



Ministry of Housing and Urban Affairs
Government of India

ABLE INDIA

Certification Framework for Assessing Accessibility in Public Buildings



National Institute of Urban Affairs



Ministry of Housing and Urban Affairs
Government of India

ABLE-India

Accessibility Assessment for Built Environment in India

*Certification framework for Assessing
Accessibility in Public Buildings*

Disclaimer: *This is a copyrighted document. The framework is an initiative of the Ministry of Housing and Urban Affairs and the authorship of which lies with the committee members.*

Table of Contents

Table of Contents	3
1 Introduction and Context Setting	6
1.1 Rationale behind Framework	7
2 ABOUT THE FRAMEWORK	8
2.1 Applicability	8
2.2 Scoring Methodology	9
2.3 Scoring System & Calculation	10
2.4 Rating System	10
2.5 Process, eligibility, validity and Purpose	10
2.5.1 Process.....	10
2.5.2 Eligibility.....	11
2.5.3 Validity of the certification.....	11
2.5.4 Purpose.....	11
2.6 Essential Features and Scoring	12
3 Recommendations and Way forward	13
4 Annexures	15
4.1 Framework	15
4.1.1 Design Conceptualization.....	15
4.1.2 Site Entrance.....	16
4.1.3 Parking.....	18
4.1.4 Access Routes.....	20
4.1.5 Kerb Ramps.....	22
4.1.6 Ramps.....	23
4.1.7 Main Entrance.....	25
4.1.8 Reception.....	27
4.1.9 Corridors.....	28
4.1.10 Doors.....	31
4.1.11 Lifts.....	32

4.1.12	Staircase.....	34
4.1.13	Handrails (Other than the staircase)	36
4.1.14	Sanitary Provisions	38
4.1.15	Drinking Water	41
4.1.16	Eating Outlet.....	42
4.1.17	Workspace.....	43
4.1.18	Signage & Wayfinding	44
4.1.19	Emergency Exits.....	46
4.1.20	Public Telephone.....	47
4.1.21	Resting Facilities.....	48
4.1.22	Other Provisions	49
4.1.23	Operations and Monitoring.....	51
4.2	About the Committee	53
4.3	Proceedings and Findings of the Committee.....	53
4.4	Methodology Emerged.....	54
4.4.1	Review:.....	54
4.4.2	Validation:.....	54
4.4.3	Participatory Process:.....	55
4.5	Ground-Truthing Reports	56
4.5.1	Nirman Bhawan	56
4.5.2	Vigyan Bhawan.....	57
4.6	Minutes of Meeting for 1st Meetings of Committee	58
4.7	Minutes of Meeting of 2nd Meeting of Committee (Workshop Mode).....	60
4.8	Minutes of Meeting of the 3rd Meeting on Certification framework for assessing accessibility in buildings.....	62

1 Introduction and Context Setting

“Our ability to reach unity in diversity will be the beauty and the test of our civilization.”

- Mahatma Gandhi

India has been one of the largest global economies and is progressing towards the aim of becoming a US \$5 trillion economy by 2026 and US \$40 trillion by 2047. In a recent estimate by the United Nations, India cities are estimated to contribute to almost 60% of the total GDP of the country.¹ The estimated increase in the population of Indian cities is estimated to have been almost fourfold between 1970 and 2018, from 109 million to 460 million. Already the second-largest urban community in the world, the country is expected to add another 416 million people to its cities by 2050 and have an urban share of population of about 50 percent. While on hand, the fast pace of urbanization has resulted in an increasing in the average purchasing power and prosperity of the urban population, the urban complexities have increased including high densities, resources constraints, lack of opportunities, and congested urban fabrics. While the entire urban population is struggling, these challenges get exaggerated for the marginalized demographics of persons with disabilities, elderly, children and women among others, with the persisting physical, social and attitudinal barriers. The World Bank estimates of almost 15% of the world's population experiencing some form of disability, indicates a substantial population requiring universal accessibility. The UNCRPD and the RPwD also reinforces these through the rights of persons with disabilities to equality and dignity in various aspects of life - social, economic, cultural, legal and political, both globally and in India. Another estimate by WHO indicates an increase in persons over 60 years of age, expected to reach 1.4 billion by 2030, along with their increased contribution in socio-economic activities. **It is evident that the idea of universality, non-discrimination, equity and inclusion should become a non-negotiable aspect of urban development.**

Accessibility is a multi-layered, multi-dimensional as well as multi-contextual aspect of the built environment. Key elements of an urban built environment, information systems, infrastructure development and their internal services play an active role in shaping one's accessibility experience.

¹ United Nations' 2018 Revision of World Urbanization Prospects.

It is, therefore, important to design keeping the varied needs for the diversity with regards to age, ability, gender, health condition, and economic status, to ensure dignified living and participation to all in socio-economic activities in the city. Universal Design (UD) is an important approach, philosophy and guiding code that aims to provide a constructive and inclusive environment to respond to the needs of diverse populations including persons with disabilities, women, parents with infants and toddlers, the elderly, children etc. This approach has been adopted in the new **“Harmonized Guidelines and Standards for Universal Accessibility in India, 2021”** which contains prescribed design standards and guidelines to make built environments accessible and usable by all. While the standards play an important role in advocating the desired change, they are usually prescriptive in nature and will require deliberations throughout the project cycle from design conceptualization to implementation, until monitoring and evaluation. Also, the understanding of this humanitarian concept is very niche and though the intent might be strong, the implementation might have concerns. In this regard, assessment and evaluation of accessibility features become integral to the holistic approach of making universally accessible built environments. Also, giving credibility and accreditation is required to motivate more buildings to incorporate the components of universal design. In this regard, the "ABLE (Accessibility assessment for Built Environment) India - Framework for evaluation and certification" is being developed by the Ministry of Housing of Urban Affairs, to promote better compliance with accessibility standards as prescribed in the “Harmonized Guidelines and Standards for Universal accessibility in India 2021”.

1.1 Rationale behind Framework

The Ministry of Housing and Urban Affairs have published the Harmonised Guidelines and Standards for Universal Accessibility in India, 2021; which is envisioned to bring in a pragmatic change in the state of universal accessibility in built environment. While the document give a detailed guidelines and standards for all relevant features of a buildings, it is still subjective. There is a need to create objective methods to encourage its wider adoption and greater implementation of the guidelines. The overall purpose of the framework is to assess the building design, evaluate the level of accessibility of the built infrastructure, identify the gaps in provisions and encourage best practices. The **"ABLE (Accessibility assessment for Built Environment) India – Certification Framework for assessing accessibility in Public Buildings**. The framework acts as an assessment tool to

measure and rate a building's accessibility compliance/performance by the building architects and engineers. It also aims to evaluate accessibility compliance in the entire building planning cycle as well as its operation and maintenance phase results over its full life.

