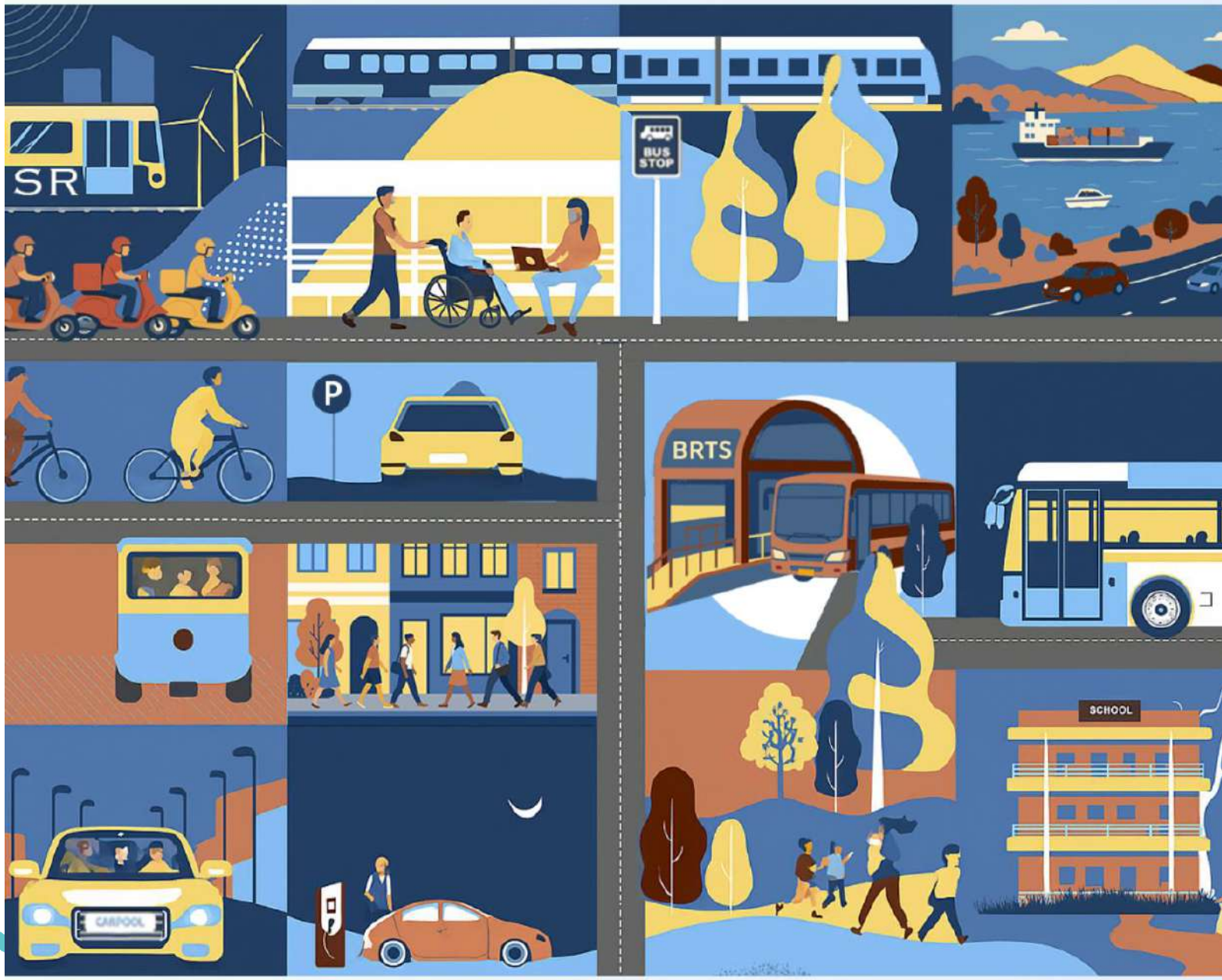
Chennai Unified Metropolitan Transport Authority (CUMTA)

(An Authority under Government of Tamil Nadu)

COMPREHENSIVE MOBILITY PLAN (CMP)

For Chennai Metropolitan Area - 5,904 sq.km

2023-2048



VOLUME II - ANNEXURE

CONTENTS

Annexure 1. List of Traffic Analysis Zones (taz) 4

Annexure 2. KPI Framework 36

1.1.1 Objective-1: Green 36

1.1.2 Objective-2: Resilient 39

1.1.3 Objective-3: Inclusive 40

1.1.4 Objective-4: Efficient Development 41

1.1.5 Objective-5: Safe 44

1.1.6 Objective-6: Innovative 45

Annexure 3. Population Projection 47

Annexure 4. Employment Projection 53

Annexure 5. Scenario-wise Population & Employment 57

Annexure 6. Minutes of Meeting with Census Director 72

Annexure 7. Minutes of Multiple Meetings with CMDA & CUMTA 73

Annexure 8. Regional setting and administrative divisions 75

Annexure 9. Population Distribution Strategy 77

Annexure 10. Employment Distribution Strategy 84

Annexure 11. Road Proposals from Second Master Plan 91

Annexure 12. Junction Improvement Proposal 97

Annexure 13. Public Transport Demand Maps 103

Annexure 14. Non-Motorised Transport (NMT) Proposal 109

Annexure 15. Promoting Retrofit Programs 114

Annexure 16. Project Costing & Phasing 122

Vol-II

ANNEXURES



ANNEXURE 1.LIST OF TRAFFIC ANALYSIS ZONES (TAZ)

Table 1: Region-wise list of TAZs

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
1	Nungambakkam	Chennai Corporation
2	Kilpauk (South)	Chennai Corporation
3	Kilpauk (North)	Chennai Corporation
4	Chetpet	Chennai Corporation
5	Egmore,Pudupet	Chennai Corporation
6	Thousand Lights	Chennai Corporation
7	Nakkeerar Nagar	Chennai Corporation
8	Ko.Su. Mani Nagar	Chennai Corporation
9	Periyar Nagar (North),Periyar Nagar (South)	Chennai Corporation
10	Aminjikarai (East)	Chennai Corporation
11	Shenoy Nagar	Chennai Corporation
12	Panneerselvam Nagar	Chennai Corporation
13	Maraimalai Adigal Nagar (North)	Chennai Corporation
14	Maraimalai Adigal Nagar (South)	Chennai Corporation
15	Anjugam Ammaiyar Nagar	Chennai Corporation
16	Purasawalkam	Chennai Corporation
17	Kannappar Nagar	Chennai Corporation
18	Gangadaraeswarar Koil,Dr. Ambedkar Nagar	Chennai Corporation
19	Adikesavapuram	Chennai Corporation
20	Chintadripet	Chennai Corporation
21	Nehru Nagar,Govt.Setate, Pudupet	Chennai Corporation
22	Komaleeswaranpet,Balasubramaniam Nagar	Chennai Corporation
23	Azad Nagar (North),Ameer Mahal	Chennai Corporation
24	Azagiri Nagar	Chennai Corporation
25	Sathyamurthi Nagar	Chennai Corporation
26	Kalaivanar Nagar	Chennai Corporation

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
27	Navalar Nedunchezhian Naga, United india Colony	Chennai Corporation
28	Vadapalani (East)	Chennai Corporation
29	Aminjikarai NGO Colony	Chennai Corporation
30	Aminjikarai Anna Arch Rd.	Chennai Corporation
31	Anna Nagar (Central)	Chennai Corporation
32	Anna Nagar Shenoy nagar	Chennai Corporation
33	Ayanavaram	Chennai Corporation
34	Viduthalai Guru Samy Nagar	Chennai Corporation
35	Nagamma Ammaiyar Nagar (South)	Chennai Corporation
36	Thiru Vi. Ka. Nagar	Chennai Corporation
37	Nagamma Ammaiyar Nagar (North)	Chennai Corporation
38	Wadia Nagar	Chennai Corporation
39	Dr. Sathyavanimuthu Nagar	Chennai Corporation
40	Pulianthope	Chennai Corporation
41	Dr. Beasant Nagar	Chennai Corporation
42	Kosapet,Perumalpet	Chennai Corporation
43	Choolai,Pattalam,Arivazhan Nagar	Chennai Corporation
44	Thattankulam	Chennai Corporation
45	Elephant Gate	Chennai Corporation
46	Park Town	Chennai Corporation
47	Edapalayam	Chennai Corporation
48	Nehru Nagar-Chennai Central	Chennai Corporation
49	Nehru Nagar, Kendra Vidyalaya Island Grounds	Chennai Corporation
50	Thruvateeswaranpet,Dr. Natesan Nagar,Zambazaar,	Chennai Corporation
51	Umaru Pulavar Nagar,Bharathi Nagar	Chennai Corporation
52	Azad Nagar (South)	Chennai Corporation
53	Vivekanandapuram,Thiruvalluvar Nagar	Chennai Corporation
54	Royapettah,Teynampet	Chennai Corporation
55	Alwarpet (North)	Chennai Corporation

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
56	Theagaraya Nagar	Chennai Corporation
57	V. O. C. Nagar	Chennai Corporation
58	Rajaji Nagar	Chennai Corporation
59	Kamaraj Nagar (South)	Chennai Corporation
60	Kamaraj Nagar (North)	Chennai Corporation
61	M.G.R. Nagar	Chennai Corporation
62	Ashok Nagar	Chennai Corporation
63	Vadapalani (West)	Chennai Corporation
64	Saligramam	Chennai Corporation
65	Aminjikarai Arumbakkam	Chennai Corporation
66	Aminjikarai (West)	Chennai Corporation
67	Anna Nagar Block, AC,AB,AA,1to 10 th street	Chennai Corporation
68	Anna Nagar Block V, W, Q	Chennai Corporation
69	Villivakkam ICF, Anna Nagar West, Mallan Colony, CRQ & Postal Quarters	Chennai Corporation
70	Villivakkam (North)	Chennai Corporation
71	Kulathur	Chennai Corporation
72	Agaram (North)	Chennai Corporation
73	Agaram (South)	Chennai Corporation
74	Sembiam	Chennai Corporation
75	Perambur (South)	Chennai Corporation
76	Siruvallur	Chennai Corporation
77	Perambur (North)	Chennai Corporation
78	Elango Nagar	Chennai Corporation
79	Perambur (East)	Chennai Corporation
80	Vyasarpadi (North)	Chennai Corporation
81	Vyasarpadi (South)	Chennai Corporation
82	Kumarasamy Nagar (South)	Chennai Corporation
83	Kumarasamy Nagar (North)	Chennai Corporation

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
84	Korukkupet	Chennai Corporation
85	Dr. Radhakrishnan Nagar (South)	Chennai Corporation
86	Sanjeeviroyanpet	Chennai Corporation
87	Mottai Thottam,Dr. Vijayarahavalu Nagar	Chennai Corporation
88	Narayanappa Naicken Garden,Dr. Radhakrishnan Nagar (North)	Chennai Corporation
89	Grace Garden	Chennai Corporation
90	Singara Garden	Chennai Corporation
91	Ma.Po.Si. Nagar,Royapuram	Chennai Corporation
92	Basin Bridge	Chennai Corporation
93	Meenakshiammanpet	Chennai Corporation
94	Kondithope	Chennai Corporation
95	Peddu Naickenpet	Chennai Corporation
96	Seven Wells (south)	Chennai Corporation
97	Perumal Koil Garden	Chennai Corporation
98	Seven Wells (North),Amman Koil,Sowcarpet	Chennai Corporation
99	Muthialpet	Chennai Corporation
100	Vallal Seethakathi Nagar	Chennai Corporation
101	Katchaleeswarar Nagar	Chennai Corporation
102	Nehru Nagar-Fort St.George	Chennai Corporation
103	Nehru Nagar, Naiper Bridge	Chennai Corporation
104	Chepauk	Chennai Corporation
105	Thiruvallikeni,Marina	Chennai Corporation
106	Krishnampet,Bharathidasan Nagar	Chennai Corporation
107	Madha Perumal Puram,Karaneeswarapuram	Chennai Corporation
108	Santhome,Mylapore	Chennai Corporation
109	Avvai Nagar (North)	Chennai Corporation
110	Raja Annamalai Puram	Chennai Corporation
111	Bheemannapet	Chennai Corporation
112	Avvai Nagar (South)	Chennai Corporation

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
113	Adayar (West)	Chennai Corporation
114	Alwarpet (South)	Chennai Corporation
115	G.D. Naidu Nagar (East)	Chennai Corporation
116	G.D. Naidu NagarLittle Mt.Junction, Engg Clg Guindy	Chennai Corporation
117	G.D. Naidu Nagar YMCA Golf Club,Jothimal Nagar	Chennai Corporation
118	Kalaignar Karunanithi Nagar	Chennai Corporation
119	saidapet (East)	Chennai Corporation
120	Guindy (west)	Chennai Corporation
121	saidapet (West)	Chennai Corporation
122	Kumaran Nagar (south)	Chennai Corporation
123	Kumaran Nagar (North)	Chennai Corporation
124	Navalar Nedunchezhian Nagar, Ashok pillar	Chennai Corporation
125	Kodambakkam Jafferkhan pet	Chennai Corporation
126	Virugambakkam (South)	Chennai Corporation
127	Kodambakkam KK Nagar Bus Depot	Chennai Corporation
128	Kodambakkam, Sivan Park	Chennai Corporation
129	Virugambakkam (South)	Chennai Corporation
130	Saligramam, Prasad Color Labs, Vadapalani MTC depot, AVM Studio	Chennai Corporation
131	CMBT	Chennai Corporation
132	Koyambedu Wholesale Market	Chennai Corporation
133	Villivakkam, CPWD Quarters, Metrozone, Thirumangalam, Crown Residencies, Golden jubilee park	Chennai Corporation
134	Villivakkam Sidco Nagar	Chennai Corporation
135	Kulathur, Retteri Junction	Chennai Corporation
136	Kodungaiyur	Chennai Corporation
137	Chinna kodungaiyur	Chennai Corporation
138	Jeeva Nagar STP, Landfill	Chennai Corporation
139	Jeeva Nagar (South)	Chennai Corporation
140	Kodungaiyur, CONCOR	Chennai Corporation

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
141	Cherian Nagar (North)	Chennai Corporation
142	Cherian Nagar (South)	Chennai Corporation
143	Old Washermanpet	Chennai Corporation
144	Tondiarpet	Chennai Corporation
145	Jeeva Nagar Tondiarpet	Chennai Corporation
146	Adayar (East)	Chennai Corporation
147	Thiruvanmiyur, Kalakshetra School of Fine arts,	Chennai Corporation
148	Thiruvanmiyur, NIFT, TIDEL Park, gandhi Street, Canal Road	Chennai Corporation
149	Thiruvanmiyur, Taramani, IITM Research Park, CSIR Taramani,	Chennai Corporation
150	Guindy, IIT M	Chennai Corporation
151	Thiruvanmiyur, Bhartinagar, Pillayar Koil	Chennai Corporation
152	Velachery, Bhuvaneshwar Nagar,Venus Colony, VGP Selva nagar	Chennai Corporation
153	Velachery, Vijaynagar, Gangai Nagar, Seethapathy nagar, Rajalaxmi nagar	Chennai Corporation
154	Velachery, NGO Colony, Ambedkar nagar, Adambakkam, Lakshmi Hayagriva Nagar	Chennai Corporation
155	Guindy Race Course	Chennai Corporation
156	Nerkundram ,Maduravoyal	Other Villages in CMA Area
157	Valasaravakam	Other Villages in CMA Area
158	Valasaravakam, Ramapuram	Other Villages in CMA Area
159	Ramapuram	Other Villages in CMA Area
160	Namdambakkam	Other Villages in CMA Area
161	Manapakkam, Mugalivakkam	Other Villages in CMA Area
162	Karambakkam, Porur, Madanandapuram, Kulapakkam	Other Villages in CMA Area
163	Maduravoyal	Other Villages in CMA Area
164	Maduravoyal, Sivabudam, vanagaram	Other Villages in CMA Area
165	Nolambur	Other Villages in CMA Area
166	Nolambur, Nearby pass, VGN, La parisienne	Other Villages in CMA Area
167	Kakapallam, Mannur, Athipattu, Mogappair	Other Villages in CMA Area

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
168	Padi	Other Villages in CMA Area
169	Korattur	Other Villages in CMA Area
170	Pattravakkam, Menambeu	Other Villages in CMA Area
171	Ayanambakkam, Perumalagaram ,Adayalampattu ,Koladi	Thiruvarkadu Municipality
172	vanagaram, Chettiyaragaram, Thandalam, Numbal	Thiruvarkadu Municipality
173	Kulathuvancheri, Thelliyarangaram, Ayyappanthangal	Other Villages in CMA Area
174	Tharapakkam, pentankattalai, Thandalam, Kovur, Gerugambakkam, Peripanicheri, Mouli	Other Villages in CMA Area
175	Minambakkam	Other Villages in CMA Area
176	StThomas Mount	Other Villages in CMA Area
177	Alandur	Other Villages in CMA Area
178	Adayar ward - F	Other Villages in CMA Area
179	Palavanthangal,Nanganallur	Other Villages in CMA Area
180	Cowl Bazaar, Minambakkam cum	Other Villages in CMA Area
181	Polichalur	Other Villages in CMA Area
182	Chinnapanicheri, Paraniputhur, Sirinivasapuram, Katturpakkam, Goparasanallur, Senn	Other Villages in CMA Area
183	Sundrasholavaram	Thiruvarkadu Municipality
184	Ayapakkam, Thirumullaivoyal	Avadi Corporation
185	Oragadam	Other Villages in CMA Area
186	Puttagaram	Other Villages in CMA Area
187	Surappattu , Kathirvedu	Other Villages in CMA Area
188	Villakkupattu	Other Villages in CMA Area
189	Manjambakkam	Other Villages in CMA Area
190	Chinna sekkadu, Amulavoyal, Vaikkadu, Elanthancheri ,Sadayankuppam, Ariyalur, Kada	Other Villages in CMA Area
191	Sathangadu	Other Villages in CMA Area
192	Tiruvottiyur, Wimco Nagar,	Other Villages in CMA Area

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
193	Tiruvottiyur, Wimco Nagar Depot, All India Radio Housing board, Ernavur, Bharatiyar Nagar	Other Villages in CMA Area
194	Ernavur.	Other Villages in CMA Area
195	Mathur	Other Villages in CMA Area
196	Mathur,Vadapurambakkam, Vadakarai, Layongrant, Naravarikuppam, Layon, Alinjivakkam	Other Villages in CMA Area
197	Puzhal Redhills, Tundalkalani	Other Villages in CMA Area
198	Kovilpadagai	Avadi Corporation
199	Palaripattu, Paruthipattu, Sekkadu, Vilinjiambakkam	Avadi Corporation
200	Thukkanampattu , Pidarithangal, Parivakkam, Kolappancheri, Panavaduthottam, Veerar	Other Villages in CMA Area
201	Ariyamarundanallur, Agraharam	Poonamalle Municipality
202	Kulamanivakkam , Mangadu	Mangadu Municipality
203	Mangadu	Mangadu Municipality
204	Kunrathur, Vengatapuram, Manancheri, Thirunageswaram, Munnankattalai, Kollaicheri	Kundrathur Municipality
205	Anakaputur, Polichalur	Tambaram Corporation
206	Pammal	Tambaram Corporation
207	Pammal, VOC nagar	Tambaram Corporation
208	Pammal, Chromepet	Tambaram Corporation
209	Pallavaram	Tambaram Corporation
210	Pallavaram, Issa Pallavaram	Tambaram Corporation
211	Thalakkanacheri	Other Villages in CMA Area
212	Muvarasampattu, Madipakkam, Perundavakkam	Other Villages in CMA Area
213	Pallikaranai, Ram Nagar South Extension	Other Villages in CMA Area
214	Perungudi	Other Villages in CMA Area
215	Kottivakkam	Other Villages in CMA Area
216	Plavakkam, Sivaram	Other Villages in CMA Area
217	Perungudi, Plavakkam, Neelangarai	Other Villages in CMA Area

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
218	Neelangarai	Other Villages in CMA Area
219	Okkiam thurai pakkam	Other Villages in CMA Area
220	Pallikaranai, Narayanapuram, National institute of Ocean Tech	Other Villages in CMA Area
221	Medavakkam, Jaladampettai	Other Villages in CMA Area
222	Nanmangalam ,Kulathur, Kovilambakkam, Keelakattaalai	Other Villages in CMA Area
223	Sembakkam, Samraj nagar	Tambaram Corporation
224	Sembakkam, Kamarajapuram	Tambaram Corporation
225	Nemilicheri	Tambaram Corporation
226	Thambaram Railway Station	Tambaram Corporation
227	Thambaram, Madras Export processing Zone, Nationa institute of Siddha, Valluvar Gurukulam Girls Secondary School	Tambaram Corporation
228	Thiruneermalai	Tambaram Corporation
229	Thambaram, Kannadapalayam	Tambaram Corporation
230	Rhirumudivakkam, Palanthendalam	Other Villages in CMA Area
231	Meppur, Malayambakkam, Melagaram, NazarathPettai, Varadharajapuram	Other Villages in CMA Area
232	Kattirambakkam,Chettipattu, Palanjur, Kuttambakkam, Chembarambakkam,Madavilagam,Ne	Thirumazhisai TP
233	Avadi IFC	Avadi Corporation
234	Pottur, Vellanur, Pammadukulam, Alamadi	Other Villages in CMA Area
235	Naravarikuppam	Naravarikuppam TP
236	Vichoor,Edayanchavadi, Vellivoyal, Thirunilai, Kodipallam, Periamullavoyal, Chinn	Other Villages in CMA Area
237	Ennor	Other Villages in CMA Area
238	Vallur, Athipattu ,Nandiyambakkam, Kollati, Ariyanvoyal	Other Villages in CMA Area
239	Minjur	Minjur TP
240	Sothupakkam, Perungavur, Kummanur, Marambedu, Ankadu, Arumandai, Kandigai, Pudur,	Other Villages in CMA Area
241	Pdiyanallur ,Thiruthakiriyampattu	Other Villages in CMA Area

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
242	Vijayanallur, Pannivakkam, Nallur, Siruniyam, Sembilivaram, Palayaermaivettipalaya	Other Villages in CMA Area
243	Attanthangal	Other Villages in CMA Area
244	Alathur, Velacheri, Pulikutti, Tenambakkam, Kadavur, Keelakondaiyur, Karlapakkam,	Other Villages in CMA Area
245	Nadukuttagai, Pakkam, Palavedu, Mittanamalli, Mukthapudupattu	Other Villages in CMA Area
246	Agraharam, Annambedu, Karunakaracheri, Nemilicheri, Thiruninravur	Thiruninravur Municipality
247	Thiruninravur, laxmiPathy Nagar, Thinninoor	Thiruninravur Municipality
248	Thiruninravur, Thiruvangada nagar	Thiruninravur Municipality
249	Thirumazhisai	Other Villages in CMA Area
250	Poonthandalam, Nandambakkam, Daravur, Kavanur, Sirukulathur	Other Villages in CMA Area
251	Mudichur, Varadharajapuram, Naduveerapattu, Erumaiyur	Other Villages in CMA Area
252	Perungalathur	Tambaram Corporation
253	Perungalathur, Gandhi nagar	Tambaram Corporation
254	Thambaram, Shakti nagar	Tambaram Corporation
255	Thambaram Kulam, Mullal nagar, Chandradevasan,	Tambaram Corporation
256	East Thambaram	Tambaram Corporation
257	Peerkankaranai, Perungalathur	Tambaram Corporation
258	Vandalur, Mannivakkam, Kelambakkam	Other Villages in CMA Area
259	Vandalur, Arignagar Anna Zoo Park	Zoo Park
260	Puthur, Nedukundram, Kulapakkam	Other Villages in CMA Area
261	Irumbuliyur,Meppedu, Thiruvanjeri	Tambaram Corporation
262	Hasthinapuram, Chitlapakkam	Tambaram Corporation
263	Sembakkam, Gowrivakkam, Rajakilpakkam	Tambaram Corporation
264	Madambakkam	Tambaram Corporation
265	Madambakkam, Kaspapuram, Vengambakkam, Agaramten	Other Villages in CMA Area
266	Vengavasal	Tambaram Corporation
267	Madambakkam,Santhoshapuram, Veerabadhra nagar	Other Villages in CMA Area

