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# FOCUS GROUP DISCUSSION QUESTIONNAIRE

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## QUESTIONNAIRE (ADMIN OFFICER)

1. **Name of micro-catchment/village:**
2. **Name of block/tehsil**
3. **Area:**
4. **Climate data :**

Parameters	Annual average
Minimum temperature	
Maximum temperature	
Rainfall	

5. **Land use pattern**

Type of land	Area		
Residential	NA	1,211.07	NA
Commercial	NA	175.40	NA
Industrial	NA	299.64	NA
Govt. land	NA	710.98	NA
Agricultural land	NA	NA	NA
Forest	NA	NA	NA
Wasteland	NA	NA	NA
Water bodies	NA	NA	NA
Others	NA	NA	NA
TOTAL			

6. **Socio-economic data**

Particulars	Details (number/percentage)	Year
Population		
Male		
Female		
Number of households		
Literacy rate		
Population density		

7. **Basic services by local authority**

Type of service	Yes	No
Water treatment and supply		
Sewerage and treatment		
Storm water management		
Solid waste management		

8. Agricultural data

Major crops	Area	Irrigation system	Market/industry

9. Departments/organizations involved in water and agriculture sector

Govt. departments	Community/co-operative society	Private organizations	Academic institutes

10. Water resources in and around village

Water resources	Distance	Users and issues	Quantity (mld)

11. Ecosystem services derived from the water resources

Ecosystem Services	Provisioning	Regulating	Cultural	Supporting

12. Perceptions on changes in the ecosystem services over last 20 years

Ecosystem Services	Changes	Reason

**13. Water conflicts/ summer water management**

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**14. Major plans and schemes related to water, agriculture and climate**

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**15. Major health/ climate issues faced during last 10 years (like flooding, drought etc.)**

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**16. Financial management**

Sources of revenue	Major expenditure	Annual budget and year

**17. Remarks**

## CITY BASELINE QUESTIONNAIRE

The questionnaire is to be filled in to the extent possible in the cities and rural areas, without having to resort to primary surveys.

No.	QUESTIONS	STATUS			INSTANCES/RESPONSES ACTIONS/PLANS/STRATEGIES  (IF MARKED 'YES' – PLEASE ELABORATE)
		Yes	No	Not known	
1.	Compared to a decade ago, have these conditions occurred in your city?				
	a. Temperature change				
	b. Precipitation change				
	c. Sea level rise				
	d. Extreme weather events				
2.	Are each of the sectors below being affected by these changes and events? If so, what plans or actions are already in place to respond or strategise for the future in more generic terms?				
	a. Industry (SME, tourism etc)				
	b. Food supply (supply and demand, availability)				
	c. Water supply services				
	d. Wastewater management				
	e. Solid waste management				
	f. Transportation (e.g. public transport, number of private vehicles etc)				
	g. Health (public health and health services)				
	h. Energy (electricity, fossil fuels, cooking fuels etc)				
	i. Building (design, energy use)				
	j. Education (schooling days)				
	k. Development funds (public and private funds available for developmental activities)				

## COLLECTION OF DATA

Category	Unit	Data	Source of Data
<b>Ecosystems/ Biodiversity</b>			
Area under green cover	<i>Sq km</i>		
Types of ecosystems available (wetlands, riverine, forest etc)	<i>Number / area</i>		
<b>Agricultural resources</b>			
Total area of agricultural land	<i>Sq km</i>		
Regional crop seasons	<i>Months</i>		
Primary crop	<i>Names</i>		
Secondary crop	<i>Names</i>		
Contribution to local economy, if possible	<i>Percentage of total GDP</i>		
Contribution to local food requirement, if possible	<i>Percentage</i>		
<b>Water resources</b>			
Number of water bodies	<i>Number, sq km</i>		
Classification of water bodies	<i>Number, sq km, type</i>		
Depth of ground water table	<i>Metres</i>		
Water quality	<i>As per pollution control board categories</i>		
Area of city regularly subject to flooding (if possible, in sq. km, or in number of wards/streets)	<i>Sq km</i>		
<b>Demographics</b>			
<b>Population</b>			
Total population	<i>Number</i>		
Population break up: gender: no of females/ 1000 males	<i>Number</i>		
Population break up: age	<i>Number (in categories)</i>		
Population density: average	<i>Number/ Sq km</i>		
Population distribution: ward/zone/area wise	<i>Number/ Sq km</i>		
No of households	<i>Number</i>		