2 ABOUT THE FRAMEWORK

This evaluation framework is first of its kind attempted anywhere in the world in field of accessibility evaluation of a building. The ABLE- India framework for accessibility evaluation and certification is a part of the ongoing endeavour of mainstreaming universal accessibility in the built environment of Urban India. It is envisioned to trigger the adoption and implementation of the revised Harmonised Guidelines and standards for universal accessibility, 2021.

The ABLE India framework identifies 23 features critical to achieve accessibility in public buildings including government and private office buildings. While the framework assess seamless accessibility in each of the essential building element, and ensure visit-ability of the office buildings. The building features are sequentially move as per the movement inside the building. The framework aims to cover all tangible aspects from site entrance to sanitary provisions and drinking water as well as intangible aspects including design conceptualisation to operation and maintenance. The framework is designed to make the assessment process very easy and intuitive which would lead greater sensitisation about subject of universal accessibility among the general public.

The framework would enable creation of a holistic system that could include data collection, policy-making, evidence-based planning, assessment and grading of built environments for accessibility, capacity building and training programmes to successfully achieve the aim of universal accessibility across all built environments.

2.1 Applicability

The present framework is developed for only public buildings (Office Buildings) to promote overall accessibility, particularly to ensure visit-ability in the public buildings. In due time, similar frameworks

for other building typologies can be developed by adding /modifying the relevant elements/parameters of the framework.

The framework is a live document and is subjected to periodic changes with changing lifestyles and technological advancements. It is an evolving system and its refinement continues with the changing scope of accessibility.

The framework shall be further refined with the inputs from its piloting in all central government building made accessible under Accessible India Campaign.

2.2 Scoring Methodology

- Each parameter is to be marked on a three point scale of 0,3,5 marks based on the level/assessment of accessibility.

Access route free of manholes or inspection chambers or top cover flushed with the top of the walkway with warning tiles around

The marking is based on the perception of accessibility ranging from Hazardous, inaccessible, unsatisfactory - 0 marks, Accessible but unsatisfactory -- 3 marks, and Accessible and satisfactory- Acceptable as a best practice -- 5 marks

- The objective questions will be marked on a binary scale for 5 marks.

For instance

Provision of walkway with appropriate gradient slope at 1:20 or less

If it is marked as “Yes” -- 5 marks; if its marked as “No” -- 0 marks

- The parameters which are not provided due to different design and building functions can be marked “Not Applicable” and will be exempted from the calculations so that their absence should not hamper the accessibility in the building. Although the explanation shall be provided in the remarks section.
- Each parameter is also classified as Mandatory and optional which will be helpful in identifying and prioritising critical elements during retrofitting’s and renovations.

2.3 Scoring System & Calculation

- Totals Marks for each design feature will be calculated based on number of applicable parameters and the marks obtained will be based on the state of accessibility in the building. The acquired score of each element will be multiplied by its weightage to get the final score of the parameter.
- Each design feature is further categorized as mandatory and optional. The mandatory element should have at least 3 marks for every mandatory parameter and score at least 75% of its total marks (based on applicable parameters) to be certified.

2.4 Rating System

90% or more of applicable parameters	'Fully Accessible'	<i>'A' grade Accessibility</i>
80% or more of applicable parameters	'Partially Accessible'	<i>'B' grade Accessibility</i>
70% or more of applicable parameters	'Aspiring to be Accessible'	<i>'C' grade Accessibility</i>
60% or more of applicable parameters	'Needs Improvement'	<i>'D' grade Accessibility</i>

"Fully Accessible" building only will be eligible for placement of a plaque for accessibility as per the guidelines of Department of Empowerment of Persons with Disability, MoSJE

2.5 Process, eligibility, validity and Purpose

2.5.1 Process

A four-step process is proposed for the evaluation and certification-

1. Registration of the architect/ engineer on the portal
2. Induction video to orient for the right standards of accessibility
3. Evaluation and Assessment of the Building by registered architect/engineer
4. Certification for the building

2.5.2 Eligibility

- Engineer with a B. Tech or equivalent degree in civil engineering/ structural engineering or aligned building service engineering from a reputed college.
- Architect with a B. Arch degree with valid COA registration.

Both the architect/engineer involved and the building owner will have the joint-accountability for the authenticity of the certificate.

2.5.3 Validity of the certification

The certificate is valid for **5 years** after which periodic audits should be conducted every 3 years.

2.5.4 Purpose

- 1) Accessibility for independently visiting the buildings by persons with disabilities
- 2) Complete and Seamless Accessibility in the building

2.6 Essential Features and Scoring

Sl. No.	Features	Mandatory/ Optional ²	Weightage	No. of Parameters	Applicable parameters	Marks Obtained	Max Marks	% Obtained	Final Marks	PASS/ FAIL
1	Design conceptualization	O	5	5						
2	Site Entrance	M	5	8						
3	Parking	M	4	8						
4	Access Route	M	5	11						
5	Kerb Ramps	O	4	4						
6	Ramps	M	5	13						
7	Main Entrance	M	5	13						
8	Reception	M	4	8						
9	Corridors	M	5	9						
10	Doors	M	5	9						
11	Lifts	M	5	17						
12	Staircase	M	5	11						
13	Handrail	M	4	9						
14	Sanitary Provisions	M	5	24						
15	Drinking Water	O	4	4						
16	Eating Space	O	4	7						
17	Workspace	O	5	7						
18	Signage and Wayfinding	M	5	11						
19	Emergency Exits	M	5	6						
20	Public Telephone	O	2	4						
21	Resting Facilities	O	4	4						
22	Other provision	O	4	6						
23	Operations and Monitoring	O	5	7						

² Accessibility of mandatory features are required to ensure visit-ability of the building, while optional features will provide seamless accessibility of any building by ALL including persons with disabilities, elderly and others

3 Recommendations and Way forward

The committee suggests the following recommendation and way forward that would be critical in achieving the vision of an inclusive India-

1. **Robust:** For a robust integration of accessibility in the urban ecosystem, seamless accessibility among all building typologies should be ensured. The current rating system is only for public buildings and similar frameworks should be development for all other building typologies and infrastructure including housings, educational buildings, public transport, streets and more. Since the framework is an evolving document, more testing would further enrich the framework by reducing the errors and increased objectivity, thereby making it more scalable and productive.
2. **Validation:** As the framework is simple and easy to use, it can also be used by individuals or organisations of persons with disabilities and other marginalised groups, to assess the accessibility in public buildings frequently visited by them. It will not only validate the rating systems announced by the building owners but also periodically highlight the gaps. The periodic audits as suggested in the framework will also validate the effectiveness of different accessibility features. Further, it can also act as a proficient system for examining the accessibility of buildings by municipal corporations.
3. **Adoption:** The framework needs to be widely adopted and implemented in order to bring the desired change in the state of accessibility. For wider and faster adoption, the framework should be converted into a simple digital platform, that can easily be used for assessment of the various public buildings, not only by architects, engineers but also buildings, users who are persons with disabilities among others.
4. **Training:** Training and capacity building of the professionals including architects, civil engineers and structural engineers is critical for conducting audit checks, to assess accurate implementation of accessible building features, seamless flow of accessibility among various elements and finer details related to objectivity, sensitivity and technicality of the features. It

is important to not only strengthening the technical point of view, but also integrate sensitivity about the needs of persons with disabilities and understanding the existing barriers (social, physical, communications, attitudinal and financial).

