



Civil Aviation Authority of Bangladesh-  
Air Traffic Management Division  
Headquarters, Kurmitola, Dhaka-1229  
www.caab.gov.bd

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## Office Circular

### Summary of Obstacle Clearance of all Airports in Bangladesh

- A) **Transitional Surface:** Extend up to 320 m or 1050 ft. from the end of Runway strip.  
Height Ratio is 1:7 and  
Maximum allowable Height 45m or 150 ft
- B) **Inner Horizontal Surface:** Extend up to 4km or 13000 ft. from the end of Runway strip.  
Height Ratio is 1:7 and  
Maximum allowable Height 45m or 150 ft
- C) **Conical Surface:** A surface slopping upwards and outwards from the periphery of the inner horizontal surface, Extend up to 2km or 7000 ft. from the end of Inner Horizontal surface  
Height Ratio is 1:20 and  
Maximum allowable Height 145m or 500 ft
- D) **Outer Horizontal Surface:** A surface extending from the edge of the conical surface for a distance of 9km or 9000 m and from the aerodrome reference point (ARP) 15km or 15000m (radius).  
**Maximum allowable height 500ft**
- E) **Inner Approach Surface:** This surface is commenced from end of runway and extended up to 900m within first section of approach surface.  
**This surface is obstacle free zone**
- F) **Obstacle Free Zone:**  
The inner approach, inner transitional and balked landing surfaces are obstacle free zone. These surfaces shall be kept free from all fixed objects.
- G) **Approach Surface:** An inclined plane or combination of planes after the threshold of a runway.
- i. **First Section:**  
Extend up to 3km from the end of runway  
Height Ratio is 1:50 up to 3km  
Maximum allowable height 45m or 150 ft up to 4km



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- ii. **Second Section:**  
Extend up to 3.6km from end of first section  
Height Ratio is 1:40 up to 3.6km  
Maximum allowable height 145m or 500 ft
- iii. **Third Section:**  
Extend up to 8.4km from end of second section  
Maintained height 145m or 500ft

**Note:** (i) 2% slope shall start leaving 3000 feet from the end of runway-14 and 2200 feet from the end of runway- 32 for HSIA, Dhaka.

- H) To protect radar signal from interference of obstacle and to get clear RADAR picture the maximum permissible height shall be

Centering Radar Antenna	Maximum Allowable Height for HSIA	Maximum Allowable Height for SAIA	Maximum Allowable Height for BAF Radar
Up to 300m	30m	21m	26m (85ft)
300m – 1000m	35m	26m	26m (85ft)
1000m- 2000m	Basic OLS	Basic OLS	39.6m (130ft)
Beyond 2000m	Basic OLS	Basic OLS	Basic OLS

The lesser shall be considered as permissible height between OLS height & Radar protection height.

- I) The construction of buildings in the Nikunja (South) residential project area, from the road beside Rajuk lake adjacent to airport road to 120 feet into the area shall be limited to a maximum of three stories (including staircase, water tank, lift, antennas etc) with a height of 30 feet in the north east and 41 feet in the south west section. (Ref: Rajuk/ No: Pa:/5-305/531 date:10/12/09)
- J) To calculate OLS height, the length of the runway strip shall be extended up to 500 feet from the end of runway for HSIA and 200 feet for the rest of the airport runways. And width of the runway strip shall be considered 140m or (460 feet) both side of the runway centre line for all airports except Tejgaon and Cumilla Airport. For Tejgaon and Cumilla Airport width of the runway strip shall be considered 250 feet from the centre line of the runway.

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