



Nagercoil Municipality City Sanitation Plan

NAGERCOIL MUNICIPALITY TOWN PROFILE

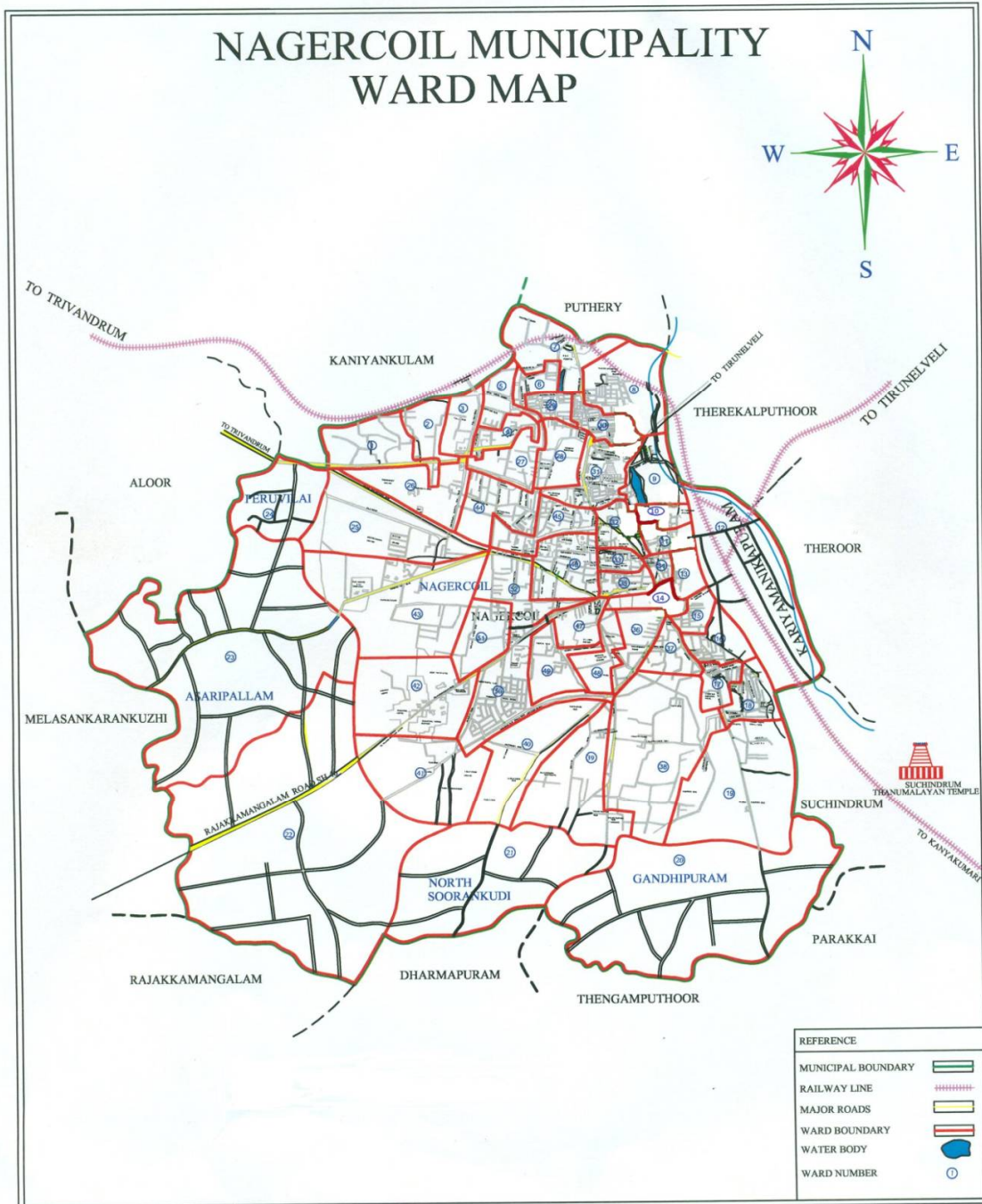
Nagercoil is a city and a municipality in Kanyakumari district in the Indian state of Tamil nadu. It is the southernmost city in South India, situated close to the tip of the Indian peninsula. The town is also the administrative headquarters of Kanyakumari District. It is an ancient and important commercial town located 20 K.M. north of kanyakumari, 64 K.M south of Trivandrum and 80 K.M. South west of Tirunelveli and well connected with road and rail network.