5. **Larger Applicability and Scale-up:** The framework will also create a database of A rating buildings, help in identification of best practice that can act as a lighthouse/ inspiration for other buildings. In addition the framework will also provide a blue print for the professionals/ building owners to improve the state of accessibility. This rating system could aid in cultivating a holistic ecosystem where the inclusion of accessibility features becomes an inherent part of urban ecosystem.

4 Annexures

4.1 Framework

Name of the Building:

Building Use:

Number of floors:

Address:

Purpose of Evaluation:

Name of the auditor:

Qualification:

Name of the Building Owner:

Address:

4.1.1 Design Conceptualization

Sl.no	Parameters	Significance	Marking	Marks Obtained	Remarks
1	<i>User need assessment - Collection and use of disaggregated data on users with respect to disabilities and other intersectionalities during the feasibility and conceptuation stage</i>	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	<i>Engagement of Universal Accessibility Expert in the design team/ stage</i>	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

3	<i>Adherence to the Harmonised Guidelines, 2021 or other guidelines in the design stage</i>	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	<i>Tendering and Procurement policies include accessibility elements</i>	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	<i>Training and Capacity building of the team and contractor</i>	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Design Conceptualisation	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.2 Site Entrance

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	<i>Legibility and visibility of the Signage</i>	M	Not Applicable -- 0 marks Provided in an unsatisfactory manner -- 3 marks Provided in a satisfactory and accessible manner, acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	<i>Provision of site plan/site navigation map at the entrance with tactile/braille and audio features</i>	M	No accessible map/plan available -- 0 marks Available with either tactile/braille or audio feature -- 3 marks Available with tactile/braille or audio feature, acceptable as a best practice -- 5		

			marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of TGSIs for independent movement from accessible site entry to accessible building entrance in appropriate manner	M	Not available -- 0 marks Provided but in unsatisfactory manner -- 3 marks Provided in an accessible and satisfactory manner- Acceptable as a best practice-- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of an accessibility of the counter at the security gate	M	Accessible Counter is provided -- 5 marks Accessible counter is missing but personal assistance is available -- 3 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Provision of an accessible pedestrian entry gate (atleast 900 mm wide (clear))	M	Inaccessible and Unsatisfactory -- 0 marks Accessible but unsatisfactory -- 3 marks Accessible and satisfactory - Acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Site accessibility from the public transport nodes	O	Inaccessible and Unsatisfactory -- 0 marks Accessible but Unsatisfactory -- 3 marks Accessible and Satisfactory, Acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Accessible pedestrian walkway leading the site, atleast 1200 mm wide with appropriate TGSIs	O	Inaccessible and Unsatisfactory -- 0 marks Accessible but Unsatisfactory -- 3 marks Accessible and Satisfactory, Acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
8	Provision of accessible crossing near the entrance	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Provision of a levelled entry to the site from the footpath/road	M	Yes -- 5 marks No -- 0 marks		

			NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Site Entrance	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.3 Parking

Sl. No.	Parameter	Significance	Marks	Marks Obtained	Remarks
1	Accessible parking spaces (two wheeler and four wheeler) located in close proximity from the accessible building entrance	M	Not Provided -- 0 marks Provided at more than 30m from accessible entrance -- 3 marks Provided at less than 30m from accessible entrance -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Provision of number of accessible parking spaces as per the Planning and Harmonised Guidelines ³	M	Not Provided -- 0 marks Provided but not Adequate -- 3 marks Adequate and Satisfactory - as per the norms -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

³ 1 no. upto 50 parking lots; 2 nos. upto 100 parkings lots; additional 1no. for every subsequent 100 parking lots

3	Availability of enough side and rear transfer zone in the parking space	M	Not available / Not as per the standards -- 0 marks Accessible but Unsatisfactory compliance -- 3 marks Accessible and satisfactory - Acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Accessible pathway from the accessible parking/drop-off zone to the accessible main entrance	M	1 -- 0 marks 2 -- 3 marks 3 -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Accessible parking spaces clearly marked by international symbol of accessibility	M	Both painted as well as visible signage provided -- 5 marks Either painted or visible signage provided - 3 marks No visible signage provided-- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Accessible parking used only by persons with disabilities	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Parking space linked to the accessible pathway using kerb ramps	M	Not connected -- 0 marks Partially Accessible -- 3 marks Accessible and Satisfactory -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
8	Provision of adequate illumination levels in the parking	O	Not available at all -- 0 marks Available but unsatisfactory -- 3 marks Adequate and satisfactory -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Parking	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.4 Access Routes

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provision of adequate width for walkway (1200mm (one way movement) - 1800 mm (two way movement))	M	Not available at all -- 0 marks Available but unsatisfactory -- 3 marks Adequate and satisfactory -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Provision of walkway with appropriate gradient slope at 1:20 or less	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of resting spaces at walkways greater than 60m in length	O	Not provided -- 0 marks Provided but at more than 30m apart -- 3 marks Provided at every 30m -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provisions of handrails on both sides of the access route	O	Not provided -- 0 marks Provided at both sides at two levels -- 3 marks 3 -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Provision of handrails at two levels (760 & 900 mm) - as per Harmonised Guidelines, 2021	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Provision of appropriate TGSIs along the length of the walkway	M	Not provided -- 0 marks Provided but not adequate -- 3 marks Adequate and satisfactory -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Contrasting color strips or distinct material change highlighting the level changes in the walkway	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

8	Access route free of manholes or inspection chambers or top cover flushed with the top of the walkway with warning tiles around	M	Hazardous, inaccessible, unsatisfactory -- 0 marks Accessible but unsatisfactory -- 3 marks Accessible and satisfactory- Acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Perpendicular placement of grating along the access route (with a maximum gap of 12mm wide)	M	Not provided at all appropriate places -- 0 marks Accessible but unsatisfactory -- 3 marks Accessible and satisfactory - acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
10	Provision of adequate illumination along the walkway	M	Not illuminated -- 0 marks Not adequate/uniformly illuminated -- 3 marks Provision of adequate lighting at multiple levels - Acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
11	Provision of accessible and adequate signages along the access route	M	Not provided -- 0 marks Provided but not adequate -- 3 marks Adequate and satisfactory- as per the norms -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Access Route	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.5 Kerb Ramps

Sl. No.	Suggested Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provision of an obstruction-free kerb ramp	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Provision of warning tiles TGSIs at beginning and end of the kerb ramp in appropriate manner	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of kerb ramp with a minimum slope (1:12)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of kerb ramp with minimum 900 mm width	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Kerb Ramps	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.6 Ramps

