

Assessing ULBs for Garbage Free Cities (GFC) certification while strengthening the solid waste management ecosystem across urban India.

Introduction

IQVIA is a global leader in providing information, innovative technological solutions, and contract research services dedicated to assisting healthcare clients in developing better patient solutions.

Swachh Survekshan, a survey for ranking cities on their cleanliness under which the Star Rating of Garbage Free Cities (GFC) is an initiative by the Ministry of Housing and Urban Affairs (MoHUA).

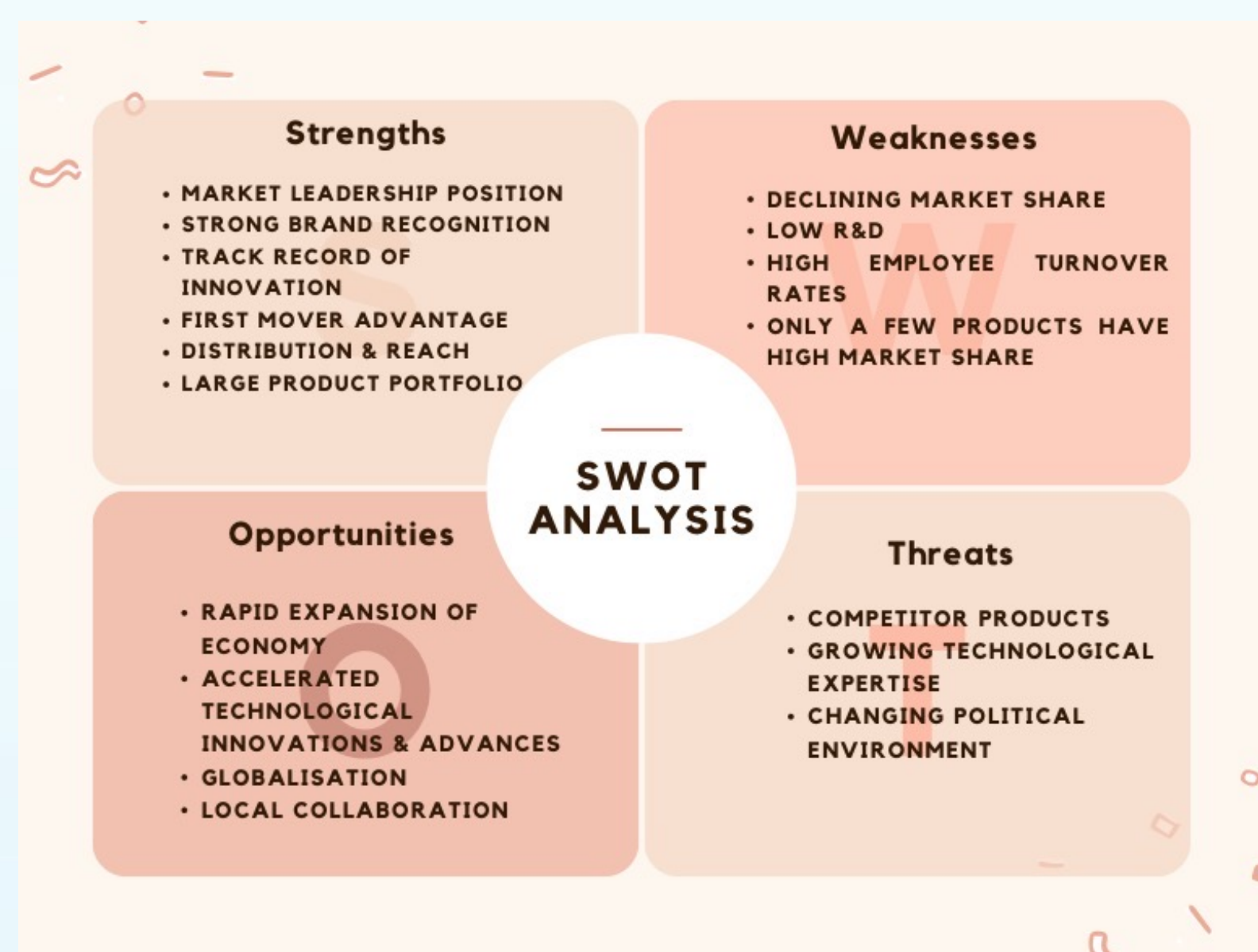
Objective

1. Perform Desktop Assessment (DA) of the Urban Local Bodies (ULBs) for GFC certification compliance.
2. To examine ULBs based on the GFC protocol provided by MoHUA by assessing important 16 components for 1-star and 3-star ULBs and PASS, QUERY or FAIL them while providing relevant reasons for failure.
3. To examine ULBs based on the GFC protocol provided by MoHUA by assessing all 24 components for 5-star and 7-star ULBs and PASS, QUERY or FAIL them while providing relevant reasons for failure.
4. To evaluate the ULBs for the queries raised and PASS or FAIL them while providing relevant reasons for failure.
5. Record the data provided by ULBs in each component in an Excel file in their respective components.

