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Title: Regarding restrictions on high rise buildings near Santa Cruz Airport, Mumbai.

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SHRI RAHUL SHEWALE (MUMBAI SOUTH CENTRAL): Air safety is critical to the national security and economy. Estates around airports have become scarce, valuable resource for industry. Large airport projects such as new runways at Mumbai, Delhi and other upcoming new airports demonstrate the conflict potential between urban planning and air traffic operator's interests. The Slum rehabilitation projects require vertical space to utilize the FSI granted to make the projects viable. Due to increasing cost of land and the new DC Regulations restricting horizontal expansion, going vertical is the only option. But the Airport regulations laid out in GSF 751 (E) by MOCA have not taken into account the growing need for vertical space for meeting the mission of 'Housing for all'. For that a proposal is required to create an accurate, intelligent electronic database, 2D-3D database of buildings/obstacles around 10km of Santa Cruz Airport in Mumbai using high resolutions satellite imagery to establish the current density of buildings along with their existing heights for better planning and intelligent decision making. This eTOD shall portray the terrain and obstacle data in combination with aeronautical data, as appropriate on a secure web application. A prototype can be viewed on: <http://www.prithvipraroop.net>. Regarding the Instrument flight procedures in Mumbai, we might maybe have a look to steeper approach going from 3° up to 3.2° or 3.3°. Several airports in the world have these kinds of trajectories and it might provide better clearance. Also there is a need to expedite PBN implementation which provides more accurate guidance for minor investment (as India already have its own SBAS coverage with GAGAN). It might be a good solution to equip RWY14/32 with vertical guidance without investing in a costly ILS.

Needless to say I would like to suggest that steps be taken in this regard beginning with Mumbai, which is currently having the maximum number of problems in terms of restriction on high-rises due to increasing Air traffic density at Santa Cruz Airport.