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provision of a ramp at every level difference	M	Not provided at all -- 0 marks Provided only at few places -- 3 marks Provided at all level difference -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Ramps are clearly identifiable	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of a ramp with appropriate gradient slope (maximum at 1:12)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of landing at regular intervals for longer ramps (at least 1500 mm x 1500mm provided at every 9m intervals)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Provision of a landing (at least 1500 mm x 1500mm) at every change in direction	M	No landing provided -- 0 marks Provided but with unsatisfactory compliance -- 3 marks Accessible and Satisfactory- acceptable as best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Provision of the landing of adequate size at the top and bottom of every ramp	M	No landing provided -- 0 marks Provided but with unsatisfactory compliance -- 3 marks Accessible and Satisfactory- acceptable as best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Appropriate width of the ramp (minimum 1500 mm)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

8	Provision of a continuous handrail on both sides of the ramp (at 760 & 900 mm, as per specification given in Harmonised Guidelines, 2021)	M	Not provided -- 0 marks Provided at one side or at only one level -- 3 marks Provided at both sides at two levels -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Provision of a non-slippery ramp surface	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
10	Provision of edge protection on both sides of the ramp	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
11	Provision of warning TGSIs at the beginning and end in appropriate manner	M	Not provided -- 0 marks Provided but not adequate -- 3 marks Adequate and satisfactory- as per the norms -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
12	Provision of adequate Illumination	O	Not provided -- 0 marks Provided but not adequate -- 3 marks Adequate and satisfactory- as per the norms -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Ramps	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.7 Main Entrance

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Main building entrance is the accessible entrance	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Are all entrances of the buildings accessible	O	Only one entrance -- 0 marks Some entrances w=along with main entrance -- 3 marks All entrance -- 5 marks NA -- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of handrails at the steps (If there are steps at the accessible entrance)	M	No handrails -- 0 marks Handrails provided at only one side -- 3 marks Handrails provided at both sides -- 5 marks NA -- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of a ramp to the accessible entrance (at level difference)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Provision of handrail for the accessible ramp (at 760 and 900 mm- as per specification given in Harmonised Guidelines, 2021) on both sides	M	Not provided -- 0 marks Provided at one side or at only one level -- 3 marks Provided at both sides at two levels -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Provision of a non-slippery landing surface	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

7	Provision of a door with appropriate clear width (Minimum 900 mm)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
8	Accessible entrance door can be operated independently	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Door handles placed between 800 and 1100 mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
10	Provision of an accessible route from the accessible entrance to the nearest accessible elevator	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
11	Provision of accessible entrance have the signage	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
12	Provision of TGSIs warning tiles at beginning and end of steps and ramps in appropriate manner	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
13	Accessible provisions at the Security checks	M	Appropriate width is provided -- 5 marks Alternative provisions -- 3 marks No provisions- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Main Entrance	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.8 Reception

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provision of easily identifiable counters	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Provision of noticeable signage	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of sufficient space for wheelchairs in-front of the reception/information counters	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Part of the counter is lowered to an accessible height (750 mm to 800 mm) with specified knee and toe clearances	M	Lower counter is not provided -- 0 marks Provided but unsatisfactory -- 3 marks Accessible and satisfactory- acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Provision of a loop induction unit/assistive technologies for persons with hearing impairment at the counter	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Provision of tactile pictural maps of the building in the reception area	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Provision of adequate illumination at the counter	M	Not illuminated -- 0 marks Not adequate/uniformly illuminated -- 3 marks Provision of adequate lighting at multiple levels - Acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

8	Provision of a waiting space (with ample maneuvering space for wheelchair)	M	No waiting area provided -- 0 marks Waiting area without not adequate maneuvering space -- 3 marks Waiting area with ample wheelchair maneuvering space -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Provision of TGSIs guiding to the counter from the gate in appropriate manner	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Reception	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.9 Corridors

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provision of unobstructed corridors with an appropriate width (1200 mm)	M	Not adequate width -- 0 marks Adequate width but with obstructions -- 3 marks Obstruction free connection -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Corridor width allowing manoeuvring through doors located along its length	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

3	General slope (if any) of the corridor is more than 1:20, with no level difference	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	No protruding objects or easily detectable using white cane	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	All overhanging obstructions to be mounted above an appropriate height (2200 mm)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Provision of contrasting colours and directional signages for ease of movement for persons with vision impairments	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Provision of signages to identify entry to different spaces	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
8	Resting provisions at required intervals in the corridor without interfering with the free movement zone	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Provision of adequate illumination	M	Not illuminated -- 0 marks Not adequate/uniformly illuminated -- 3 marks Provision of adequate lighting at multiple levels - Acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
10	Is there a provision of TGSIs in the corridor space in appropriate manner	O	Not provided -- 0 marks Provided but only at some places -- 3 marks Provided at all places- Acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Corridors

Applicable parameters

Applicable total marks

Marks obtained

4.1.10 Doors

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provision of easily operable doors	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Provision of automatic doors with sufficient long opening intervals	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of only three sided door frame to ensure obstruction free entry	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of push buttons for automatic doors located at an appropriate height of 1000 mm	O	Not available at desired height -- 0 marks Accessible with assistance -- 3 marks Provided at desired height -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Provision of sufficient space (450-600mm) beside the latch side of the doors	M	No space provided -- 0 marks Not enough space provided -- 3 marks Desired space provided -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Provision of accessible doors placed adjacent to the revolving doors and turnstiles	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Provision of glazed doors marked with a colour band at eye level	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

8	Atleast 900 mm clear width	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Provision an extra pull handle for spring closers fitted door	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
10	Provision of proper signage to identify the accessible doors	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Doors	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.11 Lifts

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provision of accessible path leading to the elevator	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Provision of an easily identifiable elevator door	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of door opening with minimum clear width of 900 mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

4	<i>minimum internal dimensions of the elevator 1900 mm x 1900 mm minimum or having 13 persons capacity</i>	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	<i>Provision of a call button (outside the lift) with a minimum height between 900 mm – 1200mm, from the floor level</i>	M	Yes -- 5 marks No -- 0 marks		
6	<i>Placement of the control panel at a height between 900 mm – 1200mm, from the floor level</i>	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	<i>Provision of handrails mounted at a height between 800 mm-900 mm from the floor level</i>	M	Not provided -- 0 marks Provided but not adequate -- 3 marks Adequate and satisfactory- as per the norms -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
8	<i>Provision of an audio and video system in the lift indicating floor arrival</i>	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	<i>Provision of tactile/braille numbers on the control panel</i>	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
10	<i>Provision of mirror on opposite side of lift door</i>	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
11	<i>Provision of a handrail on the three sides within the elevator</i>	M	Not provided at all -- 0 marks Provided but not on all three sides -- 3 marks Provided and Satisfactory -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
12	<i>Handrails mounted at an appropriate height (750 mm - 900 mm)</i>	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

