

# **Access Audit of LBSNAA**

**Mussoorie**

carried out by **Access Ability**

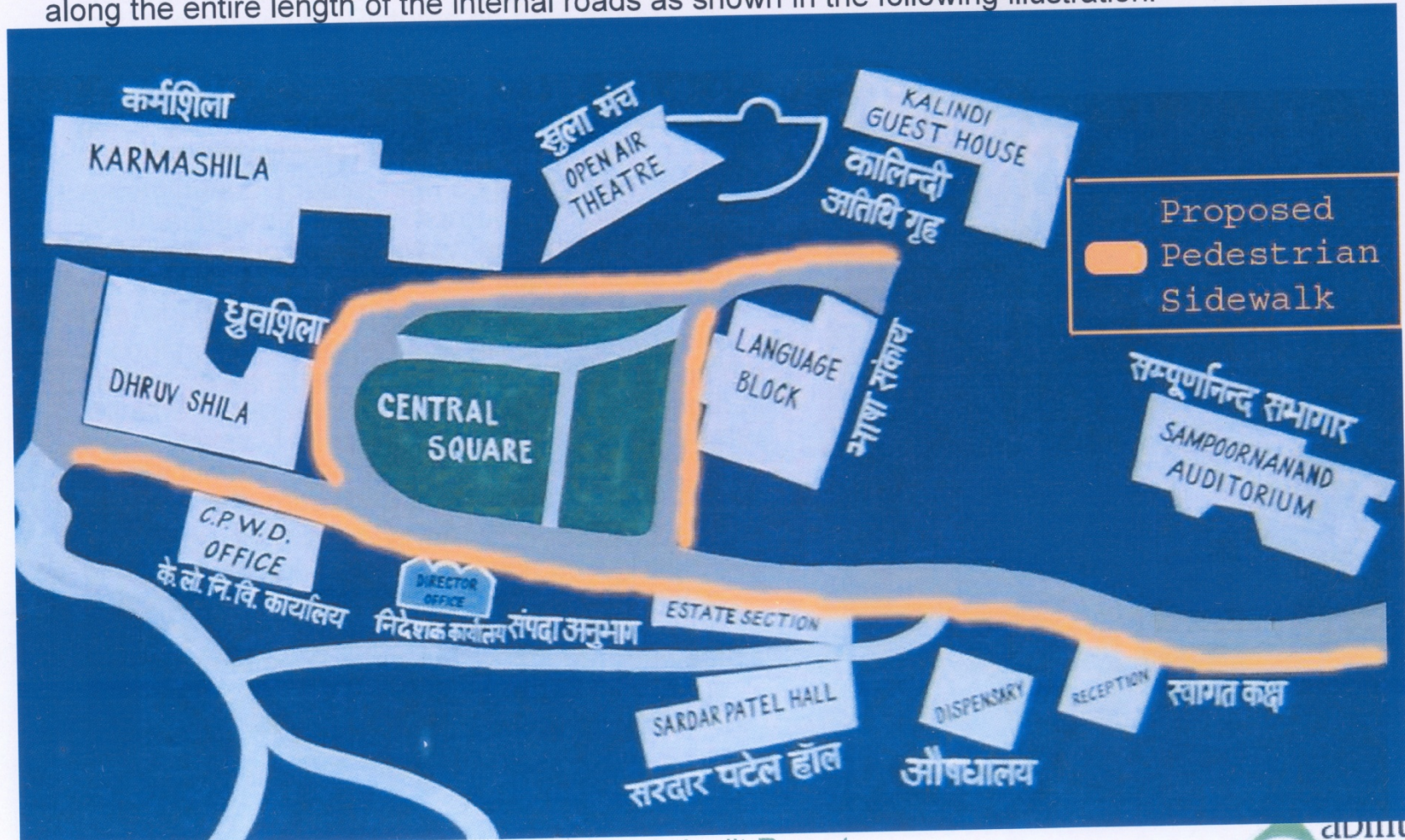
**in 2008**

# Pedestrian Circulation

- Pedestrian circulation area is not segregated from the internal road. This is a hazard for persons with disabilities.

## Recommendations:

- It is recommended that a 1800mm wide (minimally 1500 wide) pedestrian sidewalk be constructed along the entire length of the internal roads as shown in the following illustration.



