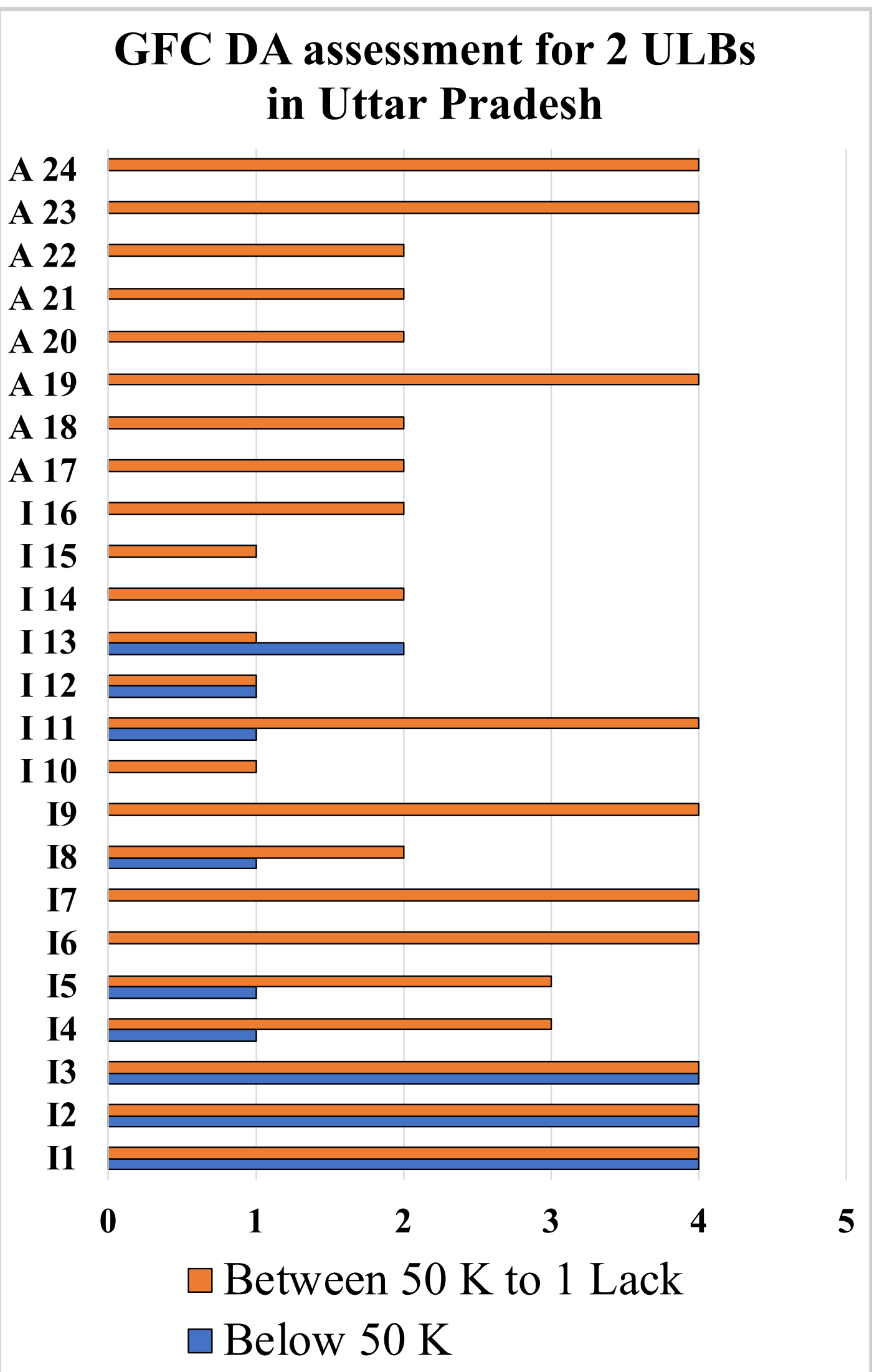