13	Provision of an emergency intercom inside the elevator	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
14	Provision of tactile/braille instructions for the communication system	O	Not provided, inaccessible -- 0 marks Supported with manual assistance -- 3 marks Accessible and satisfactory -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
15	Provision of a usable emergency intercom that can be used in more ways than only voice communication	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
16	Provision of automatic doors for elevators with adequately longer time interval for door opening/closing	M	Inaccessible and Unsatisfactory -- 0 marks Accessible but unsatisfactory -- 3 marks Accessible and satisfactory - Acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
17	Provision of skid-resistant elevator floor finish	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Lifts	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.12 Staircase

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provision of a staircase with an appropriate minimum width (1500mm)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Provision of continuous handrails on both sides at at two heights 760mm & 900mm (as per specification given in Harmonised Guidelines, 2021)	M	Not provided -- 0 marks Provided at one side or at only one level -- 3 marks Provided at both sides at two levels -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of handrails installed in the centre for staircases more than 3000 mm wide	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of landing atleast 1500 mm wide at regular interval	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Provision of step edges with contrasting strips (different colour or texture) easily identifiable by people with low-vision and vision impairment	M	Not provided -- 0 marks Not adequate contrast/texture -- 3 marks Acceptable as best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Provision of warning blocks installed at the beginning and end of all flights	M	Not provided -- 0 marks Provided but not adequate -- 3 marks Adequate and satisfactory- as per the norms -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Height of the risers maximum of 150 mm & treads a minimum of 300 mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

8	Provision of an intermediate handrail for stairs larger than 2400 mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Provision of staircase treads with a non-slippery surface	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
10	No staircase is curved or spiral	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
11	Adequate illumination in all flights of the staircase	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Staircase	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.13 Handrails (Other than the staircase)

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provisions of handrails mounted at two heights 760 mm & 900 mm (as per specification given in Harmonised Guidelines, 2021)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

2	Provision of easy to grip handrails	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of securely attached handrails	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Handrails extend horizontally 300 mm at the top and bottom of every staircase or ramp	M	Not provided -- 0 marks Provided only at some places -- 3 marks Acceptable as best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Handrails endings grouted in the ground or turned downwards	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Provisions of adequate space between the handrails and the wall	M	Not provided/ Unsafe -- 0 marks Provided but not adequate -- 3 marks Acceptable as best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Handrails painted in contrast colour	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
8	Provisions of tactile strip/braille plates on the handrails for emergency stairs and floor levels at beginning and end	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Gap between Horizontal bars safe for children	M	Not provided -- 0 marks Provided but not adequate -- 3 marks Adequate and satisfactory- as per the norms -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Handrail

Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.14 Sanitary Provisions

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	<i>provisions for accessible toilet in both male and female toilets as well as unisex toilet</i>	<i>M</i>	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
2	<i>Provision of easy identification of accessible toilets</i>	<i>M</i>	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
3	<i>Provision of sufficient space inside the toilets to manoeuvre a wheelchair as per the Harmonised Guidelines, 2021</i>	<i>M</i>	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
4	<i>Provision of sanitary features as per Harmonised Guidelines, 2021</i>	<i>M</i>	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
5	<i>Provision of water closet (WC) and bidets mounted at a height between 450mm – 480mm</i>	<i>M</i>	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
6	<i>Provision of space between the WC and the closest adjacent wall fitted with a grab bar between 450 mm – 500mm</i>	<i>M</i>	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
7	<i>Provisions of an accessible washbasin mounted at an appropriate height between</i>	<i>M</i>	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the</i>		

	750mm – 850mm		marking. Give reasons in Remarks		
8	Positioning of the lower edge of the mirror at an appropriate height not exceeding 1m	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Provision of folding seat in accessible showers	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
10	Provision of grab bars near WC and showers between 750 – 850 mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
11	Provision of grab bars with a diameter of 38 mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
12	Provision of wall mounted grab bars with a knuckle space of 50 mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
13	Provision of non-slippery grab bars	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
14	Provision of grab bars withstanding a load of minimum 200kg	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
15	Provision of easy to grip faucets that are operational with one hand	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
16	Provision of shower fixtures with 1500mm long hoses	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

17	Provision of insulated or covered hot water pipes	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
18	Provision of functioning emergency alarm system equipped toilets	M	Not provided -- 0 marks Provided but not functional -- 3 marks Provided and functional -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
19	Provision of doors that can be locked from inside and released from outside under emergency situations	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
20	Provision of flushing arrangements, dispensers and toilet paper mounted between 300mm and 800mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
21	Provision of easy to operate flushing equipment	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
22	Provision of skid proof, well drained and waterproof floor material	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
23	Provision of washroom doors that open inward/outwards/both ways	M	Provision of inward opening door -- 0 marks Provision of outward opening door -- 3 marks Provision of both way opening door -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
24	Provision of call bells for raising alarm in case of emergency	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Sanitary Provisions	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.15 Drinking Water

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provision of an accessible water tap/spout (easily manoeuvred drinking facility by a person with poor hand function/wheelchair user)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Provision of a dry and hygienic drinking water area with adequate drainage	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision grating as per design suggested in Harmonised Guidelines, 2021	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of glasses/water filling stations at accessible height	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Provision of drinking water facility as per dimensions specified section 4.8 of Harmonised Guidelines,2021 ⁴	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

⁴ Height of the counter 750mm, tap 100mm above the counter height, basin width 400-450mm

Summary for Drinking Water	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.16 Eating Outlet

Sl. No.	Parameters	Significance	Marking	Marks Obtained	
1	Provision of circulation path of at least 900 mm wide to allow a wheelchair user to move around the eating outlet	M	Not provided -- 0 marks Provided but not adequate -- 3 marks Adequate and satisfactory- as per the norms -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Provision of service counter at an appropriate height below 800mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provisions of accessible spaces with appropriate eating table and moveable furniture	M	Not provided -- 0 marks Provided but not adequate -- 3 marks Adequate and satisfactory- as per the norms -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of doorways to the eating facilities with clear width of atleast 900 mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Provision of accessible cash counter at height of 760-800 mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

6	Provision of accessible menu cards wherever applicable	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Provision of accessible drinking water facilities	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Eating Outlet

Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.17 Workspace

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Manoeuvring space of 1500 mm between the aisles	M	Not accessible -- 0 marks Accessible but unsatisfactory -- 3 marks Fully Accessible and Satisfactory -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Anti-slippery floor surface to allow for easy wheelchair manoeuvrability	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Desk height between 750 - 800 mm with clear knee space (900 mm wide and 480 mm deep)	M	Not accessible -- 0 marks Either adequate desk height or clear knee space -- 3 marks Fully Accessible and Satisfactory -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

4	Round/ chamfered edges for desks	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Adjustable swivel chairs to be provided	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Use of contrasting colour for sockets and switches should be encouraged	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Provision of Tactile Guiding Path (TGSIs) in desired/ recommended manner in the aisle space	M	Not provided -- 0 marks Provided but not adequate -- 3 marks Adequate and satisfactory- as per the norms -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
<i>Total</i>					