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
268	SithalaPakkam ,Arasankalani, KovilanCheri, Madurapakkam, Otiyambakkam, Mulacheri	Other Villages in CMA Area
269	Perumbakkam	Other Villages in CMA Area
270	Sholinganallur,Uthandi,Semmancheri,ELCOT,Indian Maritime Univ, Jeppiar Eng Clg, St.Joseph Institute of Tech, Sathyabama Institute of Science & Tech	Other Villages in CMA Area
271	karapakkam ,Okkiam thurai pakkam	Other Villages in CMA Area
272	Sholinganallur, RajivGandhi Salai	Other Villages in CMA Area
273	Okkiam thurai pakkam, Injambakkam	Other Villages in CMA Area
274	Sholinganallur, ECR	Other Villages in CMA Area
275	Sholinganallur,Uthandi	Other Villages in CMA Area
276	Bus Stand - Thiruvanmiyur	Terminal
277	Bus Stand - MMBT/ Truck Terminal	Terminal
278	Bus Stand - Kilambakkam	Terminal
279	Railway Station - Egmore	Railway Terminal
280	Airport Chennai	Airport
281	Neithavayal	Thiruvallur Dist, Ponneri Taluk, Minjur PU
282	Vayalur	Thiruvallur Dist, Ponneri Taluk, Minjur PU
283	Kalanji	Thiruvallur Dist, Ponneri Taluk, Minjur PU
284	Abrahampuram, Andarmadam, Perumbulam, Karungali	Thiruvallur Dist, Ponneri Taluk, Minjur PU
285	Sirulapooncheri, Eripillaikuppam, Athamanjeri, Kattoor, Velur, Thiruvellavoyal, Kadamanjeri, Siruvelur	Thiruvallur Dist, Ponneri Taluk, Minjur PU
286	Kumarasirulapakkam, Anuppampattu , Devadanam, Nallur (CT), Vellambakkam, Thottakadu, Kaniambakkam, Kalpakkam, Marattoor, Thinaipakkam, Vannipakkam	Thiruvallur Dist, Ponneri Taluk, Minjur PU
287	Peravallur, Thatchoor , Thadaperumbakkam , Amoor	Thiruvallur Dist, Ponneri Taluk, Sholavaram PU, Minjur PU
288	Bandikavanoor, Natham, Ernavakkam, Panjetty, Ayimicheri, Jaganathapuram	Thiruvallur Dist, Ponneri Taluk, Sholavaram PU
289	Maduravasal, Kannigaipair, Koorambakkam, Manjankaranai, Kottakuppam	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
290	Thirukkandalam, Mambattu, Alinjivakkam, Alapakkam, Perumudivakkam, Neiveli, Annadanakkakavakkam, Madavilagam	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
291	Seeyanjeri, Panayancheri, Thirunilai, Akkarapakkam, Amindanallur	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
292	Chinnambedu, Pondavakkam, Sevittupanapakkam, Adambakkam, Keelameni, Soundapuram	Thiruvallur Dist, Ponneri Taluk, Sholavaram PU
293	Puduvoyal , Vadakkunallur, Durainallur	Thiruvallur Dist, Gummidipoondi Taluk, Ponneri Taluk, Sholavaram PU, Gummidipoondi PU
294	Vairavankuppam	Thiruvallur Dist, Ponneri Taluk, Sholavaram PU
295	Ponneri (TP)	Thiruvallur Dist, Ponneri Taluk, Ponneri Municipality
296	Chinnakavanam	Thiruvallur Dist, Ponneri Taluk, Ponneri TP
297	Aladu	Thiruvallur Dist, Ponneri Taluk, Minjur PU
298	Somanjeri, Lingapayampettai, Perumbedu	Thiruvallur Dist, Ponneri Taluk, Minjur PU
299	Ernakuracheri, Sirulapakkam, Thirupalaivanam, Avurivakkam, Pakkam, Pralayambakkam, Vanjivakkam, Sirupazhaverkadu, Kadapakkam, Thathamanji	Thiruvallur Dist, Ponneri Taluk, Minjur PU
300	Karimanal, Annamalaicheri, Kanavanthurai, Pulicut	Thiruvallur Dist, Ponneri Taluk, Minjur PU
301	Kumaranjeri, Periaveppathur, Panapakkam, Ilupakkam, Kolur , Poovami	Thiruvallur Dist, Ponneri Taluk, Minjur PU
302	Poongulam, Injur, Umipedu, Mangadu, Senganyam, Kanganimedu, Seliambedu, Keerapakkam, Uppunelvoyal, Devambattu, Agaram, Periakarumbur, Kallur	Thiruvallur Dist, Ponneri Taluk, Minjur PU
303	Elavur, Sunnambukkulam, Obasamudram, Medhipalayam	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
304	Sennavaram, Appavaram, Melakalani, Narasingapuram, Natham, Mangavaram, Vazhuthalambedu, Kuriviagaram, Rettambedu	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
305	Ayanallur , Andavoyal, Sombattu, Arasur, Appavaram	Thiruvallur Dist, Gummidipoondi Taluk, Ponneri Taluk, Minjur PU, Gummidipoondi PU
306	Avoor, Vidathandalam, Vembedu, Medur, Asanabudur	Thiruvallur Dist, Ponneri Taluk, Minjur PU
307	Kattavur, Kanagavallipuram, Guduvanjeri	Thiruvallur Dist, Ponneri Taluk, Minjur PU
308	Elaimbedu	Thiruvallur Dist, Ponneri Taluk, Minjur PU
309	Kilmanambedu, Kilikodi, Thiruppair	Thiruvallur Dist, Gummidipoondi Taluk, Ponneri Taluk, Minjur PU, Gummidipoondi PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
310	Melmudalambedu	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
311	Annappa Naickankuppam	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
312	Thandalacheri	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
313	Getnamallee	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
314	Mangalam, Pudupalayam, Karani, Manali, Erukkuvoy, Palavakkam, Kanlur	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
315	Malliankuppam, Madhavaram, Arani (TP)	Thiruvallur Dist, Ponneri Taluk, Sholavaram PU, Arani TP
316	Rallapadi	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
317	Paleswaram	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
318	Authupakkam	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
319	Ariapakkam, Ellapuram	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
320	Chittraiyampakkam	Thiruvallur Dist, Uthukottai Taluk, Uthukkottai TP
321	Moongilpattu	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
322	Velapakkam, Periyapalayam	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
323	Panapakkam	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
324	Tholavedu, Paruthimerikuppam, Kakkavakkam, Thumbakkam	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
325	Palavakkam, Siruniam, Sengarai, Soolaimani, Lachivakkam, Panapakkam, Sennankaranai	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
326	Thamaaraipakkam , Tharatchi, Senjiagaram, Perandur, Karadipudur	Thiruvallur Dist, Uthukottai Taluk, Gummidipoondi Taluk, Gummidipoondi PU, Ellapuram PU
327	Uthukkottai (TP)	Thiruvallur Dist, Uthukottai Taluk, Uthukkottai TP
328	Dharkasthu Kandigam , Siruvada, Budur, Kannankottai, Panchalai, Nemalur, Chedilpakkam, Pondavakkam, Varnasikuppam	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
329	Pallavada, Kaniambakkam, Egumadurai, Naidukuppam, Arambakkam , Poovalai	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
330	Eguvarpalayam, Edur	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
331	Peria obulapuram	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
332	Thurapallam	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
333	Chinnaobulapuram	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
334	Theruali, Chinnasozhiambakkam, Athupakkam, Peria Soliambakkam	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
335	Gummidipoondi (TP)	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi TP
336	Verkadu, Nangapallam , Kuruvattucheri, Enadhimelpakkam, Paranambedu	Thiruvallur Dist, Gummidipoondi Taluk, Ponneri Taluk, Minjur PU, Gummidipoondi PU
337	Chinnapuliyur, Amirthamangalam	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
338	Periapuliyur, Poovalambedu, Vaniamallee, Chithoornatham	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
339	Kollanur, Madhavaram , Palavakkam R.F.	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
340	Kaiyadai, Thoddareddykuppam, Kilakarmanur, Thandalam, Vannankuppam, Mukkarambakkam, Nelvoy, Venkuzhi, Sepedu	Thiruvallur Dist, Uthukottai Taluk, Gummidipoondi Taluk, Gummidipoondi PU, Ellapuram PU
341	Boochiathipattu, Pudukuppam, Ayalacheri, Singilikuppam, Arikkambattu, Guruvoyal, Koduveli , Karanai	Thiruvallur Dist, Uthukottai Taluk, Thiruvallur Taluk, Kadambathur PU, Ellapuram PU
342	Athangikavanur, Mamballam, Punnapakkam, Pagalamedu	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
343	Kalpattu, Enambakkam, Melmaligaipattu, Kadarvedu, Vengal, Sembedu	Thiruvallur Dist, Uthukottai Taluk, Thiruvallur Taluk, Ellapuram PU
344	Meyyur, Gurupuram, Vembedu, Velagapauram , Melandur, Eraiyur	Thiruvallur Dist, Uthukottai Taluk, Thiruvallur Taluk,, Poondi PU, Ellapuram PU
345	Mylapore, Devandavakkam, Sengunram, Gerugambakkam, Adhilivakkam, Alapakkam, Kalavai	Thiruvallur Dist, Uthukottai Taluk, Poondi PU
346	Ammambakkam, Katchur , Edambedu, Mambakkam, Pondavakkam, Ananderi, Perittivakkam, Vadathillai	Thiruvallur Dist, Uthukottai Taluk, Poondi PU
347	Pennalurpet, Goonipalayam, Puducheri, Melakaramanur, Avicheri	Thiruvallur Dist, Uthukottai Taluk, Poondi PU
348	Abrahampuram, Hudsonpuram, Placepalayam, Gengulukandigai, Allikuzhi, Hudson Nagaram	Thiruvallur Dist, Thiruvallur Taluk, Poondi PU
349	Thimmaboopalapuram, Ariyathur, Ariapakkam, Vellathukottai, Sendrayanpalayam, Thomur, Greenvelnatham	Thiruvallur Dist, Uthukottai Taluk, Thiruvallur Taluk, Poondi PU, Ellapuram PU
350	Nelvoy, Nambakkam, Attrambakkam, Govindarajakuppam, Kunjaram	Thiruvallur Dist, Uthukottai Taluk, Poondi PU
351	Nayapakkam, Poondi, Neiveli, Krishnapuram, Rangapuram, Moovur, Kannampettai, Pullarambakkam, Thirupair, Arumbakkam, Karattanur, Nayapakkam R.F.	Thiruvallur Dist, Uthukottai Taluk, Thiruvallur Taluk, Tiruvallur PU, Poondi PU
352	Oddappai, Korakkanthandalam	Thiruvallur Dist, Uthukottai Taluk, Poondi PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
353	Monnavedu, Chitrambakkam, Othikkadu, Seeyancheri, Ramathandalam, Punnapakkam, Kaliyanakuppam, Thandalam, Ikkadu	Thiruvallur Dist, Thiruvallur Taluk, Poondi PU, Tiruvallur PU
354	Gerugampoondi, Vilapakkam, Thirukkananjeri, Karikkalvakkam, Vishnuvakkam, Arumbakkam, Perathur , Chittathur, Keelanur, Melanur	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU, Poondi PU
355	Velliyur, Melakondaiyur , Vathattur	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU
356	Sethupakkam, Agaram, Magaral, Ammanambakkam, Thamaaraipakkam	Thiruvallur Dist, Thiruvallur Taluk, Ellapuram PU, Kadambathur PU
357	Nallankavanur	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU
358	Sivanvoyal, Puliyur, Punnapattu, Sirukalathur (CT), Ayalur, Thottikalai	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU
359	Sevvapettai, Sirukadal, Kilambakkam, Thozhur (CT)	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU, Ellapuram PU
360	Veppambaattu, Ayathur, Perumalpattu	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU
361	Veppampattu	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU
362	Tirur	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU
363	Koppur , Aranvoyal, Meyyur, Gudapakkam	Thiruvallur Dist, Thiruvallur Taluk, Poonamallee Taluk, Poonamallee PU , Kadambathur PU, Tiruvallur PU
364	Nayapakkam, Papparambakkam , Kondavakkam, Padur	Thiruvallur Dist, Kancheepuram Dist, Sriperumbudur Taluk, Thiruvallur Taluk, Kadambathur PU, Poonamallee PU, Sriperumbathur PU
365	Valasaivettikadu, Illuppur	Thiruvallur Dist, Thiruvallur Taluk, Kadambathur PU
366	Alinjivakkam, Polivakkam, Nungambakkam	Thiruvallur Dist, Thiruvallur Taluk, Kadambathur PU, , Ellapuram PU
367	Vengathur (CT), Melnallathur	Thiruvallur Dist, Thiruvallur Taluk, Kadambathur PU
368	Vedaiyur, Athupakkam, Venmanambudur, Karanai, Praiyankuppam, Egattur	Thiruvallur Dist, Thiruvallur Taluk, Kadambathur PU, Ellapuram PU
369	Periyakuppam	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur Municipality
370	Tiruvallur , Selai, Perambakkam	Thiruvallur Dist, Thiruvallur Taluk, Poondi PU, Tiruvallur PU, Kadambathur PU
371	Pillaiyarkuppam, Thirupachur	Thiruvallur Dist, Thiruvallur Taluk, Poondi PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
372	Kalianur, Melvilagam, Nemiliagaram, Keelvilagam, Pandur, Kanagavallipuram, Pattaraiperumbudur	Thiruvallur Dist, Thiruvallur Taluk, Poondi PU
373	Rajapadmapuram, Jagirmangalam , Palayanur, Thiruvelangadu	Thiruvallur Dist, Tiruttani Taluk, Thiruvalangadu PU
374	Erayamangalam, Pinjivakkam , Sennavaram, Ramankoil, Agaram, Panambakkam , Kasavanallathur, Kadambathur (CT), Madathukuppam	Thiruvallur Dist, Thiruvallur Taluk, Kadambathur PU
375	Pakasalai, Lakshmivilasapuram , Orathur, Perikalakattur, Harichandrapuram , Marudavallipuram, Manavur , Kapulakandigai	Thiruvallur Dist, Tiruttani Taluk, Thiruvalangadu PU
376	Vyasapuram, Veeraraghavapuram, Konalam, Anaipakkam, Mulvoy, Kunnathur, Velurpettai	Thiruvallur Dist, Ranipet Dist, Arakkonam Taluk, Tiruttani Taluk, Thiruvalangadu PU, Arakkonam PU
377	Venugopalapuram, Athipattu , Kaverirajapuram, Ramapuram	Thiruvallur Dist, Tiruttani Taluk, Thiruvalangadu PU
378	Kunnavalam, Ramanjeri	Thiruvallur Dist, Thiruvallur Taluk, Poondi PU
379	Kanchipadi, Gulur, Karanisampattu	Thiruvallur Dist, Tiruttani Taluk, Thiruvalangadu PU, , Poondi PU
380	Panapakkam , Muthukondapuram, Nedambaram	Thiruvallur Dist, Tiruttani Taluk, Thiruvalangadu PU
381	Nabalur, Illuppur, Arcod, Arumbakkam, Kuppam , Mamandur, Perungalathur, Kilandur, Krishnapuram, Valarpuram, Uliambakkam, Mudur	Thiruvallur Dist, Ranipet Dist, Arakkonam Taluk, Tiruttani Taluk, Thiruvalangadu PU, Arakkonam PU
382	Arungulam, Nemili, Nallattur, Chivvada , Santhanagopalapuram, Poonimangadu, Thalavedu	Thiruvallur Dist, Tiruttani Taluk, Thiruvalangadu PU
383	Ponpadi, Gollalakuppam	Thiruvallur Dist, Tiruttani Taluk, Thiruvalangadu PU
384	Murukkambattu	Thiruvallur Dist, Tiruttani Taluk, Tiruttani PU
385	Suryanagaram	Thiruvallur Dist, Tiruttani Taluk, Tiruttani PU
386	Agoor	Thiruvallur Dist, Tiruttani Taluk, Tiruttani PU
387	Dharanivarghapuram	Thiruvallur Dist, Tiruttani Taluk, Tiruttani PU
388	Velanjeri	Thiruvallur Dist, Tiruttani Taluk, Tiruttani PU
389	Sathuranjaypuram	Thiruvallur Dist, Tiruttani Taluk, Tiruttani PU
390	Pattabiramapuram	Thiruvallur Dist, Tiruttani Taluk, Tiruttani PU
391	Tiruttani (M)	Thiruvallur Dist, Tiruttani Taluk, Tiruttani Municipality
392	Karthikayapuram	Thiruvallur Dist, Tiruttani Taluk, Tiruttani PU
393	Melpakkam	Ranipet Dist, Arakkonam Taluk, Arakkonam PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
394	Kavanur, Kilkuppam, Vadamambakkam	Ranipet Dist, Arakkonam Taluk, Arakkonam PU
395	Kilpakkam	Ranipet Dist, Arakkonam Taluk, Arakkonam PU
396	Kainoor	Ranipet Dist, Arakkonam Taluk, Arakkonam PU
397	Arakonam (M)	Ranipet Dist, Arakkonam Taluk, Arakkonam Municipality
398	Melapkkam	Ranipet Dist, Arakkonam Taluk, Arakkonam PU
399	Ammanur (CT)	Ranipet Dist, Arakkonam Taluk, Arakkonam PU
400	Perumuchi, Seyyur, Puliyamangalam , Mosur, Ambarishpuram, Sukapuram	Ranipet Dist, Arakkonam Taluk, Arakkonam PU
401	Poyyapakkam, Illuppaithandalam, Kathiavadi, Athur	Ranipet Dist, Arakkonam Taluk, Arakkonam PU, Nemili PU
402	Attupakkam, Pinnavaram, Parameswaramangalam, Govindacheri	Ranipet Dist, Arakkonam Taluk, Nemili PU
403	Thakkolam (TP)	Ranipet Dist, Arakkonam Taluk, Thakkolam TP
404	J.S.Ramapuram, Ananthapuram, Uriyur, Nagarikuppam	Thiruvallur Dist, Ranipet Dist, Arakkonam Taluk, Tiruttani Taluk, Thiruvalangadu PU, Arakkonam PU
405	Pudukesavaram, Anaikattuputhur, O.M.Mangalam, Pichivakkam, Kandivakkam, Thulasapuram	Ranipet Dist, Kancheepuram Dist, Sriperumbudur Taluk, Arakkonam Taluk, Arakkonam PU, Sriperumbathur PU
406	Kalambakkam, Chinnamandalai, Manambedu, Kumaracherry, Koovam, Narasingaparam, Irulancherry, Kondanjerry, Perambakkam (CT), Thenkaranai, Sivapuram, Kottur , Kappankottur, Elimiyankottur	Thiruvallur Dist, Kancheepuram Dist, Sriperumbudur Taluk, Tiruttani Taluk, Thiruvallur Taluk, Kadambathur PU, Thiruvalangadu PU, Sriperumbathur PU,
407	Pillaiyarkuppam, Chitrambakkam, Kavankolathur, Keelacherry, Satharai, Pudumavelangai, Senji	Thiruvallur Dist, Thiruvallur Taluk, Kadambathur PU
408	Kannur , Uthirambakkam, Kottaiyur, Karanai, Kallambedu , Ulundai , Govindamedu	Thiruvallur Dist, Thiruvallur Taluk, Kadambathur PU
409	Kandamangalam, Sengadu	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
410	Thodukadu, Ayakolathur, Kiloy	Thiruvallur Dist, Kancheepuram Dist, Sriperumbudur Taluk, Thiruvallur Taluk, Kadambathur PU, Sriperumbathur PU
411	Valarpuram, Mevalurkuppam (Part)	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
412	Sriperumbudur (TP)	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbudur TP
413	Thirupandiyur , Voyalur , Padicheri, Vadamangalam, Sirukiloy	Thiruvallur Dist, Kancheepuram Dist, Sriperumbudur Taluk, Thiruvallur Taluk, Kadambathur PU, Sriperumbathur PU
414	Molachur (CT), Sogandy, Nandimedu	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
415	Pudupattu, Kandur, Podavur, Keeranallur	Thiruvallur Dist, Kancheepuram Dist, Sriperumbudur Taluk, Thiruvallur Taluk, Kadambathur PU, Sriperumbathur PU
416	Ettikuthimedu, Kannanthangal, Gunagarambakkam, Maduramangalam, Ramanujapuram, Sivankoodal	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
417	Ekanapuram, Akkamapuram, Mahadevimangalam, Edayarpakkam, Singilipadi, Kodamanallur, Melmaduramangalam, Koothavakkam, Madapuram, Thandalam, Nelvoy, Thodur	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU, Kancheepuram Taluk, Walajabad PU
418	Purisai, Valathur, Palavakkam (CT), Thandalam	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
419	Pallur, Ganapathipuram, Chithathoor, Murungai	Ranipet Dist, Arakkonam Taluk, Nemili PU, Arakkonam PU
420	Padunelli, Govindavadi, Uveri	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
421	Kanakambakkam, Pullalur, Pondavakkam, Moolapattu, Kottavakkam, Maniyachi, Putheri & Erivakkam	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU, Kancheepuram PU
422	Veliyur, Pudupakkam, Periyakarambur, Vishakandikuppam, Injambakkam, Sembarambakkam, Kuram, Thulukkanthandalam, Ariyaperumbakkam	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU, Kancheepuram PU
423	Olakkalpattu, Vathiyur, Thaipakkam, Damal, Muttavakkam, Melbangaram, Sirunaiperugal, Thiruppukuzhi	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
424	Kilar	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
425	Perumbakkam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
426	Musaravakkam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
427	Muthavedu	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
428	Pitchavadi	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
429	Vishar	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
430	Melottivakkam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
431	Mettukuppam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
432	Melkadirpoor	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
433	Mangalpadi	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
434	Sadathangal	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
435	Narapakkam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
436	Alavandarmedu	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU

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437	Vippedu	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
438	Kolivakkam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
439	Iyangarkulam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
440	Punjarasanthangal	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
441	Valathottam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
442	Velikkapattadai	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
443	Sevilimedu (TP)	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
444	Orikkai (CT)	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
445	Chinnaiyankulam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
446	Veerambadi	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
447	Anjur	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
448	Thenambakkam (CT)	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
449	Thattithorpu	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
450	Nazarathpettai (CT)	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
451	Nathapettai kancheepuram (Wards 27 & 41-42)	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
452	Thiruveethipallam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
453	Periathottam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
454	Kancheepuram (Wards 1-22, 24-25, 28-40, 43-45)	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
455	Kottakaval	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
456	Arapannanjeri Kancheepuram (Wards 23 & 26)	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
457	Achukattu	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
458	Netteri	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram Corporation
459	Karuppadithattadai	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
460	Thimmasamudram	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
461	Pappankuzhi	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
462	Chitterimedu	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
463	Kilambi	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
464	Melambi	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
465	Sirukaveripakkam (CT)	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
466	Putheri	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
467	Kilkadirpoor	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
468	Kamugampallam	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
469	Erivakkam	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
470	Vaiyavur	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
471	Nallur	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
472	Enadur	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
473	Tirumalpadithangal	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
474	Konerikuppam (CT)	Kancheepuram Dist, Kancheepuram Taluk, Kancheepuram PU
475	Karai	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
476	Podavur, Poondithangal, Siruvallur, Siruvakkam, Seeyati	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
477	Semanthangal	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
478	Kuthirambakkam, Illuppapattu, Sittiyambakkam, Vedal	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
479	Ariyambakkam, Neervalur, Siruvedal, Singadivakkam, Sekkankulam, Attuputhur	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
480	Sendamangalam, Jambodai, Selvazhimangalam, Vittavidagai, Pappankuli, Alapakkam, Athivakkam, Thirumalpattu, Mummalpattu	Kancheepuram Dist, Sriperumbudur Taluk, Kancheepuram Taluk, Walajabad PU, Sriperumbathur PU
481	Kunnam	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
482	Echur	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
483	Mettupalayam	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
484	Thiruvenkaranai	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
485	Kovalavedu	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
486	Navettikulam	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
487	Ayimicheri	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
488	Suramenikuppam	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
489	Madavilagam, Thenneri, Agaram, Manjamedu	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
490	Naickenkuppam, Sinnivakkam, Sirupagal, Oddanthangal	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
491	Puthagaram, Vadaveripattu, Marudham	Kancheepuram Dist, Walajabad Taluk, Kancheepuram Taluk, Walajabad PU
492	Kilpattu, Karur, Murukkanthangal, Olaiyur	Kancheepuram Dist, Walajabad Taluk, Kancheepuram Taluk, Walajabad PU
493	Uthukadu	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
494	Villivalam, Naickenpettai, Thangi, Poosivakkam, Ekanampettai	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
495	Koyambakkam, Erivoy, Valluvapakkam, Ayyampettai (CT), Thimmaiyanpettai	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
496	Padappam, Muthialpettai	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
497	Thimmarajampettai, Bavasahibpettai, Kilottivakkam	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
498	Seeyamangalam, Vengudi	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
499	Walajabad (TP)	Kancheepuram Dist, Walajabad Taluk, Walajabad TP
500	Valluvapakkam	Kancheepuram Dist, Walajabad Taluk, Walajabad TP
501	Nathanallur	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
502	Athipattu, Kattavakkam, Uthukadu Part No.2	Kancheepuram Dist, Walajabad Taluk, Walajabad PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
503	Ambakkam, Alavur, Vilagam, Thalayampattu, Thollazhi, Kosapattu, Devariyambakkam, Thonankulam	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
504	Kunnavakkam, Venbakkam, Varanavasi, Chinnamadurapakkam, Periamadurapakkam	Kancheepuram Dist, Walajabad Taluk, Walajabad PU
505	Poondi, Panaiyyur, Elaimbedu	Kancheepuram Dist, Kundrathur Taluk, Kundrathur PU
506	Puliyambakkam, Ullavur, Palayaseevaram, Melmanapakkam	Kancheepuram Dist, Chengalpattu Dist, Chengalpattu Taluk, Walajabad Taluk, Walajabad PU, Kattangulathur PU
507	Palur	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
508	Padervadi, Vadakkupattu, Senthamangalam	Kancheepuram Dist, Chengalpattu Dist, Chengalpattu Taluk, Kundrathur Taluk, Kundrathur PU, Kattangulathur PU
509	Guruvanmedu, Vembakkam, Kolathur	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
510	Dasarikunnathur, Appur, Thalimangalam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
511	Perumalthangal	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
512	Valayakaranai, Vattambakkam, Umayalparamancheri, Nattarasampattu, Siruvanjur	Kancheepuram Dist, Kundrathur Taluk, Kundrathur PU
513	Kodangacheri, Kavalkazhani, Kanchivakkam, Serapanacheri, Nariambakkam, Navalur, Vellerithangal, Venjuvancheri, Salamangalam, Orathur, Ammanambakkam, Arambakkam, Sathananjeri, Thiruvembutheri	Kancheepuram Dist, Kundrathur Taluk, Kundrathur PU
514	Valathancheri	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
515	Kaduvancheri, Oddankaranai, Vellarai, Mahanyam, Alagoor, Nallamperumbedu, Gunduperumbedu, Sirumathur	Kancheepuram Dist, Sriperumbudur Taluk, Kundrathur Taluk, Kundrathur PU, Sriperumbathur PU
516	Kolathur, Malaipattu, Karunagaracheri, Sethupattu	Kancheepuram Dist, Sriperumbudur Taluk, Kundrathur Taluk, Kundrathur PU, Sriperumbathur PU
517	Irumbedu, Puduppair, Nallur, Amarambedu, Somangalam, Puducheri	Kancheepuram Dist, Sriperumbudur Taluk, Kundrathur Taluk, Kundrathur PU, Sriperumbathur PU
518	Adhanur, Korukkanthangal, Karasangal, Thundalkalani, Padappai (CT), Manimangalam	Kancheepuram Dist, Kundrathur Taluk, Kundrathur PU
519	Madambakkam (TP)	Kancheepuram Dist, Kundrathur Taluk, Kundrathur PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
520	Vadamelpakkam, Kattupakkam, Kavanur, Kuthanur, Erivakkam, Keelakalani, Neelamangalam	Kancheepuram Dist, Kundrathur Taluk, Kundrathur PU
521	Konathi	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
522	Kavanur (RF)	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
523	Thailavaram Marimalai nagar -ward-17	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
524	Guduvancheri marimalai nagar ward 21	Chengalpattu Dist, Vandalur Taluk, Nandivaram-Guduvancheri Municipility
525	Nandivaram marimalai nagar ward-1	Chengalpattu Dist, Vandalur Taluk, Nandivaram-Guduvancheri Municipility
526	Sengundram ward-2,8,7,	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
527	Vallancheri ward-20,19	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
528	Potheri-3	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
529	Kattankolathur marimalai nagar ward 18	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
530	Ninnakkarai-4,5,6	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
531	Gudalur	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
532	Kadambur-ward-9	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
533	Erukkuvoy	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
534	Sithamanur ward-10,11	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
535	Kilakkaranai ward-12	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
536	Panagottur marimalai nagar ward-16	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
537	Settamangalam Marimalai nagar ward-15	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
538	Peramanur	Chengalpattu Dist, Chengalpattu Taluk, Maraimalai Nagar Municipality
539	Marimalai nagar wards 13-14	Maraimalai Nagar Municipality
540	Venkatapuram	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
541	Sasthirambakkam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
542	Villiambakkam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
543	Athur	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
544	Kongadu	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
545	Chettipunyam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
546	Edayankodumanthangal	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
547	Kandur	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
548	Pulipakkam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
549	Rajakulipettai	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
550	Paranur	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
551	Thirutheri R.F	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
552	Paperi	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
553	Singaperumalkoil (CT)	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
554	Kachadimangalam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
555	Pattaravakkam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
556	Ammanambakkam	Chengalpattu Dist, Chengalpattu Taluk, Tirukalukundram PU
557	Thenur	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
558	Kovilanthangal	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
559	Vallam (CT)	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
560	Porunthavakkam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
561	Nemmeli	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
562	Alapakkam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
563	Keelavedu	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
564	Meleripakkam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
565	Thunjam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
566	Pulleri	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
567	Alagusamudram	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
568	Sogandi	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
569	Moosivakkam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
570	Janakipuram	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
571	Thirumani	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
572	Ozhalur	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
573	Iungundrapalli	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
574	Vedanarayanpuram	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
575	Palavedu	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
576	Hanumanthaputheri, Chengalpattu (Wards 30, 32)	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
577	Venbakkam	Chengalpattu Dist, Chengalpattu Taluk, Chengalpattu Municipality

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
578	Melameyyur, Chengalpattu (Wards 15-18, 21-24, 26-29)	Chengalpattu Dist, Chengalpattu Taluk, Chengalpattu Municipality
579	Gundur, Chengalpattu, (wards 25, 31, 33)	Chengalpattu Dist, Chengalpattu Taluk, Chengalpattu Municipality
580	Natham - Garden City, Chengalpattu (Wards 1-2,4-12, 20)	Chengalpattu Dist, Chengalpattu Taluk, Chengalpattu Municipality
581	Chengalpattu (Wards 3, 13-14, 19)	Chengalpattu Dist, Chengalpattu Taluk, Chengalpattu Municipality
582	Vinjiambakkam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
583	Anjur	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
584	Karumbur	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
585	Maruderi, Kondamangalam, Karunilam	Chengalpattu Dist, Thiruporur Taluk, Chengalpattu Taluk, Kattangulathur PU, Thiruporur PU
586	Hanumanthapuram, Dasarikuppam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
587	Konerikuppam, Reddikuppam, Perunthandalam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
588	Senneri	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
589	Thiruvadisoolam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
590	Periyaputheri	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
591	Amirthampallam, Sengadu, Kattakhazhani, Chinna Irumbedu, Periyavippedu, Otteri, PeriyaIrumbedu, Rayamangalam, Poondi, Valarkundram, Mullipakkam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
592	Orathur	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
593	Thandarai	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
594	Keerappakkam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
595	Salur, Ponpathirkoodam, Mambakkam, Edaiyur, Thazambedu, Veerakuppam, Kankeyamkuppam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
596	Adavilagam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
597	P.V.Kalathur	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
598	Manapakkam, Udayambakkam, Pudupakkam, Othivakkam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
599	Elumichampattu, Anoor, Punnapattu, Korappattu, Venbakkam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
600	Vilagam, Vallipuram, Thimmur, Vazhuvodur, Vellapandal	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
601	Mudaiyur, Narapakkam, Thathalur	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
602	Navalur	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram TP
603	Tirukalukundram (TP)	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram TP
604	Rudrakodi	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram TP
605	Karmarapakkam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalikundram TP
606	Ammanambakkam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalikundram TP
607	Egai	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
608	Kothimangalam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
609	Irumbuli	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
610	Pulikundram	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
611	Nelvoy	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
612	Oragadam, Kalanipakkam, Thirunilai, Melkanagampattu, Manamathy, Melapattu	Chengalpattu Dist, Thiruporur Taluk, Thirukalukundram Taluk, Thirukalukundram PU, Thiruporur PU
613	Vembedu, Acharavakkam, Sembakkam, Kattur	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
614	Edarkundram, Mailai, Viralpakkam, Royalpattu, Pooluppai, Karumbakkam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
615	Kondangi, Sirukundram RF	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
616	Kilur, Kottamedu, Melaiyur , Vengur u	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
617	Nellikuppam, Agaram	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
618	Kalvoy, Pandur, Hasthinapuram, Ottiambakkam	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
619	Kayarambedu, Kannivakkam, Perumathunallur	Chengalpattu Dist, Chengalpattu Taluk, Vandalur Taluk, Kattangulathur PU
620	Karanaipuducheri, Ayyancheri, Urapakkam (CT)	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
621	Rattinamangalam, Unamancheri, Nallambakkam	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
622	Kumizhi, Keerappakkam, Arungal	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
623	Murugamangalam	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
624	Kilakottur, Melakottiyur	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
625	Vengadamangalam	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
626	Polacheri, Mambakkam, Ponmar	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
627	Kayar, Velichi, Kolathur	Chengalpattu Dist, Thiruporur Taluk, Vandalur Taluk, Kattangulathur PU, Thiruporur PU
628	Pudupakkam, Sonallur	Chengalpattu Dist, Vandalur Taluk, Thiruporur PU, Kattangulathur PU
629	Thazhambur	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
630	Karanai	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
631	Kanathur	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
632	Muthukadu (CT)	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
633	Kovalam (CT)	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
634	Padur	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
635	Kelambakkam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
636	Thaiyur	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
637	Thiruvidanthai	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
638	Sengadu	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
639	Kalavakkam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur Spl.Gr. TP
640	Kannagapattu	Chengalpattu Dist, Thiruporur Taluk, Thiruporur Spl.Gr. TP
641	Illalur	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
642	Edayankuppam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
643	Madayathur, Chettipatturayamankuppam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
644	Alathur	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
645	Vengaleri	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
646	Thandalam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
647	Thiruporur (TP)	Chengalpattu Dist, Thiruporur Taluk, Thiruporur Spl.Gr. TP
648	Nemmeli	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
649	Krishanankaranai	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
650	Pattipulam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
651	Athigamanallur, Karunguzhipallam, Sirudavoor, Ammanur , Poranthavakkam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
652	Salavankuppam	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
653	Paiyanur, Karanai, Kunnappattu, Panchanthiruthy, Dhakshnavarthy, Valavanthangal, Santhanampattu	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
654	Mamallapuram (TP)	Chengalpattu Dist, Thirukalukundram Taluk, Mamallapuram TP
655	Poonjeri	Chengalpattu Dist, Thirukalukundram Taluk, Mamallapuram TP
656	Perumaleri	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalikundram PU
657	Kokilamedu, Kadambady	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
658	Edaiyur, Meyyur, Kalpakkam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
659	Pudupattinam (CT), Sadurangapattinam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalikundram PU, Thirukalukundram PU
660	Voyalur	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
661	Ayapakkam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
662	Nallathur - A, Nerumbur, Lattur	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalikundram PU, Thirukalukundram PU
663	Vittlapuram	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalikundram PU
664	Narasankuppam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalikundram PU
665	Kolathur R.F.	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
666	Manamai	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
667	Amaipakkam, Nallur, Aminjikarai, Pattikadu, Nathamkariamcheri, Acharavakkam, Mullakolathur	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU
668	Amayambattu, Arungundram, Melakuppam, Kuhipanthandalam, Puliyur, Echur	Chengalpattu Dist, Thiruporur Taluk, Thirukalukundram Taluk, Thirukalukundram PU, Thiruporur PU
669	Mannavedudevadaram	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
670	Agaram	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
671	Kilapakkam, Perumbedu, Periayakattupakkam	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalukundram PU, Thirukalikundram PU
672	Attavakkam, Edayathur, Pandur	Chengalpattu Dist, Thirukalukundram Taluk, Thirukalikundram PU, Thirukalukundram PU
673	Paleswarankandigai	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
674	Karumbukuppam, Pudugummidipundi, Sinthalakuppam	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
675	Peddikuppam (CT)	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
676	Pappankuppam	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
677	Sirupulalpettai	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
678	Soorapundi, Manavur , Sanaputhur	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
679	Madaharpakkam (Part)	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
680	Thervoy	Thiruvallur Dist, Gummidipoondi Taluk, Gummidipoondi PU
681	Vadamadurai	Thiruvallur Dist, Uthukottai Taluk, Ellapuram PU
682	Thaneerkulam	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU
683	Kakkalur (CT)	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU
684	Putlur	Thiruvallur Dist, Thiruvallur Taluk, Tiruvallur PU
685	Mappedu	Thiruvallur Dist, Thiruvallur Taluk, Kadambathur PU
686	Mannur	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
687	Nemili	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
688	Irungattukottai	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
689	Thandalam	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
690	Katrambakkam	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
691	Pennalur	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
692	Vengadu	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
693	Navalur	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
694	Pillaipakkam	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
695	Pondur, Araneri	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
696	Irungulam	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
697	Mambakkam	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
698	Thirumangalam	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
699	Santhavelur	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
700	Sirumangadu	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
701	Boodhanur	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
702	Vadekkal , Sirukalathur	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
703	Vallam , Perinjambakkam, Vaipoor	Kancheepuram Dist, Sriperumbudur Taluk, Kundrathur Taluk, Kundrathur PU, Sriperumbathur PU
704	Panrutti	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU

TAZ No	Villages/Localities for TAZ	District, Taluk, Local Body
705	Mathur	Kancheepuram Dist, Sriperumbudur Taluk, Sriperumbathur PU
706	Panapakkam	Kancheepuram Dist, Kundrathur Taluk, Kundrathur PU
707	Karanaithangal	Kancheepuram Dist, Kundrathur Taluk, Kundrathur PU
708	Sennakuppam, Oragadam	Kancheepuram Dist, Kundrathur Taluk, Kundrathur PU
709	Thenmelpakkam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
710	Veerapuram	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
711	Hanumanthai	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
712	Kunnavakkam	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
713	Echankaranai	Chengalpattu Dist, Chengalpattu Taluk, Kattangulathur PU
714	Navalur	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
715	Siruseri	Chengalpattu Dist, Vandalur Taluk, Kattangulathur PU
716	Egattur	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
717	Kalakattur	Chengalpattu Dist, Thiruporur Taluk, Thiruporur PU
718	Puzhuthivakkam	Thiruvallur Dist, Ponneri Taluk, Minjur PU
719	Kattupalli	Thiruvallur Dist, Ponneri Taluk, Minjur PU
720	Parandur	Kancheepuram Dist, Kancheepuram Taluk, Walajabad PU
721	Minjur Bus Terminal	Terminal
722	Tiruvallur Bus Terminal	Terminal
723	Gundur - Chengalpattu Bus Stand	Chengalpattu Municipality
724	Thiruporur bus Terminal	Terminal
725	Tiruvallur Railway Terminal	Terminal
726	Konnerikuppam - Kancheepuram Railway Station	Kancheepuram PU
727	Chengalpattu Railway Station	Chengalpattu Municipality

ANNEXURE 2. KPI FRAMEWORK

The six objectives for the Chennai CMP-2048 have been referred to from the GRIDS Framework document, prepared by the World Bank and MOLO. Under each of the objectives, indicators for each of the categories of input, output and outcome have been identified and listed under the respective themes. These indicators would lead to achieve the targeted goals for the CMP. The complete KPI Framework with all the indicators, and baseline values have been presented in the Table below.

The finalised KPIs (50) have been presented in the framework below along with their baseline values where available.

1.1.1 OBJECTIVE-1: GREEN

The indicators as identified to achieve the "Green" objective have been presented in the table below along with the available baseline values.

Table 2 Indicators and Baseline Data for Objective-1: Green

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
[GREEN] INPUT	Air Pollution	PT supply added in CMA: -	Secondary data collected		
		a. No. of Buses added		4427 3481 (MTC) + 946 (Mofussil)	MTC, TNSTC Villupuram
		b. No. of clean energy (electric, CNG etc) buses in bus fleet		MTC	MTC
		c. No. of rolling stock added in Suburban-MRTS		75 Rakes i.e. 31 - 9 Car 44 - 12 car	Southern Railway
		d. Metro rolling stock added in year, Total Rolling Stock (cars and rakes)		42 Rakes (6 car)	CMRL
		Number of public charge points (full CMA	Secondary data collected	303 in CMA	Bureau of Energy Efficiency

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
	Green Initiatives	% of roads/streets covered by tree canopies / green, by road type	Data shall be collected		

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
[GREEN] OUTPUT/ [GREEN] OUTCOME	Air Pollution	% mode share for PT in 2023	HH Data Analysis	32.8% (PT Motorized Share, CMA)	Household survey, CMP 2023
		a. % increase in bus ridership		25%	
		b. % increase in Suburban ridership		5.70%	
		c. % increase in Metro ridership		1.60%	
		d. % of E-Bus amongst total registered buses in CMA	Secondary data collected	1.2%	MTC, till Oct 2024
		% of vehicles (cars, 2W, Buses, goods vehicles, IPT) which are EV, BS-IV / cleaner technology compliant [out of total registered vehicles]	Secondary data collected	3.90%	Parivahan Website, TNSTA, till Oct 2024
	Noise	Noise level measured in decibels (dB) at various points and times	Secondary data collected	Perambur - 69 to 81 dB Guindy - 74 to 76 dB Triplicane - 51 to 86 dB Pallikaranai - 73 to 87 dB Washermanpet - 69 to 77 dB Anna Nagar - 64 to 68 dB Eye Hospital - 62 to 70 dB T. Nagar - 75 to 76 dB Sowcarpet - 65 to 77 dB	National Ambient Noise Monitoring Network, Status of Ambient Noise Level in India 2017.

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
				Velachery - 66 to 87 dB	
	Air Pollution	Emission by vehicles (all categories) in city area and expanded area.	Estimated by Consultant (Total mode wise Veh.Km. travelled x respective emissions)	8125 CO2 Emissions Per Day ('000 Kg)	GHG Calculation, CMP 2023
	Green Initiatives	AQI at locations with high traffic	Secondary data collected	Gummidipoondi - 76.20 Koyambedu - 93.20 Kodungaiyur - 63.41 Kancheepuram - 95.89 Kathivakkam - 87.94 Manali - 119.88 Royapuram - 84.96 Vandalur - 86.46	TNPCB, 2022 Values are average annual AQIs.

1.1.2 OBJECTIVE-2: RESILIENT

The indicators as identified to achieve the "Resilient" objective have been presented in the table below along with the available baseline values. 'Critical' infrastructures as mentioned in Resilient objective or in relation to resilience in the report e.g. road networks, PT infrastructures etc are those which fall under the category of very high (>5 feet deep water inundation) and high (3 – 5 feet deep) flood exposure levels, as per Chennai City Partnership: Resilient Urban Mobility and Services in Chennai by TARU.