Vision and Mission

Vision: Where every challenge is seen as an opportunity to make a meaningful impact for customers, for patients, for people. Discover a career with purpose and help create a healthier world.

Mission: Our mission is to help create a healthier world. We believe by accelerating innovations and making intelligent connections across the healthcare ecosystem, we can make exponential progress.

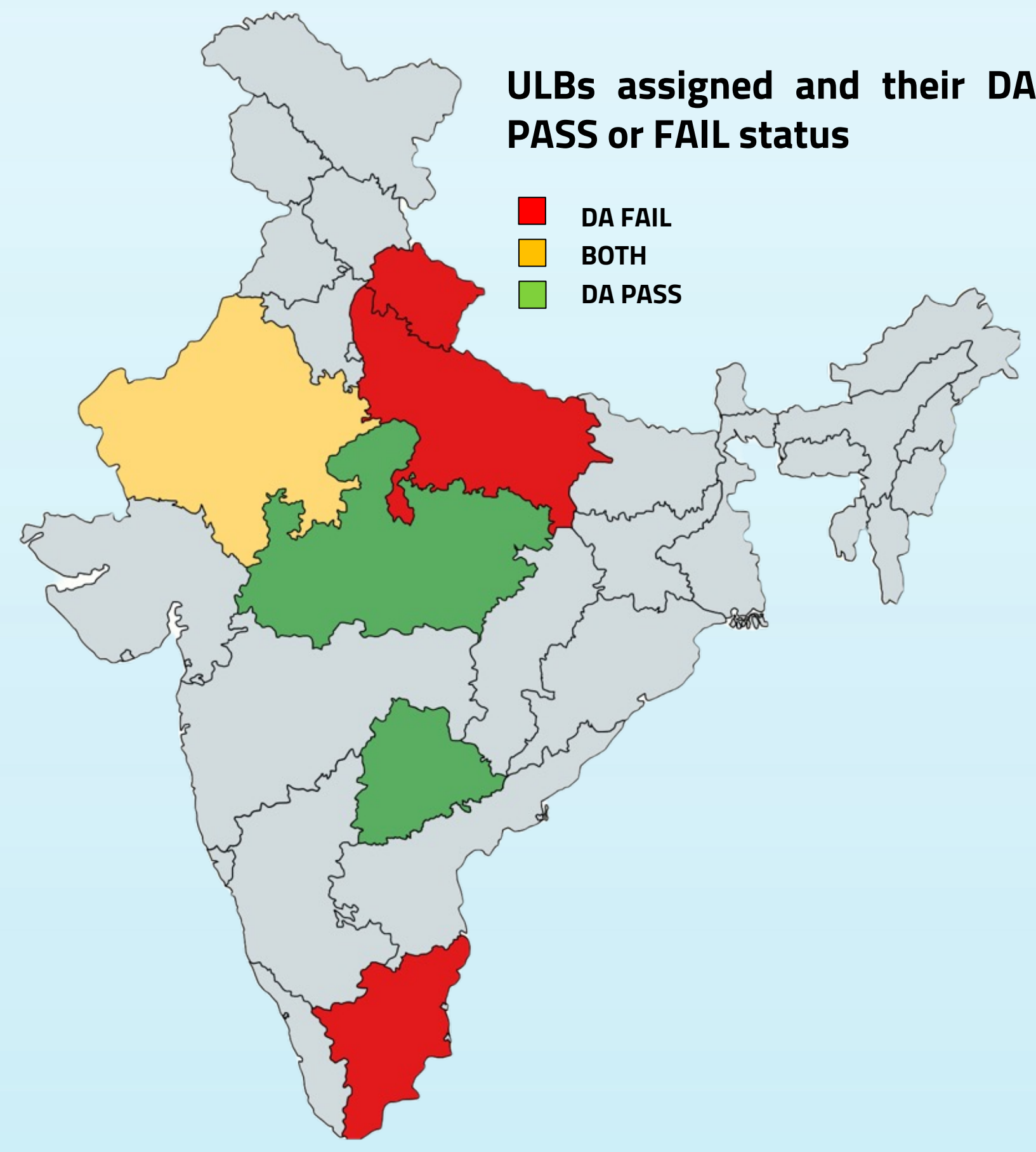


About Healthcare Industry

Healthcare Industry in India is growing with a CAGR of 22% and the Growth Projection for 2022- USD \$372 billion.

