

---

# Access audit report for DEPSTAR (Devang patel Institute Of Advanced Technology and Research)

---

Submitted to: Prof. Vijay Panchal, Chairperson, Equal Opportunity Cell,  
CHARUSAT

---

Submitted By: V Prakash, Institute Coordinator (ARIP), Equal Opportunity Cell,  
CHARUSAT

---



---

*This access audit was  
carried out using the  
Harmonized Guidelines and  
Space standards for Barrier  
Free Environment for  
Persons with Disabilities  
(released on 23<sup>rd</sup> March  
2016) provided by Ministry of  
Urban Development, Govt of  
India*

---

## ACCESS AUDIT Report

---

**Building Name:** Devang Patel Institute of Advance Technology and Research

**Date of Audit:** 25-07-2021

**Audit done by:**

1. Pooja Kachrola III semester MPT, ARIP
2. Asha Mudaliyar III semester MPT, ARIP

### **Executive Summary**

The expansion and development of physical infrastructure opens up a plethora of options and experiences for many individuals, free of the constraints imposed by the built environment. The built environment, however, imposes numerous obstacles for Persons with Disabilities (PWDs) that limit their ability to move about freely and safely without concern. Many buildings and areas would require redesigning and retrofitting to ensure a barrier free environment for persons with disability and the elderly.

An access audit measures an existing building's usability and accessibility against predefined criteria. The Department of Empowerment of Persons with Disabilities (DEPwD) has launched Accessible India Campaign (Sugamya Bharat Abhiyan) as a nation- wide Campaign for achieving universal accessibility for Persons with Disabilities (PwDs). In line with this campaign, we have conducted access auditing of the built Environment of the DEPSTAR for Persons with Disability and Elderly Persons.



**Key findings**

- Lack of accessible or designated parking space for PWDs.
- Front entrance door has high resistance to opening.
- Emergency exits are not clearly marked with directional arrow signs.
- Water taps are inaccessible for people in wheelchairs and cannot be easily maneuvered by someone with poor hand function.
- Side entrance ramp lacks railings on both sides.
- There are no direction signs identifying the location of accessible amenities such as toilets or water.

### **Recommendations**

- To construct hand rails on both sides of the ramp.
- To enhance water accessibility for PWDs.
- To establish an emergency alarm system in the restrooms.
- Consider installing an automated door at the front entry to alleviate current obstacles to using the front door, such as excessive difficulty in opening the door, forceful closing due to strong winds, and other factors.
- To make doorknobs easier to reach.
- Installing a Braille Panel on the elevator.
- To provide a parking place closer to the entrance for those with disabilities.

A full version of the audit results would be provided via a comprehensive audit checklist linked to this report.

1. MAIN ENTRANCE	Y ES	N O	NOT APPLICABLE	REMARK S
▪ Is the main entrance of the building accessible?	✓			
▪ Are there any steps at the entrance?	✓			
▪ Do the steps have a handrail?	✓			
▪ Are there handrails on both the sides?		✓		
▪ Is there a ramp?	✓			
▪ Does the ramp have a railing?	✓			
▪ Are there handrails on both the sides?		✓		
▪ Is the clear door width at least 1000 mm?	✓			
▪ Can the entrance door be operated independently		✓		
▪ Is the height of the door handle between 800 mm and 1000 mm?	✓			
▪ Does the accessible entrance permit access to an elevator?		✓		
▪ Is the accessible entrance clearly identifiable?	✓			
▪ Is the landing surface non-slippery?	✓			

2. RAMPS	YES	NO	NOT APPLICABLE	REMARKS
▪ Is there a ramp next to the stairs?	✓			
▪ Is the location of the ramp clearly identifiable?	✓			
▪ Is the ramp gradient no steeper than 1:12?		✓		1:2.9
▪ Is there a landing of at least 1500 mm x 1500mm, at 9m intervals provided?		✓		
▪ Is there a landing at every change in direction?	✓			
▪ Is there landing at the top and bottom of every ramp?	✓			
▪ Is the minimum width of the ramp 1500 mm?		✓		
▪ Are there continuous handrails, on both sides, at a height between 760 mm – 900 mm?		✓		
▪ Is the surface of the ramp non-slip?	✓			
▪ Is there an edge protection on both sides of the ramp?		✓		

3. PARKING	YES	NO	NOT APPLICABLE	REMARKS
▪ Are there accessible parking facilities?			✓	
▪ Is the number of accessible parking spaces sufficient?			✓	
▪ Are the designated spaces wide enough 3600mm x 5m?			✓	
▪ Are accessible parking spaces marked by the international symbol of accessibility?			✓	
▪ Accessible parking spaces are not misused or used by non-disabled people?			✓	
▪ If the drop-off area has a kerb, is there a kerb ramp leading to the pathway?			✓	

▪ Is the drop-off area marked by signage?	✓
▪ Is there an accessible path of travel from the drop-off area to the main entrance?	✓