The town is located at the intersection 77 29' East Longitude and 8 11' North latitude at MSL of 40 meters. River Palayaru, originating from the Western Ghats and flowing through the city in the North-east portion and the Western Ghats on the north west, Arabian sea at the west side are the major geographical features of this region. The maximum temperature during the summer is 34 C with moderate humidity at times. Nagercoil is the only Indian Town to receive both the north-east monsoon and the south-west monsoon.

The city is spread over an area of 49.10 sq.km with population of 260074 as per provisional censuses data 2011 and population density of 9243 persons per sq.km. Municipal corporation includes four villages namely Nagercoil Gramam, Vadiveeswaram Gramam, Vadasery Gramam and Neeandakarai Gramam. For administrative convenience the town is divided into 52 wards.

Being the district administrative Nagercoil holds a number of Educational Institutions, Hospitals, Offices and Industries. The economy of the town revolves around the agriculture activities. Fish-net manufacturing, Cottage industries include coir-making, Floraltrade, Handloom-weaving, Rubber products, Food-processing units, and Lace-making (export-oriented). It is also hub of products Cotton and Rice. The minerals limonite and monazite are mined there. Apart, fish-net manufacturing is a growing business in and around the town: nets for commercial fishing are supplied to the domestic and export markets. Cottage includes coir-making, floral trade, handloom-weaving, rubber products, food- processing units, and lace making (export-oriented) are also prominent in the city.

CITY MAP



DEMOGRAPHY

As per the census of india, in 2001 the population of this town is 208179 and it has grown to 260074 in 2011 and the projected population in 2019-2025 is 318195.

1	Population	Year	(i) Total Population	(ii) Slum Population	(iii) Floating population (assume 5% of total population or actuals based on survey records, whichever is high)
		2001	208179	11210	10408
		2011	260074	14732	13003
		2019 (Projected)	297438	16612	14871
		2025 (Projected)	318195	1842	15910

SLUM DETAILS

1. List of Large Slum Areas in the City:				
Sl. No.	Name of the slum/ slum like settlement	Zone (East, West, North, South)	Ward No.	Landmark
1	Arasu Colony	South	1	Arasu Colony
2	Arunthathiar Street	North	4	Arunthathiar Street
3	Melatheru Karai	North	5	Melatheru Karai
4	Aruguvilai	North	6	Aruguvilai
5	M.G.R.Nager	North	9	M.G.R.Nager
6	Parakinkal Pandu	East	11	Parakinkal Pandu
7	Poochathankulam	East	15	Poochathankulam
8	Kunnu vilai	East	35	Kunnu vilai
9	Kalaivanar Street	East	35	Kalaivanar Street
10	Ottupurai Street	East	35	Ottupurai Street
11	Sastha Nager	East	18	Sastha Nager
12	Sulkaiman Nager	South	19	Sulkaiman Nager
13	Puthenkudieruppu	South	19	Puthenkudieruppu
14	Attukadai Mudukoo	East	33	Attukadai Mudukoo
15	Muthaliyar vilai	West	42	Muthaliyar vilai
16	Chithirai Rajapuram	South	51	Chithirai Rajapuram
17	Manickavasagapuram	South	51	Manickavasagapuram
18	M.G.R.Nager	South	51	M.G.R.Nager
19	Maracheeni Vilai	North	29	Maracheeni Vilai
20	Madancoil Street	East	36	Madancoil Street
21	Kasthuri Nager	West	41	Kasthuri Nager

NonSlum Details				
1	Melakalungadi	North	8	Melakalungadi
2	Kulalar tteru	East	16	Kulalar tteru
3	Thamarikulam Karai	East	17	Thamarikulam Karai
4	Elankadai Sambavar Stteet	East	18	Elankadai Sambavar Stteet
5	Malikthinar Nager	West	21	Malikthinar Nager
6	Kannankulam	South	20	Kannankulam
7	Kattunayakan Strret	East	35	Kattunayakan Strret
8	Pon Nager	North	27	Pon Nager

SOLID WASTE MANAGEMENT

Nagercoil Municipality is first grade Municipality and having 52 wards. As per 2011 census total population is 260074. Total area of the Municipality is 49.10 Sq.Km. 14.8 Acres of land available for compost in Valampuri vilai. Solid Waste Management Bye-Law framed and notified in District Gazette on 16.05.2017. User charges collected from households and commercial establishments from 01.07.2017, Penalty Imposed to defaulters.