The Global Healthcare analytics market size is valued at USD \$11.59 billion and is projected to grow by USD 80.21 billion by 2026 with a CAGR of 27.5%

Theoretical insights	
Practical exposure	Theoretical work
Hands-on learning	Learning based on past experiences of others
Solving problems at hand	Devising methods to solve problems that may arise.
Utilizing concepts	Understanding concepts
Realistic	Hypothetical
Outcomes are decisions	Outcomes are theories



Value Addition

- Developed an understanding of how a public health program such as SBM is operated, and what it takes to become a GFC-certified ULB.
- Taking risks: performing additional tasks from what had been assigned, helped me to develop new skills.
- Personal development: I became more mindful of waste segregation in my day-to-day life.

Challenges faced during the internship

- Assessing big data sets
- Technological difficulties - SBM Portal lag and connectivity
- Long working hours



Methodologies

Study Setting: Pan-India

Study design: Secondary data (Swachh Survekshan) Quantitative analysis.

Desktop Assessment

ULBs applying for 1-star and 3-star are subjected to evaluation of important 16 components; I1-I16.

ULBs applying for 5-star and 7-star are subjected to evaluation of important 16 components as well as the 8 aspirational components; A17-A24.

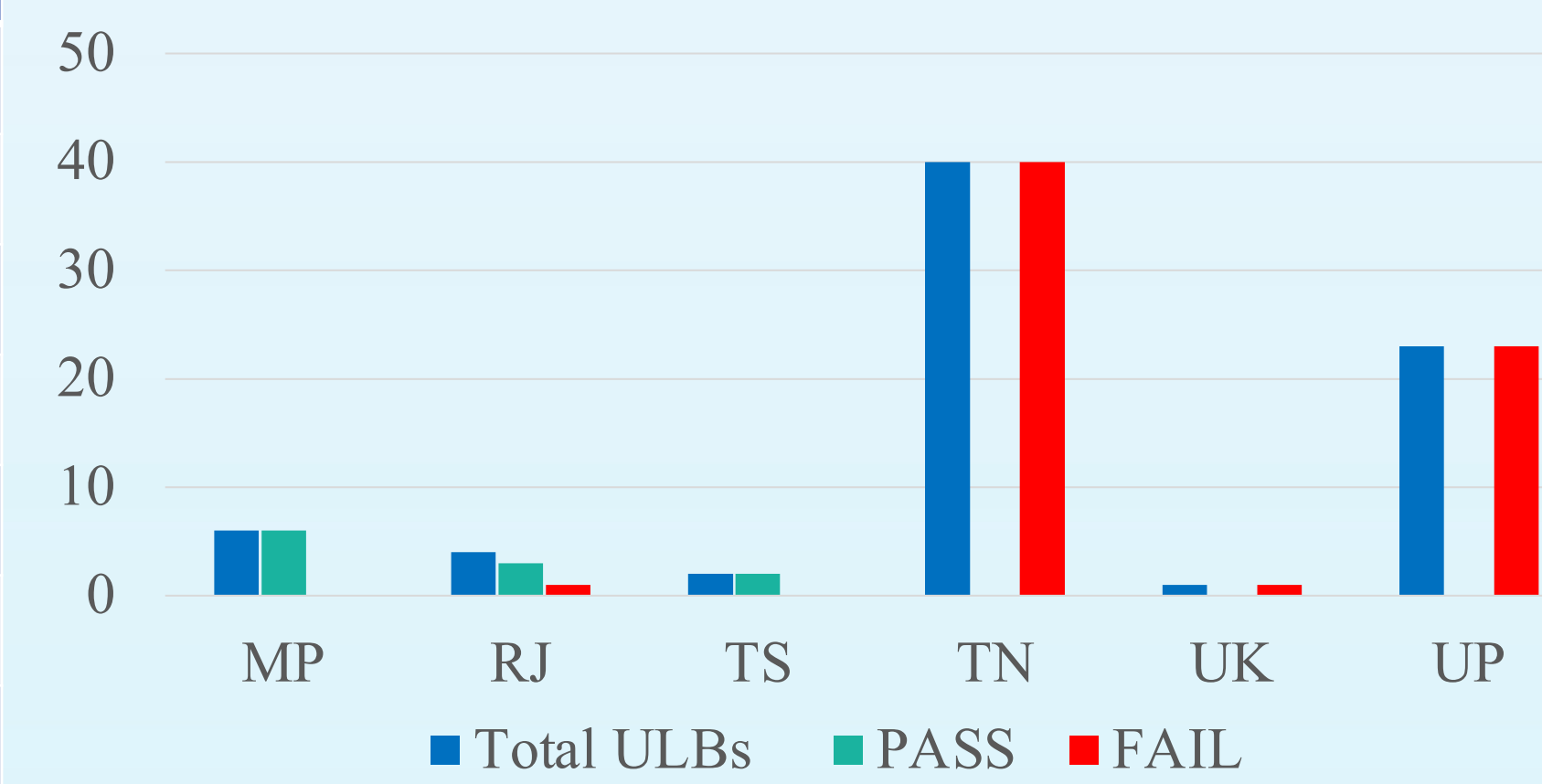
- After checking all the Ward Level components, them being I-1, I-2, I-3, I-4 and A-17 and A-18 latter two being for 5-star and 7-star ULBs.
- Further, perform the evaluation of City Level components, them being I-5 to I-16 and A-19 to A-24 for the 5-star and 7-star ULBs.
- Evaluation and authentication of all the documents provided by the ULB for all the components as per Level 1 requirements.
- Record the Primary data submitted in an excel file for verification with the MIS data submitted by the ULB.
- Flag any component with the QUERY option for which relevant and mandatory information is not provided.
- Verify the documents submitted for the queries generated.
- PASS, or FAIL based on the presence of required documentation, provide a remark in case of failure.
- City will need to score a minimum of Level 1 in all Ward/City Level components to qualify for Field Assessment and Quality Check (next stages of the survey).