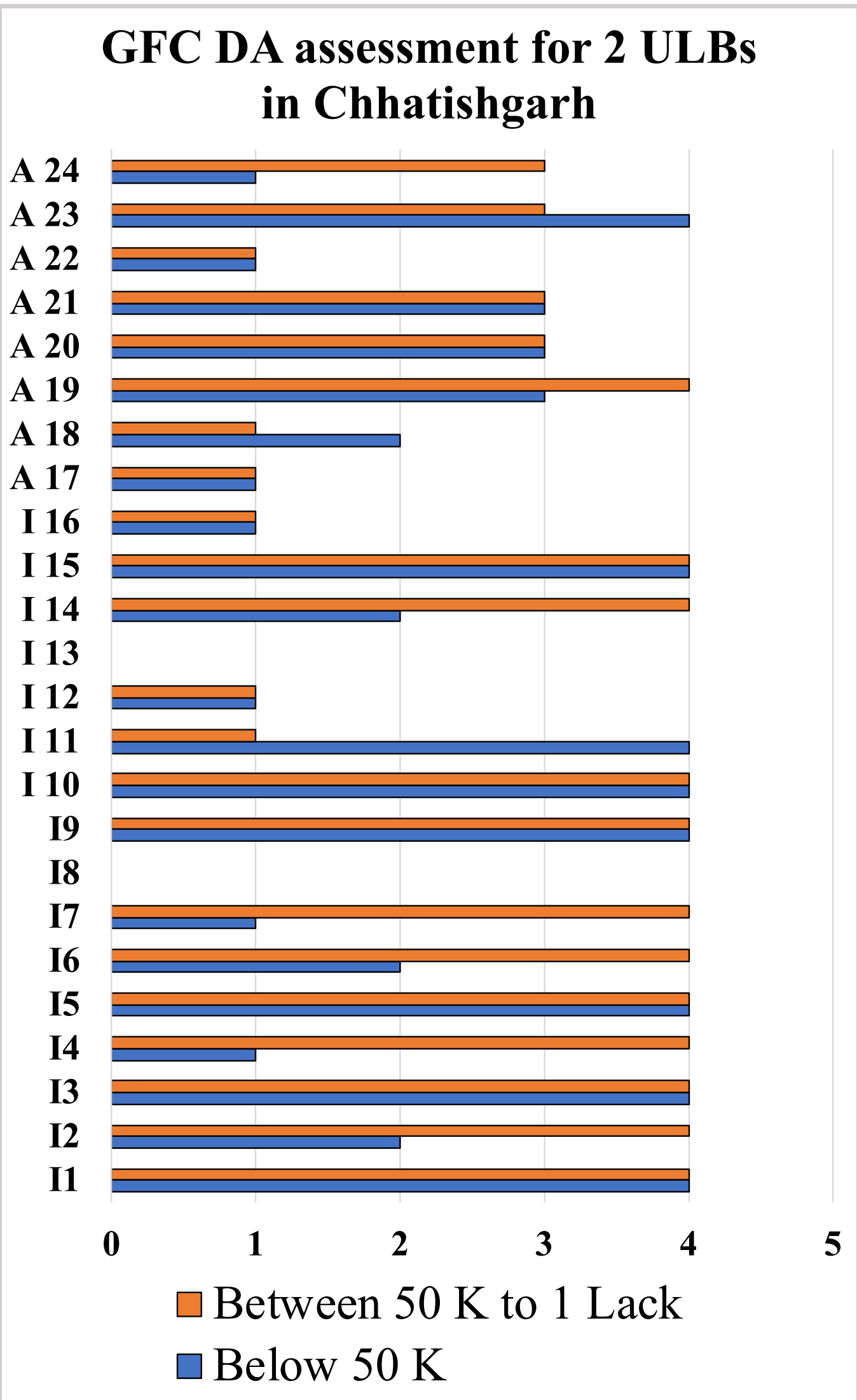
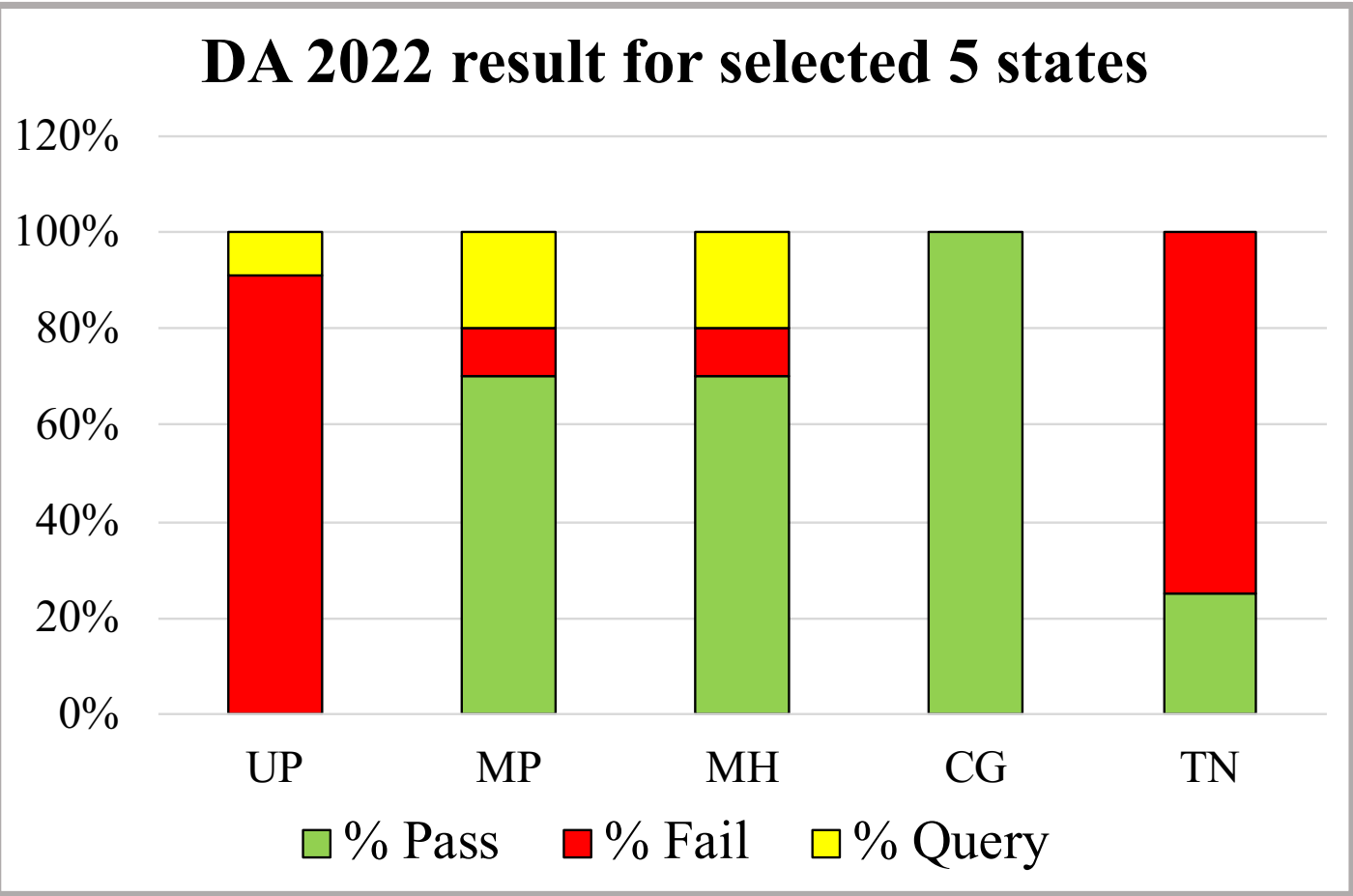