110MT of Garbage generated per day. Bio Degradable non Degradable segregation Plant has been proposed under Swachh Bharath Mission contribution Scheme.

Primary Collection:

Segregated garbages are collected from house hold by using 358 push carts, 51 Mini Auto. Door-to-Door Collection in all 52 wards.

Secondary Collection And Transportation:

There are 4 Tipper Lorries, 3 Compactor Lorry , 5 Dumper Placer, 3 Tempo Placer are used.

Resource Recovery Center:

One Resource Recovery Center for collecting the plastic waste. Collected Plastic waste are Shredded into small pieces are sold and also laying of road.

1. 5MT Capacity Bio Methane gas Plant.
2. 2 Plastic Shredder Machine.

PRIMARY COLLECTION



SECONDARY COLLECTION



TRANSPOTATION



SOLID WASTE COMPOSTING UNIT



DETAILS ON GENERATION OF GARBAGE

Sl.No	Wards	MT	Population
1	1,2,25,43,44	14	28034
2	16,17,18	7	14043
3	19,38,39,47	6	29817
4	35,14,15	4.7	13930
5	48,36	1.75	9661
6	37	1	4855
7	24	2.5	6381
8	6,7	4.7	15858
9	10,32	7.51	7035
10	46,52	7	8428
11	22,23	12	15521
12	26,27,28,30	9.6	21865
13	31,45	6.5	11578
14	20,49,51	3.9	20449
15	40,21,41,42,50	8.25	23427
16	3,4,5,29	2.25	23066
17	8	8.25	4120
18	9	1	4507
19	11,12,13,33,34	11	19856

ZONAL DETAILS AND SANITARY WORKERS
DEMAND FOR SOLID WASTE MANAGEMENT **ZONE**

: 1

Sl.No	Ward No	House Hold	Population	Municipal Man Power for slit Removal	SRB Man Power	Man power	Secondary Collection	
							Battery Bike	Auto
1	3	922	4192	18	7	11		1
2	4	1128	4138		7	13		1
3	5	862	3897		6	10		1
4	6	1494	6796		8	17		1
5	7	1627	7130		9	19		2
6	8	1646	6713		7	19		2
7	9	1253	3831		7	15		1
8	29	1733	6281		7	20		2
		10665	42978	18	58	124		11

ZONE : II

Sl.No	Ward No	House Hold	Population			Man power	Secondary Collection	
							Battery Bike	Auto
1	10	1085	2999	26	5	13		1
2	26	809	3433		8	9		1
3	27	1181	4850		8	14		1
4	28	1243	3304		12	14		1
5	30	1901	6289		9	22		2
6	31	2609	6074		12	31		3
7	32	1667	3463		10	20		2
8	45	1743	3059		10	20		2
		12238	33471	26	74	143		13

ZONE : III								
Sl.No	Ward No	House Hold	Population			Man power	Secondary Collection	
							Battery Bike	Auto
1	11	1318	4490	28	6	15		1
2	12	1357	4247		8	16		1
3	13	687	2968		5	8		1
4	33	766	3200		7	9		1
5	34	869	3089		7	10		1
6	46	1319	4034		10	15		1
7	49	1666	5983		7	19		2
8	51	1595	7156		8	19		1
9	52	1560	5669		8	18		1
		11137	40836	28	66	129		10

ZONE : IV								
Sl.No	Ward No	House Hold	Population			Man power	Secondary Collection	
							Battery Bike	Auto
1	20	2153	4670	20	12	25		2
2	21	580	1526		4	6		1
3	22	2326	4961		8	27		2
4	23	2598	7794		8	31		2
5	40	1343	6008		4	16		1
6	41	1225	5152		4	14		1
7	42	1149	4199		6	13		1
8	50	1395	7156		6	16		1
		12769	41466	20	52	148		11

ZONE WISE TOTAL

ZONE	House Hold	Population			Man power		Secondary Collection
						Battery Bike	Auto
ZONE 1	10655	42978	18	58	124		11
ZONE 2	12238	33471	26	74	143		13
ZONE 3	11137	40836	28	66	129		10
ZONE 4	12769	41466	20	52	148		11
TOTAL	46799	158751	92	250	544		45
Additional Man Power							
1	For 2 Bus Stands			10	12		
2	Night Sweeping			10	10		
3	Public Toilet			10	10		
	Grand Total		92	280	576		

