

**National Institute of Speech and Hearing (NISH):  
Comprehensive Accessibility Audit Report  
2018**

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NISH  
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## **Introduction**

Mr Sandeep, ISL trainer was sick and slept off in the sick room. As he did not wake up even after repeated banging of door, messages, phone calls, he was left alone in NISH, Next day while asking for a solution, he suggested a cheap one. A vibrator under the cot and a switch outside the room. Thus accessibility was made one of the agendas of **12th IQAC** held on May, 17, 2018. It was decided to entrust Samarthyam, National Centre for Accessible Environments, a National Level organisation for undertaking the process. Thus NISH initiated the process of conducting accessibility audit. Accessibility is one of the major thrust areas of the RPwd Act 2016. The two days extensive programme include Accessibility audit of the campus, creating awareness on Universal Accessibility, Interactive sessions among the Accessible consultants, NISH Personnels and Students.

## **Scope of the Audit**

The audit will look into the following aspects:

- Universal Accessibility Features
- Safety & Security measures
- Gender Perspective
- Age friendly accessible environment

## **Objectives of the Audit**

- To evaluate the existing infrastructure, connectivity, mobility issues, mode of communication, Pedestrian Accessibilities and Safety & security measures in and around the campus
- To evaluate the usage of existing amenities
- To make recommendations for improving the existing situation

## **Floor areas of all the 3 buildings**

1 - 6539 m2

2 - 4571.89 m2

3 - 769.32 m2

## **Methodology**

**Look through the eyes of all users!**

Holistic Approach- Walk-in-audit

Conducted Walk audit which is facilitated walk with an interdisciplinary Team consisting of External Audit Consultants, Engineers, Admin Personnel, Social Worker, Documenting personnel, Person with Hearing Impairment and one interpreter.

| Location  | Problem  | Recommendations  | Solution   | Status, Marked by   |
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| <b>From Entrance to Marigold/Thejus</b>                               |  |  |  |   |
| Road outside NISH campus  | No traffic signal or zebra crossing.                             | Pedestrian-controlled traffic signal, Signages indicating 'Disability-friendly zone'.  | 1. Installing Pedestrian-controlled traffic signal, Signages indicating 'Disability-friendly zone'   | Soja <ul style="list-style-type: none"> <li>• Statutory requirements?</li> <li>• Accident prone area..</li> <li>• Speed breaker</li> <li>• Will make arrangement for Handrail and pathways from dept.</li> <li>• Rate??</li> <li>• Traffic signal?will check with engineer</li> </ul> |
| Entrance to NISH : <a href="#">Photo 1</a><br><a href="#">Photo 2</a> | The slope is too steep. There are two levels, drainage openings. | There should be a single, gentle slope (1 in 15 max). No gaps and no level differences.<br><br>Tactile warning tiles before and after the pedestrian gate. | 1. Easing the gradient by providing cement and concrete.<br>2. Place tactile warning tiles at 300 mm before and after the pedestrian gate. | Provided <ul style="list-style-type: none"> <li>• Get permission from pwd for road ..?</li> </ul>   |