Table 3 Indicators and Baseline Data for Objective-2: Resilient

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
[RESILIENT] INPUT	Mobility and Transportation Network Resilience	Length of roads (km) with SWD network	Data shall be collected from road-owning agencies/ULBs		
[RESILIENT] OUTPUT/ OUTCOME	Mobility and Transportation Network Resilience	• No. of Metro stations operational and accessible during high rainfall event • No. of Suburban stations operational and accessible during high rainfall event • No. of Bus Terminal/Depots operational and accessible during high rainfall event • Km of Arterial Roads that are free from	Secondary data collected	• 70% of the total footpath network in Old CMA i.e. about 600 km could be considered as resilient. • About 80% of MTC depot/ terminal i.e. about 27 number are not critical out of 33 MTC depot terminals in Old CMA. • 95% sub-urban railway stations out of 36 stations and about 29% MRTS station out of 17 stations are not in critically affected area in Old CMA. • 88% of bridges out of 150 bridges and 71% flyovers, out of 38 flyovers in Old CMA are not critical.	CCP - Resilient Urban Mobility and Services in Chennai (TARU Report), 2022

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
		flooding during high rainfall event		• 98.8% of road network with freight route is not critical in Old CMA.	

1.1.3 OBJECTIVE-3: INCLUSIVE

The indicators as identified to achieve the "Inclusive" objective have been presented in the table below along with the available baseline values.

Table 4 Indicators and Baseline Data for Objective-3: Inclusive

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
INPUT	Universal Access	Km of footpath laid in CMA having minimum width of 1.8 m, incorporating universal accessibility principles.	*Data not available.* *Measurement technique for regular monitoring to be developed as short / mid-term strategy.*		
		Bus/PT connections to settlements provided by TNUHDB and TNHB (LIG) [% of such areas served]	*Data not available currently.* *Measurement technique for regular monitoring to be developed as mid / long term strategy.*		
		Number of new buses that are wheelchair friendly	Secondary data collected	58 low floor buses - non-AC buses 120 low floor – AC Buses - as of 2024	MTC
		Number of multimodal transfer stations that are wheelchair friendly		Station data – to be updated based on data from stakeholders	MTC, CMRL, TNSTC, SR

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
OUTPUT/ OUTCOME	Universal Access	% of road network with connected and dedicated footpath / pedestrian pathways	Consultant's analysis	• 287 km has footpath network out of total 1754.3 km network surveyed. • 27.1 % major roads in Old CMA and 3.4% on surveyed roads in expanded CMA have footpath.	Road Inventory Survey, CMP 2023
		% of PT stops (bus, suburban. Metro) having dedicated barrier free footpath connectivity up to 500m from the stops	Measurement technique for regular monitoring to be developed as short / mid-term strategy. Improvement Targets are proposed in the Report sections to follow.		
		Ridership of people with disability in city		1% approx.	

1.1.4 OBJECTIVE-4: EFFICIENT DEVELOPMENT

The indicators as identified to achieve the objective of "Efficient Development" have been presented in the table below along with the available baseline values.

Table 5 Indicators and Baseline Data for Objective-4: Efficient Development

Category	Theme	Indicators	Basis of Measurement	Baseline Value		Source of Baseline Value
INPUT	Public Transport Utilization	Service coverage of PT Systems (% Population and % of jobs within Influence Area)				
		a. Service coverage of buses (% Population and % of jobs within 500m)	Consultant's estimation	**Population** Old CMA: 80% Expanded CMA: 13% Overall CMA: 64%	**Employment** Old CMA: 83% Expanded CMA: 16% Overall CMA: 63%	Secondary data Analysis

Category	Theme	Indicators	Basis of Measurement	Baseline Value		Source of Baseline Value
		b. Service coverage of Metro rail system (% Population and % of jobs within 5Km)		**Population (Phase1)** Old CMA: 73% Expanded CMA: 4% Overall CMA: 57%	**Employment (Phase1)** Old CMA: 76% Expanded CMA: 3% Overall CMA: 54%	(Supply), 2023
		c. Service coverage of suburban-MRTS corridor (% Population and % of jobs within 5Km)		**Population** Old CMA: 87% Expanded CMA: 49% Overall CMA: 78%	**Employment** Old CMA: 89% Expanded CMA: 44% Overall CMA: 76%	
	Travel Speed	a. Synchronized signal system	Km of Road stretch with synchronized signals	Data shall be updated		
		c. No. of Intersection improvements - Lane Balancing, Reduced delay times		Numbers will be updated each year		
	Financial Efficiency	Change in Business Model / Contracting Method in Bus Operation		Majority of fleet (~95%) operated by MTC under conventional ownership and operation model. Recently, 120 AC low-floor e-buses (out of planned 1225) have been introduced under Gross Cost Contract (GCC) model with World Bank support.		
	MMI	Number of MMIs implemented	Number of interchange passengers out of total footfall at stations	Numbers shall be updated as and when MMIs are implemented.		CMRL and CUMTA

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
OUTPUT/ OUTCOME	Public Transport Utilization	% Population in coverage area using PT network (% PT users within Influence Area): -			
		a. % Population in coverage area using bus network (within 500m Influence area)	Consultant's estimation	Old CMA: 18.2% Expanded CMA: 15.8% Overall CMA: 17.5%	Household Data Analysis, CMP 2023
		b. % Population in coverage area using metro network (within 2Km Influence area)		Old CMA: 1.9% Expanded CMA: 0% Overall CMA: 1.8%	
		c. % Population in coverage area using suburban network (within 5Km Influence area)		Old CMA: 3.9% Expanded CMA: 2.4% Overall CMA: 3.5%	
	Financial Efficiency	Ratio of operating expenses/revenue per vehicle km (for bus, suburban, metro)	Consultant's estimation	Bus: MTC: 1.27 Metro: CMRL: 0.54	CMRL, MTC Business Plan. Suburban-MRTS – Data not available
	Reliability	Percentage of number of PT trips started on time to Total number of Trips operated	Appraisal and measurement techniques for regular monitoring to be developed as short / mid-term strategy.		

1.1.5 OBJECTIVE-5: SAFE

The indicators as identified to achieve the "Safe" objective have been presented in the table below along with the available baseline values.

Table 6 Indicators with Baseline Data for Objective-5: Safe

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
INPUT	Safe Roads	% of roads having posted speed limits and signs installed Road upgrades (road markings & signages, barrier free design etc.) on all arterial/subarterial roads as per IRC standards	Included in CMP Strategies and proposals		
		% of work zones adhering to Traffic Management Plan guidelines			
		Installation of streetlights on roads of all categories as per IRC	Measurement techniques for regular monitoring to be developed as short-term strategy.		
		Installation of surveillance / security cameras at public places, including intersections and local roads and PT stops			
	Safe Vehicles	% of buses with GPS enabled Dashcams, Large Rear-view Mirrors, Reverse Alarms, Panic button, etc	Measurement techniques for regular monitoring to be developed as short / mid-term strategy.		
		Inspection of Motor Vehicles for Brakes, Steering and Tyres			
	Safe Users	No. of trainings conducted in year Driver, Bus Staff and bystanders Training, Awareness Program and Enforcement.			
OUTPUT/ OUTCOME	Safe Roads	Reduction in road crashes leading to non-fatal severe injuries. (breakdown for pedestrian and 2 wheelers).	Targets set for the horizon years.		

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
		% reduction in registered security cases (snatching, harassment, theft etc.)	Reported crime/ harassment within 15-min radius from public transport stations (nodes) and on-board public transport may be monitored every month.		
	Safe Users	Percentage of Violations of traffic rules (challans generated)	No. of challans per day for type of traffic rule violation all over the city's major corridors may be monitored every month.		

1.1.6 OBJECTIVE-6: INNOVATIVE

The indicators as identified to achieve the "Innovative" objective have been presented in the table below along with the available baseline values.

Table 7 Indicators with Baseline Data for Objective-6: Innovative

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
INPUT	Technology and Data Governance	Introduction and popularization of Unified Mobility Card/Integrated ticketing for all PT systems, digital ticket transaction.	Included in CMP Strategies and proposals		
		Digitization of Port logistics with ICD, CFS, other logistics Terminal and Truck parking locations			
		Development of data governance mechanisms and platform.			
		Development of data sharing platform for all City Stakeholders.			
OUTPUT		Percentage of public transport trips using digital payment	From CMRL Ticket sales For other PT modes data need to be made available.	6%	CMRL Ticket sales data
		Inventory time (wait time) at Freight Hubs / Terminals.	Measurement techniques for regular monitoring to be developed as short / mid-term strategy.		

Category	Theme	Indicators	Basis of Measurement	Baseline Value	Source of Baseline Value
		Number of mobility related dataset available through CUMTA	To be elaborated by CUMTA		
OUTCOME		Percentage of revenue of PT operators collected electronically.	Mechanism for data collection and monitoring to be developed.		
		Faster delivery.	Measurement techniques for regular monitoring to be developed as short / mid-term strategy.		
		Open Data Platform used for collaboration to address mobility challenges.	Included in CMP Strategies and proposals		
		Improved cross-government data sharing (through open data platforms).			

ANNEXURE 3. POPULATION PROJECTION

Population Projection for Old CMA

The last Population Census was done in India in 2011 and thereafter the Census has not been conducted. Thus, to estimate the population for the base year (2023), population has been projected for the Old CMA by CMDA using Least Square Method based on discussion with Population Committee constituted by CMDA (The committee was Chaired by the Director, Census, GoTN, and included the following members - Academicians from IIT Madras, Anna University, Department of Statistics, GoTN, Chief Planner, Regional Planner from CMDA and CUMTA officials as part of 3rd Master Plan). The estimated population for 2022, for the Old CMA (1189 sq. km) have been presented in table 8.

Table 8: Base Year & Horizon Year Estimated Population of Old CMA

S. No	Administrative unit	2001	2011	CAGR 2001 - 2011	Area (km^2)	Gross Density of population 2011 (pph)	2022	2023	2046	2051	Gross Density of population 2022 (pph)	Gross Density of population 2046 (pph)
1	Chennai City	4,343,645	4,646,732	0.68%	175	266	4,980,000	50,10,000	5,708,000	5,859,000	285	326
2	Extended Chennai City	1,369,500	2,039,189	4.06%	251	81	2,776,000	28,43,000	4,383,000	4,718,000	111	175
	Greater Chennai Corporation	5,713,145	6,685,921	1.58%	426	157	7,756,000	78,53,000	10,091,000	10,577,000	182	237
3	Avadi	229,403	345,996	4.20%	65	53	474,000	4,86,000	754,000	812,000	73	116
4	Tambaram	484,608	726,361	4.13%	88	83	992,000	10,16,000	1,572,000	1,693,000	113	179
	Municipal Corporations	**6,427,156**	**7,758,278**	**1.9%**	**579**	**134**	**9,223,000**	**93,56,000**	**12,417,000**	**13,083,000**	**159**	**214**
5	Mangadu	19,420	38,188	7.0%	8	45	59,000	61,000	104,000	113,000	70	124
6	Kundrathur	25,007	54,986	8.2%	9	61	88,000	91,000	160,000	175,000	98	178
7	Poonamallee	67,774	119,071	5.8%	16	76	175,000	1,81,000	299,000	324,000	111	190
8	Thiruverkadu	32,221	62,824	6.9%	29	22	96,000	1,00,000	170,000	185,000	34	60

S. No	Administrative unit	2001	2011	CAGR 2001 - 2011	Area (km^2)	Gross Density of population 2011 (pph)	2022	2023	2046	2051	Gross Density of population 2022 (pph)	Gross Density of population 2046 (pph)
9	Thiruninravur	29,332	37,095	2.4%	11	34	46,000	46,000	64,000	68,000	42	58
	Municipalities	**173,754**	**312,164**	6.0%	**73**	**43**	**464,000**	**4,78,000**	**797,000**	**866,000**	**64**	**110**
10	Minjur	23,742	28,337	1.8%	8	34	33,000	34,000	44,000	47,000	40	53
11	Naravarikuppam	18,331	20,946	1.3%	4	52	24,000	24,000	30,000	31,000	60	75
12	Thirumazhisai	16,291	19,733	1.9%	6	33	24,000	24,000	32,000	34,000	40	53
	Town Panchayats	**58,364**	**69,016**	**1.7%**	**18**	**38**	**81,000**	**82,000**	**106,000**	**112,000**	**44**	**58**
13	Kattankulathur	26,627	44,550	5.3%	33	14	64,000	66,000	107,000	116,000	19	32
14	Kundrathur	85,399	155,883	6.2%	81	19	233,000	2,40,000	403,000	438,000	29	50
15	Minjur	16,330	19,624	1.9%	43	5	23,000	24,000	31,000	33,000	5	7
16	Poonamallee	44,888	64,248	3.7%	66	10	86,000	87,000	132,000	142,000	13	20
17	Puzhal	16,105	20,643	2.5%	28	7	26,000	26,000	37,000	39,000	9	13
18	Sholavaram	87,993	109,774	2.2%	121	9	134,000	1,36,000	186,000	197,000	11	15

S. No	Administrative unit	2001	2011	CAGR 2001 - 2011	Area (km^2)	Gross Density of population 2011 (pph)	2022	2023	2046	2051	Gross Density of population 2022 (pph)	Gross Density of population 2046 (pph)
19	Sriperumbudur	80	20	-12.9%	9	0	-	-	-	-	-	-
20	St. Thomas Mount	85,200	199,809	8.9%	62	32	326,000	3,37,000	601,000	658,000	53	97
21	Tiruvallur	8,719	17,342	7.1%	9	19	27,000	28,000	48,000	52,000	30	53
22	Villivakkam	51,254	104,678	7.4%	67	16	163,000	1,69,000	292,000	318,000	24	44
	Panchayat Unions	**422,595**	**736,571**	**5.7%**	**519**	**14**	**1,082,000**	**11,13,000**	**1,835,000**	**1,992,000**	**21**	**35**
	Old CMA	**7,081,869**	**8,876,029**	**2.28%**	**1,189**	**75**	**10,850,000**	**1,10,29,000**	**15,156,000**	**16,053,000**	**91**	**127**

Source: CMDA's Committee on Population Projection review meeting presentation

Population Projection for Expanded CMA

To finalize the methodology for population projection and population estimates for CMA, three major meetings were held, and the decisions made during each meeting are as follows:

- Meeting with CMDA and CUMTA on October 11, 2023: It was decided to conduct a detailed discussion with committee members to finalize the method for population projection. It was decided that CUMTA will prepare the population projection for expanded CMA.
- Meeting with CMDA and CUMTA on October 20, 2023: LASA and SYSTRA consultants presented population projections for the OLD CMA and Expanded CMA respectively to the Population Committee. SYSTRA & CUMTA presented the Arithmetic, Geometric, Exponential and Urban - urban Growth Difference (UUGD) method. It was decided to provide the population projection by Least square method for expanded CMA.
- Meeting with Director of Census Department on November 29, 2023: SYSTRA consultants presented estimated population projections using different methods and the committee selected the population estimates by the Least Square method as the most suitable for estimating population.
- In December and January, there were multiple meeting between the CMDA and CUMTA: it was decided to proceed further with Least-square method for population projections.

The Least square method was suggested for population projection for the expanded CMA due to the following reasons: -

- This method is applicable when time-series data is available. It is a simple method commonly used to make future projections based on the past trend. It is common to fit a straight line to the past observations.
- The least square method enables us to compare the trend values for all the given time period in the series. The trend equation can be used to estimate or predict the values of the variable for any period 't' in future and provide a more reliable estimates than any other methods. In the extended area, due to rural characteristics, the trends observed were linear and growth rates were also minimal.
- This method is the most popular and widely used for fitting mathematical function to a given set of observations. The same method is used in various other major/metropolitan cities while preparing Master Plan and population projections (such as for Regional Plan for Mumbai metropolitan area, Master Plan for Delhi, Revised Master Plan for Bangalore development Area etc.) which had similar high growth core city areas and lower growth rural suburbs.

The adopted growth rates based on the Least-square method for the various horizon years ULB-wise are as follows: -

Table 9 Administrative Units-wise adopted growth rates for the Horizon years (Expanded CMA)

Years	Corporation	Municipalities	Town Panchayats	PU/Village Panchayats
2001-2011	2.06%	2.98%	2.25%	1.76%
2012-2016	1.78%	2.43%	1.92%	1.55%
2017-2021	1.63%	2.16%	1.75%	1.44%
2022-2026	1.51%	1.95%	1.61%	1.34%
2027-2031	1.40%	1.78%	1.49%	1.26%
2032-2036	1.31%	1.63%	1.39%	1.18%
2037-2041	1.23%	1.51%	1.30%	1.12%
2042-2048	1.15%	1.38%	1.20%	1.05%

The population projection for the Expanded CMA (4715 sq.km) has been determined through Least Square Method, incorporating distinct growth rates assigned to each local body type and is as follows.

Table 10 Base Year & Horizon Year Estimated Population of Expanded CMA

Administrative Unit	2011	2023	2048
Corporation (Old CMA)	301,029	367,429	506,541
Municipality	323,395	421,763	628,164
Panchayat Union	2,095,347	2,496,135	3,332,777
Town Panchayat	162,313	200,939	250,826
Total	2,882,084	3,486,266	4,718,308

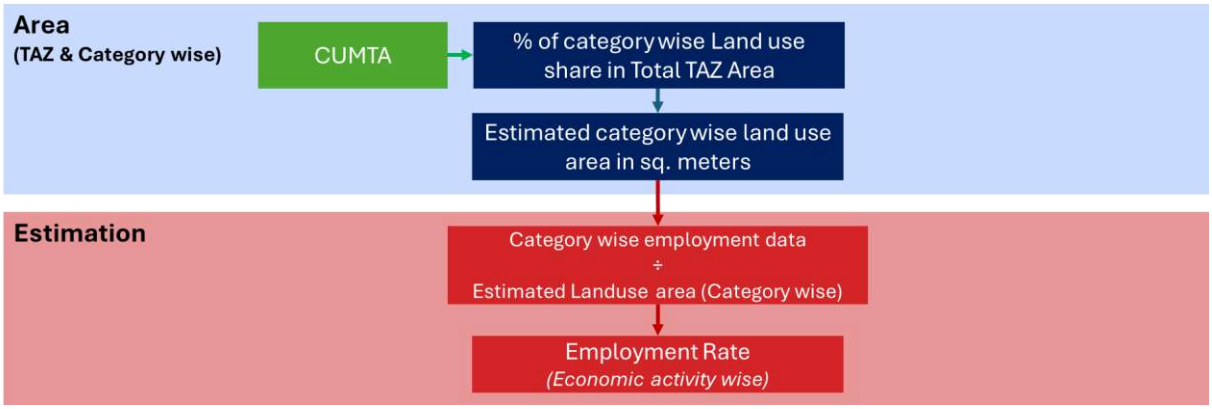
Source: Consultant's Estimate

The above population was discussed with CMDA & CUMTA and was finalised for expanded CMA.

ANNEXURE 4. EMPLOYMENT PROJECTION

For projecting employment to the horizon years, two methods have been considered: the employment rate method and the elasticity method.

Employment rate method



- The TAZ-wise distributed employment data has been used to calculate the employment rate.
- Three categories (Commercial, Institutional, Industrial) have been considered for the calculation out of five categories for more precise category-wise estimation.
- The categorized land area, TAZ-wise, provided by CUMTA, has been considered for area calculation.
- The categorized employment and land area have been used to calculate the employment rate, as shown in the table below.

Table 11 Employment Rate (2013)

Year	Commercial	Industrial	Institutional	Total Average
2013	0.05	0.02	0.09	0.03

From the above analysis, it indicates that the employment rate for the commercial and industrial categories is very low, while the employment rate for the institutional category falls within the expected range. The average employment rate for all three categories is observed to be 0.03, which is significantly lower compared to other cities and studies as the minimum employment rate usually considered is 0.1/Sq.m or 10/100 Sq.m.

Elasticity Method

The employment growth rate estimation was also carried out by using the elasticity approach. The elasticity method relates employment growth to changes in the related economic parameters.

The main steps followed are:

a) Review of the past employment data available from census 2001 and 2011 data.
b) Identifying the influence area, from the analysis of travel pattern observed during OD, which is likely to impact the traffic growth on the project road.
c) Study the past performance of the CMA and assess the perspective growth rates of district and state economies based on the industrial polices and growth.

d) Framing a future outlook of the employment growth based on the future elasticities and the perspective growth of the districts in CMA and also Tamil Nadu State economies.

The methodology thus adopted incorporates, as basic data inputs, the perspective growth envisaged in the CMA and the changes in employment/workers demand elasticities over a period of time.

A study of the socio-economic profiles of the regions comprising the CMA provides an overview of the factors likely to influence the pattern of economic development and hence the employment generation. The details include Working population, State GDP, NSDP, GDP (India) and targeted growth rates of the economy. The profiles help to generate basic inputs for the estimation of future growth in transport demand on the basis of past scenarios, perspective changes in transport demand elasticity and economic growth rates. The economic data such as GDP, NSDP, Total Workers in CMA and old CMA & Expanded CMA (Ex-CMA) separately is provided in the Annexure 05.

As stated earlier, the elasticity approach was used for determining growth rates of future employment. If past economic data indicator is available for a number of years and the corresponding data on some socio-economic indicator such as NSDP, GDP, Worker population Industrial Production etc. is also available, then the data can yield an econometric model of the following type:

$$\text{Log}_e P = A_o + A_1 \log_e \text{NSDP}$$

Where P = Employment Indicator
NSDP = Net State Domestic Product
A_o = Regression constant
A_1 = Regression coefficient

The value of A_1 is known as Elasticity coefficient. The elasticity coefficient is the factor by which the NSDP growth rate must be multiplied to arrive at the growth rate of traffic.

Based on the regression analysis of India GDP and TN GDP, TN GDP and CMA total working population, the elasticity coefficient was derived and provided in the table below: -

Table 12 Elasticity for each parameter

CAGR	India GDP GR	TN GDP	CMA Total Workers	Chennai	Extended
2005-11	7.17%	10.72%	3.20%	2.02%	3.94%
Elasticity		1.50	0.30	0.19	0.37

The observed elasticity was moderated to have a realistic value in the future based on comparing the Work force participation rate. Based on the moderated elasticity, the adopted growth rates for the employment projection are provided below: -

Table 13 Adopted Employment growth rates

Year	India GDP growth	TN GDP	Worker Growth	Old CMA	Expanded CMA
2022-25	8.2%	8.6%	1.8%	1.62%	2.15%
2026-30	5.9%	6.2%	1.3%	1.17%	1.55%
2031-35	4.7%	4.9%	1.0%	0.93%	1.23%

Year	India GDP growth	TN GDP	Worker Growth	Old CMA	Expanded CMA
2036-40	3.8%	4.0%	0.8%	0.75%	1.00%
2041-45	3.1%	3.3%	0.7%	0.61%	0.81%
2046-50	2.7%	2.8%	0.6%	0.53%	0.71%

Based on the above growth rates, the employment projection for the base year and horizon years are as follows: -

Table 14 Employment estimates for old CMA and Expanded CMA for base & horizon years

Year	Old CMA		Expanded CMA		Total	
	Population	Employment	Population	Employment	Population	Employment
2011	8876029	3150889	2882084	1243574	11758113	4394463
2013	9201407	3287995	2980537	1297686	12181944	4585681
2023	11031929	3861275	3486266	1605682	14518195	5466957
2028	11912518	4149437	3739123	1972280	15651641	6121717
2033	12771374	4366158	3988477	2110054	16759851	6476212
2038	13675757	4548560	4230249	2227800	17906007	6776360
2043	14605129	4702480	4474605	2328395	19079734	7030876
2048	15584677	4836854	4718308	2417118	20302985	7253972

Based on the above employment projection, the work force participation rate (WFPR) was also reviewed based on the available data. The WFPR for the old CMA was in the range of 31%-35% and expanded CMA had WFPR in the range of 43%-51%. This was retained throughout the horizon years with lower WFPR in old CMA and similar or higher WFPR in expanded CMA based on the employment distribution strategy.

Table 15 Achieved WFPR

Year	WFPR		
	Old CMA	Expanded CMA	CMA 5904
2011	35.5%	43.1%	37.4%
2013	35.7%	43.5%	37.6%
2023	35.0%	46.1%	37.7%
2028	34.8%	52.7%	39.1%
2033	34.2%	52.9%	38.6%
2038	33.3%	52.7%	37.8%
2043	32.2%	52.0%	36.8%
2048	31.0%	51.2%	35.7%

The above data includes both economic census data and is considered as organised sector employment and to fill the gap observed between total workers and workers as per economic census data, it was assumed that the gap may be attributed to unorganised sector and is distributed evenly in zones and was corresponding to overall 23% (22% gap in old CMA and 25% gap in expanded CMA).

The 2023 data was also cross-checked with the data received from TANSIDCO, SIIPCOT etc., and the latest data was replaced in the respective zones (TAZ). The above data includes both economic census data and unorganised sector employment data.

The TAZ-wise employment is provided in the below figure:

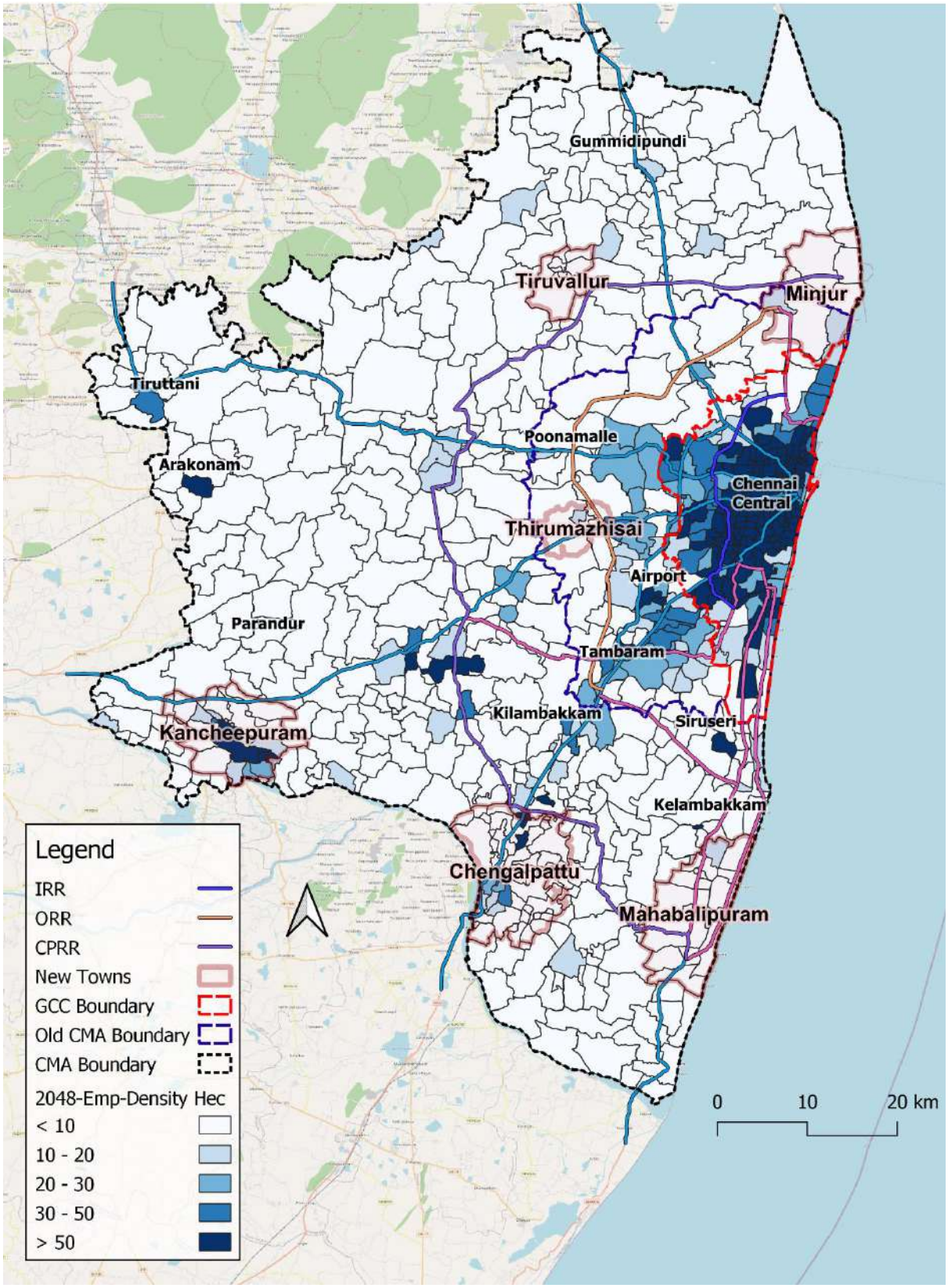


Figure 1 TAZ wise Employment density for the base year (2023)

ANNEXURE 5. SCENARIO-WISE POPULATION & EMPLOYMENT

Table 16: Scenario-wise population and employment

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
1	87555	31837	115171	39680	109157	39004	99069	39004
2	76305	30230	100372	37676	95132	37035	86339	37035
3	60448	24706	79514	30792	75362	30267	68397	30267
4	17322	7466	22785	9306	21596	9147	19600	9147
5	51561	16264	67824	20270	64283	19925	58342	19925
6	22269	9736	29292	12135	27763	11928	25197	11928
7	25278	15933	33250	19858	31515	19520	28602	19520
8	37686	16382	49572	20418	46983	20070	42641	20070
9	23162	8915	30467	11111	28877	10922	26208	10922
10	51040	20285	67138	25282	63633	24852	57752	24852
11	37968	12082	49944	15059	47336	14802	42961	14802
12	18540	9725	24387	12121	23114	11915	20978	11915
13	24899	11169	32752	13921	31043	13684	28174	13684
14	40071	12699	52709	15828	49958	15558	45340	15558
15	22758	9557	29936	11911	28373	11708	25751	11708
16	26174	8394	34430	10462	32632	10284	29616	10284
17	28140	8646	37015	10776	35082	10592	31840	10592
18	18734	8536	24643	10638	23356	10457	21198	10457
19	17631	7894	23192	9838	21981	9670	19949	9670
20	15143	5463	19919	6809	18880	6693	17135	6693
21	18300	6893	24072	8591	22816	8444	20707	8444
22	29859	9539	39276	11888	37225	11686	33785	11686
23	21027	7936	27658	9890	26215	9722	23792	9722
24	23956	10863	31511	13539	29866	13309	27106	13309
25	21970	9955	28899	12407	27391	12196	24859	12196
26	23085	9723	30367	12118	28781	11912	26121	11912
27	27861	14814	36649	18463	34735	18149	31525	18149
28	29835	19285	39244	24036	37196	23626	33758	23626
29	22146	8996	29130	11212	27610	11021	25058	11021
30	28842	21651	37939	26985	35959	26525	32635	26525
31	36674	17551	48241	21874	45722	21501	41496	21501
32	36807	9033	48416	11259	45889	11067	41648	11067
33	47470	15610	62442	19455	59182	19124	53713	19124
34	56529	18690	74358	23294	70476	22897	63963	22897
35	45711	17400	60129	21686	56989	21316	51722	21316
36	59612	18029	78414	22470	74319	22088	67451	22088
37	30217	10914	39747	13603	37672	13371	34191	13371
38	40136	12141	52795	15132	50038	14875	45414	14875
39	34873	11327	45872	14118	43477	13877	39458	13877
40	58719	17052	77239	21253	73207	20891	66441	20891
41	24581	9771	32334	12178	30646	11971	27813	11971
42	31775	11227	41797	13993	39614	13755	35953	13755
43	18062	7262	23759	9050	22518	8896	20437	8896
44	16301	5707	21442	7113	20323	6992	18445	6992
45	20384	6855	26814	8543	25414	8398	23065	8398
46	14540	7010	19126	8737	18127	8589	16452	8589

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
47	16401	10691	21574	13325	20448	13098	18559	13098
48	20838	13770	27411	17162	25980	16870	23579	16870
49	19264	15289	25340	19055	24018	18730	21798	18730
50	58774	20911	77311	26062	73275	25618	66503	25618
51	52755	16576	69393	20659	65770	20307	59692	20307
52	26500	9314	34859	11608	33039	11411	29985	11411
53	27183	10264	35756	12792	33890	12575	30758	12575
54	44551	17441	58603	21737	55543	21367	50410	21367
55	26486	8835	34839	11011	33021	10824	29969	10824
56	43485	11775	57200	14675	54213	14425	49203	14425
57	24872	8185	32716	10201	31009	10027	28143	10027
58	34877	12196	45878	15201	43482	14942	39464	14942
59	26913	10335	35402	12880	33553	12661	30452	12661
60	34015	16641	44743	20740	42408	20387	38488	20387
61	19757	6446	25988	8034	24632	7897	22355	7897
62	126011	66917	165755	83400	157100	81980	142581	81980
63	93131	27622	122505	34426	116108	33840	105377	33840
64	82290	29494	108245	36759	102593	36133	93111	36133
65	109004	95051	143384	118465	135898	116448	123338	116448
66	78095	23740	102727	29588	97363	29084	88364	29084
67	42581	13210	56011	16464	53087	16184	48181	16184
68	37640	14637	49512	18243	46927	17932	42590	17932
69	30949	8826	40710	11001	38585	10813	35019	10813
70	30014	12674	39480	15796	37419	15527	33961	15527
71	13791	8840	18141	11017	17195	10830	15606	10830
72	37009	22071	48682	27507	46140	27039	41876	27039
73	25849	9333	34002	11631	32227	11433	29249	11433
74	64971	21345	85463	26604	81000	26150	73514	26150
75	68582	23522	90213	29316	85503	28817	77601	28817
76	27973	9581	36796	11941	34875	11738	31651	11738
77	26941	8226	35438	10252	33587	10078	30483	10078
78	26778	8213	35223	10236	33385	10062	30299	10062
79	22525	9515	29630	11859	28083	11657	25487	11657
80	23176	12045	30485	15013	28894	14757	26224	14757
81	19531	8046	25691	10028	24350	9857	22100	9857
82	18636	11996	24514	14951	23234	14697	21087	14697
83	21832	9068	28718	11302	27218	11110	24703	11110
84	20332	7274	26745	9066	25348	8911	23006	8911
85	12894	7417	16961	9244	16075	9087	14590	9087
86	18461	12183	24284	15184	23016	14925	20889	14925
87	16397	5939	21568	7401	20443	7275	18553	7275
88	26940	10611	35436	13225	33587	12999	30482	12999
89	18266	13413	24027	16717	22773	16432	20669	16432
90	19766	6813	26000	8491	24643	8347	22366	8347
91	25419	10093	33436	12579	31691	12365	28762	12365
92	18833	6451	24773	8040	23480	7903	21310	7903
93	19811	7896	26059	9840	24698	9673	22416	9673
94	25558	8784	33619	10948	31864	10761	28919	10761
95	13304	9252	17501	11532	16587	11335	15054	11335
96	14776	6918	19436	8622	18422	8476	16719	8476
97	23794	7690	31298	9585	29665	9422	26923	9422
98	19922	6798	26206	8472	24838	8328	22542	8328