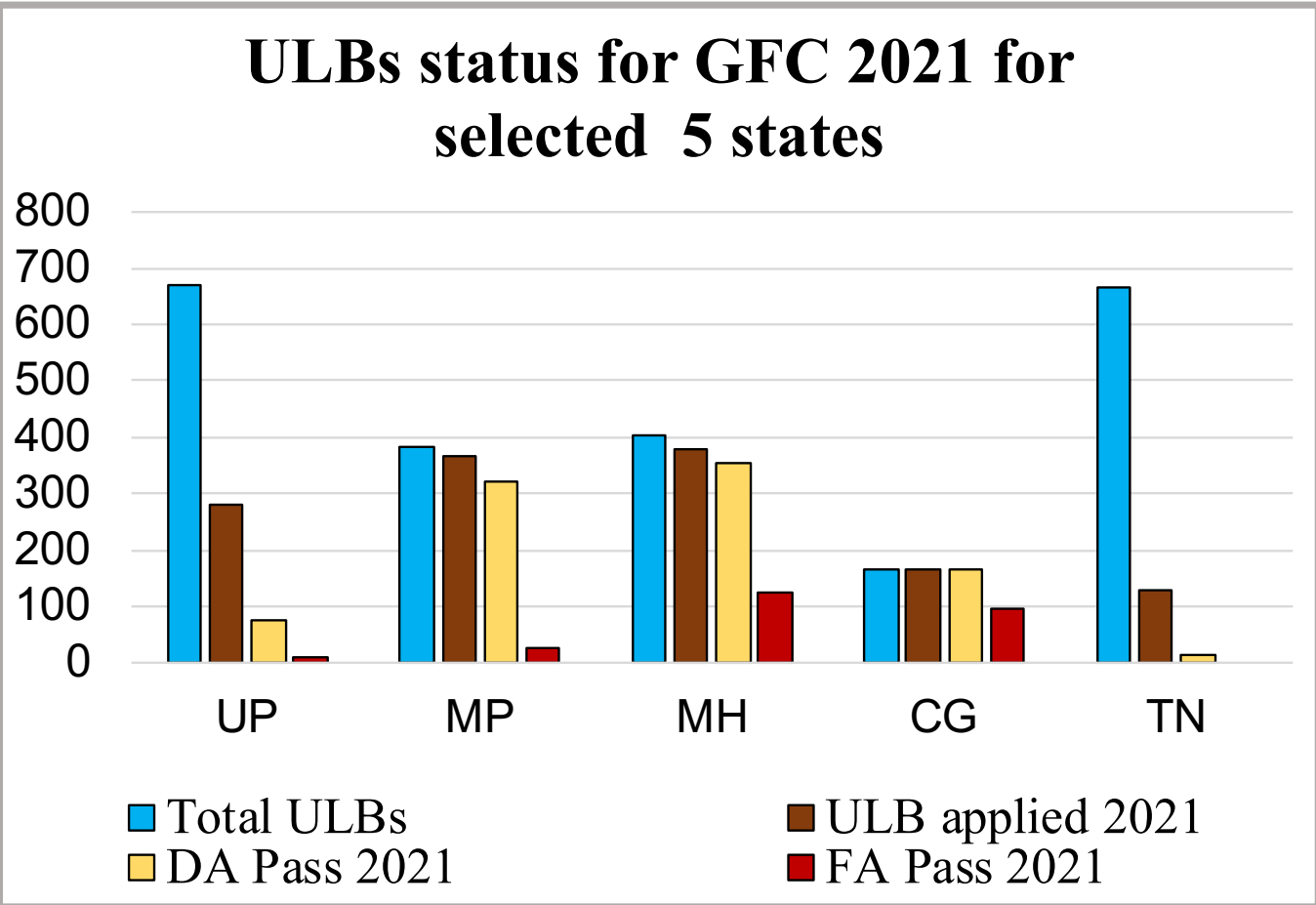