<b>4. RECEPTION &amp; INFORMATION COUNTERS</b>	<b>YES</b>	<b>NO</b>	<b>NOT APPLICABLE</b>	<b>REMARKS</b>
▪ Are the counters easily definable?		✓		
▪ Is the counter at two heights?		✓		
▪ Is a part of the counter lowered to accessible height of 800 mm?		✓		1220mm
▪ Is a loop induction unit installed at the counter?		✓		
▪ Are there tactile pictographic maps of the building near the counter?		✓		
▪ Is the counter well illuminated?		✓		

<b>5. DOORS</b>	<b>YES</b>	<b>NO</b>	<b>NOT APPLICABLE</b>	<b>REMARKS</b>
▪ Are there any automatic doors at the entrance?		✓		
▪ Can the doors be operated without much effort?		✓		
▪ Do automatic doors have sufficient long opening intervals?			✓	
▪ Are push buttons for automatic doors located at a maximum height of 1m?			✓	
▪ Is there sufficient space beside the latch side of the doors (450-600mm)?	✓			
▪ Are accessible doors placed adjacent to the revolving doors?			✓	

and turnstiles?

- |   |   |       |
|---|---|-------|
| ▪ Are glazed doors marked with a colour band at eye level?                      | ✓ |       |
| ▪ For double leaf doors, is the width of one of the leaves at least 1m?         | ✓ | 54 cm |
| ▪ Do doors fitted with spring closers have an extra pull handle?                | ✓ |       |
| ▪ Is manual door accessories/ hardware (handle,lock pull etc.)lower than 800mm? | ✓ |       |

## 6. CORRIDORS

YES NO NOT APPLICABLE REMARKS

- |  |   |   |
|--|---|---|
| ▪ Is the minimum unobstructed width of corridors at least 1500 mm?                       | ✓ |   |
| ▪ Does the corridors width allow maneuvering through doors located along with its length | ✓ |   |
| ▪ Are differences in level, bridged with by ramps or lifts?                              |   | ✓ |
| ▪ Can a sightless person with a cane detect all protruding objects with in the corridor? | ✓ |   |
| ▪ Are all over hanging obstructions mounted above a minimum height of 2200mm?            | ✓ |   |
| ▪ Can a person with low vision, identify all obstacles in the corridor?                  |   | ✓ |

## 7. LIFTS

YES NO NOT APPLICABLE REMARKS

✓



▪ Is there an accessible path leading to the elevator?			
▪ Is the clear door opening width 1m or more?		✓	
▪ Are the minimum internal dimensions of the elevator 1500 mm x1500 mm minimum or having 13 persons capacity?		✓	
▪ Is the height of the call button (outside the lift) between 800 mm – 1m, from the floor level?	✓		
▪ Is the control panel placed at a height between 800 mm – 1m, from the floor level?	✓		
▪ Is there an audio and video system installed in the lift indicating arrival at a floor?		✓	
▪ Are there Braille/raised numbers on the control panel?	✓		
▪ Is the elevator provided with a handrail on the three sides?		✓	
▪ Are the handrails mounted at a height between 800 mm and 1m?		✓	
▪ Is the elevator door easy to identify?		✓	
▪ Is the emergency intercom provided inside the elevator?	✓		
▪ Are there tactile or Braille instructions for the communication system?		✓	
▪ Is the emergency intercom usable without the voice communication?		✓	
▪ Is the door opening/closing interval long enough?	✓		
▪ Is the finish of the elevator floor skid-resistant?	✓		

8. STAIRS	YES	NO	NOT APPLICABLE	REMARKS
	✓			
▪ Is the minimum width of the stairs 1200mm?				

▪ Are there continuous handrails, on both sides, at a height between 760mm-900mm?	✓		
▪ Is the handrails installed in the centre of the stair width, which is more than 3m wide?		✓	
▪ Is the landing length not less than 1200mm?		✓	
▪ Are the step edges of a different colour or texture easily identifiable by low-vision & vision impaired persons?		✓	
▪ Are there warning blocks installed at the beginning and end of all flights?		✓	
▪ Is the location of emergency (fire escape) stairs clearly identifiable?		✓	
▪ Does the height of the risers is 150 mm maximum & tread 300 mm minimum?	✓		
▪ Do treads have a non-slip surface?	✓		
▪ Are the risers having open gaps in the steps?		✓	

9. HANDRAILS (at entrance)	YES	NO	NOT APPLICABLE	REMARKS
▪ Are handrails mounted at a height between 760mm – 900 mm?	✓			
▪ Are handrails easy to grip?	✓			
▪ Are handrails securely attached?	✓			
▪ Do handrails extend horizontally 300 mm at the top and bottom of every staircase or ramp?		✓		

▪ Are the ending of the handrails grouted in the ground or turn downward?	✓		
▪ Is the space between the handrails and the wall no less than 50mm?		✓	
▪ Are the handrails painted in contrast colours to be easily indefinable?	✓		
▪ Are there tactile strip/ Braille plates identifications on the handrails for emergency stairs & floor levels?		✓	