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| <p><a href="#">ATM at NISH gate</a></p> | <ol style="list-style-type: none"> <li>1. Two unequal and high steps, with less tread width.</li> <li>2. No ramp for wheelchair access.</li> </ol> | <p>1. A straight ramp will go on to the road. So, there are 2 options:</p> <ol style="list-style-type: none"> <li>(1) Lower ATM flooring and then provide ramp</li> <li>(2) OR L-shaped ramp (5 metre long, 1.5m wide) with a landing space of 1.5x1.5m , with hand-rails</li> </ol> <p>2. Door should provide clear opening of 900mm minimum.</p> <p>3. Markings on the glass panel needed at 900mm and 1500mm level to avoid ppl with low vision walking into it.</p> <p>4. Tactile warning tiles at the beginning and end of ramp.</p> | <ol style="list-style-type: none"> <li>1. Since lowering the ATM flooring will not be possible, L-shaped ramp is the better option. Give landing space of 1.5x1.5m and then extend ramp with width 1.5m and slope of 1:15 maximum. Ramp will go beyond the compound wall of NISH, which has to be demolished and reconstructed. Continuous hand-rails on both sides of the ramp at two levels - 760mm and 900mm.</li> <li>2. Door with clear opening of 900mm minimum.</li> <li>3. Markings on the glass panel needed at 900mm and 1500mm level to avoid ppl with low vision walking into it.</li> <li>4. Tactile warning tiles at 300mm at the beginning and end of ramp.</li> <li>5. Steps to ATM landing space - uniform risers of</li> </ol> | <ul style="list-style-type: none"> <li>• Separate estimate</li> <li>• 2nd option is applicable L-shaped one</li> <li>•</li> </ul> |
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|  |   |   | <p>maximum 150mm and tread 300mm minimum. 50mm wide contrast color paint and tactile markings at the edge of each step.</p>  |             |
| <p><a href="#">Accessible Car parking</a></p>                    | <ol style="list-style-type: none"> <li>1. Cars are parked close to the building wall : security risk.</li> <li>2. No accessible parking slots.</li> </ol>     | <ol style="list-style-type: none"> <li>1. Wheel stoppers at 1.2 m away from the wall.</li> <li>2. At least 2 accessible parking spaces for Thejas (next to the ramp) and 2 for Dhyan <ol style="list-style-type: none"> <li>a. With road markings and signages</li> <li>b. Check guidelines for space between vehicles (aisle space for wheelchair )</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>1. Wheel stoppers at 1.2 m away from the building and also from the compound wall.</li> <li>2. At least 2 accessible parking spaces for Thejas (next to the ramp) and 2 for Dhyan <ol style="list-style-type: none"> <li>a. With road markings and signages</li> <li>b. Check guidelines for space between vehicles (aisle space for wheelchair)</li> </ol> </li> </ol> | <p>done</p> |
| <p>Ramp to Marigold from car parking <a href="#">Photo 1</a></p> | <ol style="list-style-type: none"> <li>1. Too steep.</li> <li>2. The entrance to the ramp is not smooth.</li> <li>3. Projection tiles are not good</li> </ol> | <ol style="list-style-type: none"> <li>1. 9m long ramp is needed.</li> <li>2. Broom finish at the starting of the ramp.</li> <li>3. Tactile warning tiles at begin and end</li> <li>4. Hand-rails</li> </ol>  | <ol style="list-style-type: none"> <li>5. a 9m long ramp with anti-skid tiles is needed and broom finish at the starting of the ramp.</li> <li>6. Tactile warning tiles at 300mm in begin and end</li> <li>7. Hand-rails</li> </ol>  |             |

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|  | <p>for ramp.</p> <p>4. No hand-rails</p>  | <p>(continuous and unobstructed) at 2 levels on both sides of the ramp. Check knuckle space. Ensure that hand-rail goes around the pillar and continues down the steps.</p>  | <p>(continuous and unobstructed) at 2 levels on both sides of the ramp. Check knuckle space. Ensure that hand-rail goes around the pillar and continues down the steps.</p> <p>8. Existing unequal steps will be modified as per these specifications - uniform risers of maximum 150mm and tread 300mm minimum. 50mm wide contrast color paint and tactile markings at the edge of each step.</p> |  |
| <p><a href="#">Ramp at side entrance to Marigold from car park</a></p> | <p>1. No ramp now.</p> <p>2. Steps are unequal, no hand-rails</p>   |  | <p>1. Ramp with hand-rails to be provided.</p> <p>2. Contrast color at the edge of the steps - yellow or terracotta colour paint</p> <p>3. Tactile warning tiles at the start and end</p>  |  |
| <p>Pedestrian path from Thejas to Dhyan</p>                            | <p>1. Uneven tiles on pedestrian</p> <p>2. Path is narrow (1.2m) for wheelchair</p> <p>3. Manhole on the pedestrian is difficult for wheelchair</p> | <p>1. Use <a href="#">parking tiles</a> (Eg. from Johnsons), not the terracotta ones for the <a href="#">porch</a>.</p> <p>2. The pedestrian path has to be 1.5m at least.</p> <p>3. Manhole shouldn't be on the pedestrian path. How to avoid it? Start</p> | <p>1. Use <a href="#">parking tiles</a> (Eg. from Johnsons), not the terracotta ones for the <a href="#">porch</a>.</p> <p>2. The pedestrian path has to be 1.5m at least.</p> <p>3. Manhole shouldn't be on the pedestrian path. Start ramp to Dhyan entrance from before the manhole itself.</p> <p>4. <a href="#">Tactile guiding tiles</a>.</p>  |  |

