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Heading Towards Strategic Instability

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(The editorial is based on the article “Heading Towards Strategic Instability” which appeared in The Hindu for 31st January 2019. In this editorial we’ll see whether India is ready for new-age challenges to national security or not.)

In order to address the new-age challenges to national security, the government decided to set up three new agencies — the Defence Cyber Agency, the Defence Space Agency and the Special Operations Division in late 2018.

While this is indeed a useful step in the right direction, it is also important to note that the constitution of these agencies is a far cry from the crucial recommendations given by the **Naresh Chandra Task Force (The 14-member task force was headed by Naresh Chandra to make suggestions for implementation of major defense projects)** and the Chiefs of Staff Committee, both of which had suggested the formation of three separate joint commands to deal with new challenges to India’s national security in the cyber, space and special operations domains.

This is considered as a rather dull response to major ‘futuristic’ challenges to our national security raises a larger question: is India adequately prepared for the new age wars in general or is it still preparing for the last war it fought, and won?

Present World Scenario

- **There is a revolution in military affairs** that seems to have attracted the attention of strategic analysts and policy planners across the world.
- **The current focus in military thinking across the world is increasingly moving away from traditional heavy-duty military hardware to high-tech innovations such as artificial intelligence (AI), big data analytics, satellite jammers, hypersonic strike technology, advanced cyber capabilities, and spectrum denial and high-energy lasers.**
- In the light of the unprecedented capabilities that these systems offer, there is also an increased focus on developing suitable command and control as well as doctrinal

concepts to accommodate and calibrate them.

- **The arrival of these technologies might deeply frustrate strategic stability given their disruptive nature.**
- Strategic stability in the contemporary international system, especially among the nuclear weapon states, depends on several age-old certainties, the most important being the issue of survivability of a state's nuclear arsenal and its ability to carry out a second strike after a first attack.
- Once accuracies get better, hypersonic glide vehicles replace conventional delivery systems, real-time tracking and surveillance make major strides, and AI-enabled systems take over, survivability of nuclear arsenal, which lies at the heart of great power stability, could take a severe beating.
 - **For Example** - An assumption that the naval leg of a nuclear triad is the most survivable part since it is hidden away in the depths of the ocean away from the adversary's gaze. However, the potential ability of deep-sea drones to detect ballistic-missile armed nuclear submarines or SSBNs may make this assurance a thing of the past thereby frustrating traditional calculations.
- If we add the arrival of these new technologies to the emerging strategic competition among great powers, the U.S.'s withdrawal from the Intermediate-Range Nuclear Forces treaty is perhaps an indication of a potential arms race in the offing.
- **Disruptive new technologies, worsening relations between Russia and America and a less cautious Russian leadership than in the cold war have raised fears that a new era of strategic instability may be approaching.**

Challenges

- **There is an inherent paradox vis-à-vis high technology-enabled military systems.**
- **While on the one hand, it is imperative for states to redesign their systems in the light of these new technologies, especially the digital and cyber components, this also makes the cyber- and digital-enabled systems vulnerable to cyber attacks.**
- Given that such indirect attacks might take place in the early stages of a conflict, ensuing confusion and scare might lead to an uncontrolled escalation with little time for assessment and judgment.
- The biggest fear about these technologies, the implications of which we don't fully understand yet, is their potential to increase the risks of intentional and inadvertent nuclear use.
- Such scenarios may be unlikely but not improbable. Both China and Russia fear that new American long-range non-nuclear strike capabilities could be used to deliver a disarming attack on a substantial part of their strategic forces or decapitate their nuclear command and control.
- Although they would still launch their surviving nuclear missiles, improved missile-defense systems of the U.S. would mop up most of the remainder before their

warheads could do any damage.”

- **The fear of a bolt-from-the-blue attack against one’s command and control systems or a disabling strike against strategic arsenal using new technological solutions is likely to dominate the strategic mind space of great powers in the days ahead, thereby further deepening mistrust and creating instability.**
- Therefore, the possibility of emerging military technologies prompting inadvertent escalation and conflict cannot and should not be ruled out.
- China has emerged as a key actor in the field of emerging military technologies. This is something that will concern New Delhi in the days ahead.
- Some analysts believe that Beijing is in the lead position in emerging technologies with potential military applications such as quantum computing, 3D printing, hypersonic missiles, and AI.
- **If indeed, Beijing continues to develop hypersonic systems, for instance, it could potentially target a range of targets in the U.S. While the Chinese focus is evidently on U.S. capabilities, which China interprets as a potential threat, this is not without latent concerns for New Delhi. India might, in turn, consider developing some of these technologies which will create dilemmas for Islamabad.**

Way Forward

- There is a need to ask how survivable India’s naval platforms are given the feverish developments of advanced sensory capability in the neighborhood. Is it sufficiently prepared to face the new age wars? Has the urgency associated with these technological developments dawned on the security planners in New Delhi? It is in this context that we must revisit the government’s decision to set up the agencies to address cyber and space challenges.
- **Clearly, this is a timely effort from the government to have finally decided to set them up — though they are not yet in place.** Also, it is unfortunate that unlike what was envisioned earlier, these agencies will be reduced in their powers and their standing in the pecking order of defense planning in the country.
- **For example, reports indicate that the Space Command will be headed by the Air Force, the Army will head the Special Operations Command, and the Navy will be given the responsibility of the Cyber Command.** If indeed that happens, their effectiveness in terms of tri-service synergy will be much less than anticipated.
- **Even more so, given that the higher defense decision-making in the country is still civil services-dominated, despite the recent attempts to correct it, the effectiveness of these agencies will remain weak.**