



Hazard Identification and Risk Assessment
(Including Particular Risks & Other Significant Risks)

Job Number 300794-00

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Project	TII ITS ESF Gen 2 Lot 4	Design Issue or Element	Design Risk Assessment for the ITS Equipment Supply and Installation		
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Stage	Scheme Stage		Design			Other (Clarify)		
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	Name	Hand Initial	Date	Name	Hand Initial	Date	Name	Hand Initial	Date
Designer				Shreya Dey	SD	06/02/2026			
Project Manager				Steven Wyer	SW	06/02/2026			

	Hazard	Design Mitigation measures	Other Possible Mitigation Measures (including measures by Contractor on site)	Residual Risk Assessment following mitigation measures		
				Likelihood	Severity	Risk Rating
1	Working beside Live Traffic. Risk to operatives/equipment. Risk of causing accident between public vehicles due to actions of contractor. Risk of public traffic colliding with construction traffic.	No design mitigation measures available. Preliminary Temporary Traffic Management plan produced	Contractor to liaise with Gardaí and relevant authorities in the areas of the works. Contractor to provide required protection to the works in the form of barriers, etc. Contractor's staff to stay behind barriers where possible. Contractor/PSCS to provide and implement a suitable Traffic Management Plan for the works	L	H	M
2	Site Traffic: Risk of collision between site vehicle and other operatives on site.	No design mitigation measures available	Contractor to provide required protection to the works in the form of barriers etc. Contractor/PSCS to provide Sufficient Traffic management plan for works	L	H	M
3	Risk of Electric Shock.	All equipment to be shut down/isolated before any works start. Contractor to satisfy themselves that any works undertaken are safe to do so.	Contractor to adhere to Safety, Health and Welfare at Work Regulations, HSA guidelines and ETCI guidelines. Contractor to use fully qualified personnel to carry out the works. The Contractor shall ensure full compliance with <i>Safe Electric</i> requirements. All electrical works shall be undertaken in accordance with <i>IS 10101: National Rules for Electrical Installations</i> .	L	H	M

Likelihood of Hazard occurring
L = Low (Seldom)
M = Medium (Reasonably Likely)
H = High (Certain/Nearly certain)

Severity of Harm
L = Minor Injury/Illness
M = Injury/Illness causing short term disability
H = Fatality or major injury/illness causing long term disability

Risk Assessment
L = Low Risk (No action)
M = Medium Risk (Action required unless good reason not to)
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Refer to [Arup Health & Safety Designer's Handbook](#) and Detailed Design Project Flowchart for guidance on form sign off and issue to PSDP.

Risk Table	Severity		
Likelihood	H	M	L
H	H	H	M
M	H	M	L
L	M	L	L

Hazard	Design Mitigation measures	Other Possible Mitigation Measures (including measures by Contractor on site)	Residual Risk Assessment following mitigation measures		
			Likelihood	Severity	Risk Rating
<p>Risk of accidental contact with overhead services, which may include but not limited to:</p> <ul style="list-style-type: none"> Overhead power cables Equipment affixed to gantry Signage 	<p>The site routes to identify and consider any overhead services as part of the planned sequence of works, method statements and risk assessments.</p>	<p>Contractor to assess each location prior to commencing works. If a concern exists, the Contractor shall discuss an alternative method of construction or access/egress route depending on the concern raised.</p> <p>In addition to the works area the location of overhead services shall be considered by the Contractor during traversing of plant and equipment.</p> <p>If for any reason the initially proposed method of construction or access/egress route is changed the Contractor shall repeat the process of accessing the new method of construction or access/egress route.</p> <p>Care should be taken with overhead cables to ensure that no contact is made with equipment or plant, Observance of all overhead cable during all works should be taken, ensuring that during plant or equipment moves the locations of overhead services are noted and observed.</p> <p>Detailed control measures are to be developed by the contractor to mitigate all risk to health and safety, including a planned sequence of work, provide suitable PPE & equipment to complete the works and as per the requirements of the relevant Health & Safety Regulations and: HSA Code of Practice for Avoiding Danger from Overhead Electricity Lines, May 2019</p>	L	H	M

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			Likelihood	Severity	Risk Rating
4 Working at Height	<p>It is not possible to avoid working at height in this project (given the nature of the location of the equipment). However, some aspects have been designed to mitigate this risk such as:</p> <ul style="list-style-type: none"> All hand tools, and equipment shall be kept secure to the user by means of wrist straps or tied onto the lifting equipment to ensure they do not fall to low level and possibly striking a passing person or property 	<p>All personnel working at height to wear appropriate PPE whilst having the correct training in wearing it properly (Harness). All personnel concerned to have suitable information / training provided to them on working at height and from a MEWP. All personnel on site shall be made aware of emergency plans regarding working from/with MEWPS. MEWPS, and all other equipment used on site shall be inspected to ensure they are operating correctly prior to attending site. All hand tools, and equipment shall be kept secure to the user by means of wrist straps or tied onto the lifting equipment to ensure they do not fall to low level and possibly striking a passing person or property.</p>	L	H	M
5 Biological Substances – Weil's disease bird droppings, ants or spider bites, bee stings	Contractor to ensure site staff and visitors use appropriate personal protective equipment.	<p>Safe systems of work must be put in place to minimise risk of hazard occurring. No eating, drinking or smoking on site. Operatives are to wash their hands when finishing on site and prior to taking any breaks including eating, drinking and smoking. Contractors should ensure they wash hands, forearms and face that may have been exposed to contaminated material. Contractor personnel to be mindful of the presence of any insects.</p>	L	M	L
6 Danger from site related activities.	Contractor to ensure site staff and visitors wear appropriate safety equipment and clothing. All visitors are to be always accompanied by site personnel.	Contractor to ensure only competent persons will carry out this works. Barriers and signage will be positioned to exclude persons from the area below works.	L	L	L

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7	Risk of injury (slippage / falls) due to transportation (manual handling) of tools, equipment, heavy plant.	Appropriate lifting equipment to be employed. There are no further design mitigation measures to reduce this risk.	Contractor to ensure that appropriate method statements are provided. Contractor to advise on adequate crane access (Coordination with local authorities required) All operatives must be manual handling trained.	L	M	L
8	Manual handling	Some equipment supplied in this lot will be installed manually and some will be installed by machinery.	The Contractor shall use relevant safety equipment and procedures. The contractor shall ensure that appropriate PPE and tools are utilised during the works.	M	M	M
9	Working at night (if required)	It is not possible to eliminate this requirement by design	Suitable temporary lighting to be installed, where required.	L	H	M
10	Public Access	Contractors to ensure that any works area that the public can have direct access to shall not be left unattended and have suitable barriers and signage in place around the works area to protect the members of the public and to stop them accessing the works area.	The Contractor shall use relevant safety equipment and ensure that a safe system of work is in place to minimise risk of the hazard occurring and ensuring the safety of the workers and the public.	L	M	L

Note 1: Contractor to put in place a detailed traffic management plan. Contractor to obey all road traffic laws in particular with regard to turning movements and traffic safety. Particular care is to be taken in relation to pedestrian, cyclist, and traffic movements on the public footpath and road and warning signs as appropriate.

Note 2: Detailed control measures are to be developed by the contractor to mitigate all risks to health and safety, including a planned sequence of work, and issue of suitable PPE such as high visibility vests, etc, and as per the requirements of: Safety Health and Welfare at Work Act 2005, Safety Health and Welfare at Work (Construction) Regulations 2013 and all subsequent revisions, HSA Information Sheet – Use of Mobile Machinery on Construction Sites (2008).

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