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|   | <p>access.</p> <p>4. No signs indicating Marigold/Thejas/Dhy an</p>              | <p>ramp to Dhy an entrance from before the manhole itself.</p> <p>4. <a href="#">Tactile guiding tiles, square junctions at the places that you have to turn</a> and Signages to guide to different buildings.</p> | <p><a href="#">square junctions at the places that you have to turn</a> and braille-cum-text Signages to guide to different buildings.</p>   |  |
| <p>Dhy an entrance</p> <p><a href="#">Dhy an existing Ramp way to Ramp 2, Dhy an</a></p>  | <p>Very steep ramp (1:6 slope now)</p> <p>No ramp from Dhy an towards amruth</p> | <p>Need 6m long ramp. <a href="#">Deviate path from before manhole</a> and make the gentle slope, with continuous hand-rails on both sides. Hand-rail should go around the column/pillar.</p>                      | <p>1. Need 6m long ramp. <a href="#">Deviate path from before manhole</a> and make the gentle slope, with continuous hand-rails on both sides. Hand-rail should go around the column/pillar.</p> <p>2. Steps to replace <a href="#">existing ramp in front of Dhy an</a></p> |  |
| <p><a href="#">Zebra-crossing</a></p>   | <p>Not accessible to wheelchair users or the ppl with visual impairment</p>      | <p><a href="#">Kerb ramp</a> and tactile tiles are needed</p>  | <p>Kerb ramp and tactile tiles as per specifications at the two zebra-crossings are needed.</p>  |  |
| <p>Thejas entrance - ramps</p> <p><a href="#">Photo 1</a><br/><a href="#">Photo 2</a></p> | <p>The 2 ramps in the front are too steep and dangerous.</p>                     | <p>1. Remove the 2 ramps or cordon off the area.</p> <p>2. Ramp on the side - add overhead shelter. Alter ramp dimensions to fit guidelines. (1:15 slope)</p> <p>3. Tactile warning tiles before, after</p>        | <p>1. Convert the existing 2 ramps in the front into steps.</p> <p>2. Existing ramp at the right side - ease the gradient. New ramp to be constructed on the left side to go towards Dhy an.</p> <p>3. Tactile warning tiles before, after ramp,</p>                         |  |

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|  |   | ramp, after door and guiding tiles to the reception.   | after door and guiding tiles to the reception.   |  |
| <b>Inside Thejas</b>   |   |  |  |  |
| <b>Thejas - Ground floor</b>   |   |  |  |  |
| <p>Inside Marigold</p> <p><a href="#">Photo 1</a><br/><a href="#">Photo 2</a><br/><a href="#">Photo 3</a>:<br/><a href="#">Podium stand height</a><br/>&amp;<br/><a href="#">Accessibility</a><br/><a href="#">Photo 2</a><br/><a href="#">Photo 3</a></p> | <p>No fire alarm/sprinklers.</p> <p>No signage to exit.</p> <p>No ramp to stage inside the hall</p> <p>No wheelchair-friendly podium on stage (resolved)</p> <p>Very steep ramps to stage from green room</p> | <ol style="list-style-type: none"> <li>1. Dias height is 750mm. So a 12m ramp (minimum width 1.2m) is needed inside the hall. L-shaped with middle landing space (1.5m long after 9m of ramp). No hand-rails but with edge protection of around 100mm. Ramp can be fabricated and permanent (like in Orchid). TV can be shifted to the side of the dias - 2 TVs on both sides if needed.</li> <li>2. Ramp on the left side from green room - put anti-skid mat. It is steep - someone has to assist to push the wheelchair.</li> <li>3. Ramp on the right side from green room is dangerously steep. Replace it with platform lift.</li> </ol> | <ol style="list-style-type: none"> <li>1. Ramp on the left side from green room - put anti-skid mat.</li> <li>2. Ramp on the right side from green room - replace it with platform lift.</li> <li>3. Ramp to dias in the front - from right side. 12m ramp (minimum width 1.2m) is needed inside the hall. L-shaped with middle landing space (1.5m long after 9m of ramp). No hand-rails but with edge protection of around 100mm.</li> <li>4. TV can be shifted to the side of the dias - 2 TVs on both sides.</li> <li>5. Fire alarms, sprinklers, signages to exit.</li> </ol> |  |
| <p>Outside Marigold,</p>   |   | <ol style="list-style-type: none"> <li>1. Directional signages to toilet and accessible</li> </ol>   | <ol style="list-style-type: none"> <li>1. Directional signages to toilet and accessible toilet.</li> </ol>   |  |