Assessing the ways to improve Municipal Solid Waste Management (MSWM) for urban local bodies in Chhattisgarh and Uttar Pradesh

For Garbage Free City (GFC) star rating

Objectives	Research questions	Methods	Sources of data
To identify the gaps among best and worst performing ULBs/States in context to GFC.	What are the gaps in MSWM in ULBs with less star rating?	Qualitative analysis by building matrix and Literature review	Data collected from Desktop Assessment (DA-2022) as a part of GFC assessment.
To assess the need of capacity building for (selected) ULB's with lower star rating.	How can the ULB with less star rating under GFC assessment improve on their capacity building for Desktop Assessment?	Literature review	Official government reports and journal. Relevant articles from websites. Notes taken during discussions.

Research findings and analysis



Objective 1 is achieved

Interpretation

Chhattisgarh	Uttar Pradesh
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Chhattisgarh has modified the strategies according to the needs of MSWM through 100% door to door collection, segregation at source and adopting scientific techniques for waste processing, disposal and don't need any dumping sites anymore.

In the ULBs of Uttar Pradesh there is a lag in total generation, collection, processing and disposal of waste. It suggests that the MSWM in many ULBs of Uttar Pradesh is unsatisfactory thereby need immediate attention.

Objective 2 is achieved

Limitations

- This research project is a part of internship limited to 9 weeks. The study's duration does not allow for extensive data collection and analysis.
- Since the star rating assessment is ongoing there is a high chance of variation in the final stage.
- Due to the privacy reasons name, code, documents and other findings related to any specific ULB can't be revealed. So, how a particular ULB is performing at micro level couldn't be discussed in this study.

Future scope of work

- Weakness as identified during the entire desktop assessment period must be revealed to the ULB's so that they can work upon it.
- Adopting circular economy principles in the waste management sector, with a focus on up-cycling, re-cycling, and end-of-cycle approaches for non-recyclables.
- State-specific policies for plastic waste management, C&D waste management, and the reuse of recycled wastewater can bridge the gap and create a viable market link, permitting the private sector to participate.

Materials & Methods

Study area and sample size

I evaluated 51 ULBs from 12 states that were randomly allocated by project head to all assessors to reduce bias as a part of GFC assessment. Out of those I have selected 5 states on the basis of highest ULB count evaluated by me for DA.

Further to evaluate the gap, I have chosen 2 states. The best performing (Chhattisgarh) and worst performing (Uttar Pradesh) as a part of this study.

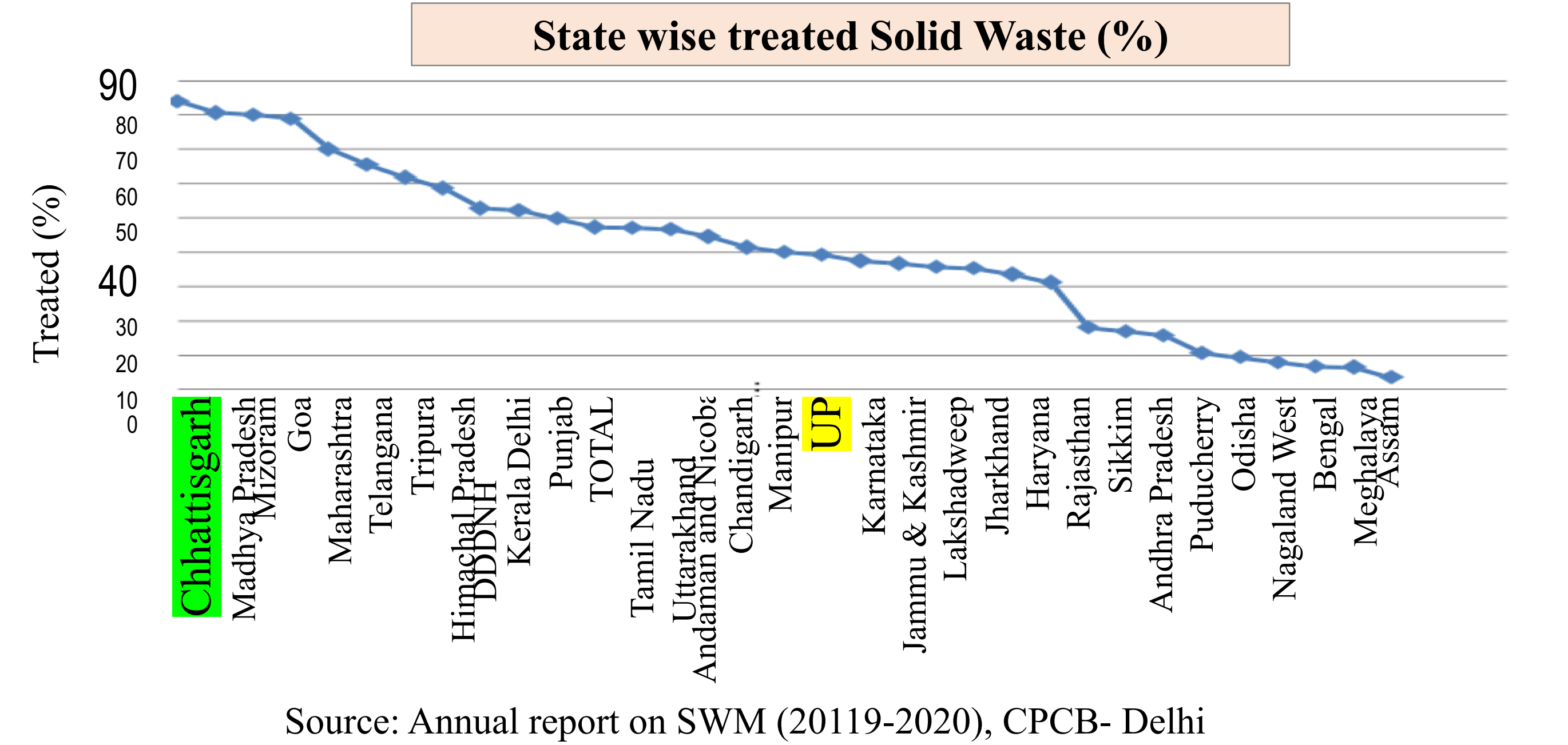
Criteria: last year's performance and the documents and evidences submitted by them for DA 2022.