Man power required as 101 GO	576
Man power Used by SRB	280
Municipal man power used for silt removal work in 33 wards	92

APPROCH FOR STATE SANITATION STRATEGY

Components :

- Individual House Hold Toilets
- Community Toilets
- Public Toilets
- Solid Waste Management
- IEC and
- Public Awareness
- Capacity Building & Training

No	Particulars	General Details			
1	Name of the City	NAGERCOIL		Statutory Town (YES / NO)	Yes
2	District	Kanyakumari	State: Tamilnadu	Yes	
3	General Profile of the City	Total No of Wards	Area of the City (Sq.Km)	No of Households 2011 Census	No of Slums/ Slum Households
		52	49.1	76006	29/4116
4	Population	Year	(i) Total Population	(ii) Slum Population	(iii) Floating population (assume 5% of total population or actuals based on survey records, whichever is high)
		2001	208179	11210	10408
		2011	260074	14732	13003
		2019 (Projected)	297438	16612	14871
		2025 (Projected)	318195	1842	15910
5	Status of Latrine Availability	A Per 2011 Census		Projected up to 2019	Justification for the projection
5.1	No.of Urban HHS resorting to open defecation	214		Nil	Public are educated to use community toilet
5.2	No.of Urban HHS having pit latrines	Nil		Nil	Nil
5.3	No.of Urban HHS having insanitary latrines	Nil		Nil	Nil

6	Solid waste management (tentative quantity bases on per capita waste generation)	450 Gms /day /Person
6.1	Total solid waste generated (inMT)	115Mt
6.2	Total waste collected (inMT)	110Mt
6.3	Total waste transported (in MT)	110Mt
6.4	Total waste treated (in MT)	Nil

Sl.No	Targets	Baseline 2011	Cumulative Projection upto 2019	Justification based on 2001-11 data & other Factors	Target 2015	Target 2016	Target 2017	Target 2018	Target 2019	Cumulative Target (2014-19)
	Capacity Building	15	0	Nil	0	0	0	0	1	15
	Construction on new individual households Latrines	776	0		0	0	0	0	776	776
	Construction of community toilets (norm :1 Seat/25 Women and 1 seat/35 Men	4	0		0	0	0	0	4	4

	construct ion on of puplic toilets:1 seat/50 women and 1seat/10 0 men up to specified numbers)	4	2		0	0	0	0	2	4
	conversio n of insanitar y latrines into sanitary latrines	0	0		0	0	0	0	0	0
	Conversi on of PIT latrines into Sanitary Latrines	0	0		0	0	0	0	0	
	Puplic Awarene	20000	20000	Pamphlets	0	0	0	0	25000	25000

		<p>nos with under ground GI piping) D)construction of watchmen shed. E)Purchase of pokkalin to maintain the comp.yard. F)purchase of sullage lorry for leachate collection. G)construction of segregation shed. H)Supply and erection of shredding machine. I)purchase of bundling machine. J) construction of bio methanation plant (5 TPD).</p>								
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Tentative Financial Requirements									
Sl.No	Funding (As per the Funding Pattern in SBM Urban Guideness)	2014-15	2015-16	2016-17	2017-18	2018-19	2014-2019(Total)	Cost/ Unit As per City Specific norms*	State's Incentive(in Rs.Per unit)
1	Capacity Building	2381000	2381000	2121000	887000	887000	8657000	0	0
2	Construction on new individual households Latrines	0	2480000	3728000	0	0	0	0	0
3	Construction on of community toilets (norm :1 Seat/25 Women and 1 seat/35 Men	0	9000000	3000000	0	0	12000000	0	0
4	construction on of puplic toilets:1 seat/50 women and 1seat/100 men up to specified numbers)	0	0	0	0	0	0	0	0
5	conversion of insanitary latrines into sanitary latrines	0	0	0	0	0	0	0	0
6	Conversion of PIT latrines into Sanitary Latrines	0	0	0	0	0	0	0	0
7	Puplic Awareness & IEC	1600000	1600000	1600000	1000000	1000000	6800000	0	0
8	Solid Waste Management	0	35000000	35000000	0	0	70000000	0	0

THANKING YOU