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| <p>Thejas lobby<br/> <a href="#">Photo 1</a><br/> <a href="#">Photo 2</a></p>   |   | <p>toilet. Braille signage just outside the toilet.</p> <ol style="list-style-type: none"> <li>2. Heights of switch panels in lobby should be lower (450-1000mm) in contrast color.</li> <li>3. Courtyard edge - stick a contrast color band.</li> <li>4. Floor directory/tactile map</li> <li>5. Cordon off the area under the staircase with plants/sculpture/gate - to avoid people with visual impairment walking and hitting their head.</li> <li>6. Need ramp at fire exit. (Extend landing, side ramp)</li> <li>7. Relocate the fire extinguisher - obstruction on the way to fire exit.</li> <li>8. Lower signages.</li> </ol> | <p>Braille signage just outside the toilet.</p> <ol style="list-style-type: none"> <li>2. Heights of switch panels in lobby should be lower (450-1000mm) in contrast color.</li> <li>3. Courtyard edge - stick a contrast color band (tactile, vinyl flooring like in guest room)</li> <li>4. Floor directory/tactile map</li> <li>5. Cordon off the area under the staircase with hand-rail and wicker-gate and warning tiles - to avoid people with visual impairment walking and hitting their head.</li> <li>6. New ramp at fire exit. (Extend landing, side ramp)</li> <li>7. Relocate the fire extinguisher - obstruction on the way to fire exit.</li> <li>8. Lower signages.</li> </ol> |  |
| <p>Toilets in ground floor<br/> <a href="#">Photo 1</a><br/> <a href="#">Photo 2</a><br/> <a href="#">Photo 3</a></p> | <ol style="list-style-type: none"> <li>1. Toilets inside greenroom are too small.</li> <li>2. Toilets just outside Marigold - small for wheelchair users, Male and female toilets shouldn't be</li> </ol> | <ol style="list-style-type: none"> <li>1. Toilets near Marigold can be called 'Semi-ambulatory accessible' - put signages accordingly.</li> <li>2. Accessible toilet can be interchanged with the female toilet - check standards for size, location of WC,</li> </ol>   | <ol style="list-style-type: none"> <li>1. Toilets near Marigold can be called 'Semi-ambulatory accessible' - put signages accordingly.</li> <li>2. Accessible toilet can be interchanged with the female toilet - check standards for size, location of WC, washbasin height, grab-bars positioning, mirror height.</li> </ol>  |  |

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|   | <p>facing each other - most abuses happen there. Better if adjacent to each other.</p> <p>3. 'Accessible toilet' outside BFA is too small for parallel or diagonal transfer from wheelchair. Existing grab bar is not useful - it just takes up more space.</p> | <p>washbasin height, grab-bars positioning, mirror height.</p> <p>3. 1 child-friendly urinal in male toilet - at a lesser height</p> <p>4. At least 1 urinal with grab bars for semi-ambulatory users</p>  | <p>3. 1 child-friendly urinal in male toilet - at a lesser height</p> <p>4. At least 1 urinal with grab bars for semi-ambulatory users</p>   |  |
| <p><a href="#">Steps to first floor</a></p> | <p>It's a guard-rail, not hand-rail.</p>  | <p>1. Tactile warning tiles</p> <p>2. Contrast edges</p> <p>3. Hand-rail - need two levels,unobstructed. 900mm level is there. Add one more at 760mm.</p> <p>4. We discussed about adding another hand-rail on the wall-side but that was deferred because it will decrease the operational width of the stairs.</p> | <p>1. Tactile warning tiles 300mm before steps.</p> <p>2. Contrast edges paint.</p> <p>3. Hand-rail - need two levels,unobstructed. 900mm level is there. Add one more at 760mm.</p> |  |
| <p>Lift lobby</p>                           | <p>1. What is the 'Fire lift' signage</p>   | <p>1. Add audio alert.</p> <p>2. Lower control panel and</p>   | <p>1. Add audio alert.</p> <p>2. Lower control panel and telephone - mind</p>  |  |

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|   | <p>doing there??</p> <ol style="list-style-type: none"> <li>No audio alert in lift</li> <li>Control panel is too high.</li> <li>Floor level signs are not visible from the lift</li> <li>Notice next to lift has too many instructions , is high.</li> </ol> | <p>telephone - mind highest operable point.</p> <ol style="list-style-type: none"> <li>Remove the 'fire lift' signage.</li> <li>Add floor level signs in front of each lift.</li> <li>Notice next to lift - need bigger font, height to be lowered.</li> </ol> | <p>highest operable point.</p> <ol style="list-style-type: none"> <li>Add floor level signs in front of each lift.</li> <li>Notice next to lift - minimize instructions, need bigger font, height to be lowered.</li> </ol>  |  |
| <a href="#">Tejas Reception</a>   |  | <ol style="list-style-type: none"> <li>Tactile warning tiles in the front</li> <li>Glass cut-outs to pass things</li> <li>Contrast colour at table edge</li> <li>Signages</li> <li>Contrast colour band around pillars</li> </ol>                              | <ol style="list-style-type: none"> <li>Tactile warning tiles in the front</li> <li>Glass cut-outs to pass things</li> <li>Contrast colour at table edge</li> <li>Signages</li> <li>Contrast colour band around pillars</li> </ol>                                    |  |
| <b>Thejas first floor</b>   |  |  |  |  |
| <p>Orchid-Hall</p> <p><a href="#">Photo 1</a><br/><a href="#">Photo 2</a><br/><a href="#">Photo 3</a></p> | <p>No fire alarms<br/>Lights are very dim - only 33 lux.<br/>No door stoppers</p>  | <ol style="list-style-type: none"> <li>Need fire alarms.</li> <li>Improve lighting</li> <li>Add frosted glass to door, with two clear openings at 800mm and 1400mm.</li> <li>D-shaped door handles are more ergonomic than the knob.</li> </ol>                | <ol style="list-style-type: none"> <li>Need fire alarms.</li> <li>Improve lighting. Need 500 lux level.</li> <li>Add frosted glass to door, with two clear openings at 800mm and 1400mm.</li> <li>D-shaped door handles are more ergonomic than the knob.</li> </ol> |  |
| Lobby   |  | <ol style="list-style-type: none"> <li>Floor level</li> </ol>  | <ol style="list-style-type: none"> <li>Floor level</li> </ol>  |  |