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
99	17634	6969	23196	8686	21986	8538	19954	8538
100	10887	5227	14321	6515	13574	6404	12320	6404
101	14490	5734	19060	7147	18065	7025	16395	7025
102	10696	4349	14069	5421	13335	5328	12103	5328
103	18929	7614	24899	9490	23600	9328	21419	9328
104	23836	7558	31354	9420	29717	9260	26970	9260
105	20492	12666	26955	15786	25547	15517	23186	15517
106	22839	9426	30043	11749	28474	11548	25843	11548
107	26123	9085	34362	11322	32569	11130	29559	11130
108	22861	10298	30071	12835	28502	12616	25868	12616
109	21154	26008	27826	32415	26374	31863	23936	31863
110	15817	6347	20806	7911	19720	7776	17898	7776
111	21079	8450	27727	10532	26280	10353	23851	10353
112	17009	5128	22374	6391	21206	6282	19246	6282
113	22472	11784	29559	14687	28016	14437	25427	14437
114	37542	20471	49383	25514	46804	25079	42479	25079
115	28259	12015	37172	14974	35232	14719	31976	14719
116	26946	10811	35445	13474	33595	13244	30490	13244
117	41282	18197	54302	22679	51467	22293	46711	22293
118	39135	18556	51479	23127	48791	22733	44282	22733
119	26773	10207	35217	12721	33379	12505	30294	12505
120	32935	12403	43323	15458	41061	15195	37266	15195
121	29556	13158	38878	16399	36849	16119	33443	16119
122	34452	13819	45318	17222	42952	16929	38983	16929
123	29352	10071	38610	12552	36594	12338	33212	12338
124	26129	9291	34370	11580	32575	11383	29565	11383
125	23287	8864	30632	11048	29033	10860	26350	10860
126	20210	17238	26584	21484	25197	21119	22868	21119
127	28067	12595	36919	15698	34991	15430	31757	15430
128	66160	21369	87028	26633	82483	26179	74860	26179
129	67665	24025	89007	29943	84359	29433	76563	29433
130	104103	31819	136938	39657	129787	38982	117792	38982
131	0	6815	0	8493	0	8349	0	8349
132	0	3282	0	4091	0	4021	0	4021
133	42759	11809	56245	14718	53308	14467	48381	14467
134	26296	8501	34590	10595	32785	10415	29755	10415
135	56883	18814	74823	23448	70917	23049	64363	23049
136	37949	12370	49918	15418	47312	15155	42940	15155
137	25116	6758	33037	8423	31313	8279	28419	8279
138	43025	12856	56595	16022	53641	15750	48683	15750
139	40263	13372	52963	16666	50197	16382	45558	16382
140	37743	32709	49647	40767	47054	40073	42706	40073
141	62277	20909	81919	26059	77641	25615	70466	25615
142	30255	11163	39798	13913	37721	13676	34235	13676
143	22954	9628	30194	12000	28618	11795	25973	11795
144	24217	8334	31855	10387	30192	10210	27401	10210
145	27955	8262	36772	10297	34852	10121	31631	10121
146	20006	6616	26316	8246	24942	8105	22637	8105
147	20396	7096	26829	8844	25428	8693	23078	8693
148	20433	6897	26878	8596	25475	8449	23121	8449
149	36658	13033	48220	16243	45702	15967	41478	15967
150	35668	11873	46917	14797	44468	14545	40358	14545

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
151	39362	16270	51777	20278	49074	19933	44539	19933
152	29322	10134	38571	12630	27792	12415	33178	12415
153	163825	59666	215496	74364	155271	73098	185368	73098
154	61429	20181	80804	25152	58222	24724	69507	24724
155	86401	30067	113652	37474	81890	36836	97763	36836
156	104294	23002	150764	28668	171370	28180	155532	28180
157	91858	17906	132787	22317	150937	21937	136987	21937
158	40650	7924	58762	9876	66794	9708	60621	9708
159	53500	10429	77338	12998	50707	12777	79785	12777
160	15908	6039	22995	7527	15077	7399	23723	7399
161	18736	20606	27084	25682	70269	25245	27941	25245
162	76585	14929	110709	18606	180926	18289	114210	18289
163	76078	15088	109976	18805	125008	18485	113454	18485
164	51162	9973	73959	12430	48491	12218	76298	12218
165	18520	3610	26772	4499	30431	4423	27619	4423
166	3760	733	5435	913	6179	898	5608	898
167	188707	36785	272788	45846	178853	45065	281415	45065
168	63442	12368	91709	15415	104245	15152	94610	15152
169	188707	36785	272788	45846	178853	45065	281415	45065
170	94757	26068	136978	32489	211613	31936	141310	31936
171	15272	6244	27696	7782	14475	7649	23824	7649
172	16744	3401	30365	4239	59333	4167	26120	4167
173	22600	5361	32669	6682	21420	6568	33703	6568
174	30571	12291	44193	15319	118913	13552	45591	13552
175	19363	6057	27990	7549	36720	7421	28876	7421
176	23098	74536	33390	92897	66124	91315	34446	91315
177	12576	2451	18179	3055	11919	3003	18754	3003
178	111260	21688	160834	27031	203930	26570	165921	26570
179	111260	22873	160834	28507	210529	28022	165921	28022
180	52891	10310	76458	12850	121722	12631	78877	12631
181	25824	6124	37330	7632	56169	7502	38511	7502
182	67405	21051	97439	26237	147011	23211	100521	23211
183	44573	9054	80834	11284	38021	9983	69532	9983
184	161622	34330	262115	42787	362151	37853	225469	37853
185	94757	115142	136978	143505	203057	141061	141310	141061
186	14596	2845	21099	3546	23984	3486	21767	3486
187	25023	6558	36172	8174	41117	8035	37317	8035
188	80816	15753	116825	19634	132793	19300	120520	19300
189	80816	62177	116825	77493	132793	76174	120520	76174
190	77891	24163	112597	30115	140376	26642	116158	26642
191	101344	19755	146500	24621	166523	24202	151133	24202
192	101344	19755	146500	24621	96052	24202	151133	24202
193	67832	13223	98056	16480	64291	16199	101157	16199
194	67832	13223	98056	16480	116216	16199	101157	16199
195	37987	7405	54913	9229	62419	9072	56650	9072
196	30442	6942	44007	8652	45020	7654	45399	7654
197	66896	13610	96702	16962	57063	15006	99761	15006
198	125905	26744	204190	33332	254255	29488	175641	29488
199	148857	46880	241413	58428	382530	51690	207660	51690
200	63935	13589	92422	16936	76373	20170	95345	20170
201	72801	22258	127193	27741	138708	24542	109410	24542
202	28778	10636	51940	13257	62071	11728	44678	11728

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
203	28778	5985	51940	7459	43052	10854	44678	10854
204	86660	25095	153349	31277	97912	34266	131909	34266
205	64305	21880	103876	27270	54852	24125	89354	24125
206	29786	6337	48116	7898	52403	7764	41389	7764
207	38951	8287	62920	10328	33225	9137	54123	9137
208	29786	6337	48116	7898	28232	7764	41389	7764
209	80358	17096	129807	21307	156825	20945	111659	20945
210	54335	11560	87771	14407	51498	14162	75499	14162
211	72444	18988	104722	23665	126897	23262	108034	23262
212	61833	15258	89384	19017	152688	18693	92211	18693
213	18338	3575	26509	4455	17380	4379	27348	4379
214	35559	6932	51404	8639	58430	8492	53030	8492
215	27969	17599	40430	21935	45957	21561	41710	21561
216	29576	11650	42754	14520	48597	14272	44106	14272
217	34990	13398	50580	16699	57493	16414	52180	16414
218	35218	9561	50910	11917	57869	11714	52520	11714
219	77991	24458	112741	30483	128150	29964	116307	29964
220	41710	14251	60294	17762	68535	17459	62201	17459
221	66383	12940	95961	16128	109077	15853	98996	15853
222	105939	22292	153142	27784	100407	27311	157985	27311
223	13249	2819	21402	3513	20284	3453	18410	3453
224	7770	1653	12552	2060	7365	2025	10797	2025
225	41325	8792	66755	10958	39167	10771	57422	10771
226	11449	2436	18494	3036	18745	2984	15908	2984
227	11311	2407	18272	2999	21758	2948	15718	2948
228	31961	6800	51630	8475	27264	7497	44411	7497
229	11311	2407	18272	2999	19751	2653	15718	2653
230	9057	2177	13093	2713	24362	6189	13508	6189
231	23328	4904	33722	6112	37887	9530	34789	9530
232	10933	2499	14753	3115	26139	6584	12690	6584
233	0	0	0	0	0	0	0	0
234	31515	12065	45557	15038	45646	18304	46998	18304
235	4494	1056	5671	1316	4838	1164	4878	1164
236	40709	11053	58847	13776	119185	17063	60709	17063
237	50002	15457	72281	19264	96297	18936	74567	18936
238	40352	8784	59103	10948	101156	9686	266623	9686
239	31399	10071	42370	12552	59317	15860	36446	15860
240	14313	5374	20690	6697	29343	10105	21346	10105
241	31791	10757	45955	13407	68014	16700	47409	16700
242	48344	15637	69885	19489	95214	22679	72096	22679
243	13971	2723	20197	3394	38734	6859	20835	6859
244	42065	9050	60808	11279	55646	14609	62732	14609
245	140173	30074	202630	37483	148630	40366	209038	40366
246	60377	13576	85167	16921	73002	20154	73260	20154
247	35139	7892	49566	9837	72140	8702	42637	8702
248	10252	2303	14461	2870	18728	2539	12440	2539
249	63536	18984	91845	23660	75995	26779	519501	26779
250	4918	959	7109	1195	20438	4696	7334	4696
251	21079	5623	29159	7008	35756	10410	18133	10410
252	9057	1927	14630	2401	17583	2125	12585	2125
253	24468	11812	39524	14722	38193	13024	33999	13024
254	9057	3042	14630	3792	15408	3354	12585	3354

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
255	11311	67475	18272	84097	19295	74398	15718	74398
256	23405	4979	37808	6206	38527	6100	32522	6100
257	40314	11504	65122	14338	95063	17616	56017	17616
258	57811	12184	83570	15185	70569	18449	86213	18449
259	0	0	0	0	0	0	0	0
260	20141	4786	29115	5965	47277	5277	30037	5277
261	196400	46570	317258	58041	296767	51348	272902	51348
262	90967	22560	146945	28118	86218	27639	126401	27639
263	29685	11315	47953	14102	28136	13862	41249	13862
264	28558	6076	46131	7572	27067	7443	39682	7443
265	13620	2655	19689	3309	12909	3253	20312	3253
266	25253	5373	40793	6696	38664	6582	35090	6582
267	19175	7848	27719	9781	31508	9615	28596	9615
268	26583	9697	38427	12086	43679	11880	39643	11880
269	26186	6824	37854	8505	43028	8360	39052	8360
270	52736	11533	76233	14374	86653	14129	78644	14129
271	26536	5173	38360	6447	43604	6337	39574	6337
272	24723	53340	35739	90899	40625	89351	36870	89351
273	29233	8891	42258	11082	48034	10893	43595	10893
274	7982	1556	11539	1939	13116	1906	11904	1906
275	12359	2866	17865	3572	20307	3511	18430	3511
276	0	0	0	0	0	0	0	0
277	0	0	0	0	0	0	0	0
278	0	0	0	0	0	0	0	0
279	0	0	0	0	0	0	0	0
280	0	511	0	637	43986	626	0	626
281	6580	1984	8789	2657	11359	2351	77374	2351
282	1044	973	1395	1303	990	1281	234315	1281
283	310	87	414	116	392	114	356	114
284	1578	761	2108	1019	1999	1001	1814	1001
285	10936	4322	14607	5787	10365	5689	12566	5689
286	42462	15181	56718	20331	63178	17986	48789	17986
287	27045	11291	36125	15120	23070	13377	31074	13377
288	15740	8419	21025	11275	17934	9975	18085	9975
289	9996	3293	13352	4410	11390	3902	11485	3902
290	18475	6743	24677	9031	21050	7989	21228	7989
291	6795	2019	9076	2704	8602	2658	7807	2658
292	7267	4099	9707	5489	6888	5396	8351	5396
293	6037	2474	8064	3313	10583	3257	6937	3257
294	618	239	826	319	952	314	711	314
295	40462	14550	60263	19486	58893	19154	51838	19154
296	3619	1418	4517	1900	6347	1867	3885	1867
297	5488	1794	7331	2402	5202	2361	6306	2361
298	4548	1559	6075	2088	4311	2053	5226	2053
299	14494	5598	19361	7497	18350	7370	16654	7370
300	23964	13347	32009	17875	30338	17570	27535	17570
301	5351	1685	7148	2256	6775	2218	6149	2218
302	22039	8165	29438	10935	27902	10749	25323	10749
303	15037	5434	20086	7277	22243	7154	17278	7154
304	13674	4367	18264	5848	12960	5748	15711	5748
305	6797	2000	9079	2678	6442	2633	7810	2633
306	8183	2634	10931	3528	7757	3468	9403	3468

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
307	3809	1251	5088	1675	6835	1646	4377	1646
308	3175	863	4241	1156	5118	1136	3649	1136
309	4819	3291	6437	4407	4567	4332	5537	4332
310	1827	515	2440	690	1732	678	2100	678
311	2887	808	3856	1083	2736	1064	3318	1064
312	1875	537	2504	719	1777	707	2154	707
313	1745	948	2331	1270	1654	1248	2005	1248
314	5982	1933	7991	2589	7574	2545	6874	2545
315	18083	11047	22765	14794	21576	14542	19582	14542
316	4888	1420	6529	1902	4633	1870	5616	1870
317	298	83	398	112	282	110	342	110
318	3068	892	4098	1195	2908	1174	3526	1174
319	1037	805	1386	1079	984	1060	1192	1060
320	0	0	0	0	0	0	0	0
321	0	0	0	0	0	0	4955	0
322	9018	3006	12046	4026	25842	3957	38141	3957
323	1279	348	1709	466	1213	458	27672	458
324	4002	1203	5345	1611	5067	1584	4599	1584
325	15658	6476	20915	8673	19823	8526	17991	8526
326	16919	4905	22599	6569	21420	6457	19440	6457
327	15772	6761	19687	9054	18660	8900	16935	8900
328	19282	6181	25756	8278	24411	8137	22155	8137
329	20596	7595	27510	10171	19520	9998	23665	9998
330	8326	2734	11122	3661	13890	3599	9567	3599
331	3347	975	4470	1306	3172	1284	3846	1284
332	4015	1362	5363	1825	3805	1793	4613	1793
333	4064	1153	5428	1544	3852	1518	4669	1518
334	9685	2691	12936	3604	14298	3542	11127	3542
335	23387	10107	29193	13535	28596	24022	25111	24022
336	3893	1117	5200	1495	6115	1470	4474	1470
337	1093	504	1460	675	1385	663	1257	663
338	4675	1564	6244	2095	5919	6495	5372	6495
339	625	302	835	405	792	398	719	398
340	11387	5493	15210	7357	14417	7232	13084	7232
341	15093	5297	20161	7094	17197	6276	17342	6276
342	7086	2414	9465	3233	8972	3178	8143	3178
343	15002	4753	20038	6365	18993	6256	17237	6256
344	10493	3287	14015	4402	9945	4327	12056	4327
345	3511	1639	4690	2195	4445	2157	4034	2157
346	16624	7740	22205	10365	21045	10189	19100	10189
347	12049	4164	16095	5576	15255	5481	13845	5481
348	4608	1458	6155	1953	5834	1919	5294	1919
349	15282	5064	20412	6781	19347	6666	17559	6666
350	6331	2226	8457	2981	8015	2930	7275	2930
351	14555	5036	19442	6744	13796	6629	16724	6629
352	2120	818	2832	1095	2009	1076	2436	1076
353	24723	7888	33023	10563	23432	10383	28406	10383
354	13213	4177	17649	5594	12523	5499	15181	5499
355	11005	5031	14699	6737	9387	5961	12645	5961
356	10682	4696	14268	6288	12172	5563	12274	5563
357	488	198	652	266	463	261	562	261
358	15553	7057	20775	9450	13268	8360	17870	8360

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
359	15646	5624	20899	7532	24857	7404	17977	7404
360	17683	6433	23619	8615	61209	7621	20318	7621
361	7046	2320	9411	3107	10799	2749	8096	2749
362	7178	2361	9588	3162	6124	2797	8247	2797
363	14640	5665	19555	7587	12488	6711	16821	6711
364	4793	3487	6402	4670	4089	4131	5507	4131
365	2072	636	2768	852	2624	838	2382	838
366	7809	4476	10431	5995	7402	5893	8973	5893
367	35752	16197	47755	21691	50155	21321	41079	21321
368	17672	5304	23605	7103	30908	6982	20305	6982
369	12032	11765	17921	15755	19405	15487	15415	15487
370	7194	2394	9609	3206	6818	3151	8266	3151
371	15363	4734	20520	6340	14561	6232	17652	6232
372	11827	4299	15797	5757	11209	5659	13589	5659
373	12796	5457	17092	7308	12128	7184	14702	7184
374	28237	9307	37717	12464	46656	12252	32445	12252
375	21612	6608	28867	8849	20483	8698	24832	8698
376	19024	7818	25410	10470	40642	10292	21858	10292
377	7850	2884	10485	3862	7440	3796	9020	3796
378	7609	2264	10164	3032	9633	2980	8743	2980
379	4887	2298	6527	3078	6187	3026	5615	3026
380	11142	3639	14882	4873	14106	4790	12802	4790
381	31979	14352	42716	19220	40485	18893	36744	18893
382	27739	11928	37052	15975	35118	15703	31872	15703
383	6668	2076	8907	2781	8443	2733	7663	2733
384	3223	943	4305	1263	4080	1241	3703	1241
385	5236	1553	6993	2080	6629	2045	6016	2045
386	3083	1145	4119	1534	3904	1507	3543	1507
387	2961	1066	3955	1428	3748	1403	3402	1403
388	3481	975	4650	1306	4408	1283	4001	1283
389	3646	1334	4870	1786	4616	1756	4189	1756
390	4614	1973	6163	2642	5841	2597	5301	2597
391	58402	30690	86983	41100	82441	40400	74822	40400
392	4090	1154	5463	1545	5178	1519	4699	1519
393	5055	1744	6752	2336	4791	2296	5808	2296
394	16807	5648	22450	7564	23118	7435	19311	7435
395	2916	793	3894	1061	2764	1043	3350	1043
396	4949	1931	6610	2585	6926	2541	5686	2541
397	102241	38124	152275	51057	144949	50187	130985	50187
398	7078	1924	9454	2577	9488	2533	8133	2533
399	9208	3205	12299	4292	12416	4219	10579	4219
400	26645	8274	35590	11081	25254	10892	30615	10892
401	8813	3616	11772	4842	8354	4760	10127	4760
402	8300	3478	11087	4657	10508	4578	9537	4578
403	17311	5643	21608	7557	20481	7428	18588	7428
404	4828	1695	6449	2270	4577	2231	5548	2231
405	9798	2943	13088	3942	9287	3875	11258	3875
406	28974	10480	38702	14035	27462	13796	33291	13796
407	12644	4205	16888	5632	25383	5536	14528	5536
408	13399	5802	17897	7770	16962	7637	15395	7637
409	2442	671	3261	899	3092	884	2806	884
410	5933	3129	7926	4190	12515	4119	6818	4119

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
411	7858	3070	10496	4112	6704	3638	9029	3638
412	30781	11830	38423	15844	29175	15574	33051	15574
413	13646	4638	18228	6211	12934	6105	15679	6105
414	12561	4290	16779	5745	17559	5647	14433	5647
415	7796	2646	10414	3544	7390	3484	8958	3484
416	6316	1940	8436	2598	5986	2553	7257	2553
417	9336	2829	12471	3788	16333	3724	10727	3724
418	38038	10990	50808	14718	48156	14467	43705	14467
419	10907	3753	14569	5026	13808	4941	12532	4941
420	7169	4240	9575	5679	9076	5582	8237	5582
421	6633	2901	8859	3885	8397	3818	7621	3818
422	11780	4327	15735	5795	20297	5696	13535	5696
423	23816	9267	31812	12411	35873	12199	27365	12199
424	1753	666	2342	892	1662	877	2015	877
425	22498	7185	30051	9622	21323	9458	25849	9458
426	6640	2597	8869	3478	10308	3419	7629	3419
427	840	291	1122	390	796	384	965	384
428	275	83	367	112	262	110	317	110
429	2381	898	3180	1203	2257	1183	2736	1183
430	2378	1570	3177	2102	3414	2066	2733	2066
431	1210	527	1616	706	1811	694	1391	694
432	1571	573	2098	767	1489	754	1806	754
433	177	51	237	68	169	67	205	67
434	0	0	0	0	0	0	0	0
435	1561	424	2086	568	1480	559	1794	559
436	192	64	256	86	244	85	221	85
437	2476	1576	3307	2111	3135	2075	2845	2075
438	2394	1524	3198	2041	3031	2007	2751	2007
439	3587	1538	4792	2060	4542	2025	4122	2025
440	1697	642	2267	860	2149	845	1950	845
441	1408	656	1880	879	1783	864	1618	864
442	29898	9421	41213	12617	39062	12402	35452	12402
443	28625	7628	39458	10216	37398	10042	33942	10042
444	15424	5933	21262	7946	20152	7810	18289	7810
445	16252	4331	22402	5800	21233	5701	19271	5701
446	944	252	1302	337	1234	331	1120	331
447	3148	1024	4339	1372	4112	1349	3732	1349
448	17079	8400	23543	11249	22315	11057	20252	11057
449	7788	2075	10735	2779	10175	2732	9235	2732
450	10569	4270	14569	5719	13809	5622	12533	5622
451	11776	6553	16233	8776	11162	8627	13964	8627
452	11174	2978	15402	3988	14599	3920	13249	3920
453	11653	5500	16063	7365	15225	7240	13818	7240
454	181763	80647	250551	108004	97354	106165	193969	106165
455	3085	822	4252	1101	4031	1082	3658	1082
456	7089	3405	9771	4560	6719	4482	8406	4482
457	5351	1418	7435	1900	5072	1867	6395	1867
458	5811	1548	8010	2074	5508	2038	8404	2038
459	629	182	840	244	1000	240	723	240
460	6031	1640	8056	2196	13564	2158	45728	2158
461	0	0	0	0	161	0	1239	0
462	1413	948	1887	1270	1339	1248	1623	1248

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
463	5602	2398	7483	3211	8102	3156	6438	3156
464	422	221	563	296	937	291	485	291
465	9566	3915	12778	5242	9067	5153	26072	5153
466	345	586	461	785	328	772	32799	772
467	5069	1378	6771	1845	4804	1814	5824	1814
468	258	177	345	237	328	233	298	233
469	173	282	231	378	219	371	199	371
470	4098	1369	5474	1833	3885	1802	4710	1802
471	872	237	1164	317	2409	312	1002	312
472	7778	5224	10390	6996	23667	6877	8937	6877
473	0	0	0	0	408	0	3148	0
474	13584	5979	18145	8008	27567	7871	79980	7871
475	2490	918	3326	1230	9239	1209	2862	1209
476	5708	1846	7625	2473	27876	2430	6559	2430
477	0	0	0	0	574	0	0	0
478	6805	4488	9090	6010	27382	5908	7820	5908
479	6388	3700	8533	4956	11193	4871	7341	4871
480	6998	2287	9348	3063	10893	3011	8041	3011
481	2426	1151	3241	1541	2300	1515	2788	1515
482	3213	874	4292	1170	5917	1150	3693	1150
483	1546	763	2065	1022	1465	1004	1776	1004
484	1987	540	2654	723	2515	711	2283	711
485	891	299	1190	401	844	394	1024	394
486	167	66	223	89	211	87	192	87
487	1335	383	1783	513	1691	504	1535	504
488	523	203	698	272	496	267	601	267
489	5666	2930	7568	3923	5370	3857	6510	3857
490	3019	1058	4033	1417	2862	1393	3469	1393
491	4584	1421	6123	1903	4346	1870	5268	1870
492	2963	1794	3958	2403	2809	2362	3405	2362
493	5393	1973	7203	2643	6828	2598	6197	2598
494	9858	3452	13167	4623	12480	4544	11327	4544
495	14083	6123	18812	8199	17830	8060	16182	8060
496	3418	1828	4566	2447	4328	2406	3928	2406
497	4927	1730	6581	2317	6238	2278	5662	2278
498	1995	902	2665	1208	2526	1188	2292	1188
499	18178	7304	22692	9782	21507	9615	19519	9615
500	1370	361	1711	483	1622	475	1472	475
501	2570	1696	3433	2271	3255	2233	2954	2233
502	2345	837	3132	1120	2968	1101	2694	1101
503	5396	2010	7208	2692	6833	2646	6201	2646
504	4006	2573	5352	3445	5073	3387	4604	3387
505	3964	2641	5294	3538	5019	3477	4555	3477
506	12807	4821	17106	6457	16214	6347	14715	6347
507	8294	3874	11079	5189	10500	5100	9530	5100
508	4064	1365	5428	1827	5145	1796	4669	1796
509	4423	1293	5908	1731	8068	1702	5083	1702
510	1750	601	2337	804	5922	791	2010	791
511	0	0	0	0	0	0	0	0
512	4012	1344	5360	1800	3803	1770	4611	1770
513	20442	13005	27305	17416	19375	17120	23488	17120
514	10	8	13	10	12	10	11	10

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
515	6571	2493	8777	3338	6228	3281	7550	3281
516	4909	2513	6557	3365	4654	3308	5641	3308
517	10858	4590	14504	6147	9263	5438	12476	5438
518	41763	21419	55784	28685	55196	25376	47986	25376
519	37732	10257	50399	13737	48469	13503	43353	13503
520	19881	5714	26556	7652	28566	7522	22843	7522
521	4353	1100	6484	1472	6327	1447	5577	1447
522	0	0	0	0	343	0	0	0
523	3743	1085	5575	1453	5540	1429	4796	1429
524	6564	4058	9776	5435	8959	4808	8410	4808
525	5715	7015	8512	9395	8478	8312	7322	8312
526	14870	8159	22147	10927	26911	10741	19051	10741
527	16189	5790	24111	7754	23402	7622	20741	7622
528	4602	1259	6855	1686	7424	1657	5897	1657
529	6637	2268	9885	3037	6290	2985	8503	2985
530	13666	7242	20354	9698	12953	9533	17509	9533
531	5260	1685	7834	2256	4985	2218	6739	2218
532	4718	1299	7028	1740	6661	1711	6045	1711
533	927	234	1381	314	1310	308	1189	308
534	10163	18172	15137	24337	14764	23922	13022	23922
535	1668	421	2484	564	2794	555	2138	555
536	6141	2070	9147	2772	9200	2724	7868	2724
537	4679	1348	6969	1805	4436	1774	5995	1774
538	4435	1120	6606	1500	6779	1475	5683	1475
539	7418	10875	11048	14564	12134	14316	9504	14316
540	2545	759	3400	1016	3982	999	2925	999
541	557	178	745	238	529	234	641	234
542	1601	559	2138	748	2027	736	1840	736
543	14269	4703	19060	6298	13525	6191	149466	6191
544	0	0	0	0	0	0	7914	0
545	1838	539	2455	722	3613	710	38700	710
546	0	0	0	0	0	0	0	0
547	2421	658	3234	881	2296	866	2783	866
548	3739	1100	4994	1474	5116	1449	4296	1449
549	387	126	517	169	368	166	446	166
550	2147	797	2868	1067	2036	1049	2468	1049
551	0	0	0	0	1432	0	0	0
552	13812	3755	18449	5028	17637	4943	15870	4943
553	16157	6628	21581	8876	20654	8725	18565	8725
554	1623	454	2168	608	2325	597	1866	597
555	724	206	967	275	1341	271	833	271
556	1124	306	1502	409	1905	402	19414	402
557	992	495	1325	663	1569	651	12602	651
558	0	11	0	15	0	15	0	15
559	9224	2805	12321	3756	13985	3692	10599	3692
560	208	63	278	84	198	83	240	83
561	3691	1262	4930	1690	3498	1661	4242	1661
562	2601	707	3474	947	3750	931	2989	931
563	472	195	630	261	447	257	6968	257
564	1617	622	2160	832	1534	818	10649	818
565	400	157	535	210	380	207	460	207
566	911	352	1217	471	864	463	1047	463

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
567	1008	507	1346	678	955	667	1158	667
568	1520	503	2030	674	1441	663	1746	663
569	1898	898	2536	1203	1800	1183	2181	1183
570	152	58	204	77	145	76	175	76
571	3118	1121	4165	1501	5398	1476	58527	1476
572	3928	1104	5247	1478	3723	1453	4513	1453
573	786	214	1049	286	745	281	903	281
574	2838	772	3791	1033	2691	1016	20386	1016
575	9461	2873	12638	3847	12516	3782	10871	3782
576	6408	2219	8559	2972	8515	2922	7362	2922
577	12277	3101	18286	4153	17735	4082	16283	4082
578	26402	9789	39322	13109	37905	12886	33825	12886
579	8514	3284	12680	4398	12348	4323	10908	4323
580	32104	10495	47814	14055	46161	13816	41130	13816
581	7579	3177	11287	4255	10914	4183	9710	4183
582	11466	3117	15315	4174	14691	4103	13175	4103
583	3375	918	4508	1229	3200	1208	3879	1208
584	1122	541	1499	725	1063	713	1289	713
585	4935	1585	6592	2123	4678	2087	5671	2087
586	2581	898	3447	1203	3268	1183	2966	1183
587	2688	905	3591	1212	3403	1192	3089	1192
588	755	262	1009	351	956	345	868	345
589	1493	431	1995	577	1416	567	1716	567
590	992	272	1325	364	1257	358	1141	358
591	7725	2933	10318	3927	9780	3861	8876	3861
592	507	138	678	185	643	182	583	182
593	1547	543	2067	727	1959	715	1778	715
594	0	2096	0	2807	0	2759	0	2759
595	6288	2062	8400	2762	9388	2715	7226	2715
596	642	255	857	341	608	336	738	336
597	5621	2363	7509	3165	5328	3111	6459	3111
598	12204	8266	16301	11070	15978	10881	14023	10881
599	4128	1810	5514	2424	6023	2383	4743	2383
600	8002	2973	10689	3982	7585	3914	9195	3914
601	4129	1553	5515	2080	5228	2045	4745	2045
602	4381	1154	5469	1546	5183	1519	4704	1519
603	36385	14029	45419	18788	43047	18469	39069	18469
604	813	214	1015	287	963	282	874	282
605	1845	529	2303	709	2183	697	1981	697
606	1613	425	2014	569	1909	559	1732	559
607	1237	575	1653	770	1567	757	1422	757
608	3912	1664	5226	2228	4953	2190	4495	2190
609	487	181	651	242	617	238	560	238
610	921	341	1230	456	1166	448	1058	448
611	621	169	829	226	786	222	713	222
612	7872	7523	10515	10074	9967	9903	9046	9903
613	8354	2958	11158	3961	7918	3893	9599	3893
614	5569	2240	7439	3000	7051	2949	6399	2949
615	1370	476	1829	638	1734	627	1574	627
616	6062	2689	8097	3601	7675	3539	6966	3539
617	3297	1368	4403	1832	4174	1800	3788	1800
618	7621	2636	10180	3530	9648	3470	8757	3470

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
619	11701	4156	15630	5566	11091	5471	13445	5471
620	59453	21321	79413	28553	70661	25260	68311	25260
621	11726	5316	15663	7119	11115	6998	13474	6998
622	4283	2046	5721	2741	4059	2694	4921	2694
623	548	201	732	269	694	264	630	264
624	9961	4489	13306	6011	12611	5909	11446	5909
625	2346	764	3134	1023	2970	1006	2696	1006
626	7596	2415	10146	3234	9617	3179	8728	3179
627	6450	2335	8616	3127	8166	3074	7411	3074
628	1771	599	2366	802	2242	789	2035	789
629	2121	636	2833	852	2686	837	2438	837
630	1079	293	1441	393	1367	386	1240	386
631	765	2587	1021	3465	969	3406	879	3406
632	9063	7851	12106	10515	11475	10335	10414	10335
633	9676	4247	12924	5688	12249	5591	11117	5591
634	6801	6505	9084	8711	8610	8563	7814	8563
635	6180	2306	8255	3088	7824	3036	7101	3036
636	12714	4726	16982	6329	12050	6221	14609	6221
637	4076	1443	5444	1933	3863	1900	4683	1900
638	1890	2103	2525	2816	1792	2768	2172	2768
639	2643	696	3299	932	2506	917	2839	917
640	3384	891	4224	1194	3207	1173	3633	1173
641	2913	1077	3891	1442	2762	1417	3348	1417
642	0	130	0	174	0	171	0	171
643	1782	659	2380	882	2256	867	2047	867
644	2607	6329	3482	8476	3301	8331	59284	8331
645	785	278	1048	372	5139	366	8344	366
646	6605	1796	8823	2405	12507	2364	48678	2364
647	16918	7998	21118	10711	20016	10529	54923	10529
648	4552	2170	6080	2907	5763	2857	5231	2857
649	641	298	856	399	811	392	736	392
650	2680	775	3579	1039	3393	1021	3079	1021
651	7437	2247	9933	3009	9415	2958	8545	2958
652	1422	792	1899	1061	1801	1043	1634	1043
653	10439	4253	13944	5696	13216	5599	11994	5599
654	18783	9764	23446	13076	22222	12853	20168	12853
655	3757	990	4689	1325	4445	1303	33220	1303
656	2756	1261	3681	1689	3490	1661	74372	1661
657	3493	1337	4666	1790	4422	1760	95188	1760
658	4055	1267	5416	1697	5134	1668	4660	1668
659	32695	12341	43672	16528	41391	16246	37566	16246
660	5444	1652	7272	2212	6892	2175	6255	2175
661	3559	1061	4753	1422	4506	1397	4089	1397
662	7078	3024	9454	4050	8961	3981	8133	3981
663	3399	1164	4540	1559	4304	1532	3906	1532
664	380	242	507	324	481	318	437	318
665	0	177	0	237	0	233	0	233
666	3531	1153	4717	1544	4471	1518	4057	1518
667	12503	4702	16701	6297	15829	6190	14366	6190
668	12365	5035	16516	6744	15654	6629	14208	6629
669	476	243	636	326	604	320	548	320
670	1195	325	1596	435	1513	427	1373	427

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
671	3370	1200	4502	1607	4268	1579	3873	1579
672	4129	1421	5515	1903	5228	1870	4745	1870
673	6001	11085	8016	14845	7649	14592	6896	14592
674	8275	3664	11053	4907	11643	8709	9509	8709
675	9580	3704	12797	4961	12825	4876	11008	4876
676	5013	1924	6696	2577	8239	4574	5760	4574
677	5176	2055	6914	2753	9237	2706	5947	2706
678	7090	2306	9470	3088	8976	9576	8147	9576
679	5642	4027	7536	5393	7142	16722	6482	16722
680	3718	1346	4967	23361	4708	38343	4273	38343
681	7594	3055	10143	4092	7197	20667	8726	20667
682	3216	988	4295	1323	5977	1301	3695	1301
683	17303	8850	23112	11852	24419	11650	19881	11650
684	7202	2567	9620	3437	10710	3379	8275	3379
685	5008	3641	6689	4876	6341	4793	5755	4793
686	2168	7667	2895	10268	2055	10093	2491	10093
687	3320	903	4435	1209	7598	1188	3816	1188
688	4650	28481	6211	38142	4407	37492	5343	37492
689	6383	6729	8525	9012	5445	7972	7334	7972
690	2569	10681	3431	14305	2192	12655	2952	12655
691	3108	1742	4152	2333	5486	2293	3572	2293
692	1204	1540	1608	13103	2597	12880	1384	12880
693	913	248	1220	333	866	327	1050	327
694	2074	601	2770	5112	5707	5025	2383	5025
695	3686	5646	4924	27044	6974	33167	4236	33167
696	588	176	786	843	558	1034	676	1034
697	2979	810	3979	3879	5579	4757	3423	4757
698	4778	3978	6382	19054	7000	23368	5491	23368
699	5737	5929	7663	28399	10049	34828	6592	34828
700	1204	4218	1608	20202	2065	24776	1384	24776
701	0	0	0	0	0	0	0	0
702	5532	1826	7389	100283	9558	98575	6357	98575
703	5978	1855	7984	16168	5666	22296	6869	22296
704	2318	1940	3096	16912	2934	23321	2663	23321
705	1939	3199	2590	27877	2455	38442	2228	38442
706	545	148	729	1292	691	1782	627	1782
707	217	80	290	697	275	961	249	961
708	3513	965	4693	8411	4448	11598	4037	11598
709	455	157	608	210	1322	207	523	207
710	2053	26988	2743	36143	1947	35527	2359	35527
711	1014	300	1354	402	961	395	1165	395
712	1049	285	1402	382	995	375	1206	375
713	890	252	1188	337	844	331	1023	331
714	1061	1599	1417	2141	1343	2104	1219	2104
715	1603	96963	2141	129855	2030	127644	1843	127644
716	5767	1568	7703	2099	7301	2064	6626	2064
717	3024	1670	4039	2236	3829	2198	3475	2198
718	0	0	0	0	0	0	0	0
719	2276	658	3040	882	2882	867	90887	867
720	3044	1256	4066	1682	14672	1821	25050	1821
721	0	0	0	0	0	0	0	0
722	0	0	0	0	0	0	0	0

Taz	Base Year		BAU & Pragmatic		Transport Corridor		Poly-Nuclei Development	
			P1	E1	P2	E2	P3	E3
	2023	2023	2048	2048	2048	2048	2048	2048
723	0	0	0	0	0	0	0	0
724	0	0	0	0	0	0	0	0
725	0	0	0	0	0	0	0	0
726	0	0	0	0	0	0	0	0
727	0	0	0	0	0	0	0	0

ANNEXURE 6. MINUTES OF MEETING WITH CENSUS DIRECTOR

Meeting with Director of Census Department

From:	SAVI Arun
Sent:	Tuesday, December 5, 2023 10:30 AM
To:	albert@cumta.in; poonam@cumta.in; Member-Secretary CUMTA
Cc:	trp.cumta@gmail.com; rassvi19@gmail.com; MALHOTRA Ankush; KUMAR B Praveen; GOTTUMUKKALA Sekhar; JACOB Amal
Subject:	CUMTA Chennai CMP Project | Main Discussion Points of meeting held with Director Census and other members

Dear Sir/Madam,

CUMTA and SYSTRA officials attended the meeting conducted by the chairman of the CMDAs Population committee (Director, Census). The meeting was attended by Consultants (M/s LASA) preparing the CMDAs Master Plan Vision document and other members of Census attended the meeting. Following were the main points of discussion.