ASSESSMENT SUMMARY				1 and 3 Star				
STATE				Scoring - Star Rating Protocol for Garbage Free Cities (Proposed)				
TELANGANA				Component/ Condition	Ward/ City Level	Level 1	Level 2	Level 3
DISTRICT				Important Indicators				
HYDERABAD				1 Door to Door Collection	Ward	150	200	250
ULB				2 Source Segregation	Ward	350	450	575
APPLIED FOR				3 Sweeping + Litter Bins + Secondary Storage Bins	Ward	150	200	250
3				4 Processing by Bulk Waste Generators	Ward	50	100	150
				5 C&D Waste- Collection	City	150	200	250
				6 Waste Processing & Capacity- Wet Waste	City	350	500	550
				7 Waste Processing & Capacity- Dry Waste	City	350	500	550
				8 Dumpsite Remediation	City	100	250	300
				9 Plastic Ban	City	100	200	300
				10 Grievance Redressal	City	50	150	175
				11 User Charges	City	150	200	250
				12 IEC and Capacity Building	City	75	100	125
				13 Scientific Landfill	City	75	150	200
				14 No visible solid waste in water bodies + Screening of storm water drains/ Nallahs	City	100	150	200
				15 C&D waste- Segregation (non-bulk waste generators)	City	100	150	200
				16 Geo-mapping of waste processing facilities, C&D facilities, landfills, dumpsites, STPs/ ISTPs	City	100	100	150
						2,400	3,600	4,475
								5,200

