## Information required for Preparation of Master Plan for Sewerage

Name of City	v	State

1	Chapter 3.1: Profile of Town: Location			
	Latitude		Approachability by Rail	
	longitude		Approachability by Air	
	Distance from important Cities		Map showing location and approachability	
	Approachability by Road			 
2	Chapter 3.2: Profile of Town:Cl	imate		-
	Maximum temperature:		Average yearly rainfall	
	Average temperature:		Raifall intensity	
	Minimumtemperature:	 	Rainfall Period/Duration	
	Wind direction		Humidity	
3	Chapter 3.3 : Profile of Town:To	opography	·	L
	Height above MSL		survey of India map scale 1:25000 whether prepared by SOI? Attach copy	
	Whether Topographical Map of city with levels are available?		survey of India map scale 1:50000, attach copy	
	If yes what is scale			
	How much area map covers			
	Year of Survey		 	 
4	Chapter 3.4 : Profile of Town:U	nder ground Soil Strata & W	ater Table	<u> </u>
	Type of rock/soil at surface at place		Depth of WT: metre	
	Type of rock/soil at surface at place		seasonal variation in water table	
	Type of rock/soil at surface at place		Variation in water table during last 20 or 30 years	
	Strata at different depths upto 10 m, Also attach strata charts at different locations		Soil bearing capacity at different locations	
5	Chapter 3.5 : Profile of Town:S	ocio Economic conditions		
а	Name of heavy indusry	i)	[ii)	iii)
	Product	 	! ∳	
	Quantity Manufactured	! !	ļ 	! ! !
	location	i 	 	i 
	Quantity of waste water Quantity of water supply	 	!	
	How waste water disposed	! !	! ! !	! ! !
	Heavy industry Proposed in	i 	i 	i 
	future			
b	Medium and small scale	i)	ii)	iii)
	Industries: Area/location			
	No of Units			<u></u>

	Item & Quantity Manufactured			
	Quantity of waste water			
	Quantity of water supply			
	How waste water disposed			
	Industries proposed in future			
С	Name of big	i)	ii)	iii)
	institutions/hotels/Hospitals			
	No of persons			
	working/rooms/beds			
	location	    -		
	Quantity of waste water	*		
	Quantity of water supply	†     		
	How waste water disposed	T		
	Proposed in future	†	i	7
	Note: Attach waste water quali	ty before treatment and after	treatment for a,b,c	÷
d	Trade and Commerce activities			

6	Chapter 3.6.1: Profile of Town	: Urban Infrastructure : Wat	ter Supply	
а	Source of water supply	Quantity of water supply MLD		
	i) Ground Water	, WULV	Note: Attach list of tube wells with KW, discharge, head,draw down, i strata chart and water quality of to	i) Attach Assembly detail,
	ii) Surface Source		Note: Enclose Quality of Raw Water	
	iii)Other source			
	Total water Drawal by Public Water Supply Scheme Quantity of water Supply other than Public system			
b	Water Supply coverage			i   
	Municipal Area Municipal Area covered % coverage		Present Population Population covered % coverage	
	Wards Covered fully		Wards uncovered totally	
С	Distribution System: Dia	Length	Material	
d	Clear Water Reservoirs/Ground Level Reservoirs: Location	Capacity :ML	Туре	Material
	i)	-		 
	ii)	- <u>-</u>		! !
	iii)	 		
	iv)		 	
	Total		% CWR capacity to dailly supply	
e	Over Head Service Reservoir: Location	Capacity : ML	Staging meters	Type & Material
	i) ii)			 
	iii)	<u> </u>		<u> </u>
	iv)			 
	Total	 	% OHSR capacity to dailly supply	
f	RWPS: Location	No of Pumps & KW	Dischrge & Head	Total quantity Pumped
	ii)  iii)	! !		 
g	CWPS: Location	No of Pumps & KW	Dischrge & Head	Total quantity Pumped
	i)			 

	ii)			
h	WTP: Location	Capacity MLD	Main Features	Main Features
	i)			
	ii)			
	Note: Enclose quality of treated	water and water at consume	er end	<del>:</del>
i	Tariff/water tax	 	Noi of PSPs	
	No of domestic connections		No of Hand pumps	
	No of Commercial connections		Revenue Assesment for last FY	
	No of industrial Connections		Revenue realization in last FY	
	No of metered connections		No of meters functional	
j	Operation & Maintenance			
	Staff available		Expenditure in last FY on Power	 

