



# Indian Communications Green Base Station Gate





## Overview

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What is India's first chip-based 4G mobile base station?

In a historic move towards self-reliance in communication technology, the Indian Army has inducted its first-ever indigenous chip-based 4G mobile base station. This milestone achievement was made possible by Signaltron, a Bangalore-based company, which developed and supplied the Sahyadri LTE base stations.

Why do Indian base stations use indigenous chips?

The majority of base stations currently deployed in India rely on foreign-made chips, making Signaltron's achievement particularly noteworthy. Using indigenous chips enhances the security and control over the system, a critical factor in defense communications.

Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

What is a green communication initiative?

The green communication initiative primarily aims to improve the energy efficiency, reduce the OPEX, and eliminate the GHG emissions of BSs to guarantee their future evolution [ 2, 3 ]. Cellular network operators attempt to shift toward green practices using two main approaches.



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### Indian Army Inducts First Indigenous Chip-Based 4G Mobile ...

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The induction of indigenous 4G base stations enhances India's strategic autonomy. Dependence on foreign technologies can pose risks to national security, especially in critical ...



### [Indian Army Inducts First-Ever Indigenous 4G ...](#)

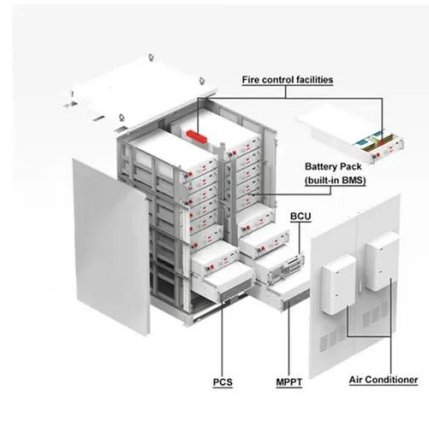
The Indian Army had posted a bid for a 4G LTE NIB solution, and Signaltron's proposal stood out in stringent technical trials. The ...

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NIB, weighing just 7 ...



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## Green and Sustainable Cellular Base Stations: An Overview and ...

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## Evaluating the Environmental and Health Impacts of 6G ...

6G base stations are projected to consume 2- 3 times more energy than 5G, significantly increasing carbon footprint if mitigation strategies are not implemented.





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"This is the first time an Indian system running on an Indian chip for complex communication technology has been inducted into the army," Khasnis ...



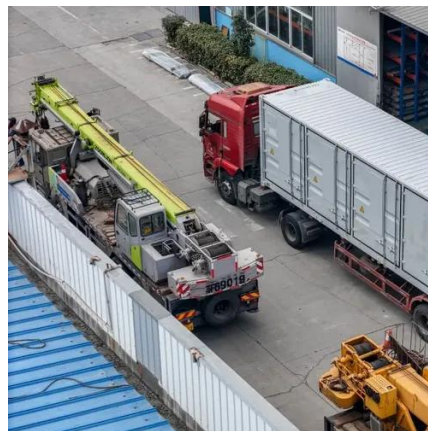
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### Solar Powered Cellular Base Stations: Current Scenario, ...

Cellular base stations powered by renewable energy sources such as solar power have emerged as one of the promising solutions to these issues. This article presents an overview of the



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### (PDF) Cellular base Station and its Greening ...

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## Contact Us

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