Summary for Workspace	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.18 Signage & Wayfinding

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Accessible spaces identified by the international symbol of accessibility	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

2	Provision of directional signs indicating the location of accessible facilities	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Placement of maps, information panels and wall-mounted signs at a height between 900mm and 1800mm	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of Clear, simple and easy to read signage in different vernaculars	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Provision of Clearly distinguishable signage colour	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Provision of Anti-glare signage surfaces	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Provision of signages with tactile/braille system next to information signs	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
8	Lettering size visible as per the farthest reading distance	M	Not readable -- 0 marks Difficult to Read -- 3 marks Easy to Read -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
9	Provision of bilingual/trilingual format signages	M	Not provided -- 0 marks Only few languages -- 3 marks In all popular languages -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
10	Provision of signages that have appropriate pictograms for ease in identification/navigation	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

11	<i>Provision of adequate signage at every decision point</i>	<i>M</i>	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
<i>Total</i>					

Summary for Signage and Wayfinding	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.19 Emergency Exits

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	<i>Marking of emergency exits with directional arrow signs along with auditory announcements</i>	<i>M</i>	<i>No marking -- 0 marks Marking but not satisfactory/adequate -- 3 marks Accessible and satisfactory marking -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
2	<i>Provisions of accessible assembly spaces</i>	<i>M</i>	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
3	<i>Accessible assembly areas adequately connected with emergency exits</i>	<i>M</i>	<i>Not provided -- 0 marks Provided but with obstructions -- 3 marks Obstruction free connection -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
4	<i>Provision of adequate width (1200 mm wide) of emergency exits</i>	<i>M</i>	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the</i>		

			marking. Give reasons in Remarks		
5	Provision for both audio and visual alarm system	M	Not provided -- 0 marks Either audio or visual is provided -- 3 marks Both audio and visual is provided -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Location of emergency (fire escape) stairs clearly identifiable	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
7	Provision of easily operable fire extinguishers	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Emergency Exits	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.20 Public Telephone

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provisions of at least one telephone in the building being equipped with a loop induction unit	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		

2	Provisions of numerals with tactile/braille system for easy identification	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provisions of telephone mounted at an appropriate height (between 800mm and 1000 mm)	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of a clear maneuvering space	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Public Telephone	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.21 Resting Facilities

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Provisions of resting facilities at large places at minimum 30 m intervals	M	Not provided -- 0 marks Provided but at more than 30 m apart -- 3 marks Provided at every 30 m (or less) -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Provision of an adjoining space for a wheelchair next to benches and public seats	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Provision of public seats with	M	Yes -- 5 marks		

	with height of 450mm - 500mm		No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Provision of backrest, arm rest and seating for children	O	No provision at all -- 0 marks Provision of either backrest or arm rest - - 3 marks Provision of backrest, arm rest and seating for children- acceptable as a best practice -- 5 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
Total					

Summary for Resting Facilities	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.22 Other Provisions

Sl. No.	Suggested Parameters	Significance	Marking	Marks Obtained	Remarks
1	Availability of Personal assistance in the building	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Sensitization drives of the staff members	M	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Availability of sign language interpreters	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Annual maintenance of	M	Yes -- 5 marks		

	<i>accessibility elements</i>		<i>No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
5	<i>Training and Capacity building of the staff members</i>	O	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
6	<i>Use of assistive technology</i>	O	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
7	<i>Provision of quiet spaces/ meditation spaces</i>	O	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
8	<i>No use of overtone colors in the building</i>	O	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
9	<i>Provision of adequate signage for persons with neuro diversities</i>	M	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
10	<i>Provisions of ISL support or assistive technology for accessibility to persons with hearing impairments</i>	O	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
11	<i>Provisions of digital assistance to persons with visual impairments</i>	O	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
	<i>Provision of contrasting colour illuminations at appropriate places</i>	O	<i>At all places -- 5 marks At some places only – 3 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
	<i>Provision of adequate visual contrast in interiors</i>	O	<i>At all places -- 5 marks At some places only – 3 marks No -- 0 marks NA-- Criteria won't be calculated in the</i>		

			marking. Give reasons in Remarks		
Total					

Summary for Other provisions	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.1.23 Operations and Monitoring

Sl. No.	Parameters	Significance	Marking	Marks Obtained	Remarks
1	Regular Maintenance of accessible infrastructure	M	Three-six months-- 5 marks Less than a year -- 3 marks More than one years -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
2	Periodic audits/check on status of accessible infrastructure (not more than 6 months)	M	Less than a year -- 5 marks Once in three years -- 3 marks More than three years -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
3	Periodic check on availability of personal assistance	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
4	Accessible mechanisms for complaint and grievances registration	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
5	Representation of Disability group in the grievance redressal committee	O	Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks		
6	Accessible mechanisms for user	M	Yes -- 5 marks		

	<i>feedback</i>		<i>No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
7	<i>Periodic check on surrounding environment for seamless accessibility</i>	0	<i>Yes -- 5 marks No -- 0 marks NA-- Criteria won't be calculated in the marking. Give reasons in Remarks</i>		
Total					

Summary for Operations and Maintenance	
Applicable parameters	
Applicable total marks	
Marks obtained	

4.2 About the Committee

In this regard, a committee was formulated by the Ministry of Housing and Urban Affairs, for the purpose of developing a set of guidelines and provisions for the certification of accessible buildings in February, 2022. On recommendation by the Department of Empowerment of Persons with Disabilities (DEPwD), Ministry of Social Justice and Empowerment (MoSJE), the committee consisted of the following MoSJE officials, Central Public Works Department (CPWD) officials and sectoral experts.

- Shri Hitesh Vaidya, Director, NIUA (Chairperson and Convener)
- Mr Abhishek Bose, Senior Architect, CPWD
- Ms Kanika Bansal, (Architect Planner) Sr. Program Associate, BASIIC, NIUA
- Ms Deepali Mishra, Architect, CPWD
- Shri Vineet Singhal, Director, DEPwD
- Prof. Gaurav Raheja, Professor, IIT-Roorkee
- Prof. Haimanti Banerji, Associate Professor, IIT-Kharagpur

4.3 Proceedings and Findings of the Committee

The committee was formulated in February 2022. Since then the committee has been deliberating on formulation of the framework for accessibility certification. The first meeting, held in March 2022, of the committee discussed various considerations and variations of the built environment, to be included in the framework. Upon the discussion, the first draft of the framework was prepared and circulated for comments. In the subsequent meeting of the committee, held in April 2022, the committee deliberated on strengthening objectivity of the framework and adoption of a robust scientific process. In the process the committee identified that no such framework for accessibility certification exists in the globe, and ABLE-India framework will not only be the first in India but also set the precedent internationally. The minutes of the committee meetings are annexed.