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|   |   | <p>signage can be closer to the stairs - for both staircases.</p> <ol style="list-style-type: none"> <li>2. Tactile warning tiles before and after staircase.</li> <li>3. Floor directory on every level.</li> </ol>   | <p>signage can be closer to the stairs - for both staircases.</p> <ol style="list-style-type: none"> <li>2. Tactile warning tiles before and after staircase.</li> <li>3. Floor directory on every level.</li> </ol>   |  |
| Admin<br><a href="#">Photo 1</a>  | Almirahs behind a seated person - risk of person getting trapped in case of an earthquake.                  | <ol style="list-style-type: none"> <li>1. Separate name boards for each of the admin with braille number system</li> <li>2. Guiding tactile cues on floor (like PVC mat in guest room) to every admin personnel</li> <li>3. Warning tiles at door</li> <li>4. Relocate almirahs.</li> <li>5. Contrast color at table edges.</li> </ol> | <ol style="list-style-type: none"> <li>1. Separate name boards for each of the admin with braille</li> <li>2. number system</li> <li>3. Guiding tactile cues on floor (like PVC mat in guest room) to every admin personnel</li> <li>4. Warning tiles at door</li> <li>5. Relocate almirahs.</li> <li>6. Contrast color at table edges.</li> </ol> |  |
| PT (Vikrant h's) room   | Signages are scattered - eg: room number, name of the person, dept name etc Almirah blocking path to toilet | <p>Order the signages vertically, at a lower level.</p> <p>Relocate almirah.</p>   | <ol style="list-style-type: none"> <li>1. Order the signages vertically, at lower level.</li> <li>2. Relocate almirah.</li> </ol>  |  |
| Accessible toilet<br><a href="#">Photo 1</a><br><a href="#">Photo 2</a><br><a href="#">Photo 3</a><br><a href="#">Photo 4</a> | <p>Accessible toilet is too small.</p> <p>Door hook for toilet door - not good. replace with latch.</p>     | <p>There are two options:</p> <ol style="list-style-type: none"> <li>1. Interchange accessible toilet with the ladies' washroom, just like in the ground floor. Problem is</li> </ol>  | <p>In the existing accessible toilet:</p> <ol style="list-style-type: none"> <li>1. relocate WC to the corner to make more space for wheelchair parallel or</li> </ol>   |  |

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|                            |   | <p>there is a step at the entrance.</p> <p>2. (Or) In the existing accessible toilet, relocate WC to the corner to make more space for wheelchair parallel or diagonal transfer. Also, shift washbasin to the opposite side. Remove existing grab bar. Add new grab bars (movable and L-shaped) as per the guidelines.</p> | <p>diagonal transfer.</p> <p>2. shift washbasin to the opposite side.</p> <p>3. Remove existing grab bar. Add new grab bars (movable and L-shaped) as per the guidelines.</p> |  |
| <b>Thejas second floor</b> |   |  |   |  |
| Staff room                 |   | Table edges - contrast color bands   | Table edges - contrast color bands  |  |
| Notice board               |   | Bigger fonts needed, too high for wheelchair-user to see   | Follow specific font and font size.   |  |
| Classrooms for the deaf    | Lighting issues. When lights switched off for slides, teacher's signing is not visible. | Add focus light on teacher.  | Add focus light on teacher.   |  |
| <b>Thejas third floor</b>  |   |  |   |  |
| Sick room                  |   | <p>1. Door to wash area is not needed.</p> <p>2. For the entrance</p>  | <p>1. Door to the wash area is not needed.</p> <p>2. For the entrance door, frosted glass</p>   |  |