# Entrance

- There are 1+3 steps at the entrance that are accompanied with handrails.
- The 3 steps are bypassed by a steep ramp that:
  - has a gradient of 1:4,
  - provides a clear width of only 900mm
  - does not stand out from the rest of the flooring
  - has slippery flooring

## Recommendations:

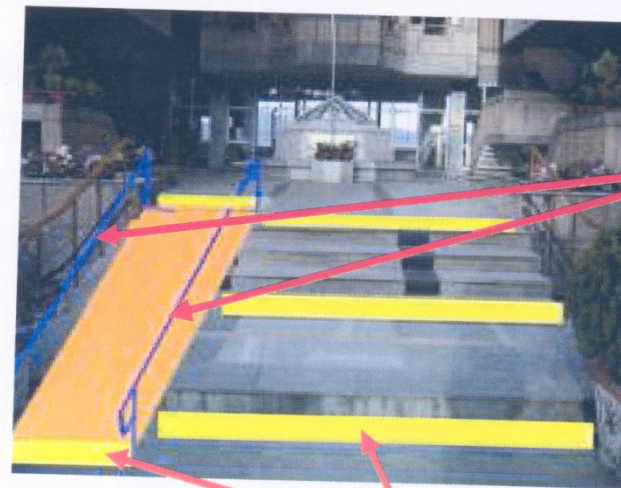
1. Designate an accessible car parking bay next to the Dhruvshila complex for use of disabled driver/passengers. Design guidance for accessible car parking bay are given in annexure.
2. Construct a 1200mm wide ramp\* to bypass the first step (160mm high).
3. Refurbish the existing ramp\* (over the 3 steps) as illustrated in the adjoining picture, so that it :
  - has a maximum gradient of 1:12;
  - has a minimum clear width of 1200mm;
  - has tactile warning blocks at the beginning and the end
  - has handrails on both the sides
  - the flooring is non-slip and contrasts in colour from rest of the flooring.
4. Install tactile warning blocks at the beginning and end of the steps at the entrance.

\* Design specifications for ramps and stairs have been detailed in annexure.

## Existing:



## Proposed:



Handrails

Tactile Warning Blocks

# Toilets (Level: -1) ...contd.

## Common Recommendations for Ladies and Gents Toilets (Room no. 46 & 47):

- Create appropriate knee recess of 750mm height x 750mm width x 500 mm depth for wheelchair users to access the wash basin counter by:
  - Removing the wooden cabinets under the counter; and
  - Reducing the thickness of the counter slab
- Lower paper towel dispenser and towel rod so that these are no higher than 1100mm from the furnished floor surface.



\* Design specifications for wheelchair accessible washbasin are detailed in annexure

# Library (Level 1) ...contd.

## Book Stacks:

- Although most book racks are adequately spaced, but it is difficult for all persons with mobility impairments to access books from the lowermost or uppermost stacks. It is therefore recommended that an assistance service be provided by the library staff to retrieve books for persons with mobility impairments.

- It is recommended that each stack should have information of the books subject and catalogue number in large print as well as in Braille. This information should be placed between 1400 - 1700mm on the stack, as shown in the picture on the right side. This will benefit persons with vision impairments in locating books.

## Existing Stack Information System



## Proposed Braille Information



# Entrance Lobby (Level: 0)

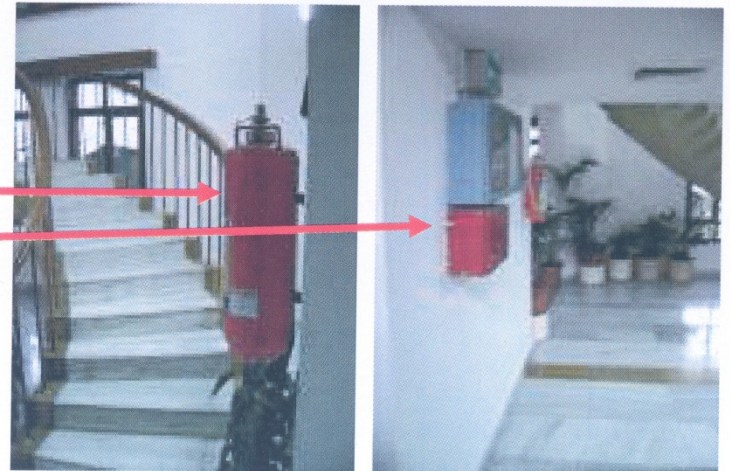
## Spiral Stairs:

- The under-stair area under the spiral staircase to be covered or be cordoned off.
- The ends of the handrails should either be rounded or be grouted in wall/ floor
- Add nosing on each step in a colour that contrasts from the risers and treads



For the benefit of persons with vision impairments:

- Change the colour of the walls so that these contrast against the white marble flooring
- The fire extinguishers in the circulation path, that project under a height of two metres from the furnished floor level are a hazard for persons with vision impairments. It is therefore recommended that these either be recessed in the background wall or be moved out of the general circulation pathways.
- Glass doors leading to the office lobby should have manifestations.



# Conference Hall (Level: 1)

- The table does not stand out against the wooden flooring and therefore, can be a hazard for persons with vision impairments. It is recommended that the colour of table and chairs should contrast from the flooring.
- The table has a 60mm foot rest that may impede wheelchair proximity to the table for some wheelchair users. This should be removed from at least one seating space.



# Auditorium

- The internal steps in the auditorium are covered with the same carpet as the rest of the flooring and are therefore difficult to be distinguished from the flooring.
- Access to the stage (height: 920mm) is through a set of 6 steps. There is not enough space available to retrofit a ramp to bypass the existing steps.
- Circulation aisles and steps (at the rear half) are covered with the same carpet as the rest of the floor, and are therefore difficult to be distinguished by persons with vision impairments.
- The steps at the rear entrance do not have any handrails.
- The auditorium does not have any facilities to include persons with hearing impairments.
- There are no wheelchair seating spaces in the auditorium

## Circulation Aisle:



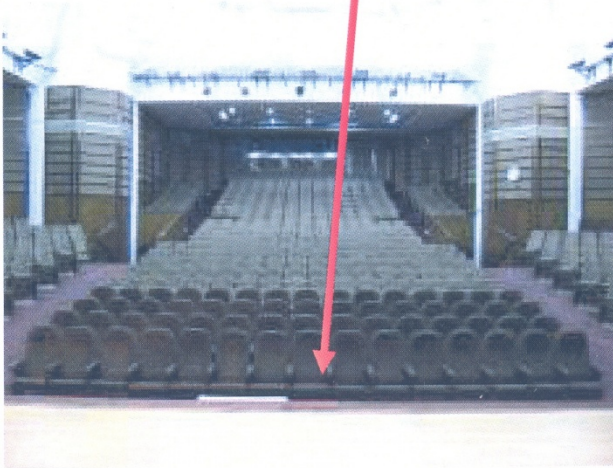
## Existing internal stairs:





# Auditorium - Recommendations

- Install an Induction loop system for the benefit of persons with hearing impairments.
- Add contrasting nosing and handrail at appropriate places on the internal steps as well as along the edges of the circulation aisles. An option is to use LED strips as nosing (as illustrated in the following pictures)
- Wheelchair seating spaces should be created by removing a few chairs from the first row.



## Proposed LED Nosing & Handrails



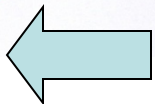
# Auditorium - Access to the Stage

- Sufficient space is not available to replace the five steps leading to the stage with a ramp. Therefore, it is recommended to replace the stairs on one side with a Wheelchair Platform Lift (see adjoining pictures on the right hand side)



Proposed Platform Lift

# Examples of Wheelchair Platform Lift



# Delhi Metro Success Story



# Delhi Metro Success Story

- Labels printed in braille in the lifts to indicate floors
- Elevator control buttons positioned at heights that are accessible to wheelchair users
- Grip rails on the the sidewalls of the elevator car
- Wide doors for lifts
- Ramps at the entrance of every station
- Adequate landing space at the start and end of every ramp
- Reservation for employment of physically challenged

# Delhi Metro Success Story

- Accessible toilets on every floor
- Handrails inside toilets
- Well lit corridors for persons with visual impairments
- Ticket gate exclusively for disabled passengers
- Tactile tiles on all common passages
- Tactile warnings for abrupt change in height or near hazardous areas
- Audible warnings and announcing devices wherever possible

Disabled users can go to the Kashmere Gate station (West End) near Mori Gate Bus Terminal at 10 a.m. on any Wednesday for an orientation.