Average size of household	<i>Number</i>		
Floating/itinerant population <sup>1</sup>	<i>Number</i>		
Rate of annual inward migration, if possible	<i>Persons/ year</i>		
Rate of annual outbound migration, if possible	<i>Persons/ year</i>		
<b>Employment</b>			
Employment rates (%)	<i>Percentage</i>		
Employment distribution (M/F)	<i>Percentage</i>		
Nature of occupation	<i>List</i>		
Primary occupation	<i>Percentage from list</i>		
Secondary occupation	<i>Percentage from list</i>		
Informal sector <sup>2</sup> : numbers, categories			
<b>Literacy</b>			
Average literacy rate	<i>Percentage</i>		
Literacy distribution (M/F)	<i>Percentage</i>		
<b>Vulnerable groups</b>			
Number of Slums	<i>Number</i>		
Population living in slums	<i>Number</i>		
Population of minority groups	<i>Number</i>		
<b>Economy</b>			
Main economic activities	<i>List most important to less important</i>		
<b>Health</b>			
<b>Disease</b>			
Total number of deaths per year from communicable diseases (number/year)	<i>Number/ year</i>		
Total number of deaths from calamities/ extreme climate events/ disasters (number/year)	<i>Number/year</i>		
Prominent diseases list	<i>List</i>		

<sup>1</sup>a group of people who reside in a given population for a certain amount of time and for various reasons, but are not generally considered part of the official census count

<sup>2</sup>The informal sector or informal economy is that part of an economy that is not taxed, monitored by any form of government or included in any gross national product (GNP), unlike the formal economy

Seasonality of diseases	<i>Months</i>		
Total no. of incidences of the water borne diseases in the city in last year			
Total no. of incidences of the vector borne diseases in the city in last year			
Existing and proposed schemes or plan for the healthcare system			
<b>Land</b>			
<b>Total city area</b>	<i>Sq km</i>		
Zoning/ land use	<i>Area of different land uses, with map</i>		
Informal or un authorised settlements	<i>Number and area</i>		
Slum areas (for both 'officially recognized / classified' & 'not officially recognized/ classified')	<i>Number and area</i>		
Topography	<i>Topographic map with ward/zone/area</i>		
<b>Infrastructure</b>			
<b>Water supply</b>			
Water supply distribution network	<i>Maps to scale, with ward/zone/area wise breakup; % coverage of network</i>		
Number of authorized residential connections	<i>Number of ward/zone/area wise distribution</i>		
Number of authorised commercial connections	<i>Number of ward/zone/area wise distribution</i>		
Households with piped water supply	<i>Number, percent</i>		
Per capita supply [(total supply in MLDx10,00,000)/population]	<i>(lpcd)</i>		
Households having water meters	<i>Number, percent</i>		
Taps, handpumps, tube wells, tankers	<i>Number</i>		
Total amount of water supply	<i>MLD</i>		