1) old CMA (1189 Sq.km): The population projection as per **Least Square method** is finalized and for CMP, CUMTA shall adopt the population estimates done by CMDA.
2) Extended area (4715 Sq.km): SYSTRA explained the population estimates by 5 different methods and recommended Least square method for extended area. For this the members of the committee suggested that the same shall be recommended to CMDA extended committee. It was also discussed that, as there was not much difference between least square method and arithmetic method and the decadal trend was also observed to uniform (due to its rural character). So overall, the least square method was found to be more suitable by the members for the extended area during the discussions.
3) Regarding validation of old CMA population (1189 Sq.Km): CUMTA suggested validation pf population estimates through a local parameter such as PDS data, Property tax, Aadhar, or any other possible data. For this the director agreed and requested LASA to do validation based on any of the identified local parameter. Regarding PDS data, all the members and Director insisted not to rely due to database reliability issues.

This is for your kind records please.

Thanks & Regards,

Arun Savi

ANNEXURE 7. MINUTES OF MULTIPLE MEETINGS WITH CMDA & CUMTA

From: Member Secretary CUMTA <mscumta@gmail.com>
Sent: Monday, January 8, 2024 1:24 PM
To: TAGORE M.R.; MALHOTRA Ankush; SAVI Arun; Rassvi19; GOTTUMUKKALA Sekhar; JACOB Amal; KUMAR B Praveen
Cc: Jeyakumar Iyamperumal; Vignesh Tamilvanan; Akila Shanmugaraj; Albert; Velmurugan; Jonathan Praveen Kumar; Sathiya; Poonam Sabikhi; bosgo@cumta.in; Arun
Subject: Discussion Points/CMP Review Meeting held on 05.01.2024

Dear Systra Team,

Please find below the points discussed during the review meeting held on 05.01.2024 for necessary action:

1. Systra presented the status of the surveys being undertaken. CUMTA suggested to mention percentage of completion of relevant surveys. Also it was suggested to split the "Establishment Survey" into freight and other establishments and mention the sample.
2. Kilambakkam bus terminal to be included in the terminal surveys and the survey can be undertaken post pongal holidays.
3. CUMTA highlighted that HH survey location analysis shows clustered points and suggested to the Systra team to review the samples collated and rectify the data. The survey samples should be disaggregated and the samples in few of the zones to be recollected for proper distribution. It was also suggested that Systra should utilize more resources for the HH survey to expedite the completion.
4. Systra team to share an update on the RWAs approached for the survey and the samples that have been collected from respective RWAs. CUMTA has shared list of RWAs along with the contact details. Subsequently CUMTA will interact with all the survey agencies for the RWA meeting.
5. Regarding Land Use map, it was informed that CUMTA will share TANGEDCO EB service connection typologies and Systra shall prepare the land use map for the extended area with assistance from CUMTA.
6. Systra shall connect with CityData for Big data engagement and share a sample on the Chennai dataset with CUMTA. It was also informed that discussion with Google on bigdata is scheduled on 12-01-2024 11:30 AM - 12:00 PM and the Systra team shall join for the same. Systra to share agenda for this discussion in consultation with CUMTA by 10.01.2024.
7. Systra to share GIS Road network based on admin jurisdiction, ownership, urban hierarchy and rural hierarchy by 10.01.2024
8. Interim Report 1 to be revised for core area with all the survey data except HH survey and resubmit the report by 22.04.2023.
9. Systra team shall submit the timeline of the upcoming deliverables along with survey completion details, analysis and travel demand model details. It was also suggested to submit the action plan for stakeholder and public consultations along with the details of the participants and tentative timeline by 12.01.2024.
10. Urban Mobility Flood resilience analysis to be included in the CMP study. Recent Dec, 2023 flood and 2015 flood related data to be analyzed and results to be incorporated in the proposals. Data from IIT, OSM (crowdsourcing) and CMDA study to be used for the analysis.
11. Regarding the Population Projection in the Extended CMA, Least Square Method shall be adopted as discussed during the meeting held with Census Dept. Director held on 29th

1

November 2023. For the Core CMA (1189 sq. Km) the projection to be adopted from Third Master Plan visioning study of CMDA.

12. Systra to study the feasibility of proposals such as Metro extension upto Ennore line, Rope car from OMR to ECR for last mile connectivity to phase II metro, road links between ECR and OMR connectivity as part of CMP recommendation.

Kindly submit the respective documents as discussed during the meeting within the agreed timeframe.

Regards
CUMTA

ANNEXURE 8. REGIONAL SETTING AND ADMINISTRATIVE DIVISIONS

Regional Setting

The CMA is the major economic hub in the South and eastern coast of India. The expanded CMA falls in five Districts of the Tamil Nadu State viz. Chennai District, parts of Thiruvallur District, Kancheepuram District, Chengalpattu District, and part of Arakkonam Taluk of Ranipet District.

Prime radial network comprises 4 major National highways connecting hinterland locations like Coimbatore, Bangalore, Hyderabad, Pondicherry etc. National Highways that converge and run through the city, viz., the NH 48(4), NH16 (5) & NH32 (45) connects the port to Inland Container Depots like ICD Tondiarpet (10kms), ICD Irungattukottai (35Kms), ICD Whitefield / Bangalore (345Kms) and beyond. Four (4) National Highways NH205 along with other NH radiate toward Kolkata, Bengaluru, Tiruchirappalli, and Madanapalli from Chennai. The CMA (old CMA and Expanded CMA) and the major cities in the proximity having higher interaction is provided below

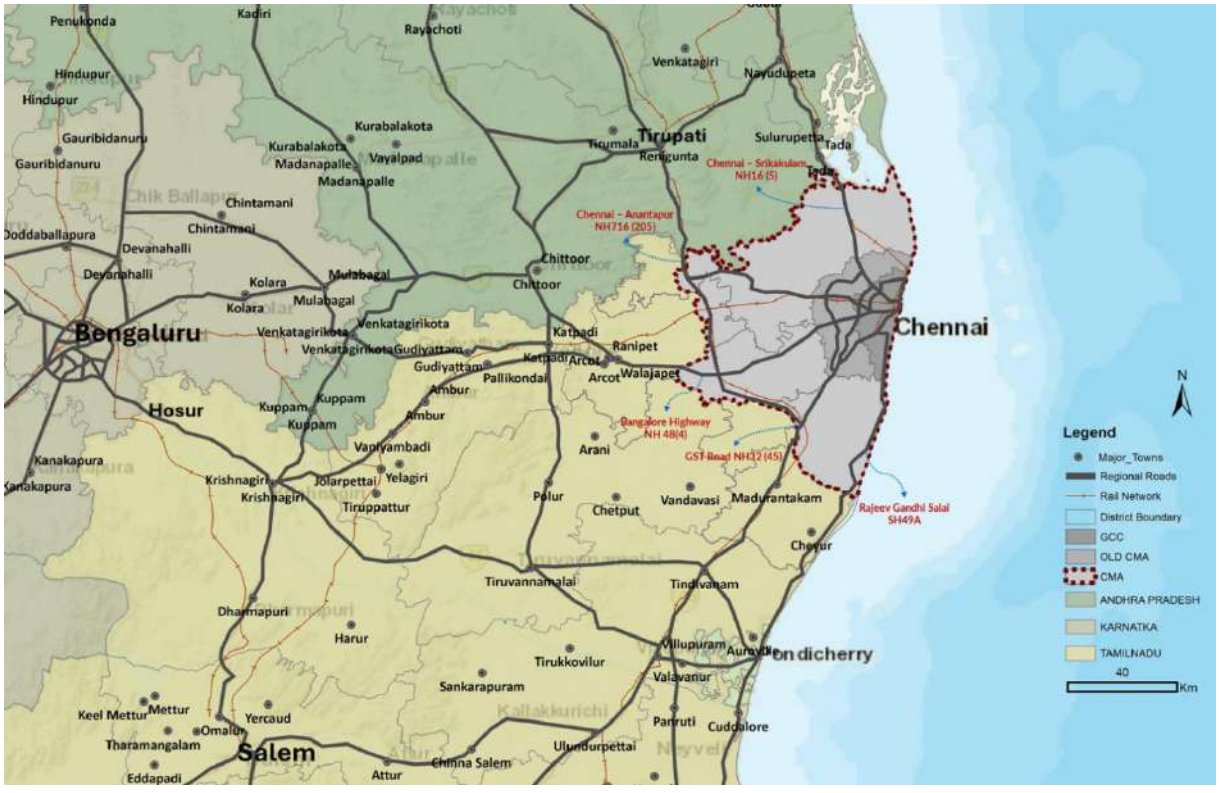


Figure 2: Study Area in the Regional Context

The main purpose and reason for interaction with major cities differ such as from CMA to Bengaluru, it is mainly due to work (IT hub) and major goods movement corridor. The interaction with Tirupati (in Andhra Pradesh) is mainly due to religious purposes, with Sri City in Andhra Pradesh is mainly due to industrial and logistics, to Puducherry is mainly due to work and tourism etc. So, to position CMA within the region and the character in the regional setting is important.

Chennai Metropolitan Area (CMA)

CMA currently spans 5,904 Sq.km, comprising Chennai, and parts of Kanchipuram, Chengalpattu, Tiruvallur, and Ranipet Districts.

Table 17: Chennai Metropolitan Area (CMA) Administrative Area

District name	Total area (sq. km.)	Total population (2011)	Area in CMA (sq. km.)	% of district area in CMA
Chennai	426	46,46,732	426	100%
Thiruvallur	3423	37,28,104	2807	86%
Kancheepuram	1448	11,56,680	779	64%
Chengalpattu	2945	19,48,017	1390	52%
Ranipet	2234	12,10,277	502	29%
Total Area in CMA			5904	

The administrative divisions are provided in the table below:

Table 18: Administrative Divisions in Chennai Metropolitan Area (CMA

Divisions in CMA	Nos.
Corporations	4
Municipalities	12
Town Panchayats	13
Special Grade TP	1
Panchayat Union	22

ANNEXURE 9. POPULATION DISTRIBUTION STRATEGY

The population strategies have been prepared based on the projections provided by CMDA for the old CMA and Consultants projection for expanded CMA. The population growth pattern is based on the existing and proposed land use based on certain scenarios for mobility enhancement. Differential Population growth rates in certain areas have been considered due to committed developments such as New Town developments, development of dense mobility corridors, policy interventions (industrial policy, Climate Action plans) etc., integrated land use transport strategy.

Three different population growth strategies have been considered. These are: -

1. Business as Usual (P1)
2. Densification of Mobility Corridors (P2)
3. Poly Nucleic Development (P3)

P1: Business As Usual (BAU) Strategy

In this strategy, Population distribution is done based on the CMDA's population projection for the old CMA. The municipal corporation is proposed with annual growth rate of 1.9% with maximum distribution within Avadi and Tambaram municipal corporations (~4.2% and 4.13% respectively). As per the CMDA, higher population growth rates have been considered in Mangadu, Kundrathur, Poonamallee, Thiruverkadu and Thiruninravur municipalities with CAGR of 6%.

In the expanded CMA, the population growth is higher in the existing municipalities and major towns such as Kancheepuram, Thiruvallur, Arakonam, Tirutani, Chengalpetu, and Mamalapuram, while the Panchayat Unions and village panchayats shall have lower growth rates. The same trend was followed ULB-wise for population distribution.

The population density achieved based on the BAU scenario for the base year and the horizon year is provided in the figures below.

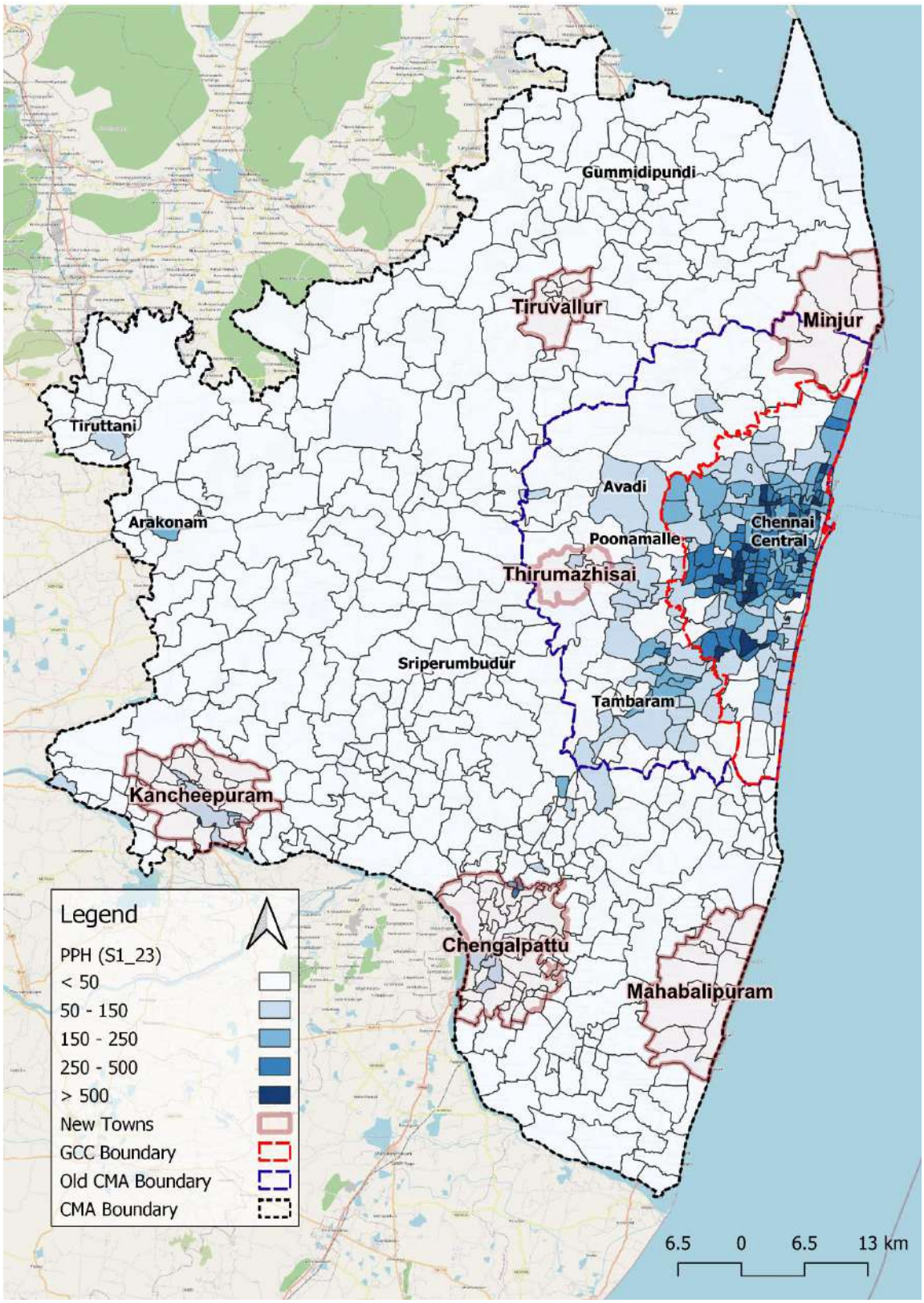


Figure 3 BAU Scenario TAZ-wise Population distribution and achieved density - 2023

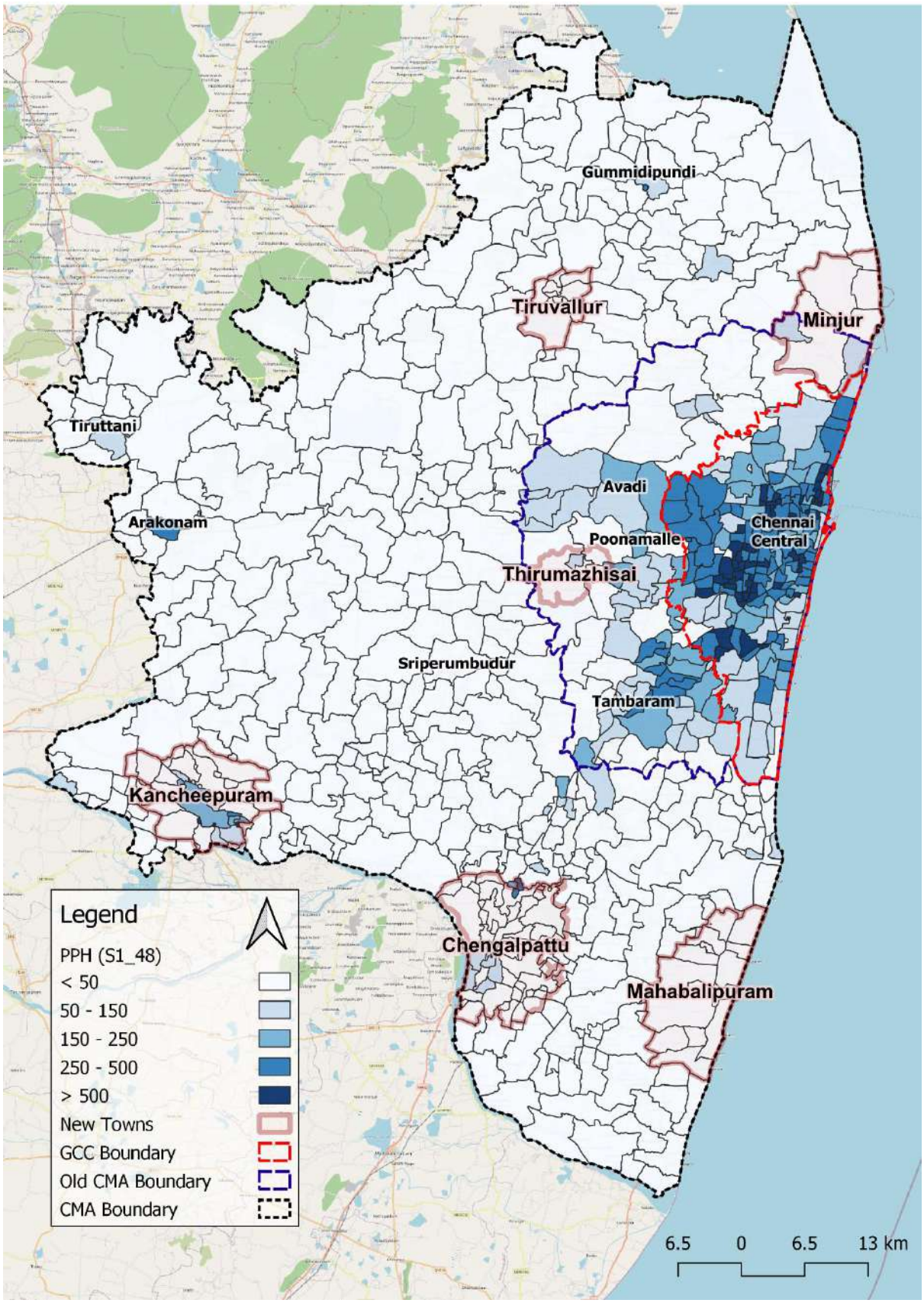


Figure 4 BAU Scenario TAZ-wise Population distribution and achieved density – 2048

From the above figures it is observed that zones in GCC will have density close to 300 ppha and in expanded CMA, the proposed new town areas will have density close to 150 ppha in the BAU scenario.

P2: Densification of Corridors Strategy

In this strategy, higher population growth is assumed along the major identified corridors such as the GST Road, NH-4 Chennai Bangalore highway, GNT road along the northern side, Chennai -Arakonam-Tirutani road and OMR stretch in old CMA (Siruseri, Kelambakkam etc.) due to proposed densification notified by the GoTN. In expanded CMA, TOD zones/buffers are proposed along the main metro and sub-urban corridors after every 10 km through re-densification of existing (brownfield) residential areas with increasing FAR. The panchayat unions and village panchayats falling within the TOD zones shall be densified with higher growth rate with new green field residential developments.

The scenario with population distribution and the respective density is provided in the figure below:

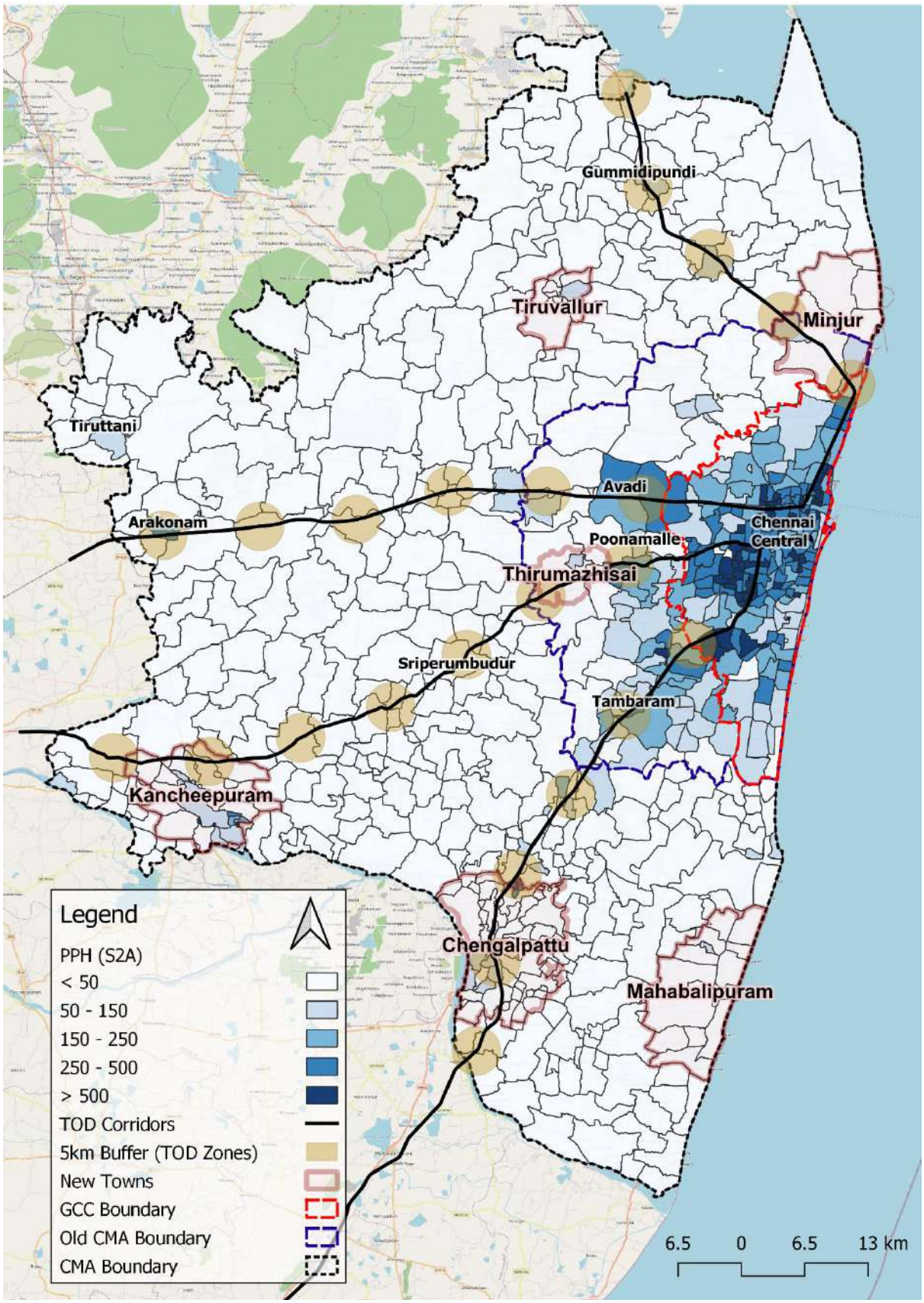


Figure 5 Scenario P2: TAZ-wise Population distribution and achieved density – 2048

P3: Poly Nucleic Development

Multi city strategy emphasizes on the development of another cities (sub-city) in the northern, southern and western direction of the old CMA. The new towns shall be developed which are self-contained with higher densities around proposed nucleus. The population density shall be based on area availability and type of infrastructure provisions. The infrastructure provisions shall be similar to that of the old CMA in terms of qualitative and quantitative aspects so that the existing dependency with the old CMA is reduced. The corridors connecting the above New Towns with old CMA are proposed for medium density population distribution. So, the new Growth centres proposed are the CMDA's Proposed New Towns – Kancheepuram, Chengalpetu, Mahabalipuram, Minjur, Thiruvallur and Thirumazhai. The scenario with population distribution and the respective density is provided in the figure below: -

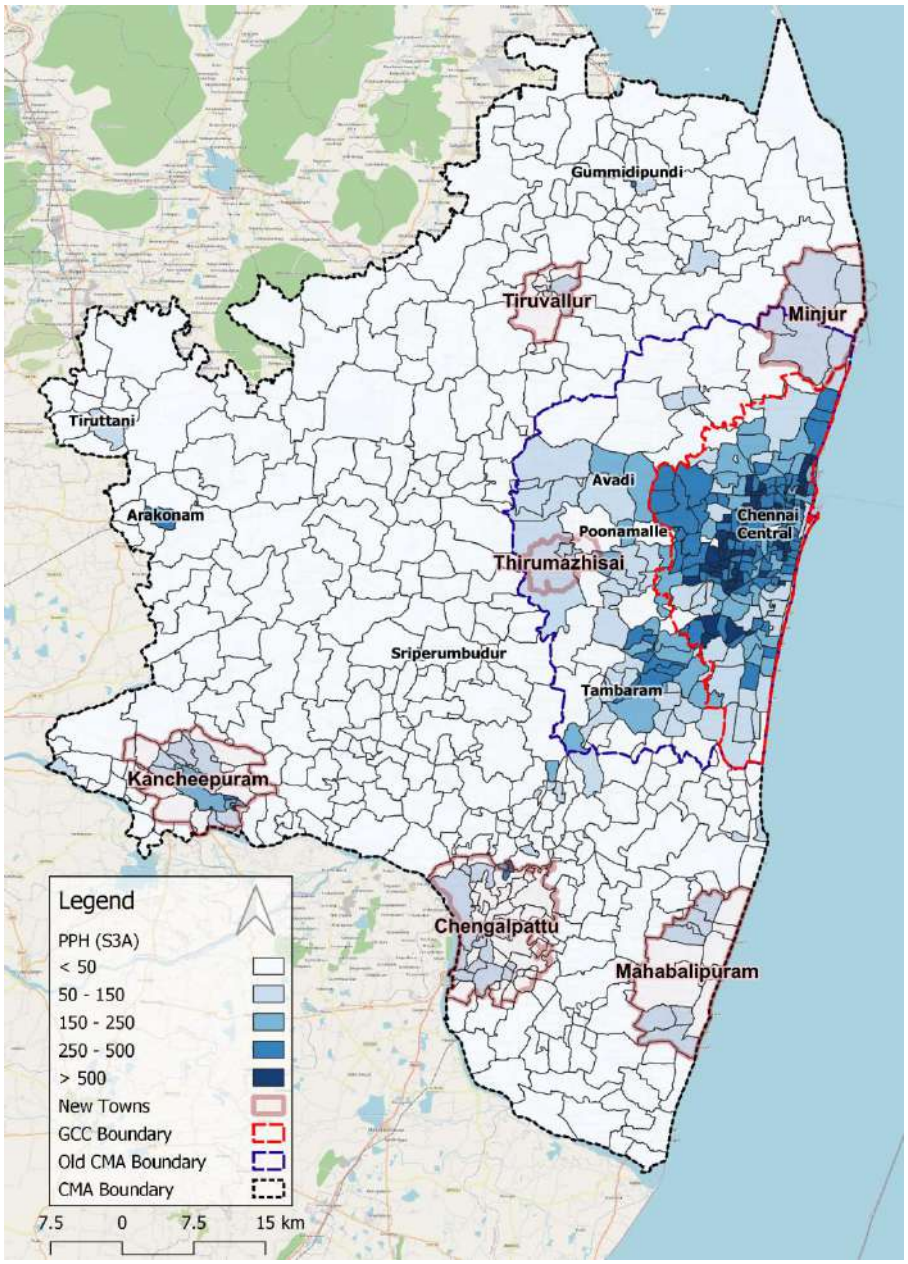


Figure 6 Scenario P3: TAZ-wise Population distribution and achieved density – 2048

The summary of Population Distribution Strategy is provided in the figure and table below:

Table 19 Summary of Population Distribution Strategy

ULB Type	Population			Population Growth rates (in %)			Density (PPH)		
	P1	P2	P3	P1	P2	P3	P1	P2	P3
Corporation	9103482	8832433	7830774	1.21%	0.95%	0.61%	300	292	259
Municipality	672511	606741	578488	2.07%	1.69%	1.46%	92	84	80
Panchayat Union	5745891	6243706	6546086	1.48%	1.69%	1.75%	72	78	82
Town Panchayat	62793	67744	54015	1.12%	0.61%	0.51%	63	60	55
Total (Old CMA)	15584677	15750624	15009362	1.32%	1.18%	0.97%	132	129	119
Corporation	506541	404077	437242	1.29%	0.70%	0.73%	112	89	97
Municipality	628164	602377	540905	1.55%	1.32%	0.97%	58	55	50
Panchayat Union	3332777	3269841	4033769	1.12%	0.86%	1.18%	7	7	9
Town Panchayat	250826	276067	281706	0.89%	0.69%	1.80%	19	21	21
Total (Expanded CMA)	4718308	4552362	5293623	1.21%	0.89%	1.17%	49	43	44
Grand Total (CMA)	20302985	20302985	20302985	1.26%	1.04%	1.07%	90	86	82

From the above table, it is observed that population is distributed in the expanded area due to poly-nucleic development and in densification scenario, the population is distributed in old CMA (outside GCC) due to presence more corridors in old CMA.