	Expenditure in last Fy on staff		Expenditure in last FY on Repairs	
	Other expenditure		Total expenditure on O & M	
k	Organization: for O & M		Organization for expansion and rehabilitation	
	Note: Enclose map showing wa	ter supply system		
7	Chapter 3.6.2 : Profile of Town	:Urban Infrastructure : Road		
а	Organization responsible for expansion		Length of WBM road	
	Organization responsible for O & M		Length of brick road	
	Length of NHW		Length of Katcha road	
	Length of state highway	†	Proposed Roads	†
	Length of other metaled road			
	Note : Attach map showing road	d net work	·	<u> </u>
8	Chapter 3.6.3 : Profile of Town	:Urban Infrastructur : Draina	ge	
	Organization responsible for expansion		O & M expenditure in last FY	
	Organization responsible for O & M		Expenditure on capital new works	
   <u>-</u>	water in drains; iii) list of points where drain are connected to so points in city with respect to dra	where sewer lines are conne ewer line; v) A map showing o ainage	drains, their sections and problem	
9	Chapter 3.6.4 : Profile of Town	:Orban intrastructure : Swivi	Ţ === === === === === === === === === =	 
a	Organization responsible for expansion		Staff available	
	Organization responsible for O & M		Privatization if any	
b	O & M expenditure in last FY		Expenditure on capital works new works	
С	<b>Collection</b> :Area under door to door collection		extent of segregation at source	
	Equipment for collection from house :type & No.	capacity	Trips/day	<u> </u>
	!  ii)	! ! !	! !	! 
	iii)			
	iv)			
	Bins: Type	No	Capacity	Material
	i)			
	ii)			
	iii)			

	iv)			
d	Quantity waste generated: tons/day		Quantity waste Transported: tons/day	
е	Transportatiuon: Vehicle Type	Nos	Capacity	Trips per day
	i)			
	ii)			
	iii)			
	iv)			
	Private Vehicles: Type	Nos	Capacity	Trips per day
	i)			
	ii)			
	iii)			
f	Transfer Station:location	Capacity	Туре	<del></del>
	i)			
	ii)			
g	Disposal: Existing :location	Quantity disposed dailly	Capacity of site	Type: sanitary land fill/semi sanitary/dumping
	i)			
	ii)			
	iii)			
	Disposal site proposed:location	Area	Status of Acquisition	Govt/Private

10	Chapter 3.6.5 : Profile of Town:Urban Infrastructure : Power				
	Organization responsible for	7	Power available hours per day as	7	
			per record		
	Organization responsible for		Tarriff		
	Location of 132 KV sub Station		Location of 33 kv sub station		
	Proposed expansion		<del></del>	<b>!</b>	
11	Chapter 4.1 : Review of existing	g Sewerage System : History	of Development		
	Year of commissioning of first		Year of commissioning of	I   	
	scheme	 	Subsequent scheme	 	
	Sewer line laid	 	Sewer line laid	! ! ! !	
	SPS: No & capacity		SPS: No & capacity		
	STP No, Capacity & Process		STP No, Capacity & Process		
	Future expansion in sewerage proposed if any				
12	Chapter 4.2 : Review of Existing	g Sewerage System : Sewer n	etwork and condition	<u> </u>	
а	Sewer network: Dia & material	length metres	Dia & Material	length in meters	
	150 mm-RCC NP2	 	400 mm	 	
	200 mm				
	250 mm	! ! !	! !	 	
	300 mm	 		i	
	350 mm	!  !	<del> </del>	 	
b	Man Holes: Size	No	Type	Material	
	1	i''' 		iviateriai	
		i 		i 	
	i   	i 	i 	i 	
	! 	! 	<u> </u>	! 	
	i 	i 	<u> </u>	i 	
	 	 	<u> </u>	 	
	i 	i   	i	i 	
	Vantilatina Chaft	 	 	<u> </u>	
С	Ventilating Shaft	No	Type	Material	
	<u> </u>	i !	! <del> </del>	i 	
	 	i 	i T	i 	
d	Bedding:	Type	Length	 	
		<u> </u> 	. coc can	<u> </u>	
	electrical equipment and civil w	orks, iii) quality of raw waste		ewer pipes, Mechanical,	
13	Chapter 4.3: Review of existing	g Sewerage System : Sewage	Pumping Stations		
	SPS: Location/ Screen type/Stand by power	Pump KW, Head, No, Working-Stand by/Pump type, efficiency of pump	Pumping hours/total waste pumped dailly/ Staff working/Expenditure on power	Sump capacity, depth, type	
		 	!	<u> </u> 	

