

LICENSING CONDITIONS ON THE USE OF EXPLOSIVES AND/OR EXPLOSIVES PRECURSORS FOR BLASTING OPERATIONS

1. The licensee shall ensure that all blasting operations are conducted under the direct supervision of an approved, competent and experienced blaster.
2. The licensee shall ensure that the blaster detects any misfire and clear the area of any live charge after every blasting operation.
3. Blasting operations shall be carried out only on the specified hours from Monday to Saturday as permitted by the Licensing Officer. No blasting shall be carried out on Sundays, Public Holidays or during thunderstorms unless approved by the Licensing Officer.
4. All blasting operations shall take place within the confines of the demarcated site approved by the Licensing Officer. The licensee shall ensure that the site is out of bound to all members of the public.
5. The licensee shall carry out adequate consultation with all the affected stakeholders based on the expected blasting impact including vibration and noise. At minimum, the stakeholders of any structures or services which are located within 50 metres radius of the blasting site shall be consulted. The licensee shall comply with all the conditions imposed by the respective stakeholders and authorities.
6. The licensee is required to ensure all safety precautionary measures are taken during the entire rock blasting operation. In addition, the administration and safety arrangements in explosive handling during the blasting, as submitted in the blasting proposal, must be strictly complied with.
7. Licensee must liaise with the other blasting companies, if there are other blasting works to be conducted in the same vicinity. Licensee are to ensure that these blasting operations do not overlap and the occurrence of one blasting operation does not in any way endanger persons conducting the other blasting operation.
8. The licensee shall notify the relevant Police Division whose jurisdiction where the blasting site is located via the Division Operations Room (DOR) at least two hours before the commencement of blasting for each day. There must be a written record made of the person at the Police Land Division that has been informed of the blasting. The record should include the date, time and identities of the persons who transmitted and received the blasting notification.
9. The licensee is required to put up two red flags (at least 62 cm x 92 cm) and standardised signboards with clear prints in 4 languages informing that there is 'Blasting in Progress' and 'Danger Keep Out' to adequately warn the general public of the intended blasting.
10. Red and white tapes shall be used to demarcate the 'Keep Out' areas in order to prevent any accidental intrusion into the area.

11. The area within the danger zone shall be evacuated of all personnel, vehicles and equipment to a safe distance before commencement of the actual blast. Prior to any detonation, the licensee shall ensure a headcount is conducted to confirm that all employees and authorised persons are fully accounted for and in a safety zone.
12. Siren shall be sounded to clear all persons from the blasting area and to warn all persons outside the danger area of blasting operations in progress.
13. All entries leading to the blasting site shall be closed during the blasting time and routes into the site are to be sealed off prior to the blast.
14. Auxiliary Police Officers (APOs) must be engaged to man all tracks and roads junctions leading to the blasting site on the date and time of blasting.
15. All precautionary measures must be taken to reduce air blast noise and to prevent rocks from flying during each blast operations.
16. After laying the explosives, the actual blast area shall be covered with soil as over-burden and blasting mat to prevent fly rocks from the blast.
17. All loose stone scattered at the blasting site are to be removed prior to each blast.
18. Licensee shall take all the necessary and adequate precautions during blasting and shall be responsible for any damage to nearby water-mains, public roads, sewer roads, sewer pipes, and cables, manholes, gas-mains including public or private properties caused directly or indirectly by the blasting.
19. Licensee will undertake to cover any property damage or bodily harm due to the blasting operation, by the project insurance's The Builder's Risk and Third Party Liability.
20. Licensee shall ensure the vibration resulting from the blasting does not exceed a Peak Particle Velocity (PPV) of 15mm/s to any nearest structure from the blasting site.
21. Vibration reading is required to be taken at any structure of interest located within 50 metres of the blasting location upon request by the stakeholder.
22. The vibration report must be submitted to Police Licensing & Regulatory Department and stakeholders upon completion of each blasting operation.
23. The licensee is required to notify the Police Licensing & Regulatory Department (PLRD) upon completion of the entire blasting project.
24. The licensee shall immediately notify the Licensing Officer and the relevant Police Land Division of any security or safety related incident arising from the blasting operations.
25. The Licensing Officer may impose additional conditions on the licensee, if deemed necessary on security and safety grounds.

26. The Licensing Officer may order the suspension or revocation of the blasting licence if the licensee fails to comply with the above-said conditions and / or the provisions of the Arms & Explosives Act, Chapter 13.