ANNEXURE 10. EMPLOYMENT DISTRIBUTION STRATEGY

The employment strategies broadly follow the above three strategies for population distribution. It is assumed that ratio of employment in formal and informal sectors in the horizon years may follow a similar trend as in the present scenario. New activity developments resulting in additional employment opportunities in certain areas due to proposed land use and committed projects have been included in these development strategies.

E1: Business-As-usual (BAU [Do Nothing situation]

The BAU approach represents a scenario without any significant policy or new industrial interventions by the government. In this strategy, employment opportunities will witness natural existing trends and projections within the existing activity centre, such as the core Chennai City area, and in the existing industrial areas of Sriperumbudur, Oragadam, Gummidipoondi, etc.

Based on the existing employment density, the additional employment was distributed to the same or nearby zones in proximity to the existing industrial estate zones. Following this, the employment data for the year 2023 has been updated using the data received from TANSIDCO and SIIPCOT in the respective zones (TAZ), ensuring that the projections are based on current and accurate information.

The schematic representation of the BAU strategy has been presented in figure below:

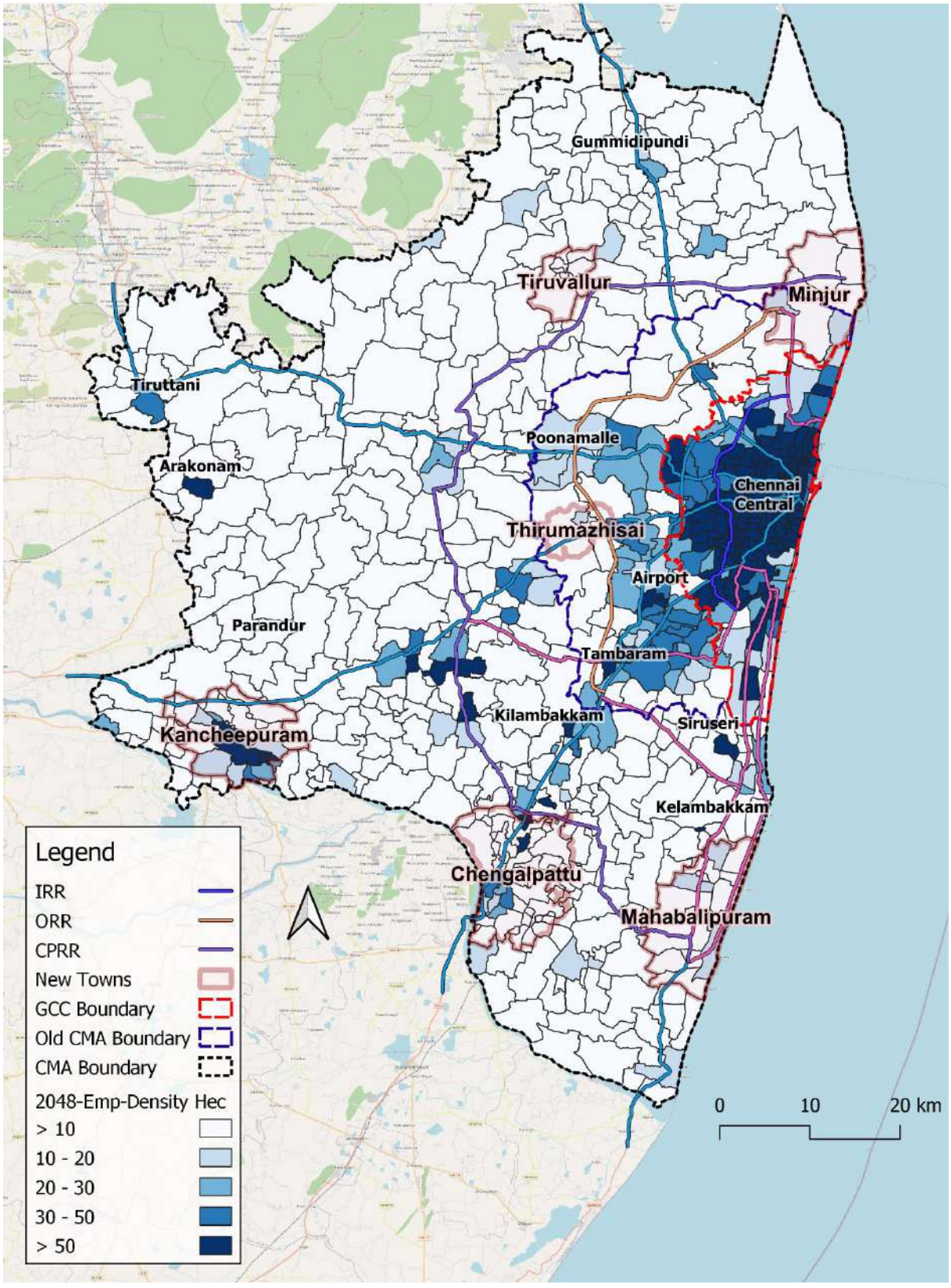


Figure 7 TAZ wise Employment distribution based on BAU Scenario (2048)

It is observed that areas like Gummidipoondi, Tiruvallur, Sriperumbudur, Kancheepuram in the expanded CMA and peripheral areas of old CMA have seen growth in the horizon year (2048) as shown in the comparison (2023 - 2048) figure below.

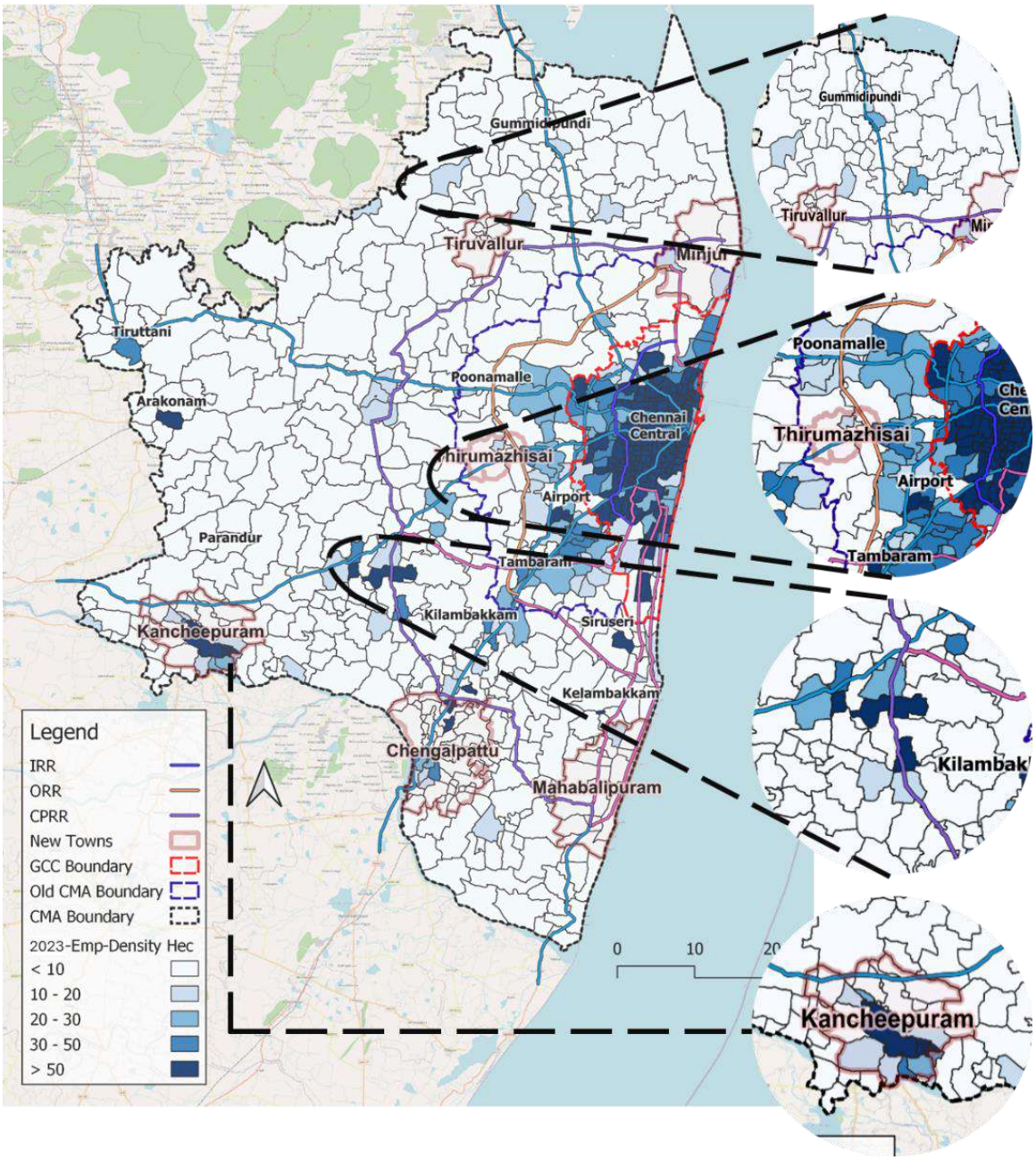


Figure 8 Base year (2023) Employment Density compared with BAU horizon year (2048)

E2: Poly-Nuclei Development Strategy

As the industrial policy specifies for multi-nuclei structure strategy, the same has been followed for this study for employment distribution.

The GoTN has also prepared the Tamil Nadu Export Promotion Strategy 2021 with the goal of increasing exports from Tamil Nadu to USD 100 billion by 2030 from USD 26 billion in 2021. In this context, the State has identified champion sectors to promote exports including Textile & Apparel, Food Processing, Auto & Auto Components, Leather & Footwear, Electronics, and Machinery.

The vision of Tamil Nadu Logistics Policy 2023 is "To promote an integrated, reliable, cost-efficient and sustainable logistics system in the State of Tamil Nadu for enhanced competitiveness and fast-tracked economic development of the State." The proposed

infrastructure developments for enhanced futuristic logistic development for the CMA Study area have been presented in the following figure. The Tamil Nadu Integrated Logistics Plan (TNILP), 2023, includes a strategic plan for the next 10 years, outlining interventions, their outcomes, timelines, and key stakeholders responsible for their implementation. The proposed developments for the Integrated Logistic Plan for the Chennai CMP Study Area are given in the figure below.

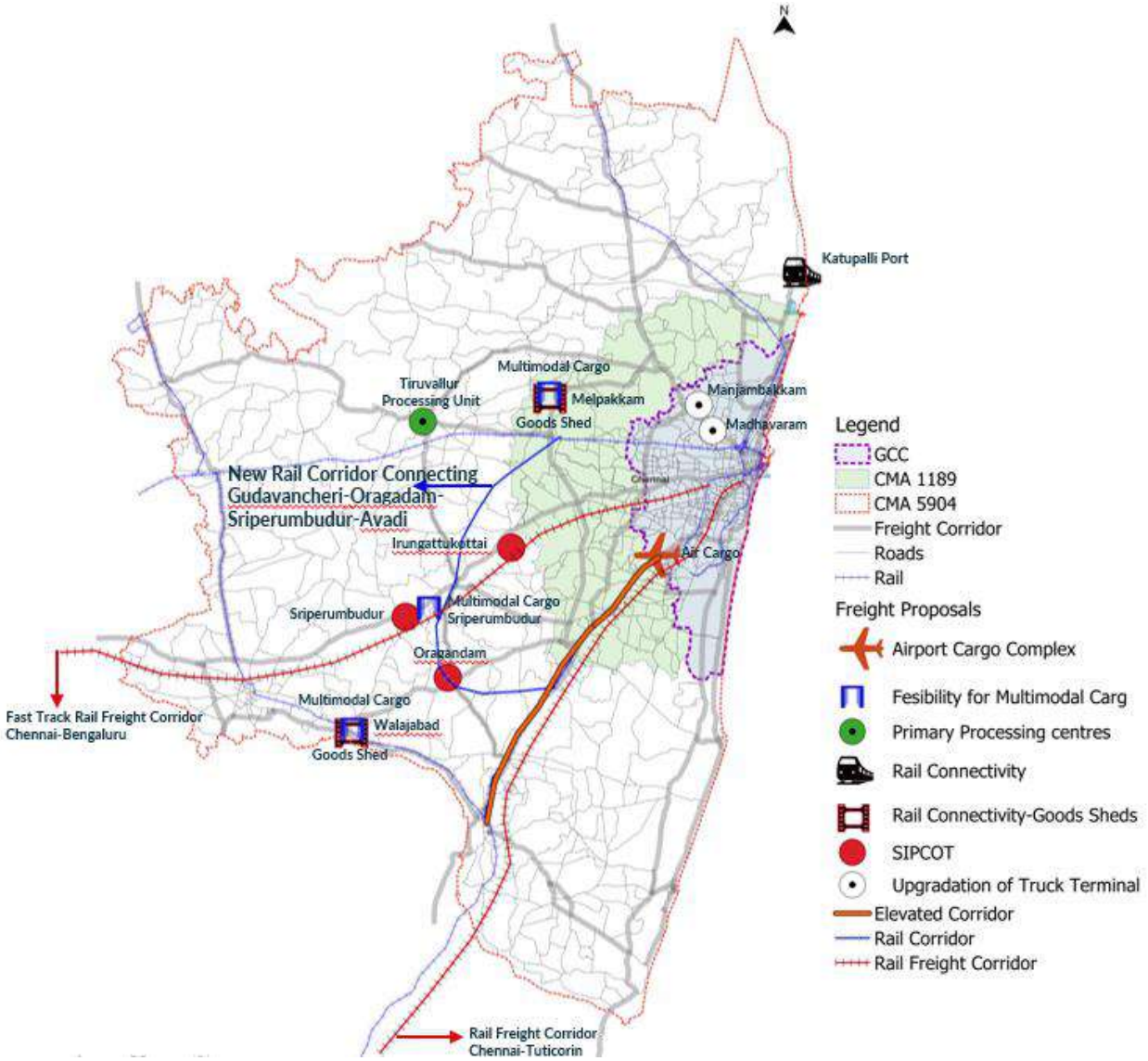


Figure 9 Proposed Developments for Integrated Logistic Plan for CMA

Source: Tamil Nadu Logistics Policy & Integrated logistics Plan -2023

Other proposals as per the document have been listed below: -

- Greater Chennai Corporation Logistics Master Plan for Chennai to focus on
  - Storage/ consolidation /distribution centres
  - Fulfilment centres for e-commerce
  - Bypass/Ring Road
  - Common user parcel delivery terminal
  - Parking & unloading zones.
  - Charging infrastructure along priority corridors

- Container Rail services from Chennai to Ahmedabad for market development
- Coastal shipping route: RO-RO Automobile movement between Chennai & Mumbai
- EXIM Corridor Hosur to Chennai
- Feasibility for 2nd Airport Cargo Complex.

Further, a Feasibility cum DPR study has been completed for a Multi Modal Logistics Park (MMLP) of 159 acres, located in Mappedu, District-Tiruvallur.

Also, as per Strategic Plan for Infrastructure Development Tamil Nadu the following projects are mentioned.

- Green field Airport complex at Parandur equipped to handle 40 million passengers.
- High speed passenger rail link connecting Chennai, Bangalore, Coimbatore, Madurai and Kanyakumari.
- Enhancement of 2000 km of roads into of 6/8 lane Expressway corridors between Chennai and major towns. Ie Chengalpattu to Tiruttani and Chennai to Ranipet.

In this strategy, employment distribution aims to redistribute employment within the expanded CMA by increasing the density of newly proposed zones while adjusting the density of adjacent and existing densified zones in the core area. The strategy is based on the assumption that with policy interventions, such as land use policy changes, a significant portion of new employment opportunities will be primarily within the expanded CMA as shown in the below table:

Table 20 Employment for E2: Poly-Nuclei Development Strategy

Total Employment			
Horizon Years	Old CMA	Expanded CMA	Total Employment
2024	3,943,745	1,843,723	5,789,492
2048	4,525,010	2,728,962	7,253,972

The primary industrial clusters identified for this strategy are Oragadam, Sriperumbudur, and Arakkonam on the southern and western sides of the CMA, and Manali in the northern part. By distributing employment to these new zones, the strategy seeks to improve the over-concentration of employment in the city centre and promote a more balanced regional development as shown in the below figure.

The over concentration of employment at the city centre will be reduced as per the strategy.

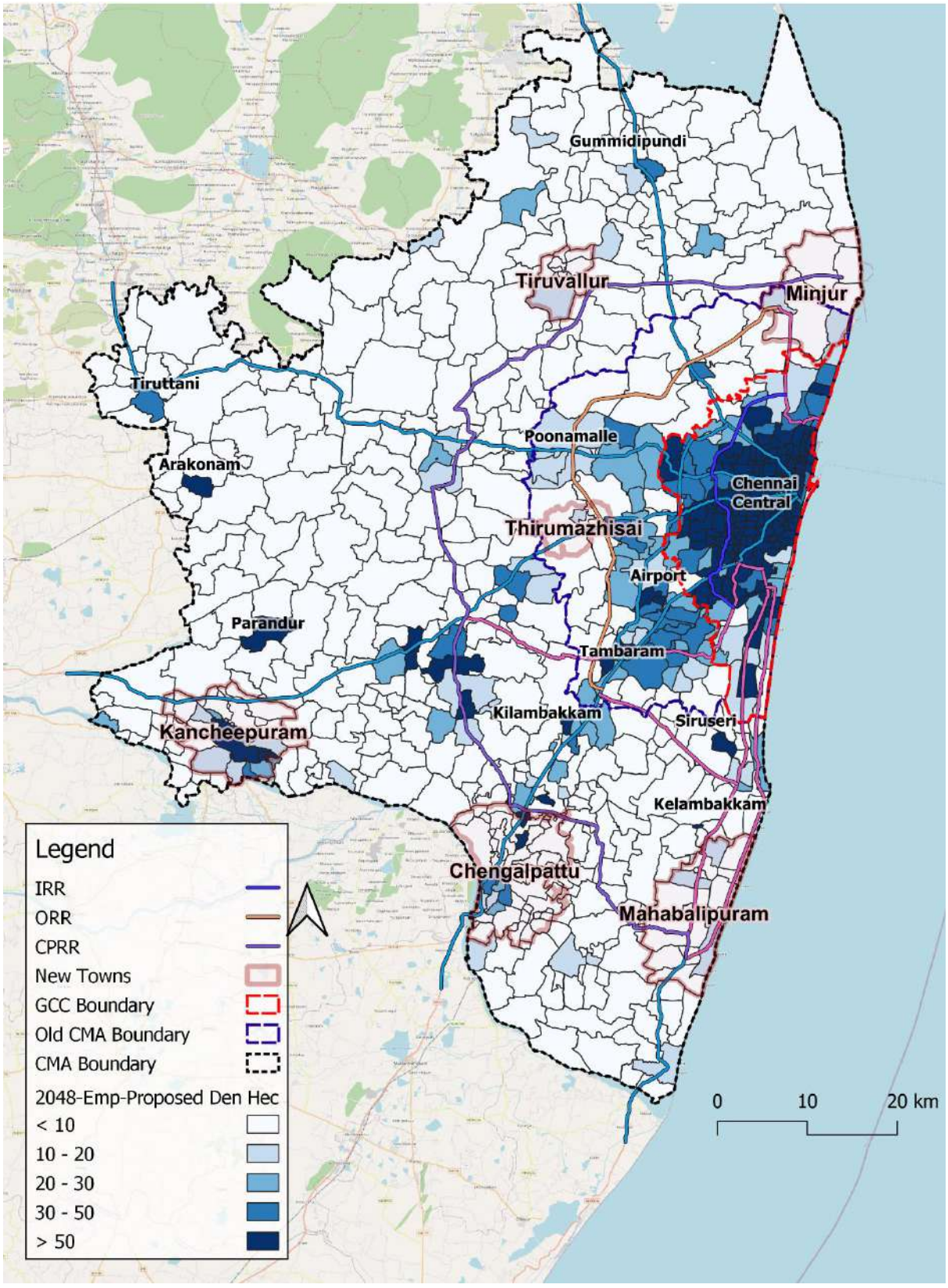


Figure 10 TAZ-wise Employment distribution - Poly-Nucleic Development Scenario (2048)

It is observed that areas like Mahabalipuram, Sriperumbudur, Arakkonam, Oragadam, Manali in the expanded CMA have seen significant growth in the horizon year (2048) as shown in the comparison (2023 - 2048) figure below.

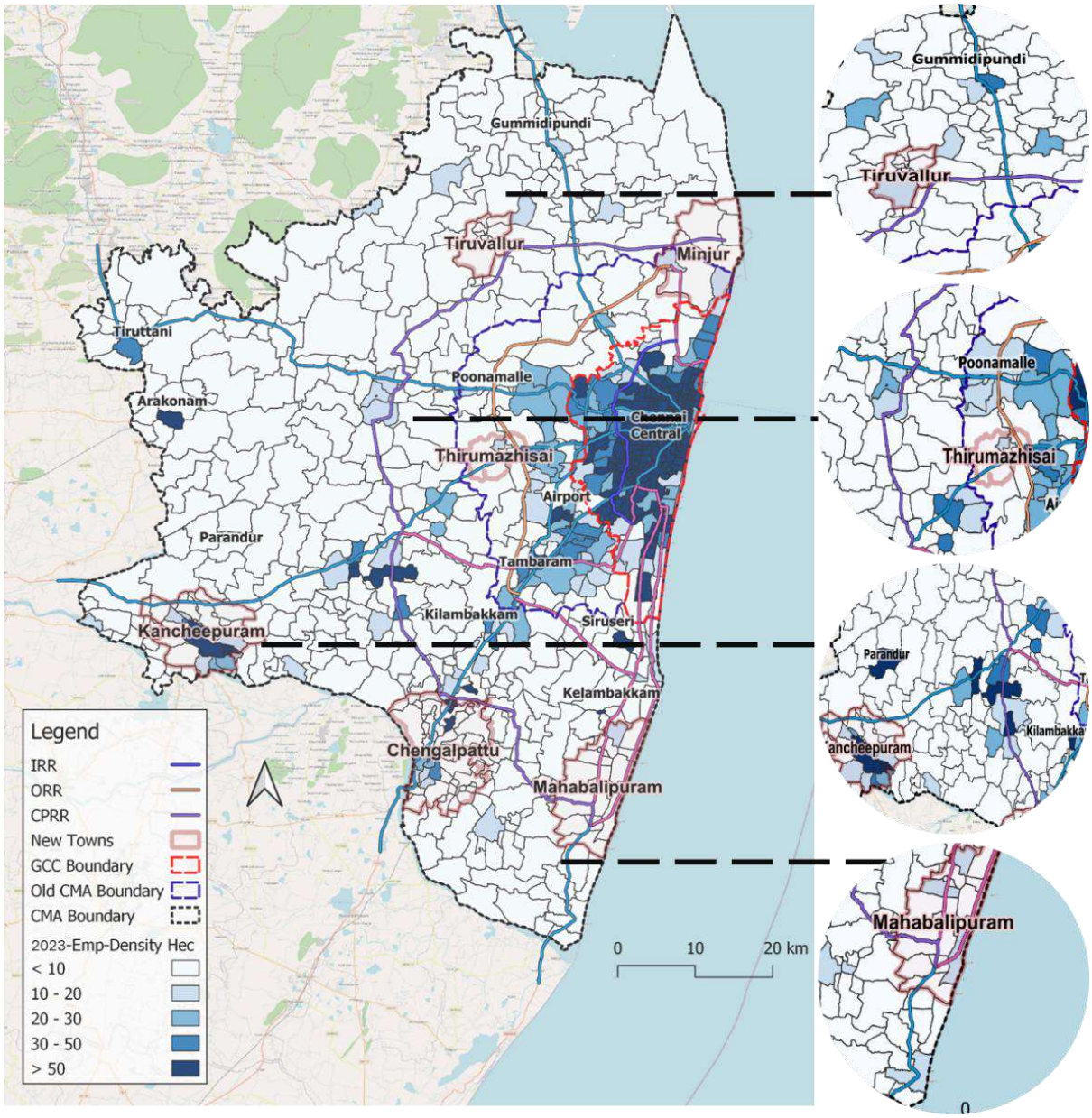


Figure 11 Employment Density compared with E2-2048

ANNEXURE 11. ROAD PROPOSALS FROM SECOND MASTER PLAN

List of Roads requiring advanced action to acquire land to maintain the street alignment prescribed in the proposed Third Master Plan

Sl.No	Name of the Road	Stretch		Target Right of way (m)
		From	To	
A	***ROADS OWNED BY CoC***			
1	M.S.Koil Street,* Suriyanarayana Road *	Ebrahim Sahib Street	City Limits	30.0
2	Thambu St (Royapuram)	East Kalmanda- pam Road	Sheik Mastry St.	30.0
3	Kathivakkam High Road *	Cochrane Basin Road	City Limits	30.0
4	Moolakkadai- Thondiarpet Road	G.N.T. Road	B'canal	30.0
5	Madhavaram High Road	Melpatti Ponnappa Street	GNT Road	24.0
6	Paper Mills Road	Siruvallur Road Junction at Perambur High Road	City Limits	18.0
7	Konnur High Road	Medavakkam Tank Road	Its junction with New Avadi Road	30.0
8	New Avadi Road	Kilpauk Water works	Its junction with Konnur High Road	30.0
9	New Link Road *	New Avadi Road	Medavakkam Tank Road	24.0
10	New Avadi Road	Periyar EVR Salai	Kilpauk Water works	18.0
11	Kilpauk Garden Road	Taylors Road	Anna Nagar 1st Main Road	18.0
12	Thiru Narayana Guru Road (Hunters Road & Choolai High Road)	Perambur Barracks Road	Sydenhams Road (Rajamuthiah Road)	24.0
13	Nelson Manickam Road	Periyar EVR Salai	Tank Bund Road	18.0
14	Tank Bund Road	Nelson Manickam Road (junction of Sterling Road)	Valluvar Kottam	18.0
15	Village Road (Valluvar Kottam Road)	Kodambakkam High Road	Nungambakkam High Road	30.0
16	Uthamar Gandhi Salai (Nungambakkam High Road)	Anna Salai	Sterling Road	30.0
17	Greams Road *	Anna Salai	Pantheon Road	18.0
18	Ethiraj Salai (Commander-in-Chief Road)	Pantheon Road	Cooum River	18.0
19	Dr.Radhakrishnan Salai (Cathedral Road) *	Anna Salai	Music Academy	30.0

20	Eldams Road *	Anna Salai	TTK Road	18.0
21	TTK Road	Chamiers Road Junction	Alwarpet Junction	18.0
22	Pasumpon Muthu Ramalinga Thevar Road (Greenways Road)	Durgabai Deshmuk Road	MRTS alignment	30.0
23	Sardar Patel Road	Anna Salai	Madya Kailash (I.T. Expressway)	30.0
24	Dr.Muthulakshmi Salai (L.B.Road)	M.G. Road	City Limits	30.0
25	West Avenue Road	L.B. Road	East Coast Road (MTC terminus)	30.0
26	Nandambakkam – Nesapakkam Road (Lake View Road and its extension Kanu Nagar Main Road)	Anna Road Junction near CMWSSB Plant	Adayar River (City Limits)	18.0
27	Ramapuram – Neasppakkam Road (Kamarajar Salai)	Nandambakkam – Nesapakkam Road	City Limits	18.0
28	Vanniar Street	Rajamannar Salai	Arcot Road	18.0
29	Arcot Road	Railway line	City limit	30.0
30	Nesapakkam Road	Arcot Road	Reddy Street	24.0
31	Nesapakkam Road	Reddy Street	CMWSSB Sewage Farm (southern end)	24.0
32	Nesapakkam Road	CMWSSB Sewage Farm (southern end)	Jawaharlal Nehru Salai (IRR)	30.0

Sl.No	Name of the Road	Stretch		Right of Way(M)
		From	To	
B	***ROAD OWNED BY DoH***			
1	Ennore Expressway	City Limits	Kathivakkam High Road junction near Ennore creek	45
2	Thiruvottiyur High Road	City Limits	Manali Expressway	30
3	Manali Expressway	TPP Road	Ennore Expressway	60
4	Vallur- Edayanchavadi Road	Edayanchavadi – Athipattu Road	TPP Road	24
5	TPP Road	Kamaraj Salai junction (near Organic Chemicals)	CMA Limits	36
6	Kattur Road	TPP Road	CMA Limits	36
7	Kathivakkam High Road – Basin Road- Manali Road	City Limits	Kamaraj Salai junction (near Organic Chemicals)	30
8	Kodungaiyur – Chinnasekkadu Road (New Link)	City Limits	Kamaraj Salai	30
9	Vichoor – Vilangadupakkam Road	Nayaru – Vichoor Road	Vadaperumbakkam - Perungavur Road	30
10	Kadapakkam -Vichoor – Nayaru Road	TPP Road	Nayaru Junction	45
11	Karanodai –Nayaru Road	GNT Road	Nayaru Junction	30
12	Vadaperumbakkam – Perungavur –Nayaru Road	Madhavaram - Red Hills Road	Nayaru Junction	30
13	Sholavaram – Budur - Thirunilai Road	GNT Road	Nayaru – Vichoor Road	30
14	Redhills - Budur Road	GNT Road	Sholavaram - Thirunilai Road	30
15	Karanodai Palaya Erumeivettipalayam Road	GNT Road	Palaya Erumai vettipalayam	24
16	GNT Road (through Bypass Road)	City Limits	CMA Limits	45
17	Madhavaram-RedHills Road	GNT Road at Moolakadai	Red Hills Bypass Road	36
18	Madhavaram High Road	City Limits	GNT Road at Moolakadai	36
19	Sembium – Red Hills Road (Extension of PaperMills Road)	City Limits	GNT Road	45
20	NH Bypass Road	GWT Road	GNT Road	60
21	Ambattur Red Hills Road	CTH Road	GNT Road	36

22	CTH Road	City Limits (Jawaharlal Nehru Salai) (IRR)	CMA Limits	45
23	Avadi-Morai Road	CTH Road	CMA Limits	36
24	Vellanur-Pammadukulam Road	Avadi-Morai Road	ORR	24
25	Pandeswaram - Keelakondaiyur Road	Avadi _ Morai Road	Thiruninravur – Periyapalayam Road	24
26	Morai -KadavurRoad	Morai junction	Kadavur junction	24
27	Thandarai – Palavedu Road	CTH Road	Thiruninravur-Periyapalayam Road	24
28	Thiruninravur Periyapalayam Road	CTH Road	CMA Limits	24
29	Korattur - Thiruninravur Road	Poonamallee - Thirumazhisai - Thiruvallur Road	CTH Road	24
30	Poonamallee - Thirumazhisai - Thiruvallur Road	GWT Road	CMA Limits	24
31	Kuthambakkam - Nemam Road	GWT Road	Poonamallee - Thirumazhisai - Thiruvallur Road	36
32	Poonamallee – Pattabiram Road	Poonamallee Bypass Road	CTH Road	45
33	Poonamallee –Avadi Road	Poonamallee Bypass Road	CTH Road	45
34	Proposed East-west arterial Road	Chennai Bypass Road at Ambattur Estate	ORR	60
35	Vanagaram –Ambattur Road	GWT Road	Arterial Road at Athipattu	36
36	GWT Road (through Bypass Road)	City Limits	CMA Limits	45
37	Poonamallee High Road	Mangadu Road junction	Poonamallee Bypass road junction	36
38	Mount Poonamallee Road	Kathipara	western boundary of St.Thomas Mt.Contonment	24
		western boundary of St.Thomas Mt.Contonment	Porur jn.	36
		Porur jn.	Poonamallee High Road	36
39	Mangadu Road	Mount Poonamallee Road	Porur - Kunrathur Road	24
40	Mangadu- Moulivakkam Road	Mangadu Road	Porur - Kunrathur Road	24
41	Porur – Kunrathur Road	Porur Junction	CMA Limits	36
42	Arcot Road	City limits	Porur Junction	30

43	Maduravoyal -Porur Road	GWT Road	Arcot Road	24
44	Ramapuram – Valasarawakkam Road	Mount- Poonamallee Road at Manapakkam	Arcot Road @ Valasarawakkam	24
45	Anna Salai, Kuppusamy St, Naidu St, Bharathi Salai, Kamaraj Salai	City Limits	Arcot Road (near ARS Garden)	24
46	Nandambakkam Nesapakkam Road	Mount Poonamallee Road	City Limits	30
47	GST Road	City Limits	CMA Limits	45
48	Pallavaram – Kundrathur Road	GST Road	Porur - Kunrathur Road	36
49	Pammal – Polichalur Road	Pallavaram – Anakaputhur Road	Polichalur	24
50	Pallavaram – Thiruneermalai – Thirumudivakkam Road	GST Road	ORR	30
51	Thirumudivakkam – Kunrathur Road	Pallavaram – Thirumudivakkam Road	Porur - Kunrathur Road	30
52	Tambaram – Thiruneermalai Road	Tambaram - Naduveerapattu Road	Thiruneermalai Road	36
53	Tambaram – Naduveerapattu Road	GST Road	Poonthandalam Road	30
54	Poonthandalam Road	Kundrathur Sriperumbudur Road	Naduveerapattu	30
55	Mudichur Road	GST Road	Vandalur – Padappai Road at Mannivakkam	36
56	Mudichur – Manimangalam Road	Mudichur Road	CMA Limits	36
57	Vandalur – Padappai Road	GST Road	CMA Limits	36
58	Kelambakkam Road	GST Road	CMA Limits	45
59	Tambaram Bypass Road (New Link)	GST Road	MBI Road	60
60	MBI Road	GST Road	Tambaram Bypass junction	45
61	MBI Road	Tambaram Bypass Junction	City Limits	45
62	Mount- Madipakkam Road	GST Road	MBI Road at Medavakkam	30
63	ORR South Eastern Segment (New Link)	MBI Road	Rajiv Gandhi Salai (OMR)	60
64	Extension of MMRD Scheme Road (New Link)	Rajiv Gandhi Salai (OMR)	ECR	45
65	ECR	City Limits	CMA Limits	36 / 45

66	Sholinganallur – Kudimiyandi Thoppu Road	Rajiv Gandhi Salai (OMR)	ECR	36
67	Medavakkam – Sholinganallur Road	MBI Road	Rajiv Gandhi Salai (OMR)	36
68	Sithalapakkam – Ottiyambakkam Road	Maduraipakkam Road	CMA Limits	30
69	Medavakkam- Maduraipakkam Road	MBI Road	CMA Limits	30
70	Vengaivasal – Madambakkam Road	MBI Road	Madambakkam Road	24
71	Madambakkam Road	MBI Road at Rajakilpakkam	Maduraipakkam Road at Sithalapakkam	24
72	Agaramthen Road	Madambakkam Road	Maduraipakkam Road at Kovilancheri	24
73	Rajiv Gandhi Salai (OMR)	Madya Kailash Junction	CMA Limits	45
74	Nookampalayam Road	Rajiv Gandhi Salai (OMR)	Semmancheri village limits in the west	24
75	East Coast Road	West Avenue Road (MTC Terminus)	City Limits	36
76	Taramani Road	Vijayanagar Junction	L.B. Road Junction	45
77	Perungudi Station Road (New link)	Taramani Road	Perungudi Station	24
78	Velachery Road	Vijayanagar Junction	City Limits	45
79	Velachery Byepass Road	Velachery Road Junction	Vijayanagar Junction	45
80	Velachery Road *	Sardar Patel Road	Byepass Junction	45
81	C.T.H. Road	New Avadi Road	Jawaharlal Nehru Salai (IRR) (City Limits)	36
82	Erukkancherry High Road (GNT Road)	Basin Bridge Road	City Limits	30
83	Periyar EVR Salai	Mc.Nichols Road	City Limits	36

Note: Road Widening, New Links and Street Alignment Proposal as listed in the CMP can be implemented through mechanism of TDR during planning permission / Compulsory acquisition or both.