Status of selected ULBs evaluated by me, GFC DA-2022

No	States	ULBs evaluated	Pass	% Pass	Fail	% Fail	Query	% Query
1	Uttar Pradesh (UP)	11	0	0	10	91	1	9
2	Madhya Pradesh (MP)	10	7	70	1	10	2	20
3	Maharashtra (MH)	10	7	70	1	10	2	20
4	Chhattisgarh (CG)	7	7	100	0	0	0	0
5	Tamil Nadu (TN)	4	1	25	3	75	0	0

State wise status of GFC 2021 for selected states

State	Total ULBs	ULB applied	Applied %	DA Pass	Pass%	DA Fail	Fail%	FA Pass	Pass%	FA Fail	Fail%
CG	166	166	100%	164	99%	2	1%	94	57%	70	43%
MP	384	365	95%	322	88%	43	12%	27	8%	295	92%
MH	402	379	94%	353	93%	26	7%	124	35%	229	65%
TN	666	129	19%	12	9%	117	91%	0	0%	12	100%
UP	670	280	42%	76	27%	204	73%	10	13%	66	87%



Guided by:

Faculty Mentor: Dr. Arindam Das
Organization Mentors: Ms. Rashi Khare
Co-mentors: Ms. Rimsha Masroor, Mr. Vaibhav Rao



Presented by:

Dr. Shikha Sharma
Roll no: 1395
MBA-HM 26

Summer internship project on Desktop Assessment, Garbage Free City-2022, Swachh Bharat Mission Urban Project in Association with MoHUA at Delhi

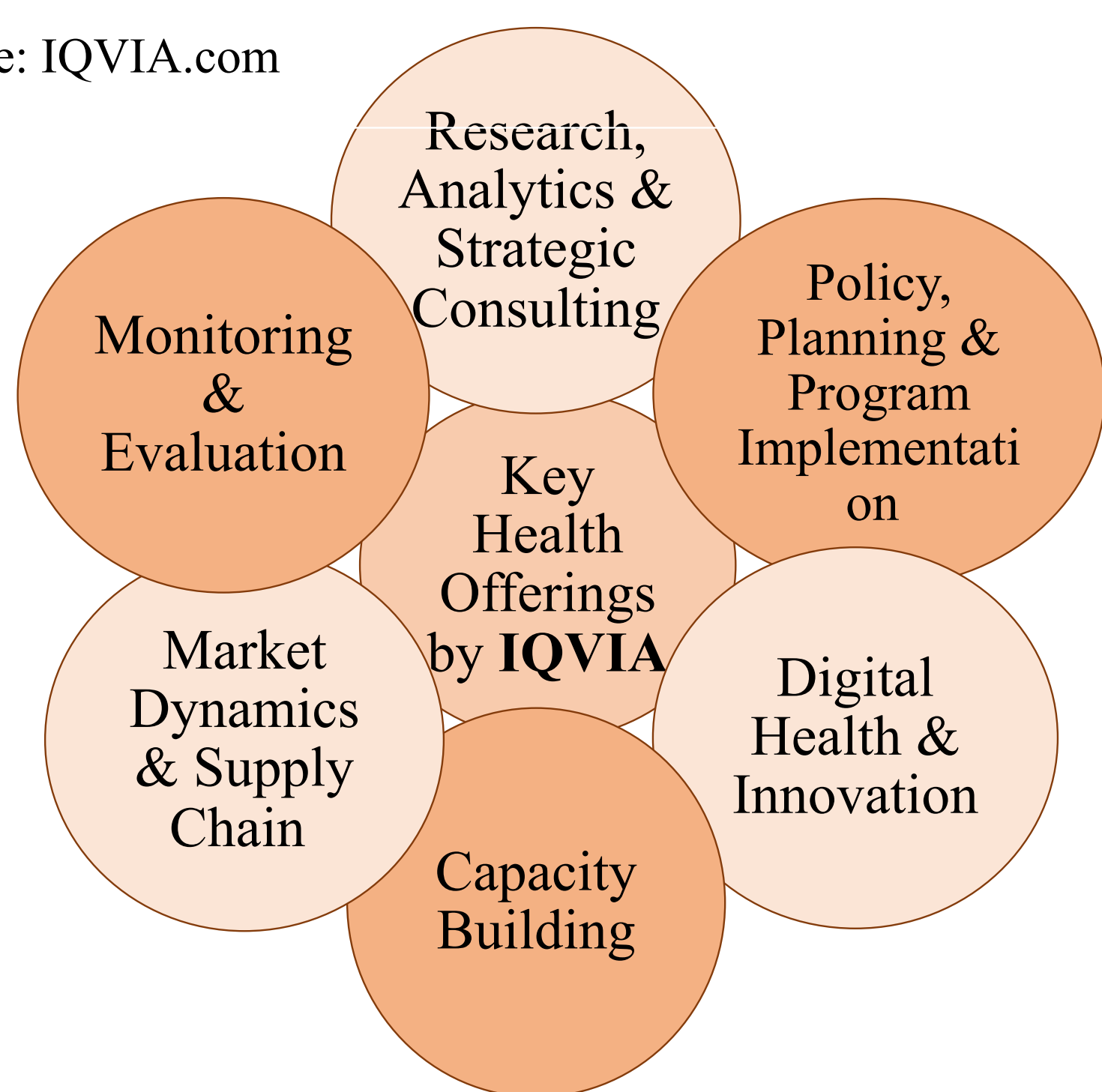
About IQVIA

IQVIA is a world leader in the healthcare sector. The organisation is a result of the 2016 merger of IMS Health and Quintiles
(**I** (IMS Health), **Q** (Quintiles), and **VIA** (by way of)).
Quintiles is a leading global contract research organization.
IMS Health is a leading healthcare data and analytics provider.
IQVIA currently having approximately **79,000** experts.

