

strength of 50. The height of the plinth should be above water level of the locality during the rainy season. Column structure is not required for a toilet complex in rural areas. However, if the overhead tank has to be kept on the roof slab of the latrine, the corresponding load bearing walls should be minimum 10 inches thick. Washbasin and mirrors should be provided in the toilet in order to develop personal hygiene practices among students. Partition walls are not required for urinals set up in schools up to upper primary level. In middle and high schools, hanging partitions of 3 ft height may be provided. Every school should form a committee to look after students' personal hygiene and sanitation such as regular nail cutting, maintenance and cleanliness of school toilets, awareness about the use toilets, etc. While designing a school toilet, the following points should be taken into account:

School Toilet Design: Salient Points

1. Site selection for the toilet unit should be done in consultation with the teachers and students of the school concerned.
2. A toilet should have a double leach pit with an inspection chamber and the gap between two pits should be minimum 1 mt. (3ft to 4 ft)
3. The inside of an inspection chamber should be 1 ft X 1ft with a clearance of 9 inches excluding the depth of the drain.
4. There should be a separate soak pit for the urinals and it should have a water seal trap.
5. Size of the leach pit should be minimum 4 ft. in depth and 3 ft. in diameter.
6. There should be a water tank of the size 2 ½ ft X 3 ft X 2 ft (approx.) adjoining the toilet block.
7. There should be sky lights made with cement jali of size 1 ft X 1 ½ ft on three sides of the toilet wall for proper ventilation and light.
8. Toilet door (made with iron frame and GI sheet), should be fixed one inch above the floor level and 2 inches below the lintel doorframe.
9. There should be separate latrine units for girls and boys in all the schools, especially in high schools.
10. Walls of the girls' urinals of upper primary and high schools must be adequately raised; it should be about 6ft high for the privacy of girls.
11. There should be adequate number of urinals depending on the strength of students.
12. For the privacy of the girls, the urinal should have an L shaped wall with a grill door attached to it.
13. In girls' residential schools, there should be provision for bathrooms along with latrines.
14. In residential schools, mirrors should be fixed on the wall of the bathroom.
15. Tiles should be fixed on the walls up to a height of at least 3 ft in case of boys' urinals and 1ft in case of girls' urinals.
16. Tiles should be fixed on the floor of latrines and urinals.
17. A ceramic foot rest should be fixed for both girls and boys urinals.
18. The slope of the gutter of the urinal should be of 1:10
19. The urinal drain should be of half round UPVC (ISI) 4 inches diameter pipe with a floor slope of 1:10. The edge of the half round channel should be flush with the edge of the floor tile.
20. No vent pipe should be fixed either in the junction chamber or in the leach pit.
21. Hand washing facilities should be provided / constructed near the water tank.
22. The pan of the latrine should be preferably rural/ceramic which is slanting in shape.
23. The urinals should be connected to the soak pit and not to the leach pit.
24. Leach/soak pit of the latrine and urinal should be 15 meter away from the drinking water source (specially open wells). House, if space is not available the distance may be reduced a little, but in no case it should be less than 10 mt.
25. Leach pit / soak pit should be covered with RCC slab of 2 inch thickness.
26. Masonry work should be done properly.

