IN DEPTH

IHL and the Use of Explosive Weapons in Populated Areas

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The use of explosive weapons, such as bombs and artillery shells, is a feature of modern urban warfare that produces a consistent pattern of humanitarian harm. This pattern, which the Syrian conflict has thrown into sharp relief, is characterized by the direct injuries and deaths an attack with explosive weapons causes as well as the indirect effects that flow from civilian casualties and damage to civilian infrastructure, including displacement. In order to protect civilians, International Humanitarian Law (IHL) already provides a framework that constrains the circumstances in which explosive weapons can be used in cities and towns (1). Continued use of explosive weapons in populated areas, often in violation of IHL, illustrates the urgent need for coordinated international action to curb use. As a result, civil society groups are calling on states to make a political commitment to protect civilians from the use of explosive weapons in populated areas and this call is increasingly resonating among international policymakers (2).

IHL is a field of international law that applies in situations of armed conflict, either within one state or between states, and is made up of rules, contained in treaties and custom, that govern conduct in war. IHL’s overriding concerns are to limit the “methods and means of warfare” warring parties may employ during an armed conflict (for example, by limiting parties’ choice of weapons) and prioritize the protection of civilians. IHL rules that are particularly relevant to the use of explosive weapons in populated areas include the principle of distinction, the principle of proportionality in attack, and the requirement to take all feasible precautions to avoid civilian casualties.

The principle of distinction requires that warring parties distinguish between combatants and civilians, and between civilian objects, such as schools and hospitals, and
“military objectives.” (3) Imagine the scenario of a military commander who is considering whether she can attack an enemy ammunition storage facility (located inside a town) with explosive weapons. First, she has to assess whether the facility is a military objective. If it is not, it is a civilian object and cannot be attacked. To determine whether the facility is a military objective, she must: consider the facility’s nature, location, purpose, and use; assess whether the facility is making a contribution to the enemy’s military action; and gauge whether the facility’s destruction would offer her side a military advantage (4).

Bearing these factors in mind, if she determines that the facility is a military objective, she must then evaluate how the principle of distinction applies. When an attack violates the principle of distinction, it is characterized as an “indiscriminate attack.” IHL prohibits indiscriminate attacks (5). These include attacks that are not directed at specific military objectives: in the scenario above, if the commander knew that ammunition was being stored somewhere in a town, but did not know where, an attack on the town with explosive weapons that lacked a specific military objective would be indiscriminate. Area bombardment – the bombing of an entire city, city block, or town – is a particularly egregious example of an indiscriminate attack involving explosive weapons.

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Indiscriminate attacks also include those involving weapons that are not capable of being directed at the military objective. If the ammunition storage facility is a small building surrounded by apartment buildings occupied by civilians, a variety of explosive weapons would not be appropriate to use. For example, dropping large unguided aircraft bombs on the facility would likely violate the principle of distinction: characteristics of the weapon – that it is unguided and causes a large zone of blast and fragmentation that extends beyond the small ammunition facility – mean the attack
would damage civilian objects and military objectives (and potentially cause casualties) without distinction.

The principle of proportionality in attack means that before launching an attack, the warring party must weigh the harm that the attack is expected to cause to civilians or civilian objects against the military advantage the party expects to gain (6). The attack cannot be launched if the expected harm to civilians would be excessive in relation to the anticipated military advantage. With explosive weapons, both the direct and indirect effects of the attack must be assessed. Imagine a new scenario, in which a military commander is weighing up whether he can attack a power station with a range of explosive weapons, including mortar bombs and artillery projectiles. The power station supplies power to a nearby enemy military base, but it is also the exclusive supplier of power to a city of 100,000 people. In this case, disabling the power station could be expected to offer a military advantage, but the harm to civilians and civilian objects would be significant. Not only would essential services be disrupted – possibly indefinitely – by the lack of power, but explosive remnants of war, such as unexploded shells, would also pose an ongoing risk of harm to the civilian population into the future. Reverberating effects, including displacement, could result.

IHL requires that warring parties take “all feasible precautions [...] to avoid, and in any event to minimize, incidental loss of civilian life, injury to civilians and damage to civilian objects.” (7) In the first scenario, if the ammunition storage facility were located instead in an industrial area and surrounded by factories that operated only during the day, a military commander could take the precaution of launching the attack at night when the risk of civilian casualties would be lower. In the second scenario, instead of using explosive weapons, the military commander could strive to minimize the effects on civilians by using carbon fiber bombs aimed at temporarily disrupting the power supply rather than fully disabling the facility. Different military commanders may interpret the requirement to take “feasible precautions” in distinct ways: some commanders may decide never to use certain types of explosive weapons in urban settings because of the risk of significant civilian harm; other military commanders may consider that no type of explosive weapon is per se unacceptable to use in an urban setting (unless there is a specific treaty provision that bans its use).
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Nonetheless, under the IHL rules described, it is difficult to imagine circumstances in which an attack on a populated area with certain types of explosive weapons that have particularly problematic characteristics could be considered legal. For example, the use in a densely populated town of unguided rockets that contained multiple explosive weapons that spread across a large area would likely breach the principle of distinction and constitute an indiscriminate attack, because the rockets’ effects could not be sufficiently confined to the military objective. The attack could also conceivably cause excessive harm to civilians and civilian objects, breaching the principle of proportionality in attack, by damaging or destroying vital infrastructure and producing significant civilian casualties. The decision to use unguided rockets instead of more targeted weapons could likewise be in conflict with the requirement to take feasible precautions. As this example illustrates, instances of the use in populated areas of explosive weapons with characteristics that are sometimes called “wide area effects” – weapons that generate a large zone of blast and fragmentation, have inaccurate delivery systems, and/or deliver multiple explosive weapons – are more likely to fall on the unlawful end of the spectrum.

A political commitment would help to better protect civilians from the use of explosive weapons – particularly those with wide area effects – in populated areas. Because there is no treaty that specifically regulates the use of explosive weapons in populated areas, the general rules of IHL provide the main frame for assessing legality. As there is scope for different interpretations of these rules and how they apply in particular circumstances, a political commitment could increase clarity around the standards warring parties should strive to meet in relation to the use of explosive weapons in populated areas. A political commitment could also reinforce the importance of observing existing IHL rules and further stigmatize using explosive weapons in cities and towns. In addition, a political commitment could help to raise awareness about the problem and generate momentum for further measures to reduce humanitarian harm. The use of explosive weapons in populated areas is a phenomenon that demands urgent international attention.
1. It should be noted that International Human Rights Law also applies during armed conflict, to the degree that its rules complement and do not conflict with IHL rules. This article does not address the relationship between the use of explosive weapons in populated areas and International Human Rights Law and nor does it discuss disarmament treaties that have a bearing on the issue.


5. Ibid, Rule 11.