Vision is to deliver integrated information and technology solutions to drive healthcare forward and help create a healthier world.

Mission is to bring together advances in data science, technology, and healthcare expertise to help customers and partners make better decisions and ultimately improve patient outcomes.

Source: IQVIA.com



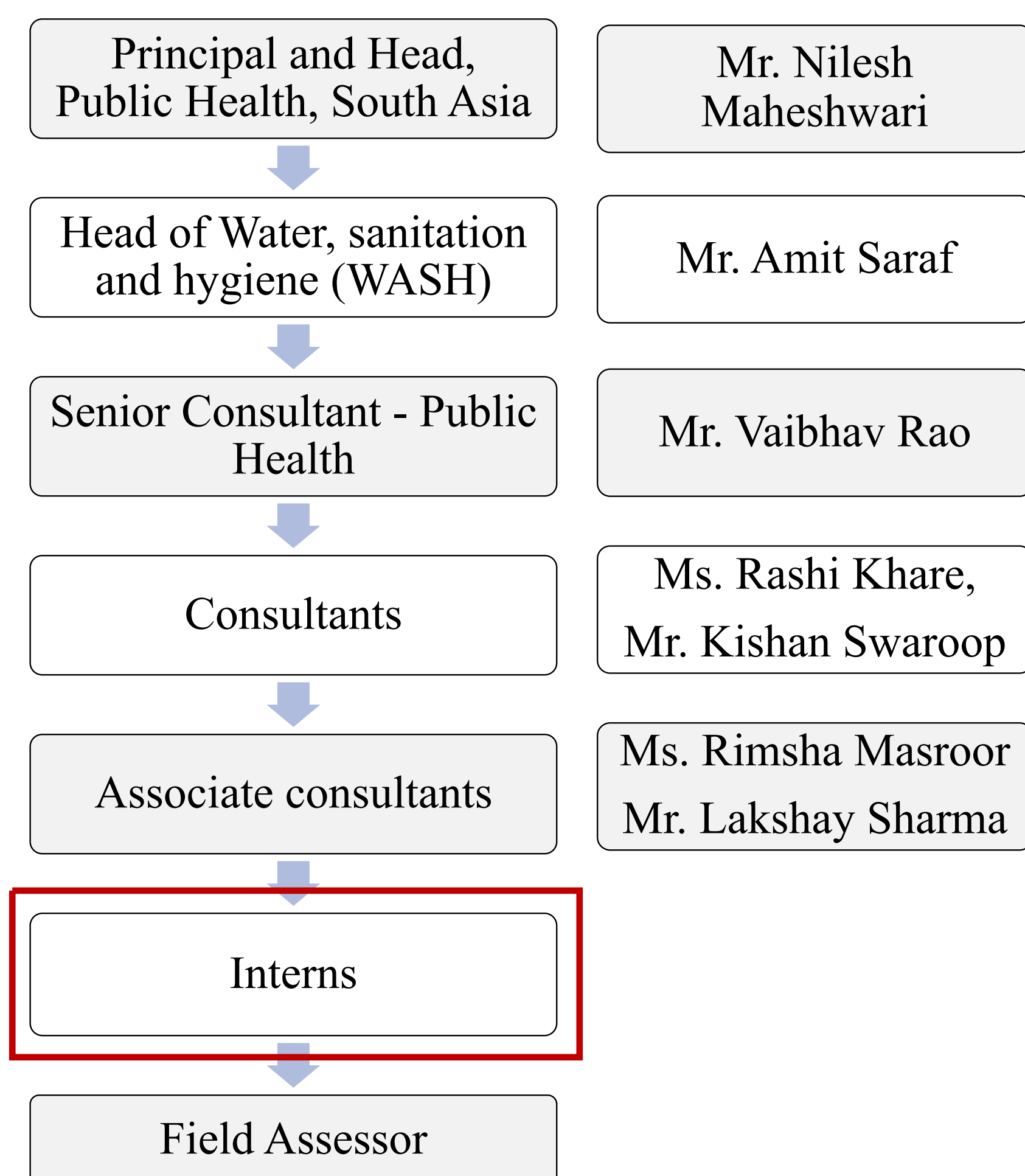
SWOT analysis - GFC DA

S Strengths	- DA is based on SMART framework –Single metric, Measurable, Achievable, Rigorous verification, Targeted towards outcomes - Transparent evaluation system - All the ULB related information/ quantum is saved in the spreadsheet provided by the core team that has been prepared according to the scoring criteria of GFC protocol. - All DA evaluators are well trained and registered with MoHUA, chances of errors are minimal.
W Weaknesses	- Operational issues-Management of large team - Technical issues- Same scoring criteria for all ULBs having different social, geographical, economical and demographical composition. - Many questions on the portal are not clear, thus ULBs upload wrong documents. - The time span to reapply is v short, no strict timeline for reapplication. That delays the entire process and results.
O Opportunities	- GFC encourages cities to build an ecosystem to strengthen waste management systems. - Encouraging entrepreneurs in Waste management - Cities to gradually evolve into 7-star cities. - Identification of change drivers (DA assessors) to improve management and evaluation guidelines.
T Threats	- ULBs may forge/ copy the documents from other ULBs - Government may change and may propose changes in the programme evaluation - Change of protocol frequently - ULBs are reluctant for the change/ improvement in traditional waste management techniques