4.4 Methodology Emerged

4.4.1 Review:

The following process was adopted for the development of ABLE-INDIA;

- 1) A systematic review of the existing checklists and popular rating systems (of other domains) was taken up to understand the design, function, workability and output of frameworks.
- 2) Identification of parameters and elements of the built environment that are critical for accessibility evaluation of any building particularly a public building, for statistical analysis of the building and creation of a robust rating system.
- 3) Formulation of categories and assessing the importance of parameters through focused discussions and deliberations among the committee members via virtual and in-person meetings and interactions.
- 4) Development and adoption of a scientific process for scoring and grading - The DELPHI survey was conducted to identify the weightage of each element and their nature - mandatory and optional. Incorporation of a Likert scale to capture the perception of accessibility in relevant parameters, was another significant advancement in the framework.

Comments and suggestions from the beneficiaries, organizations, professionals and city officials are invited on the draft framework.

4.4.2 Validation:

To corroborate the objectivity and scope of differential markings within the certification framework, the listed features and parameters were audited by different individuals from different backgrounds including architects, engineers, social scientists, building owners etc. To ground testing were conducted at two renowned public buildings i.e. Vigyan Bhawan and Nirman Bhawan. The testing including assessment of the buildings features relevant to support visitability of these buildings. The system involved mapping the movements of a person entering the buildings and visiting the relevant part of the building to the public. The ground testing led to modifications both in terms of language, marking criteria, and incorporation of relevant information in the framework. It also highlighted some

of the ground challenges, real time scenarios and the need for a digital platform to capture the information. Assessment sheets for the buildings are annexed.

4.4.3 Participatory Process:

Simultaneously the framework was put in public domain, on CPWD and NIUA websites, inviting comments and suggestions on the draft framework for a month, from 9th June 2022 till 9th July 2022. On receipt of no comments from the public, the same was also circulated among selected sectoral experts, professional bodies, disable people organizations and other relevant stakeholders. Subsequent comments received are duly considered by the committee for incorporation into the framework. Also, the framework was reviewed to Department of Empowerment of Persons with Disabilities (DEPwD), and the comments received are considered and incorporated as applicable.

4.5 Ground-Truthing Reports

4.5.1 Nirman Bhawan

Date of Audit – 08.08.22

Sl. No.	Features	Mandatory/ Optional	Auditor 1	Auditor 2	Auditor 3	Auditor 4	Remarks
1	Design conceptualisation	O	0	0	0	0	
2	Site Entrance	M	175	100	100	100	
3	Parking	M	160	120	140	140	
4	Access Route	M	175	125	25	100	
5	Kerb Ramps	O	80	80	80	80	
6	Ramps	M	275	275	275	225	
7	Main Entrance	M	275	275	250	275	
8	Reception	M	60	160	160	140	
9	Corridors	M	225	225	200	175	
10	Doors	M	0	0	0	0	
11	Lifts	M	425	400	425	425	
12	Staircase	M	0	225	200	150	Manual Error
13	Handrail	M	0	0	0	0	
14	Sanitary Provisions	M	525	525	500	525	
15	Drinking Water	O	0	0	0	0	
16	Eating Space	O	120	120	120	120	
17	Workspace	O	0	0	0	0	
18	Signage and Wayfinding	M	0	0	0	225	
19	Emergency Exits	M	0	0	0	150	
20	Public Telephone	O	0	0	0	0	
21	Resting Facilities	O	0	0	0	80	
22	Other provision	O	0	0	0	120	
23	Operations and Monitoring	O	0	0	0	175	
			2495	2630	2475	2455	

4.5.2 Vigyan Bhawan

Date of Audit – 04.08.22

Sl. No.	Features	Mandatory/Optional	Auditor 1	Auditor 2	Auditor 3	Auditor 4	Auditor 5
1	Design conceptualisation	O	0	0	0	0	0
2	Site Entrance	M	75	150	100	125	175
3	Parking	M	160	160	160	140	160
4	Access Route	M	150	100	150	200	175
5	Kerb Ramps	O	0	0	0	0	0
6	Ramps	M	275	300	250	225	250
7	Main Entrance	M	300	300	300	275	200
8	Reception	M	160	160	160	140	160
9	Corridors	M	200	200	200	175	125
10	Doors	M	125	125	125	75	175
11	Lifts	M	425	425	400	425	400
12	Staircase	M	275	225	250	200	250
13	Handrail	M	160	180	180	120	160
14	Sanitary Provisions	M	500	475	500	525	500
15	Drinking Water	O	0	0	0	0	20
16	Eating Space	O	120	120	120	120	120
17	Workspace	O	0	0	0	0	0
18	Signage and Wayfinding	M	250	250	275	225	225
19	Emergency Exits	M	150	150	150	150	125
20	Public Telephone	O	0	0	0	0	0
21	Resting Facilities	O	80	60	60	80	60
22	Other provision	O	120	120	120	120	100
23	Operations and Monitoring	O	175	100	175	175	175
			3700	3600	3675	3495	3555

4.6 Minutes of 1st Meetings of Committee

Date: 11th March 2022

Time: 11:30 -12:30

Committee Members present:

1. **Sh. Hitesh Vaidya**, Director, NIUA (Chairperson and Convener) - **(In-person)**
2. **Mr Abhishek Bose**, Senior Architect, CPWD - **(In-person)**
3. **Ms Kanika Bansal**, Sr. Program Associate, BASIIC, NIUA- **(In-person)**
4. **Sh. Vineet Singhal**, Director, DEPwD - **(Virtually)**
5. **Prof. Gaurav Raheja**, Professor, IIT-Roorkee - **(Virtually)**
6. **Prof. Haimanti Banerji**, Associate Professor, IIT-Kharagpur - **(Virtually)**

Mode - Hybrid

Discussion Points of the meeting

- *Qualification of the Auditor*
- *Concurrence on including parameters for Canteen*
- *Visual Representation of the Grade of Building on the Plaque*

Minutes of the meeting

1. The chairmanship welcomed all committee members and set forth the expectations from the committee, as per the terms of reference and elaborated on the need for the evaluation and certification for accessibility.
2. Mr. Abhishek Bose, Senior Architect, CPWD, presented the draft of the evaluation framework prepared for certification of public buildings.
3. The committee members appreciated the efforts and observations. **Broad points highlighted includes-**
 - A broader vision should be explored while framing the guidelines for evaluation and certification. Also the validity of the certification should be monitored.
 - A seamless compliance for accessibility should be ensured in determining the elements. Eg. Signage and wayfinding for the Main entrance should be included.
 - Weighted Index approach for various elements as well as parameters could be explored while framing the guidelines.