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|  |  | <p>door, frosted glass with vision panel at two levels.</p> <p>3. Two-way alert system : Switch outside the room, when pressed will set on the vibrator under the pillow as well as the flashing bulb. Switch near the bed, when pressed will activate buzzer and light alarm outside.</p> <p>4. Boys' sick room - signage indicating 'nurse's station' to be changed.</p> | <p>with vision panel at two levels.</p> <p>3. Two-way alert system : Switch outside the room, when pressed will set on the vibrator under the pillow as well as the flashing bulb. Switch near the bed, when pressed will activate buzzer and light alarm outside.</p> <p>4. Boys' sick room - signage indicating 'nurse's station' to be changed.</p> |  |
| <b>Thejas Fourth floor</b>   |  |  |  |  |
| Computer lab<br><a href="#">Photo 1</a><br><a href="#">Photo 2</a> |  | Have an accessible system - with screen reader, adaptive keyboard, adaptive mouse etc.   | Have an accessible system - with screen reader, adaptive keyboard, adaptive mouse etc.   |  |
| <b>Thejas Fifth Floor</b>  |  |  |  |  |
| Guest room (small)   | Toilet is not accessible. Bed, table are too high (resolved) | <p>1. Separate area for washbasin is not needed. Remove the wall and make the toilet bigger.</p> <p>2. Door to toilet should be sliding or opening to outside.</p> <p>3. Relocate WC to where washbasin is now. Shower</p>   | <p>1. Separate area for washbasin is not needed. Remove the wall and make the toilet bigger.</p> <p>2. Door to toilet should be sliding or opening to outside.</p> <p>3. Relocate WC to where washbasin is now. Shower area on the opposite end with a plastic chair and a</p>   |  |

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|                                  |  | <p>area on the opposite end with a plastic chair and a telephone shower (never a head shower!).</p> <ol style="list-style-type: none"> <li>4. Add an emergency bell in toilet, that will buzz housekeeping/security cabin.</li> <li>5. Bed must be 450mm high (same height of wheelchair), no sharp corners. (can cut legs/ have thinner mattress)</li> <li>6. Switch panel must be next to bed. A switch activating audiovisual alarm outside room and in housekeeping/security. A switch outside the room activating an audiovisual+vibratory alarm for the room resident.</li> <li>7. Table must have more leg space underneath (670mm needed).</li> </ol> | <p>telephone shower (never a head shower!).</p> <ol style="list-style-type: none"> <li>4. Add an emergency bell in toilet, that will buzz housekeeping/security cabin.</li> <li>5. Round off the sharp corners in bed.</li> <li>6. Switch panel must be next to bed. A switch activating audiovisual alarm outside room and in housekeeping/security. A switch outside the room activating an audiovisual+vibratory alarm for the room resident.</li> <li>7. Table must have more leg space underneath (670mm needed).</li> </ol> |  |
| <p>Guest room (bigger suite)</p> | <p>Dining table is too high (resolved)<br/>No compatible plug for microwave.</p> | <ol style="list-style-type: none"> <li>1. Reduce height of dining table, bed, switch panels as per guidelines. Alarm bells as specified above for the other</li> </ol>  | <ol style="list-style-type: none"> <li>1. Reduce height of switch panels as per guidelines. Alarm bells as specified above for the other guest room.</li> <li>2. Toilet area has to be</li> </ol>   |  |

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|   | Toilet is not accessible.  | <p>guest room.</p> <ol style="list-style-type: none"> <li>Toilet area has to be increased and made accessible as per guidelines. Remove the wall. Dressing table may not be needed.</li> </ol>  | <p>increased and made accessible as per guidelines. Remove the wall. Dressing table may not be needed.</p>   |  |
| Tulip halls<br><a href="#">Photo 2</a>                        | <p>No chair for a left-handed student.<br/>No accessible toilet on this floor for students taking exams.<br/>Wheelchair-friendly podium</p>  | <ol style="list-style-type: none"> <li>Smaller, wheelchair-friendly podium needed.</li> <li>Accessible toilet in the side terrace area.</li> <li>A few chairs with desk hinge on the left side for left-handed students.</li> </ol>   | <ol style="list-style-type: none"> <li>Smaller, wheelchair-friendly podium needed. (resolved. Cost = Rs 9500)</li> <li>Accessible toilet in the side terrace area.</li> <li>A few chairs with desk hinge on the left side for left-handed students.</li> </ol>   |  |
| <b>Thejas 7th floor</b>                                       |  |   |  |  |
| Library<br><a href="#">Photo 1</a><br><a href="#">Photo 2</a> | <p>Counter is not wheelchair-friendly.<br/>Fonts on notices on book shelves have to be as per guidelines for people with visual impairment.<br/>More AT devices and softwares needed in library.</p> | <ol style="list-style-type: none"> <li>Counter has to be at 800mm height.</li> <li>Notice on book shelves - Use font size 14 with Sans serif or Arial or Helvetica.</li> <li>Emergency alarms are missing.</li> <li>Magnifier, vibrating alarms to be available.</li> <li>Software like Read &amp; Write Gold/Sonocent etc should be available.</li> <li>Accessible PC for browsing the e-catalogue.</li> </ol> | <ol style="list-style-type: none"> <li>Counter has to be at 800mm height.</li> <li>Notice on book shelves - Use font size 14 with Sans serif or Arial or Helvetica.</li> <li>Emergency alarms are missing.</li> <li>Magnifier, vibrating alarms to be available.</li> <li>Software like Read &amp; Write Gold/Sonocent etc should be available.</li> <li>Accessible PC for browsing the e-catalogue.</li> <li>Books on accessibility should be kept - Eg:</li> </ol> |  |