Healthcare industry

The Healthcare industry in India comprises of hospitals, medical devices, clinical trials, outsourcing, telemedicine, consultation, health insurance, medical equipment, policy, planning and program implementation etc. India's healthcare delivery system has two major components: public and private.

Organogram GFC DA, IQVIA



Learning and value additions gained during internship

- Got real-time work experience and learnt a lot of soft skills like collaborations, team work, time management, etc.
- Great opportunity to network with knowledgeable and experienced people from different backgrounds and skills.
- It helped me in realizing my abilities and boosting my Professional Confidence.

Usefulness of internship

- It was a fantastic opportunity to work on a live, ongoing project and to interact with GoI through govt. officials.
- It helped me gaining more knowledge and skills regarding Desktop Assessment and programme implementation.
- Moreover it was an excellent platform to identify and choose a stream I am interested in.

Challenges faced during internship

- Being a new project for me there was altogether too much information and tools to work upon.
- Multiple changes to office space for internship.
- Understanding the organogram and work culture (specially in first few weeks).

My suggestions to organization

- Provide more enjoyable working environment, by conducting fun filled activities once a week and allowing WFH on Saturdays.
- Conduct exit interviews to know individual feedbacks.

Difference between practical exposure and theoretical work

The practical exposure during internship was a good change from the monotonous lecture method. It helped me in developing a thorough understanding of the concepts.

Garbage Free cities (GFC)

GFC was launched in January 2018

Vision Vision is to make all 4,700 statutory towns/Urban Local Bodies achieve GFC status

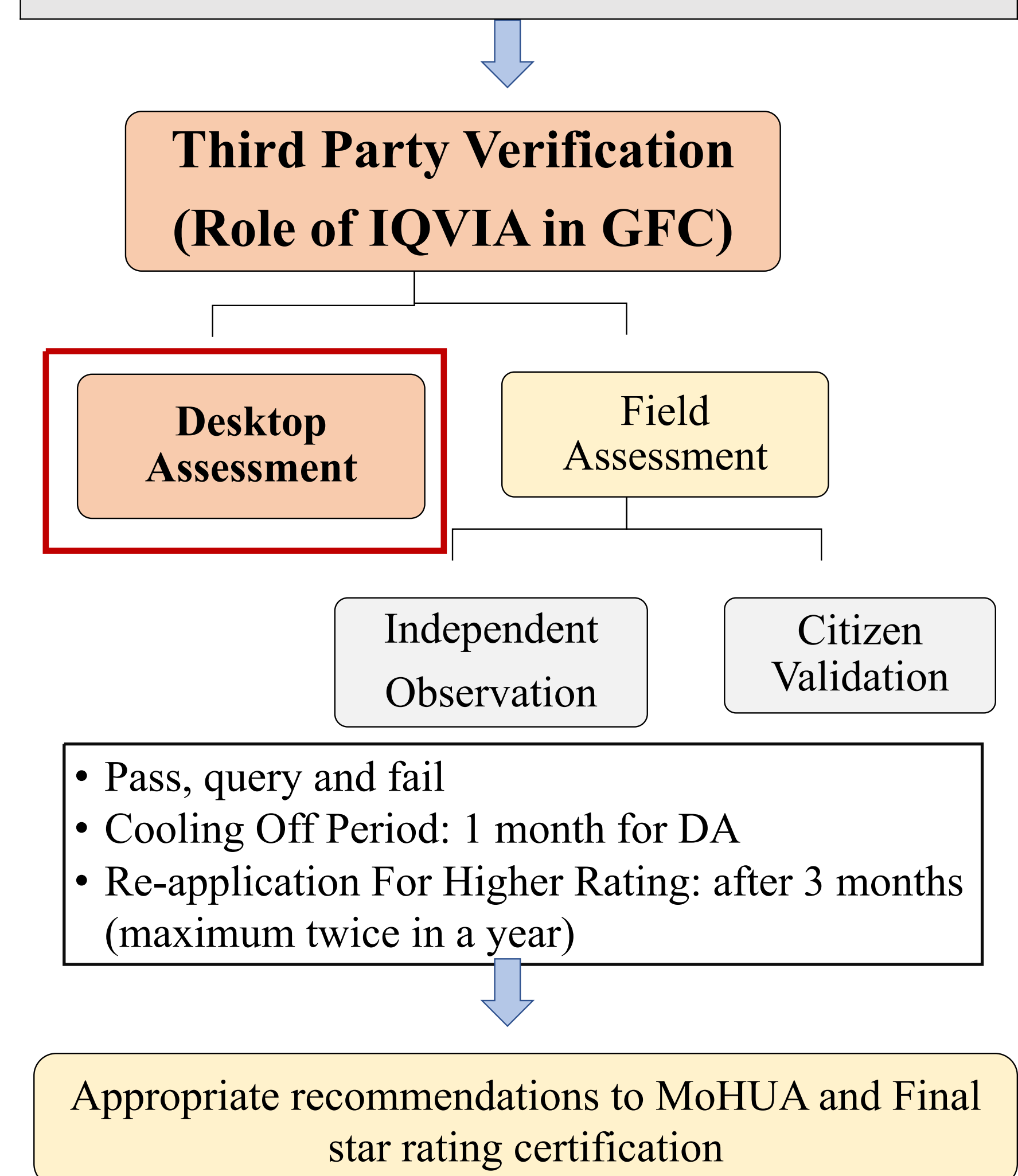
GFC 2022 protocol has 24 components

- 'Important': 1 & 3 Star – 16 components
- 'Aspirational': 5 & 7 Star – 24 components