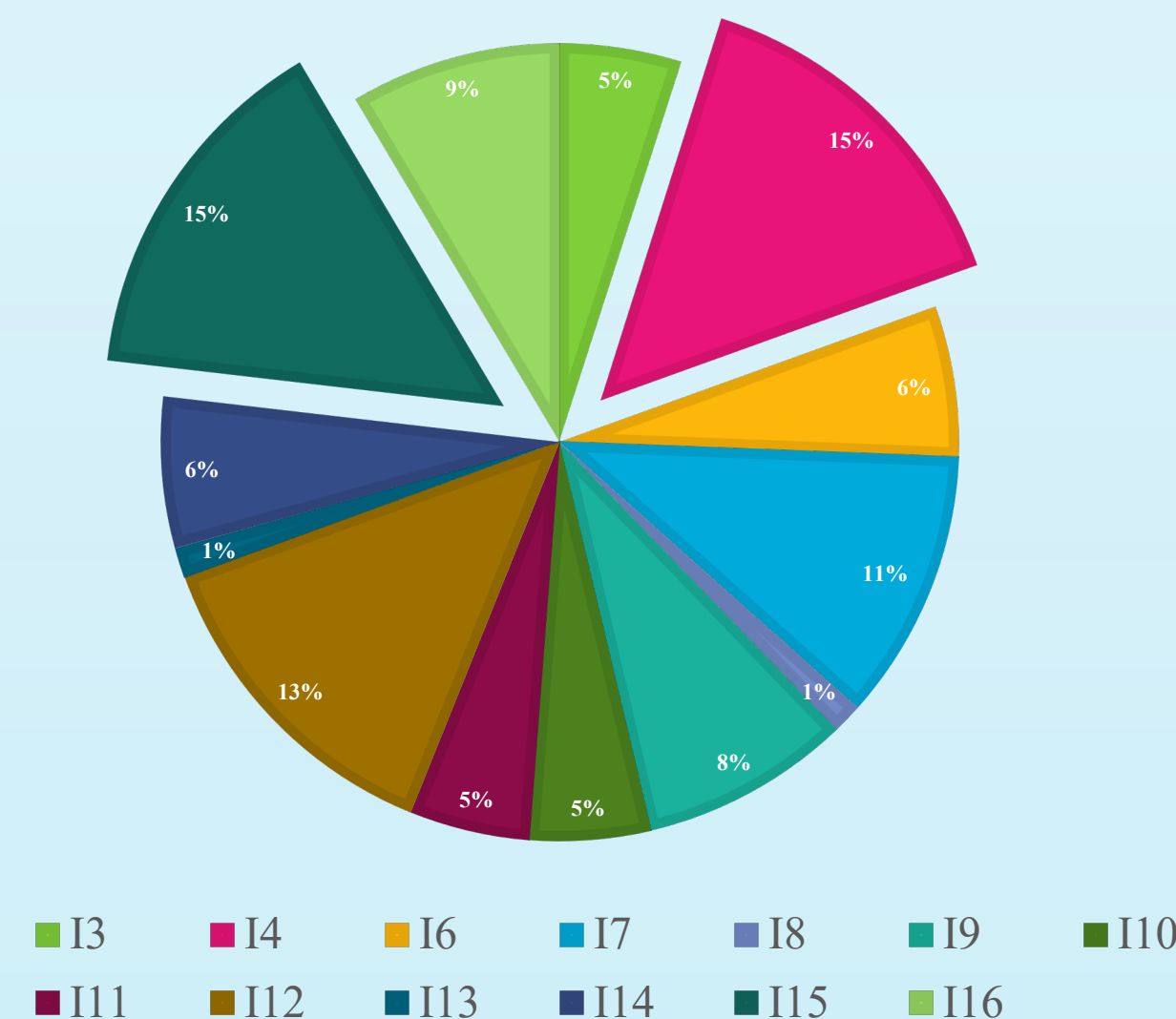
Findings

ULBs Assigned and their PASS and FAIL Status after evaluation.			
State	Total ULBs	PASS	FAIL
MP	6	6	0
RJ	4	3	1
TS	2	2	0
TN	40	0	40
UK	1	0	1
UP	23	0	23

GFC DA evaluation of ULBs from different states showcasing their performance towards becoming Garbage Free Cities.



Graphical representation of percentage frequency of components failed by the ULBs



Various components where ULBs have failed frequently.

Failed Component	No. of ULBs	Percentage
I3	4	4.88
I4	12	14.63
I6	5	6.10
I7	9	10.98
I8	1	1.22
I9	7	8.54
I10	4	4.88
I11	4	4.88
I12	11	13.41
I13	1	1.22
I14	5	6.10
I15	12	14.63
I16	7	8.54

Conclusion

- States with fewer GFC certified ULBs indicate a decreased solid waste management, hence an increased burden on the environment, leading to the emergence of diseases.
- 4,377 ULBs are participating in GFC 2022 which is more than in the previous year when only 2,238 ULBs took part which is 50% less.

Usefulness of the internship

- Invaluable hands-on experience
- Exposure to the consulting field
- Networking with industry experts
- Learning how ginormous Public Health projects are run
- Learned how to conduct proper job interviews and training sessions

Suggestions for the organization

- Assign the same supportive mentors/supervisors.
- Adapt individual ward levels to be like city level.

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