ANNEXURE 12. JUNCTION IMPROVEMENT PROPOSAL

All proposed improvements will be as per IRC Guidelines and street design guidelines for CMA. The detailed list of identified junctions, along with proposed improvement measures proposed for each, is provided below:

Table 21: List of identified junctions

S. No.	Area	Location (Road Name)	Proposed Intervention	Phasing
1	Vivekananda Nagar Main road Junction	Inner Ring Road: SH 2	At-grade improvements	Short Term
2	Velachery - Tambaram Road (Camp Road jn- Velachery - Tambaram Main Road& Agaram Main Road)	Mamlong Bridge Irumbuiyur Road (MBI): SH 48	At-grade improvements	Short Term
3	Vadapalani (Arcot Road & IRR)	Inner Ring Road (IRR): SH 2	At-grade improvements	Short Term
4	Tirumangalam Junction	Inner Ring Road: SH 2	At-grade improvements	Short Term
5	Thousand Lights (Whites Road Jn 2)(Anna Salai)	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
6	Thoraipakkam Junction (Pallavaram Thoraipakkam road & Old Mahabalipuram road)	Old Mahabalipuram Road: SH49A	At-grade improvements	Short Term
7	Thiruvanmiyur Junction (ECR, Lattice Brg Road)	East Coast Road : SH 49	At-grade improvements	Short Term
8	Thirumazhisai Road Junction (Poonamallee)	Chennai Bangalore Road NH 48	At-grade improvements	Short Term
9	Teynampet Junction (Chennai-Trichy Highway, Sir Thyagaraya Road, Mount Road, Eldams Road)	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
10	Tank Bund Road X Sterling Road(near Loyola College)	Tank Bund Road, Sterling Avenue	At-grade improvements	Short Term
11	Tambaram Gandhi Road Junction	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
12	SRP Junction(Rajiv Gandhi Salai, 100 Feet Road)	Old Mahabalipuram Road: SH49A	At-grade improvements	Short Term
13	Sriperumpudur - Tambaram - Mudichur T-junction	Tambaram-Mudichur-	At-grade improvements	Short Term

S. No.	Area	Location (Road Name)	Proposed Intervention	Phasing
		Sriperumpudur Road : SH 110		
14	Spencer Plaza Junction	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
15	SIDCO Thirumazhisai Junction(Near Kuthambakkam Bus Terminal)	Chennai - Bangalore Road: NH 48	At-grade improvements	Short Term
16	Sholinganallur Near KL Hospital(Rajiv Gandhi Salai, Perumbakkam Main Road, Sholinganallur Main Road)	Old Mahabalipuram Road:SH 49	At-grade improvements	Short Term
17	Saidapet E Jones Road Junction	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
18	Royapettah (Indira Garden)	Westcott Road, Royapettah High Road, Peter's road	At-grade improvements	Short Term
19	Retteri Junction (Paper Mills Road- Perambur Red Hills High Road, 100 Feet Road)	Inner Ring Road (IRR): SH 2	At-grade improvements	Short Term
20	Rajaji Salai X Parrys Corner	Beach Road, NSC Bose Road	At-grade improvements	Short Term
21	Porur junction (Kundrathur Main Road, Arcot Road, Mount Poonamallee Road Mount)	Poonamallee - Avadi Road: SH - 55	At-grade improvements	Short Term
22	Perungudi Junction	Old Mahabalipuram Road: SH49A	At-grade improvements	Short Term
23	Periyar Bridge Junction (Anna Salai, Swami Sivananda Salai)	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
24	Paper Mills Road (Agaram Junction)	Paper Mills Road, Sundaraj Perumal Koli St S, Sundaraj Perumal Koli St N	At-grade improvements	Short Term
25	Otteri	Strahans Road	At-grade improvements	Short Term

S. No.	Area	Location (Road Name)	Proposed Intervention	Phasing
26	OTA Junction: Inner Ring Road (Southern Sector) X Grand Southern Trunk Road	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
27	Oragadam Junction (SH57xSH48: SPKoil-Sriperumbudur- Tiruvallur-Red Hills Road – SH48)	Vandalur-Oragadam-Walajabad Road:SH 48	At-grade improvements	Short Term
28	Olympia Tech Park(Water Works Road, Grand Southern Trunk Road)	Inner Ring Road: SH 2	At-grade improvements	Short Term
29	Near Kannagi Statue	Kamarajar Promenade, Pycrofts Road	At-grade improvements	Short Term
30	Near Kamatchi Memorial Hospital (Velachery - Tambaram Main Road, 200 Feet Radial Road)	Mamlong Bridge Irumbuiyur Road (MBI): SH 48	At-grade improvements	Short Term
31	Nandanam Junction (Anna Salai, Mount Road, Pasumpon Muthuramalinga Thevar Road, Venkatanarayana Road)	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
32	Mount - Poonamallee - Avadi road X Chennai – Chittoor - Bangalore road X Poonamallee - Kundrathur-Pallavaram road at Kattupakkam in Poonamallee.	Mount – Poonamallee-Avadi Road :SH 55	At-grade improvements	Short Term
33	Mogappair Junction (Kambar St, Ambattur Estate Road, 2nd Main Road, Ambattur Industrail Estate Road)	Thirumangalam - Mogappair Road: SH - 112	At-grade improvements	Short Term
34	MKN Road Junction (Near Saravana Bhavan)	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
35	Anna Salai-Alandur Road-MKN road Junction (Near Guindy Bus Stop)	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
36	MIOT Hospital (Construction of Grade Separator on Mount-Poonamallee-Avadi road from MIOT Hospital to Mugalivakkam via	Mount Poonamalle Avadi Road: SH 55,	At-grade improvements	Short Term

S. No.	Area	Location (Road Name)	Proposed Intervention	Phasing
	Ramapuram, L&T and DLF)(Mount Poonamalle Road, Sathya nagar Main Road, Manapakkam Main Road)			
37	Medavakkam Semmozhisalai (Velachery road &Perumbakkam Main Road)	Mamlong Bridge Irumbuiyur Road (MBI): SH 48	At-grade improvements	Short Term
38	Maduravayal Junction (Chennai Bangalore Road NH 48 & Chennai Bypass NH179B)	Chennai Bangalore Road NH 48	At-grade improvements	Short Term
39	Madhya Kailash (Sardar Patel Road, Rajiv Gandhi IT expressway)	Rajiv Gandhi Salai (Old Mahabalipuram Road) SH 49 A	At-grade improvements	Short Term
40	Madhavaram junction(Grand Northern Trunk Road, Chennai-Srikakulam Highway, Chennai-Kolkata Highway, 100 Feet Road)	Grand Northern Trunk Road – NH 48	At-grade improvements	Short Term
41	Little Mount Junction(Taluk Office Road, Anna salai)	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
42	Kolathur Main Road Junction (1st Main Road & Inner Ring Road)	Inner Ring Road (IRR): SH 2	At-grade improvements	Short Term
43	Kilpauk (New Avadi Road, EVR Periyar Salai)	Grand Western Trunk Road (GWT):SHU 86	At-grade improvements	Short Term
44	Kancheepuram-Renuka Devi Temple 4 Arm (Nellukara St, NH 132B)	Chengalpattu-Kanchipuuram Road : NH 132B	At-grade improvements	Short Term
45	Kaiveli (Bazaar Main road, Velachery-Tambaram Main Road)	Mamlong Bridge Irumbuiyur Road (MBI): SH 48	At-grade improvements	Short Term
46	Junction at Ennore Expressway and Chennai Port Road at Kasimedu (Ennore Express road, Jeevarathnam Road)	Chennai-Ennore Expressway:SH 1	At-grade improvements	Short Term
47	IRR Dr. Ambedkar Road Junction(4th Avenue)	Inner Ring Road: SH 2	At-grade improvements	Short Term

S. No.	Area	Location (Road Name)	Proposed Intervention	Phasing
48	IRR & PT Rajan Junction (puttur kattu centre)(PT Rajan Road, Ashok Nagar 2nd Avenue)	Inner Ring Road: SH 2	At-grade improvements	Short Term
49	GST ROAD- INDIRA GANDHI ROAD(GST Road-Pammal Road)	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
50	Government Estate Junction - (Blackers Road, Anna Salai, Walajah Road)	Grand Southern Trunk Road (GST): SHU 88	At-grade improvements	Short Term
51	Form 13 Junction: Inner Ring Road x TPP Road	SH2, Thiruvottriyur Ponneri Panchetty Road (SH56)	At-grade improvements	Short Term
52	Elephant Gate Junction		At-grade improvements	Short Term
53	ECR - Kalaignar Karunanidhi Salai (Sholinganallur Main road) junction	East Coast Road(ECR):SH 49	At-grade improvements	Short Term
54	Chrompet Bus Stop Jn(MIT Flyover, Chennai Nagapattinam Highway, Grand Southern Trunk Road)	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
55	Ashok Pillar (10th Avenue)	Inner Ring Road (IRR): SH 2	At-grade improvements	Short Term
56	Ashok Pillar 2 (11th Avenue)	11th Avenue, Inner Ring Road (IRR): SH 2 (one way)	At-grade improvements	Short Term
57	Arumbakkam	Grand Western Trunk Road (GWT):SHU 86	At-grade improvements	Short Term
58	Anna Salai, Cenotaph Road Junction	Grand Southern Trunk Road: SHU 88	At-grade improvements	Short Term
59	Anna Nagar Depot Junction (Inner Ring Road (Jawaharlal Nehru Road), 18th Main Road)	Inner Ring Road: SH 2	At-grade improvements	Short Term
60	Ambattur (Chennai-Tiruttani Highway, Chennai Bypass)	Chennai – Thiruthani-Renigunda Road : SHU 148	At-grade improvements	Short Term

S. No.	Area	Location (Road Name)	Proposed Intervention	Phasing
61	Parivakkam Junction	chennai-mumbai highway, Poonamallee-Pattabiram road	At-grade improvements	Short Term
62	Rajaji Salai X Indian Bank Jn	Beach Road	At-grade improvements	Short Term
63	Surapet main road	Surapet main road, Chennai-Tiruttani highway	At-grade improvements	Short Term
64	Tiruvallur Koot Road		At-grade improvements	Short Term
65	Green Ways Road Jn	Greenways Road, Durgabai Dehmukh Road, Ramkrishna Mutt Road	At-grade improvements	Short Term
66	SriperumpudurSHU3 x NH48 junction near Sriperumbudur Bus Stand)	SHU3 x Chennai-Bangalore Road NH48 junction near Sriperumbudur Bus Stand	At-grade improvements	Medium Term
67	Panjetty Junction (Chennai – Tada Section NH 16 & Uthukottai- Karanodai road NH 716A)	Chennai – Kolkatta Road NH 16	At-grade improvements	Medium Term
68	Chengalpattu (SH58 X Old GST Road)(Kanchipuram-Chengalpattu Road, Grand Southern Trunk Road)	Chennai-Trichy-Dindigul Road (Abandoned Road) SU 6	At-grade improvements	Medium Term
69	Ponneri High Road - GNT road	GNT road, Ponneri high road	At-grade improvements	Medium Term
70	Ramanjeri Junction(Chennai-Anantapur Highway, Ramanchery Road)	Chennai – Tirupathi Road NH 716	Grade separation	Long Term
71	Palavakkam Junction, Thiruvallur	Uthukottai – Karanodai road NH 716 A	Grade separation	Long Term

ANNEXURE 13. PUBLIC TRANSPORT DEMAND MAPS

Detailed maps illustrating peak hour public transport passenger demand for the 'Do Minimum' scenario across different years: 2028, 2033, 2038, and 2048.

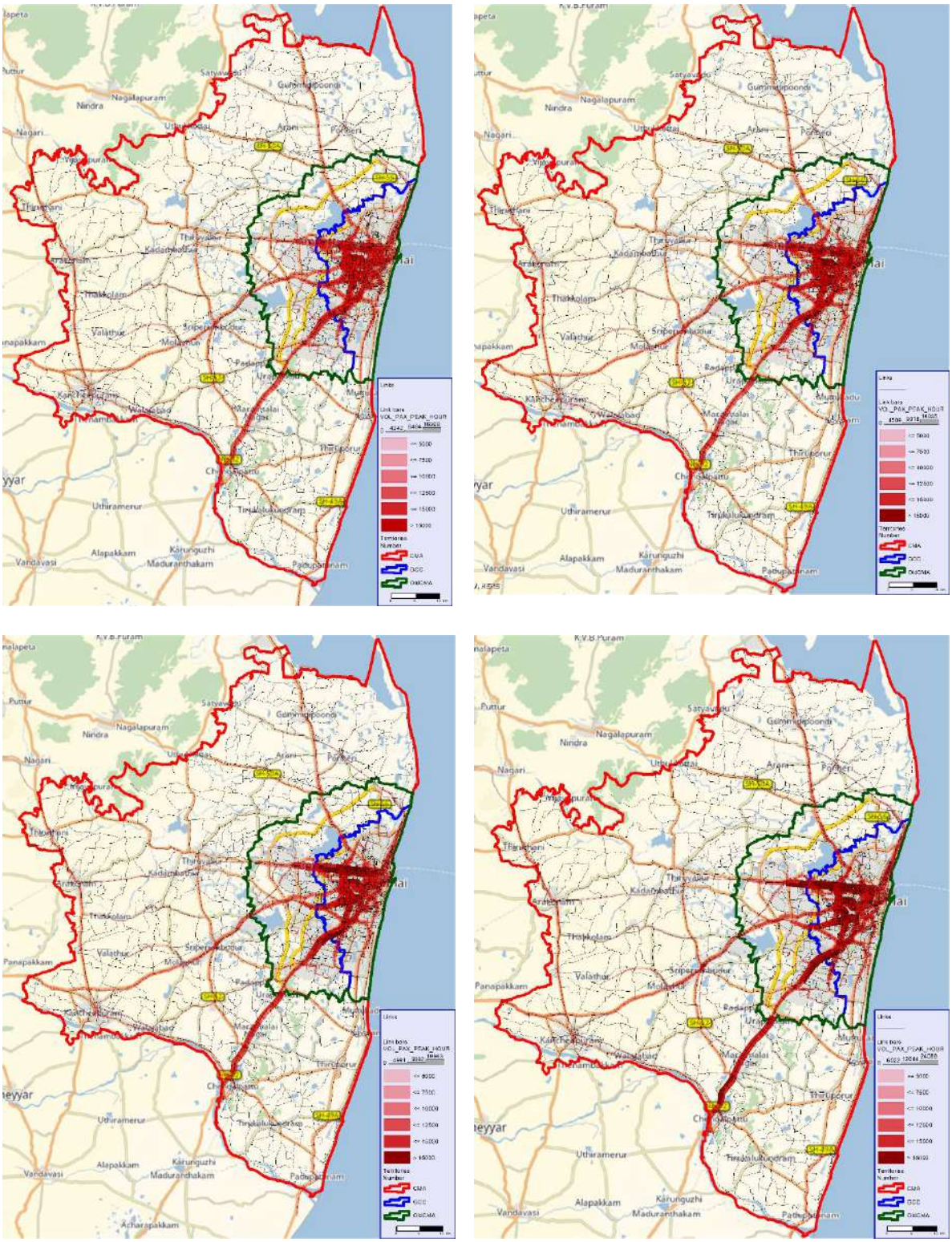


Figure 12: Peak hour PT passenger demand for 'BAU' scenario for the 2028, 2033, 2038, and 2048

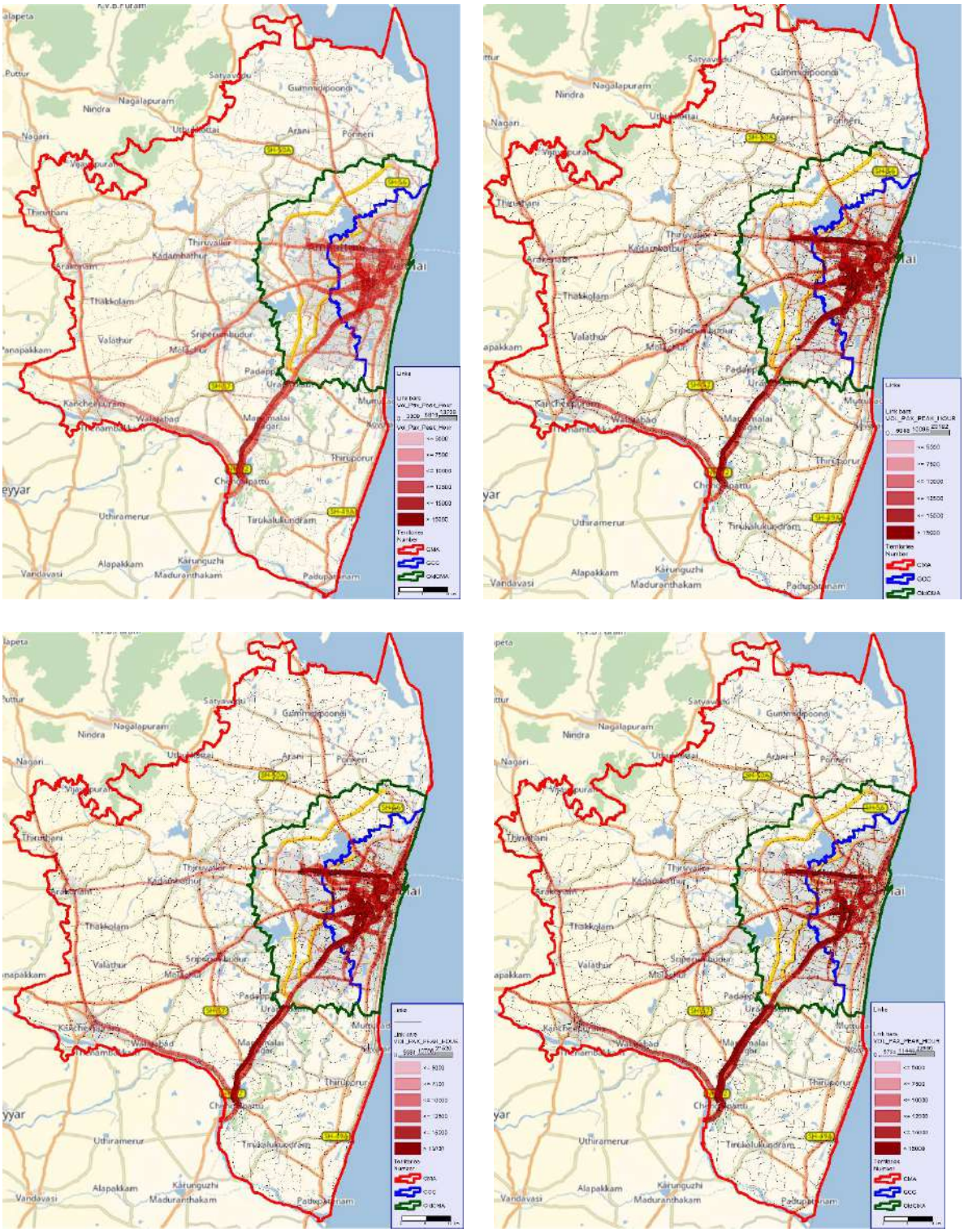


Figure 13: Peak hour PT passenger demand for 'Do Minimum' scenario for the 2028, 2033, 2038, and 2048

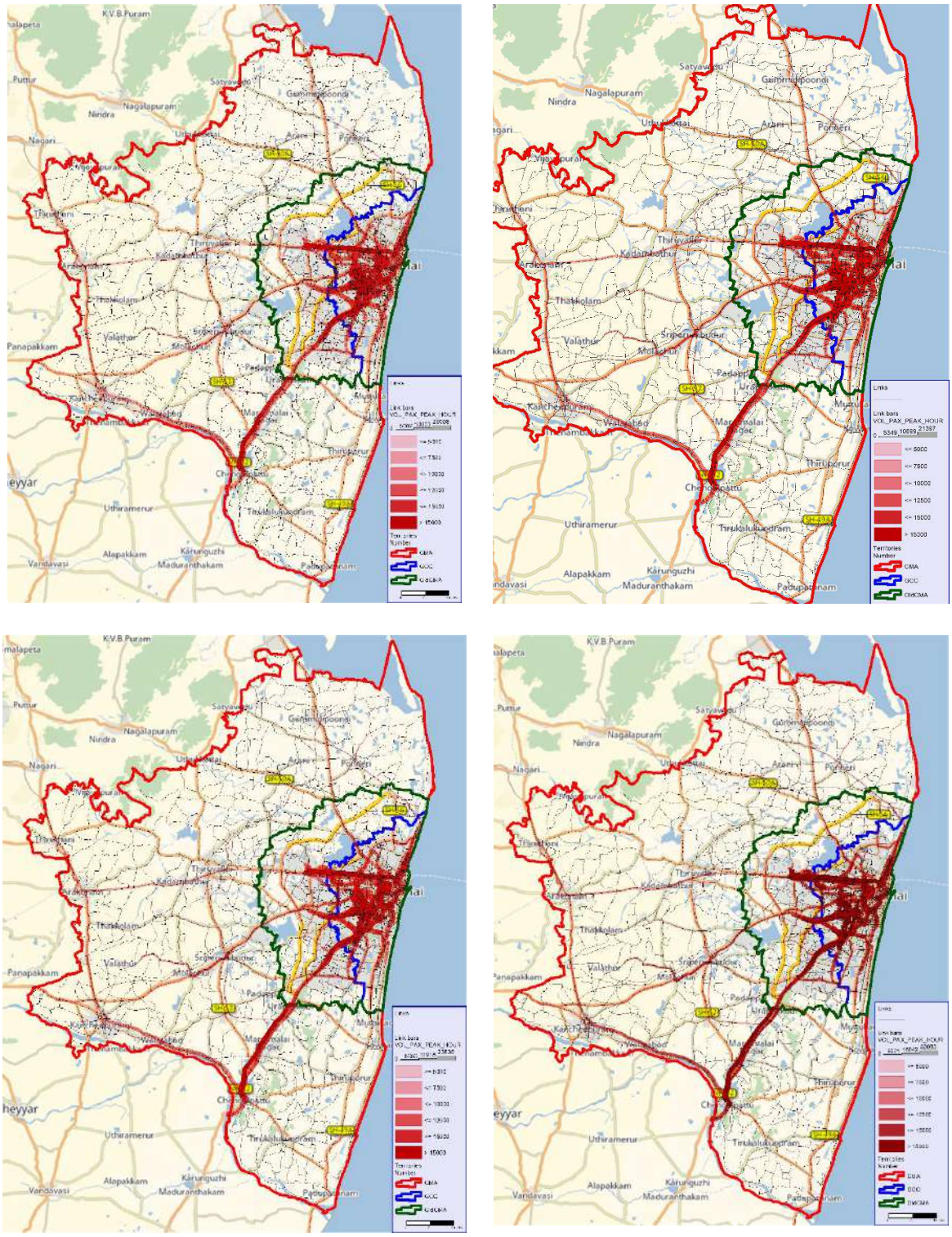


Figure 14: Figure 1: Peak hour PT passenger demand for 'TOD' scenario for the 2028, 2033, 2038, and 2048

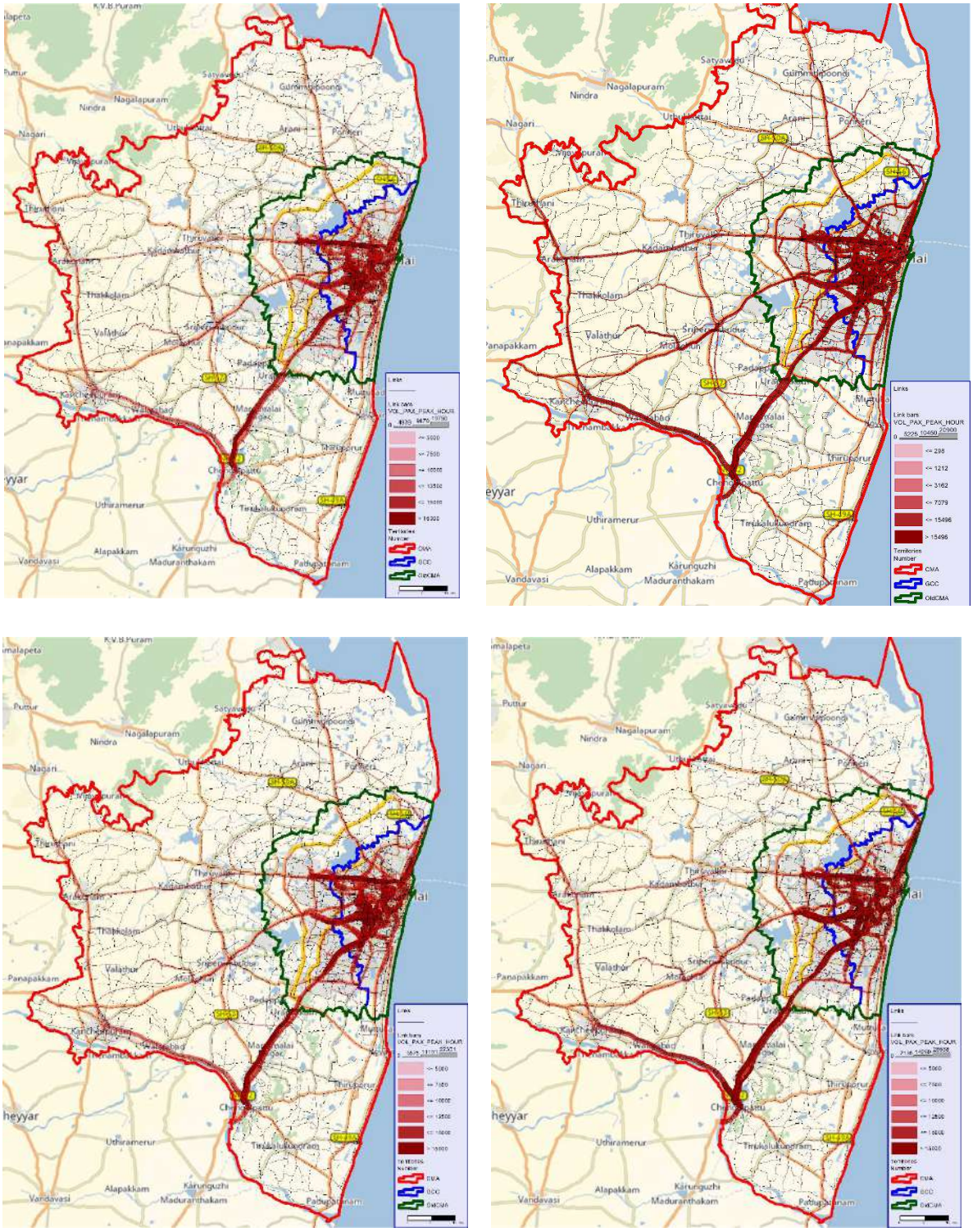


Figure 15: Figure 1: Peak hour PT passenger demand for 'SUT' scenario for the 2028, 2033, 2038, and 2048

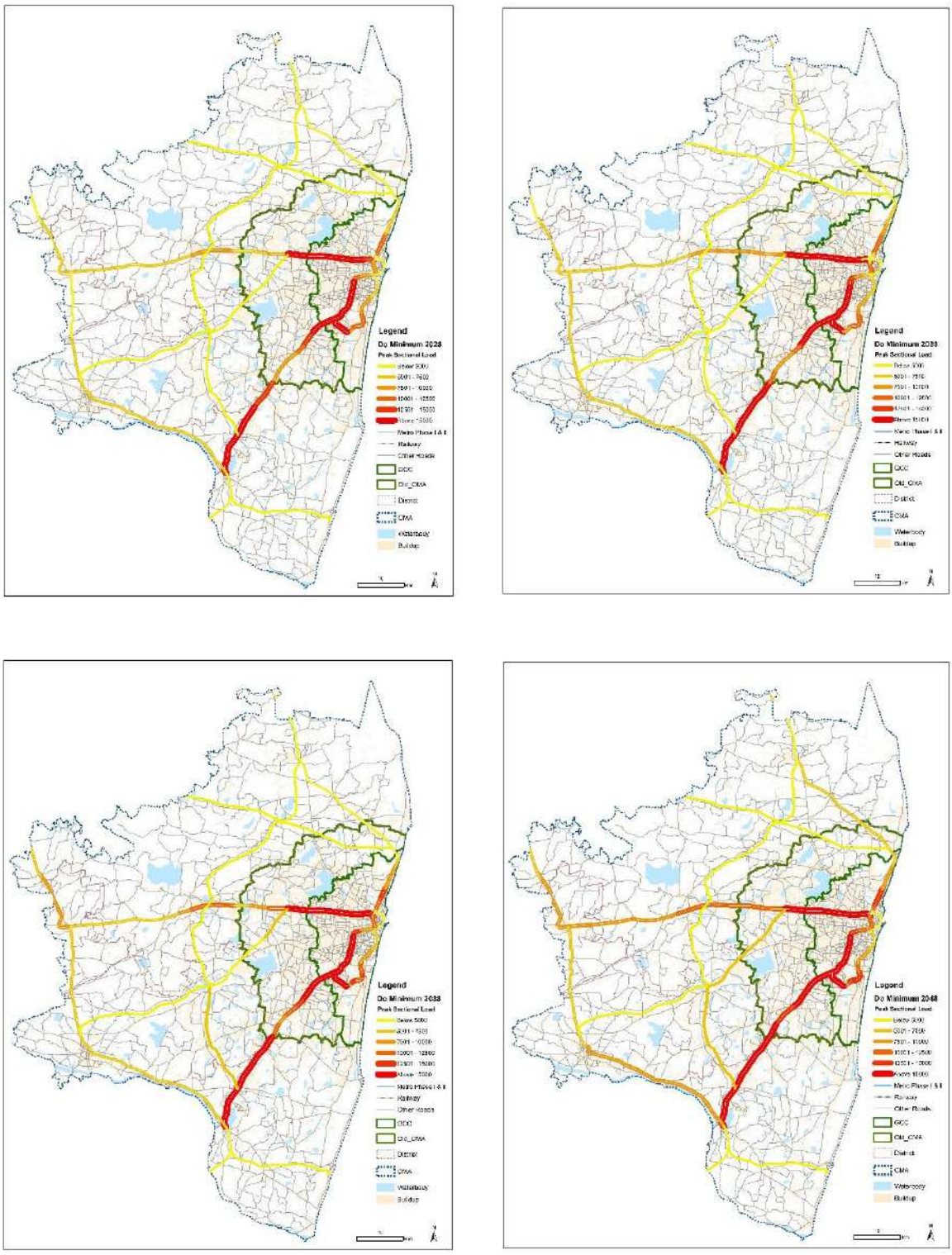


Figure 16: Peak hour Suburban passenger demand for 'Do Minimum' scenario for the 2028, 2033, 2038, and 2048

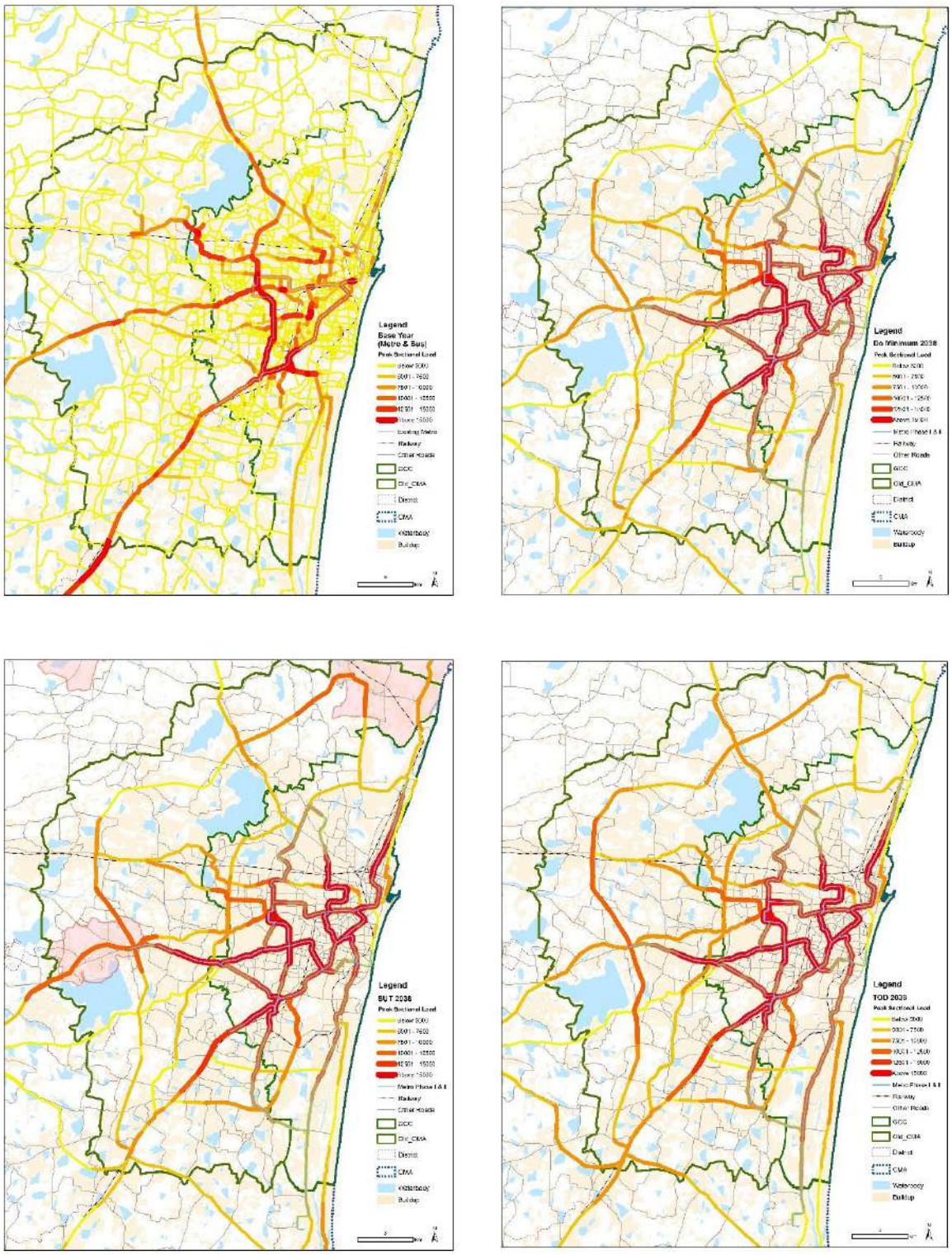


Figure 17: : Peak hour public transport passenger demand for the base year and various scenarios for 2038.