|   |   |  |   |  |
|---|---|--|---|--|
|   |   | 7. Books on accessibility should be kept - Eg: IRC103-2012 (Inclusive pedestrian facilities), National building code, Manual on universal accessibility for roads and streets  | IRC103-2012 (Inclusive pedestrian facilities), National building code, Manual on universal accessibility for roads and streets  |  |
| <b>Outside Thejas</b>   |   |  |   |  |
| Benches   | Not deaf-friendly                                 | Curved benches, with shelter on top.   | 3 Curved benches, with shelter on top.  |  |
| <b>Dhyan ground floor</b>   |   |  |   |  |
| Dhyan reception<br><a href="#">Photo 1</a><br><a href="#">Photo 2</a> | Counter is partially accessible.<br>Poor lighting | <ol style="list-style-type: none"> <li>1. Counter needs knee clearance for wheelchair-users. Height on the other side is 1.2m - it has to be 1m maximum.</li> <li>2. More lights are needed.</li> <li>3. Floor directory is good. Change font as per specification to make it better.</li> </ol> | <ol style="list-style-type: none"> <li>1. Counter needs knee clearance for wheelchair-users. Height on the other side is 1.2m - it has to be 1m maximum.</li> <li>2. More lights are needed.</li> <li>3. Floor directory - Change font as per specification to make it better.</li> </ol> |  |
| Staircase just before EIP<br><a href="#">Photo 1</a>                  | Uneven height steps, hand-rails not continuous    | <ol style="list-style-type: none"> <li>1. Contrast color the edges of stairs.</li> <li>2. Continuous hand-rails on the other side.</li> </ol>  | <ol style="list-style-type: none"> <li>3. Contrast color the edges of stairs.</li> <li>4. Continuous hand-rails on the other side.</li> </ol>   |  |
| Biometric ID  | Too high  | For an employee who uses wheelchair, at least one of   |   |  |

|  |  |  |  |  |
|--|--|--|--|--|
|  |  | the biometric devices has to be at a lower height.   |  |  |
| EIP<br><a href="#">Photo 1</a><br><a href="#">Photo 2</a><br><a href="#">Photo 3</a> | Walkway is too narrow. Steps to the park are too high. Might not be perceived by kids with visual or sensory issues. Neetha reports one such accident. | <ol style="list-style-type: none"> <li>1. Corridor can't be less than 1.8m. Replace thick coir mats with thin rubber mats. Can shoes rack be narrower?</li> <li>2. Different options: <ol style="list-style-type: none"> <li>a. Either fill in the play area and make it same level - can be too expensive.</li> <li>b. Cordon off with hand-rails on the second step and having only two entry points into the play area.</li> <li>c. Best option - extend the corridor upto the first step and add one more step.</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>1. extend the corridor upto the first step and add one more step. Cordon off with hand-rails on the second step and having only two entry points into the play area.</li> <li>2. Replace thick coir mats with thin rubber mats.</li> <li>3. shoes rack can be narrower</li> </ol> |  |
| Ear mould lab<br><a href="#">Entrance photo 1</a><br><a href="#">Photo 2</a>         | door is narrow, fridge near entrance - no path for wheelchair-users  | Relocate fridge.   | Relocate fridge.   |  |
| All doors to rooms   | Vision panel is too high for wheelchair users.   | Vision panels at two heights   | Vision panels at two heights   |  |

