damage • Exposure to Silica dust • Risk of unintended collapse • Electrocutation	Construction	4	4	16	• Ensure tools and Machinery are in good condition • Operatives to wear correct PPE • Use of tools to be carried out by competent operatives • Battery operated tools will be used wherever practical • Regular inspection of machinery and tools • Any cutting of concrete to be dampened down • PSCS to ensure all services are isolated.	2	3	6



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Haz Ref	Activity/Process/ Material/Element	Hazard /Risk	Stage of Work	L	S	RR	Risk Control Measures:	L	S	RR
2	Opening trenches for installation of new pipework	- Risk of plant and machinery falling into excavation - Risk of personnel falling into excavation - Surface encumbrances - Presence of ground water - Traffic Movements	Construction	3	4	12	- Excavations to be fully fenced off to ensure no unauthorised entry into the Work Zone. - Ground scanned for existing services - Excavation to proceed to the formation level. The sides and end of the excavation to be battered to have a maximum slope of 35°. - Excavations that may require de-watering are to be monitored and sink holes are to be cordoned off from Site Staff and Factory Personnel. - AF3 Permits to be completed in advance of anyone entering the excavation area. - Ensure correct PPE is worn at all times. - Do not allow machinery near the edges of excavations - A safe system of work must be developed and put in place including the making of appropriate emergency arrangements. - Reference to the following documentation :- a) BS 6031 Code Of Practice For Earthworks b) HSA Code Of Practice For Working in Confined Spaces c) HSA Code Of Practice For Avoiding Underground Services - Over areas of traffic, steel plates to bridge open trenches if required. - Adequate lighting required around open trenches in late evening especially in traffic areas.	1	4	4
3	General	Slips/trips & falls	Construction	3	2	6	- Contractor to ensure all areas are maintained clear and clean at all times. - Pathways to be maintained free of obstructions and	1	1	2



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							materials that could cause slips, trips or falls.			
Haz Ref	Activity/Process/ Material/Element	Hazard /Risk	Stage of Work	L	S	RR	Risk Control Measures:	L	S	RR
4	Working near Live Services	Electrocution	Construction	3	4	12	- Contractor to ensure that all live cables in the work area are to be isolated (lock out /tag- out) if possible prior to commencement of work. - CAT scan for live cables to be undertaken prior to commencement of all excavations. - Survey drawing showing presence of existing services is not available from client.	1	4	4
5	Unauthorized Access	Members of the public/school and other contractors access areas where there is a risk of danger.	Construction	2	3	6	- Entire site to be fenced off to prevent unauthorized access from the public. - Contractors to provide sufficient signage to ensure that other persons working on and adjacent to the site are aware of the construction work. - Barriers & hoarding to be installed where necessary. - Signage to be erected along the public road alerting the road users of a construction entrance.	1	3	3



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Haz Ref no.	Activity/Process/Material/Element	• Hazard /Risk	Stage of Work	L	S	RR	• Risk Control Measures: Dr	L	S	R R
6	Co-ordination of Trades	- Accidents due to lack of communication. - Covid 19	Construction	2	3	6	- All contractors to operate under a permit to work system. - Contractors to adopt safe systems of work and good housekeeping to ensure the wellbeing of all personnel on site. - Regular co-ordination meetings to be held to ensure there is communication between all contractors and trades. - All PPE to be worn to comply with Covid 19 Regulations.	1	3	3
7	Construction Traffic Management	Collision between personnel and vehicles	Construction	2	3	6	Segregation between vehicle and pedestrian routes to be established and clearly sign-posted in the vicinity of all the work areas	1	2	2
8	Existing underground services	Contact with underground services - SW, FW & Watermain	Construction	2	3	6	- Limited existing underground service drawings are available for the site. - The contractor is ensure that all excavation to be carried out in a safe manner and all areas to be excavated are scanned for existing services and the locations of services clearly identified and marked prior to the commencement of excavation works. - Temporary supports to be provided to existing	1	3	3



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							services, pipes and cables where required.			
9	Installation RC Concrete foundation	Installation of concrete base, Rebar(cutting/fixing/placement), impalement from exposed rebar etc	Construct ion	3	3	9	- Appropriate PPE to be utilised when working with concrete. - Operator carrying out cutting of rebar to have the appropriate training/certificates for the work and to use the required PPE. - All exposed rebar (particular column starter bars) to be capped at all times. - Contractor to address through development of Method Statements and further Risk Assessments.	1	3	3
10	Roof work	Risk of Injury or Fatality from fall from height.	Construct ion	3	4	12	PSCS set out controls required for Roof work following code of practice for safety in roof work including protective measures and edge protection.	2	4	8
11	Materials	Use of concrete etc - burns, dermatitis	Construct ion	3	2	6	- It is recommended that all personnel working with any hazardous material adhere to the suppliers Material Safety Data Sheet (MSDS). - Where possible non- hazardous materials are to replace hazardous materials.	1	2	2



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12	Stockpiles of excavated topsoil	Excavation collapse, movement of soil, risk of burial.	Construct ion	2	3	6	Stockpiles of topsoil to located a safe distance from any excavations to ensure against collapse and the required distance from the watercourse as indicated in the planning conditions. Condition and height of stockpiles to be monitored particularly in poor weather conditions.	1	3	3
13	Use of Cranage, Plant & Machinery	Fall of materials, serious injury, Collisions, Crushing, Fumes (exhaust) etc	Construct ion	2	4	8	- Only trained & authorised personnel to operate cranes, plant & machinery. - All machinery and lifting equipment to be certified checked regularly & all defects reported and rectified. - Banksmen are to be used where necessary. - Appropriate PPE to be provided & worn when operating all machinery.	1	4	4
14	Electrical Installation	Manual handling, Pulling cables, Electrocution, Cuts & Abrasions - Grinding	Construct ion	3	3	9	- Correct PPE to be worn at all times. - LOTO operation to be used when connection to live services - Care to be taken when Pulling cables through ducts - Correct equipment to be used for pulling cables. - Installation to be carried out by competent trained personnel - All connections to be tested before made live - Installation done in accordance with BS 7671	1	3	1



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15	Mechanical Installation –	Working at height Welding Grinding Fire Burns Explosion Flashback Fumes Manual handling & lifting	Construction	3	4	12	- Only trained and competent operatives to use welding plant and grinders - All personnel to wear required PPE - As much welding as possible to be carried out at low level. - Fire Blankets and extinguishers to be at hand at all times - Wear welding shield and goggles - Gas Bottles to be secured and in upright position - For working at height, safe working equipment and safe working procedure to be adopted - Mechanical lifting equipment to be used wherever necessary	1	3	1



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