Assessment mechanism for Star Rating

Pre-qualifying conditions: ODF for 1 Star, ODF+ for 3 Star, ODF++ for 5 Star, Water+ for 7 Star.

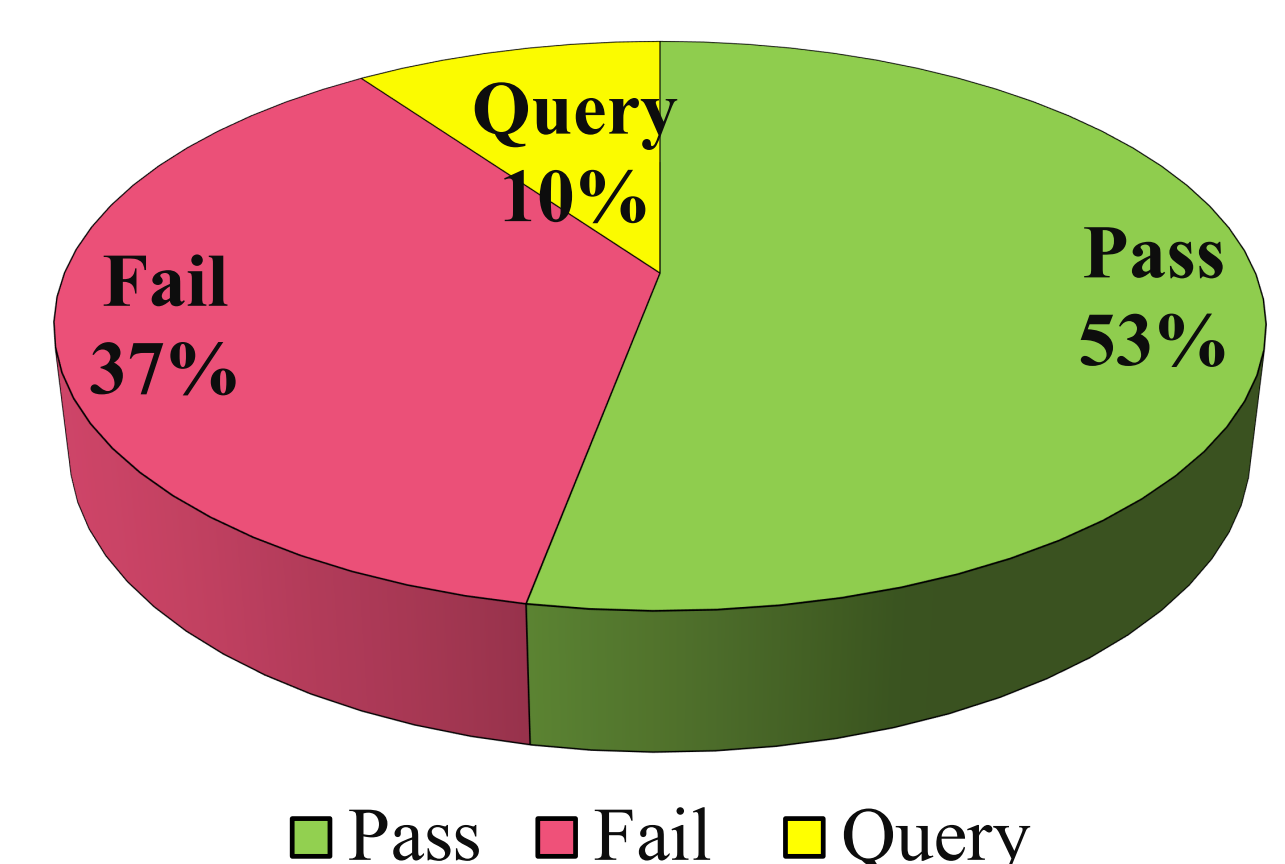
ULBs Fill common city profile, MIS and check for self assessment score and apply for star rating as per eligibility on the SBMU portal



Status of ULBs evaluated by me for GFC Desktop Assessment (DA-2022)

No	States	ULBs evaluated	Pass	% Pass	Fail	% Fail	Query	% Query
1	UP	11	0	0	10	91	1	9
2	MP	10	7	70	1	10	2	20
3	MH	10	7	70	1	10	2	20
4	CG	7	7	100	0	0	0	0
5	TN	4	1	25	3	75	0	0
6	RJ	2	2	100	0	0	0	0
7	HP	2	0	0	2	100	0	0
8	AP	1	1	100	0	0	0	0
9	JH	1	1	100	0	0	0	0
10	TS	1	1	100	0	0	0	0
11	UK	1	0	0	1	100	0	0
12	HR	1	0	0	1	100	0	0
Total		51	27	53	19	37	5	10

Status of total 51 ULBs



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