|  |  |  |  |  |
|--|--|--|--|--|
| <a href="#">Photo 1</a>  |  |  |  |  |
| All corridors<br><br><a href="#">Photo 1</a>   | Thick coir mats are trip hazards. Complaints/suggestions box protruding in Dhyana first and second floors. | 1. Replace coir mats with thin rubber mats.<br>2. Relocate complaints box. | 1. Replace coir mats with thin rubber mats.<br>2. Relocate complaints box. |  |
| Children's library<br><a href="#">Entrance photo 1</a><br><a href="#">Inside table arrangements</a><br><a href="#">Photo 3</a> | alignment of tables near entrance can be dangerous for kids running  | Align tables against the wall  | Align tables against the wall  |  |
| Sensory lab  | Therapy ladder/steps handrails are too high for kids   | Lower hand-rails at 600-700mm max. They are at 870mm now.                  | Lower hand-rails at 600-700mm max in therapy ladder.                       |  |
| Toilet   | Toilet is not accessible. Not enough space.  | Use space from the sensory park outside to construct a new toilet 2x2.2m   | Use space from the sensory park outside to construct a new toilet 2x2.2m   |  |
| Creche<br><br><a href="#">Photo 1</a><br><a href="#">Toilet</a>  | Creche is very nice and accessible.  | Have toilet door handles at kids' height also. no Latches inside.          | Have toilet door handles at kids' height also. no Latches inside.          |  |
| Ramp to top floors<br><br><a href="#">Photo 1</a>  | No middle landing at a gap of 9m<br>Too narrow   | 1. Add hand-rails at last level and also to cordon off the dead pocket.    | 1. Add hand-rails at last level and also to cordon off the dead pocket.    |  |

|  |   |  |  |  |
|--|---|--|--|--|
| <a href="#">Photo 2</a><br><a href="#">Photo 3</a> | (<2m)<br>Hand-rails missing in the last level<br>Dead pocket<br>High-risk place for abuse | 2. Add more CCTVs.<br>3. Add emergency switches.   | 2. Anti-skid tiles<br>3. Tactile warning tiles<br>4. Add more CCTVs.<br>5. Add emergency switches. |  |
| Lift?  |   |  | Lift?  |  |
| <b>Dhyan first floor</b>                           |   |  |  |  |
| Floor directory                                    | make it more accessible   | Add symbols.   | Add symbols.   |  |
| CP unit  | Too narrow doorway.   | Relocate table near door.<br>Adjust door hinge - relocate it further to make the door wider. | Relocate table near door.<br>Adjust door hinge - relocate it further to make the door wider.       |  |
| Speech diagnostics labs                            | Very narrow door entrances (780mm)<br>Doorstep not wheelchair-friendly                    | Increase height of the door and lower the step.<br>Can door be wider (900m at least)?        | Increase height of the door and lower the step.<br>Door to be wider (900m at least).               |  |
| Accessible toilet                                  | Not available   | Raise one more level from the to-be-constructed accessible toilet on the ground floor.       | Raise one more level from the to-be-constructed accessible toilet on the ground floor.             |  |
| Fire exit  | Not available   |  |  |  |
| <b>Dhyan second floor</b>                          |   |  |  |  |
| Daffodil   | Dias is too small   | Dias is not needed   | Dias is not needed   |  |
| <b>Outside Dhyan</b>                               |   |  |  |  |

|   |   |   |   |  |
|---|---|---|---|--|
| <p>Path from Dhyan to Amruth<br/> <a href="#">Photo 1</a><br/> <a href="#">Photo 2</a><br/> <a href="#">Photo 3</a></p> | <p>No ramp from Dhyan towards Amruth<br/> Too steep ramps at entrance and exit of Amruth.<br/> Windows opening on ramp.</p> | <ol style="list-style-type: none"> <li>1. Ramp from Dhyan towards path near pool to be added.</li> <li>2. Entrance to Amruth - extend ramp to road with no level difference. Add hand-rails. Extend landing at Amruth and then ramp. (otherwise curved ramp will need landing space)</li> <li>3. Exit from Amruth - extend ramp to footpath. Close the windows permanently. Add hand-rails</li> </ol> | <ol style="list-style-type: none"> <li>1. Ramp from Dhyan towards path near pool to be added.</li> <li>2. Entrance to Amruth - extend ramp to road with no level difference. Add hand-rails. Extend landing at Amruth and then ramp. (otherwise curved ramp will need landing space)</li> <li>3. Exit from Amruth - extend ramp to footpath. Close the windows permanently. Add hand-rails</li> </ol> |  |
| <b>Amruth</b>   |   |   |   |  |
| <p>Accessible toilet</p>  | <p>Not available</p>  | <p>Add one outside the washing area.</p>  | <p>New accessible toilet outside wash basin area to be constructed.</p>   |  |
| <p>Universal design canteen<br/> <a href="#">Photo 1</a></p>  |   | <ol style="list-style-type: none"> <li>1. Tactile pavers till food counter</li> <li>2. Menu in braille</li> <li>3. Round tables - easy to sign and eat.</li> <li>4. A couple of low tables, kid chairs</li> </ol>   | <ol style="list-style-type: none"> <li>1. Tactile pavers till food counter</li> <li>2. Menu in braille</li> <li>3. Round tables - easy to sign and eat.</li> <li>4. A couple of low tables, kid chairs</li> </ol>   |  |