- Sensitivity and technical competency for the subject matter should be explored as the key criteria to be qualified for the auditor. The certificate course on Harmonized Guidelines could become the main criteria.
 - Strategies to be explored to incorporate consideration of building typology, design philosophy, and building design.
 - A more comprehensive approach like 'Ease of human interaction with the environment' to the rating should be explored.
 - The certification process and criteria should be practical and easy to implement for the state and cities.
 - Scope of the criteria should include aspects like age of building, building typology, maintenance and operations etc.
 - The checklist of parameters should be simple to understand and practice; yet ensure reliability and validity.
 - The checklist should be aligned to the evaluation criteria specified in Chapter-8 of the Harmonized Guidelines, 2021.
4. The Chair concluded the meeting emphasizing the process should be practical and citizen centric. A 360 degree view should be facilitated keeping in mind the short, medium and long term impacts of the process. He also shared NIUA's vision to translate certification into digital medium, to make it more user friendly.

5. Action Points-

- a. A simple, yet effective and comprehensive framework to be developed for certification.
- b. All committee members should review and give their written comments on the first draft within 10 days.
- c. Upon the receipt of the comments, NIUA would organize the next meeting as an in-person workshop.

4.7 Minutes of 2nd Meeting of Committee (Workshop Mode)

Date: 27th April 2022

Time: 12:00 pm- 05:30 pm

Mode: In-person meeting

Committee Member present-

Mr. Hitesh Vaidya, Director NIUA (Chairperson and Convenor)

Prof. Gaurav Raheja, Professor, IIT- Roorkee

Prof. Haimanti Banerji, Associate Professor, IIT- Kharagpur

Mr. Abhishek Bose, Senior Architect, CPWD

Ms. Kanika Bansal, Senior Programme Associate, NIUA

Discussion Points of the meeting

1. Finalization of the list of parameters for accessibility evaluation
2. Discussion on the scoring mechanisms
3. Discussion on integrating certification into practice

Minutes of the meeting

1. The chairman welcomed the members and set the expectations for the committee meeting. He highlighted the significance of the exercise and its anticipated impact on the upcoming infrastructure development projects. He also indicated the usefulness of converting the framework into the form of a mobile application.
2. Ms. Kanika Bansal, NIUA presented the revised framework for the evaluation and certification system. In reflection on the minutes of the last meeting, she explained the applicability of the said framework to only public buildings. Dedicated frameworks could be developed for other building uses, if required. Also, only applicable parameters, as per building use and design, should be used to measure the degree of accessibility of the concerned building.
3. The committee acknowledged the progress made in the conceptualization of the framework and suggested the following observations and action points-
 - a. "Public building" should be clearly defined
 - b. 'Cycle of evaluation' should be included-- Planning stage, execution stage, emergency and disaster management, and operation management.
 - c. The parameters could be divided into mandatory and optional. To give weightage to each element, **DELPHI** was suggested by internal committee members and members
 - d. A weighted index should be given on a **Likert scale** to each parameter, based on qualitative or quantitative aspects

- e. A 'test it ourselves' exercise would be taken up independently by committee members to understand and critically evaluate 'what works and what doesn't'.
 - f. Integration of Aspects of accountability, reliability, incentive/penalty, and validity in the framework in/to-
 - i. Funding mechanisms towards institution/organization if the building is not according to the standards of bylaws (accessibility aspect)- a tool in fact for transparency and accountability.
 - ii. Architects to be made responsible to retrofit or design according to the standards of accessibility.
 - iii. Periodic checks on the building
 - iv. Identification of good practices by competent authorities.
 - g. Assessment, could be followed by a site inspection by competent authorities, before issue of the certificate.
 - h. Assessment should be accompanied for multiple signatories to finalize the grade of certification
 - i. The process should lead to the special training and capacity building of city officials.
4. The chairperson concluded the meeting with the following points-
- a. The tool should be user friendly.
 - b. DELPHI is to be conducted with anonymity and in a closed, heterogeneous group
 - c. The framework should be efficient and take less than 30 mins to fill in the information.
 - d. Pilot assessment/ testing should be done by each committee member
 - e. The framework should be put in the public domain for comments and suggestions
 - f. It will be a live framework, with scope for periodic modifications
 - g. The same should be converting the tool into a mobile application for ease of use (making it digital)
 - h. The process should be well documented by flowcharts, methodology, relations, and assumptions.
 - i. The limitations of the framework should be clearly stated.
5. Next Steps-
- a. The list of parameters is to be circulated with all the members for their comments and suggestions by 04.05.22.
 - b. NIUA to prepare the format for DELPHI and circulate it with the members
 - c. Committee members to collectively work on the lipid scale for each parameter.
 - d. Additional overarching parameters to be included in the framework - NIUA
 - e. The next meeting will be conducted after comments are received from all members for the finalization of the parameters.

4.8 Minutes of the 3rd Meeting of Committee

Date- 31st August 2022

Time- 2:00 - 4:00 pm

Mode- Hybrid

Venue- 1st floor Conference room, NIUA

Chairperson- Mr. Hitesh Vaidya, Director NIUA

Prof. Haimanti Banerjee, IIT-Kharagpur (virtual),

Prof. Gaurav Raheja, IIT-Roorkee (in person),

Mr. RK Sinha, Senior. Architect CPWD (in person),

Ms. Dipali Mishra, Architect CPWD (virtual),

Ms. Priyadarshini Ghosh, (on nomination) DEPwD (in person),

Ms. Kanika Bansal, NIUA (in person).

Mode - Hybrid

The meeting started with the opening remarks by the chairman and briefing on the progress on the framework since the last meeting. Deliberations and discussion happened on the observations during the ground-truthing exercises, comments received from committee members and from experts.

Critical points and suggestions are as below-

1. The framework is a live document and the present document should be considered as the first version. Launching the framework in Pilot mode to AIC buildings and further incorporate the observations for refinement of the framework. Further modification in the framework could be made depending not only the building typology but also regional and topographical concerns.
2. Suggestion to include operational definitions- reasonable accommodation, visibility and accessibility and full inclusion were discussed. It was decided to extend the framework to measure both visibility and seamless accessibility in buildings.
3. The committee also discussed the differences in various standards and guidelines. Considering the scope of the framework it was agreed that the framework should follow the 'Harmonised guidelines and standards for universal accessibility, 2021' for reference.
4. The committee made deliberation on the ground-truthing exercise and real-life situations like-carpet floor, personal assistance, repeated parameters, drinking waters and sliding doors in

toilets. Committee members gave their observations regarding the sequencing of existing parameters as well as suggested additional parameters.

5. Accountability of the certification was discussed. It was proposed that both the evaluating architect/engineer and the building owner shall be held responsible for authenticity of the certificate.
6. It was also suggested that users of the building including persons with disability could challenge the certificate and demand re-evaluation of the building.
7. The validity of certification was agreed to be five years with periodic audit in every three years.
8. It was agreed to retain the grading as A/B/C/D but each grade should be defined.
9. Like GRIHA Framework, the certification process should include-
 - a. Registration
 - b. Mock course/Orientation
 - c. Auditing
 - d. Certification
10. The framework should also capture the general information about the building.
11. Possibilities on creation of a portal for registration was discussed.

Action points-

1. The framework shall be completed at the earliest and submitted to the Ministry.
2. A web-portal/mobile application shall be developed.

All the committee concur with the framework.