Total amount of water demand	<i>MLD</i>		
Total non-revenue water (NRW) / unaccounted for water (UFW)	<i>MLD</i>		
Sources of fresh water in the city	<i>Names and capacity in ML</i>		
Distance from the city	<i>k.m</i>		
Water treatment plant	<i>Number, capacity, location, ward/zone/area covered</i>		
Complaints-redressal system in the city	<i>Number of complaints, Number of them redressed, average timing to address the complaints in last year</i>		
Existing and proposed schemes/plans from water supply			
Source of supply in the proposed scheme			
Details of distribution system through OHTs (if exists) – gravity based/Pumping based	<i>Number of OHT, capacity area covers, No.</i>		
<b>Sewage</b>			
Sewage distribution network	<i>Map with location of pumping stations and STPs and % coverage</i>		
Total length of sewage network pipes	<i>Ward/zone/area wise distribution</i>		
Total length of underground sewage pipes	<i>Kms</i>		
Average age of network pipes	<i>Years</i>		
Volume of waste water generated per day	<i>MLD</i>		
Volume of waste water collected	<i>MLD</i>		
Volume of waste water treated	<i>MLD</i>		
Volume of treated water reused	<i>MLD</i>		
Sewage treatment plant	<i>Number, capacity, location, ward/zone/area covered</i>		

Outfall of main sewer lines	<i>Place , distance from the city</i>		
Level of treatment achieved at outfall (primary, secondary, tertiary)	<i>type of treatment</i>		
Households connected to sewage	<i>Number, percent</i>		
Households with Septic Tanks	<i>Number, %coverage,</i>		
Process of septage management	<i>Collection, transportation, treatment and disposal process</i>		
Coverage of pockets of urban poor by sewerage network and/or septic tank provision	<i>Number, percent</i>		
Any nallah/stream/rivers passing near the city	<i>Number, name, distance from the city</i>		
Complaints-redressal system in the city	<i>Number of complaints, Number of them redressed, average timing to address the complaints</i>		
Existing and proposed schemes/plans for sewerage / septic tank or septage management			
<b>Solid Waste Management</b>			
Solid waste generated per day	<i>TPD</i>		
Amount of waste collected	<i>TPD</i>		
Amount of waste treated	<i>TPD</i>		
% of door to door collection			
% of waste segregation at the household level			
Categorisation of solid waste	<i>Percentage of total solid waste generated</i>		
Amount of Biodegradable waste	<i>TPD</i>		
Amount of Non biodegradable waste	<i>TPD</i>		

Solid waste treatment facility	<i>Number, capacity, location, ward/zone/area covered</i>		
Present situation of the solid waste treatment facility			
Scientific landfills (mention whether in operation or not)	<i>Number, capacity, location, ward/zone/area covered</i>		
Open dump sites (mention whether in operation or not)	<i>Number, capacity, location, ward/zone/area covered</i>		
Existing and proposed schemes/plans for SWM			
<b>Storm water drainage</b>			
Drainage distribution network	<i>Map with ward/zone/area</i>		
Total length of covered network	<i>Kms</i>		
Total length of uncovered network	<i>Kms</i>		
Length of primary, secondary and tertiary drains	<i>Kms</i>		
Outfall point of the drains	<i>Name of the river/nallah/stream, name of the area of the disposal point</i>		
Coverage of manmade drains	<i>Km</i>		
Areas prone to water logging in the city	<i>Location, area, coverage in %</i>		
Number of water logging or flooding incidence in last year	<i>Number, months</i>		
Presence of the ponds/lake inside the city	<i>Number, location</i>		
Existing and proposed schemes/plans for drainage			
Frequency of desilting of drains by ULB	<i>(Quarterly / Half yrly/ Yrly)</i>		
Average diameter of pipes	<i>Use appropriate unit</i>		
<b>Economy</b>			

<b>Industry</b>			
Main types of industry	<i>List</i>		
Total number of work force employed	<i>Number/ Percentage of total workforce</i>		
Percentage contribution to total economy	<i>Percentage</i>		
Polluting industries	<i>Number, location and list</i>		
<b>Commerce</b>			
Main types of services	<i>Number, location and list</i>		
Total number of work force employed	<i>Number/ Percentage of total workforce</i>		
Percentage contribution to total economy	<i>Percentage</i>		
<b>Access to the City</b>			
Port/Harbour, etc	<i>Yes / No</i>		
Airport	<i>Yes / No</i>		
Road network	<i>Yes / No</i>		
Rail	<i>Yes / No</i>		