	Chapter 4.4: Review of existing	g Sewerage System : Sewag	ge Treatment Plants				
14	STP: Location/Design Capacity/Process	Detail of screening/grit removal system	Influent quantity	staff/expenditure on staf			
-,	i)						
	ii)	†		<del> </del>			
	Mechanical equipment &	Electrical equipment &	Details of civil works, capacity,				
	details	details	condition etc				
	Chapter 4.5 : Review of existing	g Sewerage System : Efflue	nt and Sludge Disposal	<u> </u>			
15	How effluent is disposed		Revenue recd if any				
	How sludge is disposed		Potential for reuse of effluent	+			
	Chapter 4.6 : Review of Existing	g Sewerage System : Institu	utional Set Up	<del>i</del>			
16	Organization responsible for expansion		staff available, qualification/ experience				
	Organization responsible for O & M		Capital Works done during last 3- 5 years				
	Delegation of powers						
	Note: Attach Organization structure of the institution						
	Chapter 4.7: Review of existing Sewerage System: O & M						
17	Equipment/Vehicles available for Maintenance		Expenditure He	ead Wise			
	Break down frequency and stopages		Staff				
	Privatisation in O & M		Power	 			
	 	i 	Repairs chemicals	 			
	Chapter 4.8 : Review of existing	i g Sewerage System : Reven		<u> </u>			
18	Tariff	!	No of Connections				
	Tariff effectve from		New connection charges				
	Taxes	 	Procedure to sanction connection				
	Taxes effectve from		Revenue/ tax collection system				
	Who can revise tariff/tax	i I	Who collects				
		Last FY	Year before last FY	two years before last FY			
	Revenue Assesment						
	Revenue Realization	i 		 			

19	No of houses having toilet and	i ! !	No. of toilets with septic tanks	
	no of houses without toilets		and no. of toilets without septic	
	(this will indicate extent of		tank (This will indicate waste	
	open defecation		going to drain)	
	Suction machine for emptying	i	No. of community toilets and	
	septic tanks-No and capacity.		seats, who maintains community	
	Amt charged for cleaning		toilets, status of maintenance,	
	septic tanks		any demand for CT	
	! !	! ! ! #	<u> </u>	! ! !
	Chapter 5.1 : Land Use	Ţ		
20	Master Plan for which year		If master plan gives future density	
	available. Attach copy of		for different areas then attach	
	Master plan		map showing future densities	
	Chapter 5.2.1 : Population fore	lcast : City	<u> </u>	<u> </u>
	 	- -		
21	Decadal census population of	Population	Year	Population
	city: year			
	Year 1901	i 	Year 1951	
	Year 1901 Year 1911	i 1 1	Year 1951	i L
	ļ	i 	- <del> </del>	
	Year 1921		Year 1971	
	Year 1931	i !	Year 1981	
	Year 1941	i 	Year 1991	
	<u> </u>	: ! ! <del> </del>	Year 2001	 
		Population of city	Population of city forecasted in	Population of city
		forecasted in Master Plan	NCR Regional Plan 2021	forecasted in other
	! ! !	! ! !		documents if any
	Year 2011			
	year 2021	T		T
	Year 2031	 		
22	Chapter 5.2.2 : Population fore	cast: Ward wise	-i	i
	Whether ward is same as in			
	census 2001 or changed since		İ	
	then			
		and area from census 2001.	In case ward boundary changed afte	er 2001 then enclose map of
	city showing ward boundary & t		• •	
23	Chapter 5.2.3 : Population fore			
	Enclose map showing likely geo	- 		
	Enclose map snowing interly geo	grapriicar spread or city arter	20 years	
24	Chapter 7.7: Master Plan: Low	Cost Sanitation		
	i +	population and status ofsan	tation. Enclose map showing locatio	on of slums
25	Chapter 8: Cost Estimate			
	Which Schedule of Rates used		Year SORs effective	
	for estimation	i !		
	Cost per KW of Pumping		Tender Premiums received	
26	Station Chapter 7.4 : Master Plan: Trun	i nk Mains & Outfall Sower	.i	<u>i</u>
	! !	ir mains & Outlan Sewel		
	Rates of Pipe for supply and		Cost of land for SPS/STP	
	transportation,	! !		
	Per MLD Cost of STPs for	į	Coarse screen options and unit	
	different processes	1	costs	

Fine Screen options & unit	Grit Removal options & unit costs	
costs	j j	
Note: Enclose cost of different types of sewer pipes, places near city where manufacturing places ne		