**Mini Risk Management Project for IHEC approval**

**Introduction:**

The project aims to collect foot images for a health check-up camp where participants stand on a glass plate. The primary concern is the risk of the glass plate breaking, which could lead to severe injury. The objective is to minimize the risk of glass breakage and ensure participant safety during the image collection process.

**Risk Analysis:**

Hazard Identification: The primary hazard is the potential for the glass plate to break under-weight, leading to severe foot injuries or loss of balance. Secondary risks include sharp edges if the glass shatters or falls due to instability.

Risk Scenario: If the glass plate breaks, the subject could suffer significant injuries, such as cuts.

Severity and Likelihood: The severity of injury in case of breakage is very high, but the likelihood of the glass breaking is reduced due to the selected material (tempered glass) and safety measures.

**Risk Evaluation**

**Risk Evaluation**: After implementing safety measures, such as using tempered glass with a calculated load-bearing capacity of 500kg and setting a weight limit of 200kg, the likelihood of breakage is minimized. The tempered glass is designed to distort without sharp shards, and the support bars reduce the risk of injury even if breakage occurs.

**Risk Control:**

**Control Measures**: **Tempered Glass**: Chosen for its ability to distort safely without breaking into harmful pieces.

**Load-Bearing Capacity**: The glass can withstand up to 500kg, with a safety factor of 2.

**Weight Limit**: A maximum weight limit of 200kg ensures the glass plate’s integrity is maintained.

**Support Bars**: Installed to maintain balance and provide safety in case of glass distortion or breakage.

**Effectiveness Assessment**: The measures were validated by testing with individuals up to 120kg, with no issues reported, confirming the safety and durability of the design.

**Production:**

**Monitoring**: After collecting data from each subject, the glass will be carefully monitored for any cracks or damage. Additionally, the glass will be cleaned, and all safety measures will be thoroughly checked to ensure they remain effective.