ANNEXURE 14. NON-MOTORISED TRANSPORT (NMT) PROPOSAL

The cluster wise details are w.r.t to the specific ULB and network length within cluster for improvement are shown in below table:

Table 22: List of identified NMT clusters with overall and proposed network length and priority

S. No.	ULB	Cluster Name	Overall Network Length (Km)	Ongoing (Km)	Proposed Network for Improvement in Km	Priority
1	GCC	Ennore	35.04	0	2.72	3
2	GCC	Ernavur	45.07	0	6.93	3
3	GCC	Wimco Nagar	26.78	0	1.14	3
4	GCC	Elandanur	51.84	0	5.98	3
5	GCC	Manali	102.96	0	10.37	3
6	GCC	Egmore, Park Town, Pulianthope, Thiru vi ka Nagar	287.44	12.76	38.87	1
7	GCC	Triplicane	106.73	7.22	12.25	1
8	GCC	Choolaimedu	141.83	2.34	12.97	1
9	GCC	Arumbakkam	133.78	1.07	18.61	1
10	GCC	Mogappair East	171.84	0	26.72	1
11	GCC	Ambattur Industrial Estate	44.14	0.51	7.62	1
12	GCC	Korattur	23.07	0	3.41	3
13	GCC	Villivakkam & Padi	96.94	1.22	10.29	1
14	GCC	Ayanavaram	37.87	1.81	3.97	1
15	GCC	Perambur	126.27	2.89	16.34	1
16	GCC	Vyasarpadi	234.18	4.94	27.46	1
17	GCC	Tondiarpet - Shastri Nagar	15.9	0	0.76	1
18	GCC	Kathhirvedu & Madhavaram	66.93	0	13.42	1
19	GCC	Puzhal	37.3	0	2.5	3
20	GCC	Ambattur	104.66	0	11.94	2
21	Avadi	Ambattur 2	176.93	0	10.72	3
22	GCC	Maduravoyal	73.09	0	11.39	3
23	GCC	Virugambakkam	78.23	2.42	10.19	1
24	GCC	Ashok Nagar	147.42	5.04	23.67	1
25	GCC	Mambalam	85.18	5.22	14.73	1
26	GCC	Saidapet	59.18	0.68	7.74	1
27	GCC	Adambakkam	166.11	0.61	18.67	1
28	GCC	Nandambakkam	124.45	0.69	18.64	1
29	GCC	Nanganallur & Ullagaram	239.85	2.5	36.48	1
30	GCC	Kandanchavadi	42.48	0	5.05	2
31	GCC	Thoraipakkam - Rajiv Gandhi Salai	52.55	0.14	6.3	2
32	GCC	Kannagi nagar	72.25	0.53	4.65	1
33	GCC	Injambakkam	28.11	0	1.29	3

S. No.	ULB	Cluster Name	Overall Network Length (Km)	Ongoing (Km)	Proposed Network for Improvement in Km	Priority
34	GCC	Shollinganallur 1	78.91	0	4.74	1
35	GCC	Shollinganallur 2	25.42	0	1.51	2
36	GCC	Panaiyur	30.57	0	1.48	3
37	GCC	Shollinganallur - Nookampalayam	67.87	0	4.51	1
38	Rest of Old CMA	Sithalapakkam	26.94	0	3.07	3
39	Rest of Old CMA	Medavakkam Jayachandran Nagar	85.06	0	6.68	1
40	Tambaram	Madambakkam	64	0	5.66	3
41	Tambaram	Agaram Then	33.56	0	2.63	3
42	Tambaram	Balaji nagar	18.35	0	1.5	3
43	Tambaram	Gowriwakkam, Rajakilpakkam	75.15	0	5.96	3
44	Rest of Old CMA	Nanmangalam	18.46	0	1.97	2
45	Tambaram	Old Pallavaram	94.02	0	9.17	3
46	Tambaram	Tambaram & East Tambaram	222.25	0	24.77	1
47	Tambaram	Hastinapuram	116.83	0	17.29	2
48	Tambaram	Chromepet	130.92	0	12.99	2
49	Rest of Old CMA	Pallavaram	85.43	0	14.68	2
50	Tambaram	Anakaputhur	118.72	0	11.57	3
51	Rest of Old CMA	Pozhichalur	40.53	0	1.7	2
52	Rest of Old CMA	Periyapancheri, Thandalam	74.15	0	10.96	3
53	Rest of Old CMA	Iyyapanthangal - Thelliyaragaram	26.38	0	5.61	2
54	Rest of Old CMA	Poonamallee	215.97	0	21.71	1
55	Rest of Old CMA	Mangadu	34.03	0	2.83	3
56	Rest of Old CMA	Kundrathur	76.58	0	10.86	2
57	Rest of Old CMA	Nandambakkam Chengalpattu	44.11	0	5.47	3
58	Tambaram	Perungalattur	71.31	0	6.21	2
59	Rest of Old CMA	Vandalur	92.14	0	7.96	2
60	Rest of Old CMA	Mudichur	114.25	0	10.28	3
61	Rest of Old CMA	Kolapakkam	22.79	0	2.47	3
62	Rest of Old CMA	Kuthambakkam	33.91	0	4.7	3

S. No.	ULB	Cluster Name	Overall Network Length (Km)	Ongoing (Km)	Proposed Network for Improvement in Km	Priority
63	Rest of Old CMA	Varadarajapuram	32.22	0	3.87	3
64	Rest of Old CMA	Kolappancheri ORR	6.25	0	1.01	3
65	Rest of Old CMA	Thiruverkadu	18.33	0	2.8	3
66	Rest of Old CMA	Annaikattucheri	7.6	0	1.35	3
67	Avadi	Pattabiram	106.36	0	9.82	3
68	Rest of Old CMA	Tiruninravur	130.7	0	10.46	3
69	Avadi	Avadi	144.22	0	12.53	3
70	Avadi	Annanur	18.78	0	2.26	3
71	Avadi	Avadi Telephone Exchange	19.96	0	2.18	3
72	Avadi	Kalaignar Nagar - Avadi	10.63	0	1.08	3
73	Avadi	Kannadapalayam - Avadi	11.56	0	1	3
74	Avadi	Muthapudupet - Pattabiram	70.45	0	10.57	3
75	Rest of Old CMA	Saint Michael Polytechnic College - ORR	8	0	1.69	3
76	Rest of Old CMA	New Kanniamman Nagar - Avadi	25.08	0	1.14	3
77	Rest of Old CMA	Alamadhi	12.48	0	1.49	3
78	Rest of Old CMA	Upparipalayam	12.53	0	0.98	3
79	Rest of Old CMA	Red Hills	172.78	0	18.34	2
80	Rest of Old CMA	Vilangadupakkam	9.94	0	1.03	3
81	Rest of Old CMA	Sholavaram	8.8	0	2.19	3
82	Rest of Old CMA	Athur & Karanodai	15.14	0	6.36	2
83	Rest of Old CMA	Orakadu	5.02	0	1.82	3
84	Rest of Old CMA	Budur	7.28	0	1.29	3
85	Rest of Old CMA	Mapushkanpet & Pudupakkam	16.05	0	2.99	3
86	Rest of Old CMA	Vazhatugaimedu	3.89	0	1.94	3
87	Rest of Old CMA	Minjur	52.47	0	6.47	2

S. No.	ULB	Cluster Name	Overall Network Length (Km)	Ongoing (Km)	Proposed Network for Improvement in Km	Priority
88	Rest of Old CMA	Attipattu	68.36	0	5.44	2
89	Rest of Old CMA	Kandakarai TPP Road	21.95	0	2.08	3
90	Ex- CMA	Pazhaverkadu	27.6	0	1.78	3
91	Ex- CMA	Methur	2.5	0	2.21	3
92	Ex- CMA	Ponneri	35.91	0	8.27	2
93	Ex- CMA	Near Vanipakkam Village - TPP Road	4.01	0	2.07	3
94	Ex- CMA	GST Pulicat Road - Panjetty	10.14	0	3.55	3
95	Ex- CMA	Janappanchataram	18.14	0	4.02	3
96	Ex- CMA	Puduvoyal	10.51	0	3.1	3
97	Ex- CMA	Gummidipoondi	50.18	0	14.55	2
98	Ex- CMA	Arani	9.78	0	4.57	3
99	Ex- CMA	Periyapalayam	13.84	0	6.33	3
100	Ex- CMA	Kannigaipair - Tirupathi Road	1.54	0	1.54	3
101	Ex- CMA	Poochiathipadu	13.47	0	2.94	3
102	Ex- CMA	Tiruvallur North	140.23	0	14.45	3
103	Tiruvallur	Tiruvallur South	116.05	0	7.03	1
104	Ex- CMA	Kadambattur	8.99	0	2.45	3
105	Ex- CMA	Tiruvelangadu rd. from chennai tirupathi Highway	2.19	0	2.16	3
106	Ex- CMA	Ramanjeri	4.44	0	3.06	3
107	Ex- CMA	East of Tiruttani "Arunkulam"	1.51	0	1.5	3
108	Tiruttani	Tiruttani	21.41	0	12.24	2
109	Arakkonam	Arakkonam	97.53	0	12.4	2
110	Ex- CMA	Takkolam	5.61	0	1.54	3
111	Ex- CMA	Perambakkam	10.72	0	5.71	3
112	Ex- CMA	Tirumalpur	26.32	0	5.59	2
113	Kanchipuram	Kanchipuram 1	82.6	0	12.74	3
114	Kanchipuram	Kanchipuram 2	79.03	0	9.43	3
115	Kanchipuram	Kanchipuram 3	123.22	0	15.55	3
116	Kanchipuram	Kanchipuram 4	60.7	0	11.22	2
117	Kanchipuram	Ayyampettai	42	0	4.58	3
118	Ex- CMA	Thimmarajampettai	11.78	0	1.42	3
119	Ex- CMA	Walajabad	39.5	0	6.72	2
120	Ex- CMA	Sunguvarchatram	39.89	0	4	3
121	Ex- CMA	Sriperumbudur	20.01	0	3.34	2
122	Ex- CMA	Padappai	58.73	0	5.36	3
123	Ex- CMA	Karasangal MGR Nagar	22.3	0	2.61	3
124	Maraimalai Nagar	Sirpi nagar	52.17	0	3.41	3

S. No.	ULB	Cluster Name	Overall Network Length (Km)	Ongoing (Km)	Proposed Network for Improvement in Km	Priority
125	Maraimalai Nagar	Urapakkam	88.92	0	4.34	1
126	Maraimalai Nagar	Guduvancheri	104.77	0	9.44	2
127	Maraimalai Nagar	Potheri	73.56	0	4.86	2
128	Maraimalai Nagar	Maraimalai Nagar	57.94	0	5.75	2
129	Maraimalai Nagar	Singaperumal Koil	34.74	0	3.84	2
130	Ex- CMA	Sivagami Nagar	8.14	0	2.21	3
131	Ex- CMA	Rajakulipettai	4.69	0	1.25	3
132	Chengalpattu	Chengalpattu City 1	89.47	0	17.7	1
133	Chengalpattu	Chengalpattu City 2	41.7	0	8.08	3
134	Chengalpattu	Chengalpattu City 3	44.74	0	6.13	3
135	Ex- CMA	Thirukazhukundram	47.67	0	10.27	2
136	Ex- CMA	Thirukazhukundram 2	35.15	0	6.49	3
137	Ex- CMA	Kalpakkam ECR	16.47	0	3.03	3
138	Ex- CMA	Pudupattanam ECR	31.09	0	4.26	3
139	Ex- CMA	Sadras	8.1	0	1.13	3
140	Ex- CMA	Vengambakkam	14.38	0	2.8	3
141	Ex- CMA	Poonjeri ERC/OMR	17.65	0	3.07	3
142	Ex- CMA	Thiruporur	33.3	0	4.67	2
143	Ex- CMA	kannagapattu	12.38	0	1.18	3
144	Ex- CMA	Kelambakkam	25.49	0	2.97	2
145	Ex- CMA	Navalur	46.41	0	3.46	2
146	Ex- CMA	Kandigai, Melakottaiyur	28.55	0	3.99	3

ANNEXURE 15. PROMOTING RETROFIT PROGRAMS

A. Steps to get Vehicle retrofitted.

1. Identify Vehicle Eligibility for retrofitment

Note:

i) All the above are subjected to availability of Type approved w.r.t make and model of the vehicle kit and its retrofitment centre duly authorized by the kit Manufacturer and Transport Department.

ii) For 10-year-old diesel vehicles and 15-year Petrol/CNG vehicles, the approval/ endorsement of electric fuel and registration certificate shall be carried out simultaneously.

2. Identifying the correct retrofitter

i) Identify the manufacture/Import of Pure electric retrofitment kit with make and model of the vehicle.

ii) Check out the list of authorized retrofitment dealers on the Switch Delhi website according to your vehicle model.

3. Identifying the correct retrofitter

i) Vehicle retrofitment request to be submitted through Form 22C PART-I to the registering authority.

ii) Details to be Filled by Motor Vehicle Owner in Form 22C PART-I.

1) Vehicle Registration Number
2) Vehicle Make
3) Vehicle Model
4) Vehicle Month & Year of Manufacturing
5) Vehicle Category (2-Wheeler, 3-Wheeler, 4-Wheeler)
6) Vehicle existing Fuel
7) Pure Electric Kit Manufacturer/Importer Name
8) Kit Name
9) Kit Identification Number/Name
10) Electric Retro-fitment Centres Name & Address

iii) Permission for retrofitting to be **Granted/Not Granted*** within **Seven (7) Working Days** from the submission date of PART I of Form 22C. the PART-II OF Form 22C is to be filled by the Registering Authority.

iv) If registering authority does not approve or reject the application for approval within seven working days from the date of receipt of form 22C, the approval shall be deemed to be granted.

4. Getting your Vehicle Retrofitted:

After Grant of Permission, the Vehicle owner will approach approved Electric Retrofitment Centre (ERFC) as per details submitted in Form 22 C, Part-I and get their vehicle Retro-fitted by approved Pure Electric Kit.

B. Process after the Retrofitment:

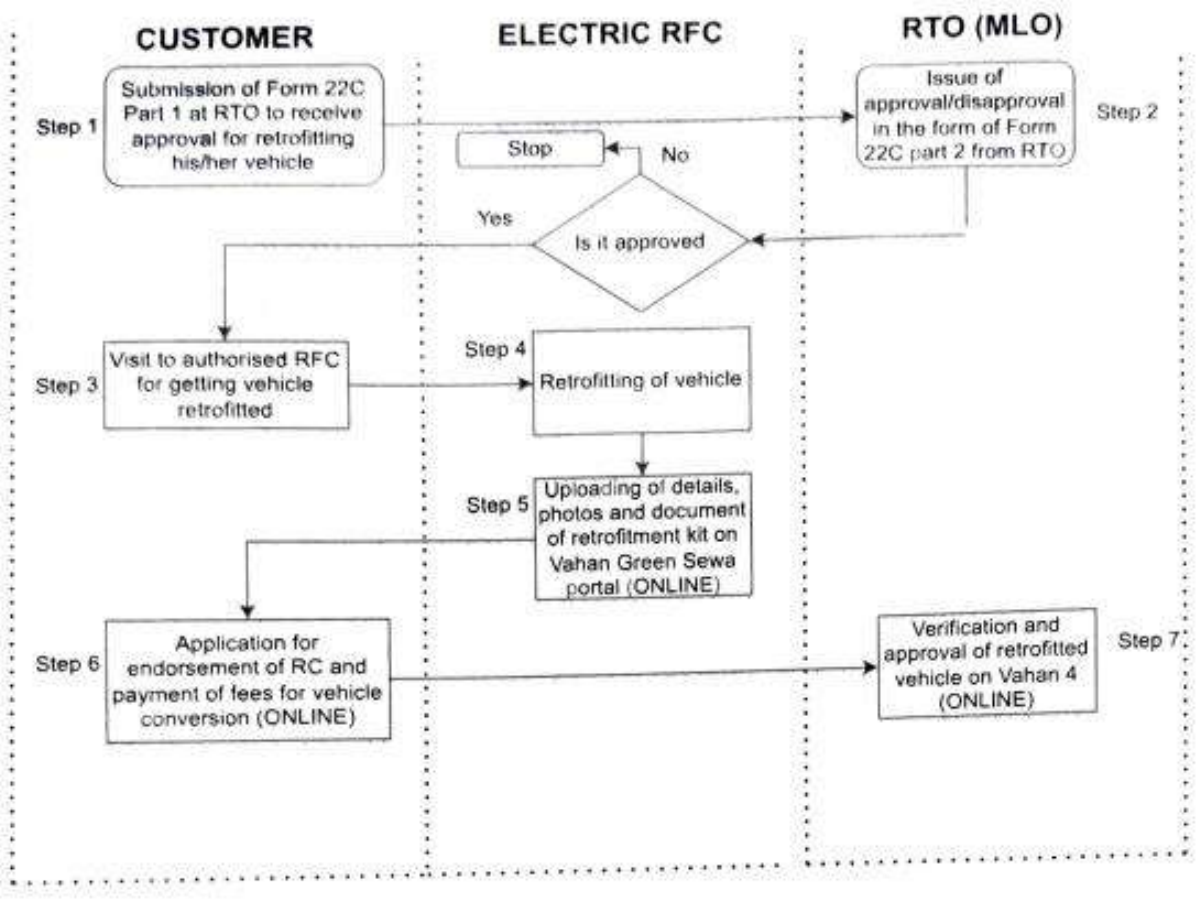
Endorsement of Electric Fuel in the vehicle Registration Certificate

If your Vehicle Registration Certificate is valid*	If your Vehicle Registration Certificate is not valid **
Step 1:	**Step 1:**
a) Vehicle owner to apply for **Endorsement of Electric Fuel in the Registration Certificate** through VAHAAN software in the **Form 22D** with appropriate fee	**a)** Vehicle owner to apply for **Re-registration certificate** through **Form 25** and depositing the fee. Re-Registration shall be carried by registration authority subjected to certificate of fitness **b)** Vehicle owner to apply for **Endorsement of Electric Fuel in the Registration Certificate** through VAHAAN software in the **Form 22D** with appropriate fee
Step 2:	**Step 2:**
a) The authorized ERFC will submit compliance report for Alteration/Retro-fitment in **Form 22F** to Vahaan.	**a)** The authorized ERFC will submit compliance report for Alteration/Retro-fitment in **Form 22F** to Vahaan.

Note:

1. The Diesel vehicles 10-15 years from the date of its first registration and petrol/CNG vehicles having age more than 15 years shall not be treated as validly registered vehicle.
2. Diesel vehicles 10-15 years from the date of first registration and Petrol/CNG vehicles 15 years or more from the date of first registration. It may be noted No Re-registration shall be allowed in case of Diesel Vehicles having age beyond 15 years from the date of its first registration

C. Process Flow for Retrofitting:



D. Documented Forms:

1. Form 22C Part-1 and Part-2

FORM 22C

[(Refer rule 47A (1)]

REQUEST AND PERMISSION FOR
ALTERATION/RETROFITMENT/ADAPTATION

PART I

(To be submitted by the Motor Vehicle Owner)

I hereby request the Registering Authority to accord prior permission to undertake alteration/ retrofitment in my Motor Vehicle as per details mentioned below:

I hereby submit that I shall carry out the permitted alteration/ retrofitment as per the provisions under CMVR 1989 and shall ensure that motor vehicle so altered shall be submitted for endorsement in the registration certificate along with necessary compliance documents.

Place: .....

Date: ..... (Signature of the Owner)

Name: .....

Designation: .....

Mobile Number .....

PART II

(To be issued by the Registering Authority)

Motor Vehicle, bearing Registration Number ....., is hereby permitted/not permitted to alter and/or retrofit as per provisions of CMVR 1989. After the retrofitment/alteration is completed, the motor vehicle shall be produced for verification and endorsement in the Registration Certificate.

2. In case permission is not accorded reasons .....

Place: .....

Date: .....

(Signature of the authorised person)

Name: .....

Mobile Number .....

2. Form 22F

FORM 22F

(See rules 47B(3), 112(3), 112(4), 112(5), 112(6), 112(7), 112(8), 112(9),126)

COMPLIANCE REPORT FOR ALTERATION/RETROFITMENT

(To be submitted by the company/workshop who has carried out alteration/retrofitment either electronically on the Portal to the owner and owner shall submit this report to registering authority for the endorsement in registration certificate)

I hereby submit the compliance report for the alteration/retrofitment work carried out as detailed below:—

Sr. No.	*Item*	*Details*
(1)	(2)	(3)
1.	Motor Vehicle Details	
1.1	Motor Vehicle Make & Model	
1.2	Registration Number	
1.3	Chassis number (Optional)	
1.4	Engine number/Motor number (in case of battery operated vehicles) (Optional)	
1.5	Name, address and mobile number of the motor vehicle owner	
2.	Details of the Alteration/ Retrofitment carried out	
2.1	Nature of Alteration (Body Structure/ Fuel Source/ Chassis replacement / Engine replacement)	
2.2	Brief Details of the alteration/retrofitment carried out	
2.3	Applicable rules from the CMV rules followed for alteration/retrofitment	
2.4	Standard as specified in applicable rules followed for carrying out alteration/retrofitment	
2.5	Compliance report regrading alteration/retrofitment in the form type approval issued by the authorized testing agency or self-certification report, as the case may be.	To be attached
3.	Name, address and contact details of the firm who has carried out the subject alteration/retrofitment work	

This is to certify that the subject alteration/retrofitment work has been carried in such a manner that specific provision of the rules related to alteration/retrofitment are followed and it is ensured that motor vehicle so altered comply with the requirements of the Central Motor Vehicles Rules, 1989.

Place: .....
Date: .....

(Authorised signatory of the firm who carried out alteration/retrofitment)

Name of the person: .....

Name of the firm which carried out alteration/retrofitment .....

Mobile Number .....

3. Form 22D (Part-1)

FORM 22D

[(Refer rule 47B (1)]

ENDORSEMENT OF ALTERATION/RETROFITMENT

PART I

(To be Issued by the Motor Vehicle Owner)

I hereby request the Registering Authority to endorse the alteration/ retrofitment carried out in my vehicle in the Certificate of Registration of my Motor Vehicle as per the details mentioned below:

Sr. No.	*Item*	*Details*
(1)	(2)	(3)
1.	Motor Vehicle Details	
1.1	Motor Vehicle Make and Model	
1.2	Registration Number	
1.3	Chassis number (Optional)	
1.4	Engine number/Motor number (in case of battery operated vehicles) (Optional)	
2.	Alteration/ Retrofitment Details	
2.1	Nature of Alteration/ Retrofitment (Body Structure/ Fuel Source/Chassis replacement/Engine replacement)	
2.2	Brief Details of alteration/retrofitment work carried out Compliance of Alteration/Retrofitment with the Applicable Rules	
3.1	Compliance Details of Alteration/ retrofitment (a) Number and address details (Name, address and Contact Details) of the Company who has carried out Alteration/retrofitment (b) Compliance details in the formats (Form no. 22F) provided under rule 112A of CMVR 1989 as applicable. *(Applicable in case carried out by the OE manufacturer or his dealer or Authorised Workshop as allowed under Rue 112 of the CMVR 1989)*	
4.	Reference number of permission for alteration/retro-fitment	

This is to certify that the adaptation mentioned above is correct.

Place: .....

Date: .....

(Signature of the Owner)

Name: .....

Mobile number .....

4. Form 22D (Part-2)

PART II

(To be filled by Registering Authority)

The Motor Vehicle, bearing Registration Number ....., duly Altered/ retrofitted, has been verified and cleared for endorsement entry into Registration Certificate.

Place: .....

Date: ..... (Signature of the authorized person)

Designation: .....

Name: .....

5. Form 25

FORM 25 [See Rule 52(1)]

FORM OF APPLICATION FOR RENEWAL OF CERTIFICATE OF REGISTRATION OF A MOTOR VEHICLE, OTHER THAN A TRANSPORT VEHICLE

To

The Registering Authority,

.....

.....

I.....hereby apply for the renewal of the certificate of registration which is attached, the particulars of which are as follows:-

(a) Register No. : .....

(b) Date of issue : .....

(c) Date of expiry : .....

(d) Registering Authority by which the certificate was issued/last renewed : .....

My present address is : .....

.....

.....

.....

If this address is not entered in the certificate of registration, I do/do not wish that it should be so entered. The renewal of the certificate has not been refused by any Registering Authority.

I hereby declare that the certificate of registration has not been cancelled or suspended by any Registering Authority.

1. Class of vehicle : .....
2. The motor vehicle was registered as
   (a) a new vehicle : .....
   (b) ex-army vehicle : .....
   (c) imported vehicle : .....
3. Type of body : .....
4. Maker's name : .....
5. Month and year of manufacture : .....
6. Number of cylinders : .....
7. Cubic capacity/Horse power : .....
8. Maker's classification : .....
9. Chassis No. – Affix pencil print : .....
10. Engine number or motor number in the case of Battery Operated Vehicles : .....
11. Seating capacity (including driver) : .....

ANNEXURE 16. PROJECT COSTING & PHASING

Table 23: Project costing & Phasing Executive Committee Meeting

1. Buses

SN	Action Items	Short-Term (2030) in Cr.	Medium-Term (2040) in Cr.	Long-Term (2048) in Cr.	Total cost in Cr.
1	Total Bus Fleet Requirements in CMA	12786	18,286	20,286	51,358
2	Bus Stop Improvement/ Upgradation	57	31	87	175
3	Bus Stops with PIS Implementation	66	24	20	110
4	Depot Requirements*	815	305	200	1320
	Total	**13,724**	**18,646**	**20,593**	**52,963**

2. MRT

S.No	Action Items	Short-Term (2030) in Cr.	Medium-Term (2040) in Cr.	Long-Term (2048) in Cr.	Total cost in Cr.
1	Metro Corridor	42587	35,737	3,131	81,456
2	LRT Corridor	-	14,457	8,800	23,257
3	BRT	525	2,790	-	3,315
4	Tram	-	-	1,155	1,155
	Total	**43,112**	**52,984**	**13,086**	**1,09,182**

3. Suburban

SN	Action Items	Short-Term (2030)	Medium-Term (2040)	Long-Term (2048)	Total Cost
1	Rake Requirement	1,555	2,232	3,960	7,747
2	New Corridor	-	7,450	1,630	9,080
3	Corridor Upgrade	2,450	700	-	3,150
4	Depot Upgradation	-	2,000	-	2,000
5	Mail Express Terminal	750	-	2,000	2750
	Freight Terminal	50	50	-	100
	Total	**4,805**	**12,432**	**7,590**	**24,827**

4. MMI

S.No	Action Items	Short-Term	Medium-Term	Total cost in Cr.
		(2030) in Cr.	(2040) in Cr.	
1	MMI Hubs	900	510	1,410
2	Bus Stop and IPT Integration	61	12	73
	Total	**961**	**522**	**1,483**

5. Road Network Development

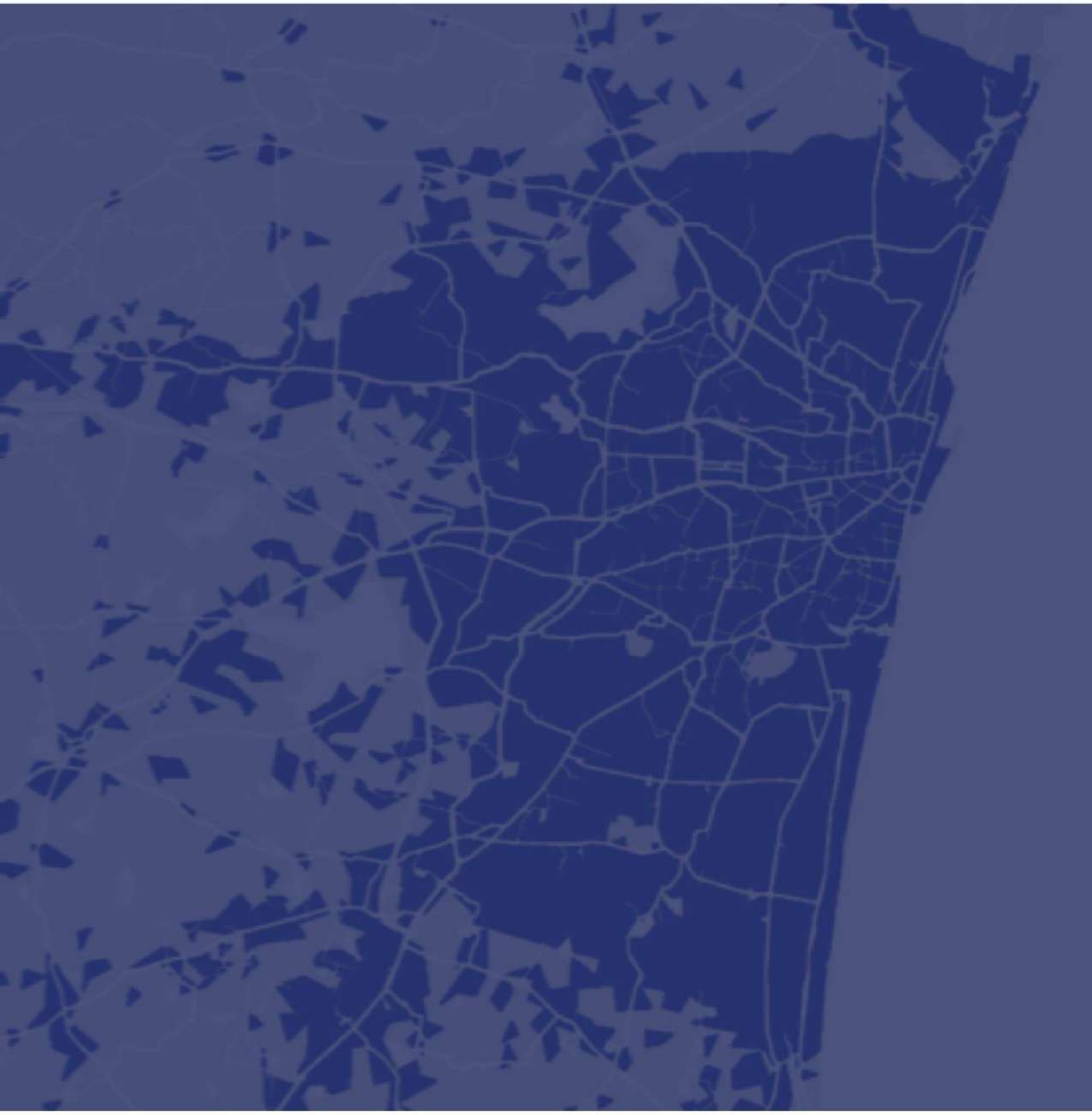
SN	Action Items	Short-Term	Medium-Term	Long-Term	Total cost in Cr.
		(2030)	(2040)	(2048)	
1	Strengthening & Upgrade	1,605	1,643	544	3,791
2	New Roads	1,286	1,902	1,208	4,396
3	Elevated Corridor	1,008	4,248	6,936	12,192
4	Proposed Ramps in NHAI	75	50	-	125
5	Proposed RoB/ RUB	1,560	-	-	1,560
6	Junction Improvement	338	20	100	458
	Total	**5,872**	**7,863**	**8,787**	**22,522**

6. NMT

S.No	Action Items	Short-Term	Medium-Term	Long-Term	Total cost in Cr.
		(2030)	(2040)	(2048)	
1	**Footpath**	**1944**	**1798**	**2992**	**6,734**
a	Streets within GCC	856	898	-	**1,754**
b	Streets within Avadi	78	34	-	**112**
c	Streets within Tambaram	196	26	-	**222**
d	Rest of Old CMA	336	682	-	**1,018**
e	Expanded CMA	478	158	2992	**3,628**
2	**Cycle Track**	**251**	-	-	**251**
3	**FOB**	**350**	-	-	**350**
	Total	**2,546**	**1,798**	**2,992**	**7,336**

7. Freight

SN	Action Items	Short-Term (2030) in Cr.	Long-Term (2040) Cr.	Total cost in Cr.
1	Enhancing Port Internal Connectivity	1,000	-	1,000
2	Truck Holding Yard	150	-	150
3	ULCC	1,000	-	1,000
4	MMLP	-	750	750
5	Freight Parking	220	-	220
6	Air Cargo	30	-	30
7	Rail Parcel Terminal	-	75	75
8	Perishable Market Development	140	-	140
	Total	**2,540**	**825**	**3,365**



Prepared by

SYSTRA