10. TOILETS	YES	NO	NOT APPLICABLE	REMARKS
▪ Are there accessible toilets for Persons with Disabilities?	✓			
▪ Are the toilets easily identifiable?		✓		
▪ Is there sufficient space of 2m x 2.2m inside the toilets to manoeuvre a wheelchair?	✓			
▪ Are water closet (WC) and bidets mounted at a height between 450mm – 480mm?		✓		510mm
▪ Is the space between the WC and the closest adjacent wall, fitted with a grab bar is between 450 mm – 500mm?	✓			450mm
▪ Is the accessible washbasin mounted at a height between 750mm – 850mm?	✓			850mm
▪ Is the lower edge of the mirror positioned at a height not exceeding 1m?		✓		
▪ Are the accessible showers provided with a folding seat?		✓		
▪ Are the grab bars installed near WC and showers at a height between 750 – 850 mm?		✓		690mm-960mm

▪ Do grab bars have a diameter of 38 mm?	✓		
▪ Do wall mounted grab bars have knuckle space 50 mm?	✓		
▪ Are grab bar non slippery?	✓		
▪ Can the grab bars withstand the load of 200kg minimum?			Could not test
▪ Are faucets easy to grip and operate with one hand?	✓		
▪ Are shower fixtures with at least 1500 mm long hoses?		✓	
▪ Are hot water pipes insulated or covered?		✓	
▪ Is the toilet equipped with an emergency alarm system?		✓	
▪ Can doors be locked from inside and releasable form outside under emergency situations?		✓	
▪ Are flushing arrangements, dispensers and toilet paper mounted between 300mm and 800mm?		✓	
▪ Are flushing equipment easy to operate?	✓		
▪ Is the floor material skid proof, well drained and waterproof?	✓		
▪ Do pivoted doors open outwards?	✓		

11. CANTEEN	YES	NO	NOT APPLICABLE	REMARKS
▪ Is the eating outlet accessible for PwD's?			✓	
▪ Is there a circulation path of at least 900 mm wide to allow a wheelchair user to move around the eating outlet?			✓	

▪ Are the cash and service counter height below 800mm?	✓
▪ Is the table accessible with a height of 750mm to 850mm and knee space of 750mm wide and 480mm deep?	✓
▪ Do the table with fixed stools have accessible spaces for wheelchairs?	✓

12. DRINKING WATER	YES	NO	NOT APPLICABLE	REMARKS
▪ Is the Water tap accessible?	✓			
▪ Can it be easily manoeuvred by a person with poor hand function?		✓		
▪ Is the area dry?	✓			
▪ Are glasses provided?		✓		

13. SIGNAGES	YES	NO	NOT APPLICABLE	REMARKS
▪ Are accessible spaces identified by the international symbol of accessibility?		✓		
▪ Are there directional signs indicating the location of accessible facilities?		✓		
▪ Are maps, information panels and wall-mounted signs placed at a height between 900mm and 1800mm?			✓	

▪ Are signs clear, simple and easy to read?			✓	
---	--	--	---	--

▪ Is the colour of signs clearly distinguishable?	✓
▪ Is the surface of the sign processed so as to prevent glare?	✓
▪ Is the sign supplement by a text in embossed letters or in Braille available next to information signs?	✓
▪ Is the lettering size proportional to the reading distance?	✓

<b>14. EMERGENCY EXITS</b>	<b>YES</b>	<b>NO</b>	<b>NOT APPLICABLE</b>	<b>REMARKS</b>
----------------------------	------------	-----------	-----------------------	----------------

▪ Are emergency exits clearly marked with directional arrow signs?		✓		Route of entry & exit is same
--	--	---	--	-------------------------------

<b>15. PUBLIC TELEPHONES</b>	<b>YES</b>	<b>NO</b>	<b>NOT APPLICABLE</b>	<b>REMARKS</b>
------------------------------	------------	-----------	-----------------------	----------------

▪ Are there public telephones accessible to wheel chair users?			✓	
▪ Is there at least one telephone in the building equipped with a loop induction unit?			✓	
▪ Are the numerals on the telephone raised to allow identification by touch?			✓	

▪ Is there proper signage directing to the public telephone?			✓	
▪ Are the heights of the operable parts of the telephone between 800mm and 1m?			✓	

- Is there a clear knee space of 750mm?

✓

16. RESTING FACILITIES	YES	NO	REMARKS
▪ Where there are large spaces, are resting facilities provided at 30 meters of intervals?	✓		2510mm
▪ Is there an adjoining space for a wheelchair next to benches and public seats?	✓		
▪ Are public seats with height of 450-480mm?	✓		450mm
▪ Are knee spaces at accessible tables with a height of 750mm and knee space of 750mm wide and 480mm deep?	✓		