### CAPACITY BUILDING, MONITORING NETWORK AND SOURCE APPORTIONMENT

Action Point Code	Action Point	Present Status	Target	Target Date		Target	Field type	Attach ment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additiona I Funds Required
CB1	Insatllation & Commissioning of Monitoring Stations												
CB1.1	CAAQMS	1. 4 No. of CAAQMS were installed by SPCB with digital display 2. 18 No. of environmental sensors were installed by Greater Chennai Corporation under Smart City projects	5 CAAQMS station may be installed	31.12.2022	NA	NA	NA	NA	NA	NA	NA	NA	6 Cr
CB1.2	Manual Stations						Number		List of locations				
CB2	Air Quality Forecasting	Nil	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Assessment of sources												
CB3.1	Emission Inventory	Yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB3.2	Emission tracking system	Yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB3.3	Source Apportionment Study		long term SA to be conduct	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB3.4	Health Impact Studies	Yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB3.5	Exposure Impact Studies	Yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB4	Training & Capacity Building												
CB4.1	Training & skill development of public officals	Yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB4.2	Infrastructure development (Laboratory/ AQM Cell	Yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB4.3	Enforcement Units		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CB5	Emergency Response System												
	District/ Corporation level	Control Room(24 x7) District Emergency Operation, located Rippon building	Toll Free No. : 1913	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Emergency Response Monitoring cell, DDMA	Commissioner, DC works, Police commissioner, Chennai city collector	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

### **PUBLIC OUTREACH**

Action Point Code	Action Point	Present Status	Target	Target Date	Deviation from Approved Action Plan Target	Annual Target	Field type	Attachm ent	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Funds Required
PO1	Public Outreach												
PO1.1	Daily Air Quality Public Information Dissemination System	4 No. of CAAQMS were installed by SPCB with digital display     8 No. of environmental sensors were installed by Greater Chennai Corporation under Smart City projects	5 CAAQMS station may be installed	31.12.2022	NA	NA	NA	NA	NA	NA	NA	NA	6 Cr
PO1.2	Social Media Platforms	Available as part of the Integrated Command & Control center project under Smart City	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PO1.3	Issue public advisory for prevention and control of air polltuion	100 Variable Message sign boards were installed by Greater Chennai Corporation under Smart City projects	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PO1.4	Deeper public engagement and consultation (workshops/ programmes in schools/ colleges)	Regular consultaion and workshops with the colleges for consultation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PO1.5	Launch mobile app to update public about status of air quality	AQI is being monitored through the mobile and web portals and alerts and emails are being sent to the respective departments and authorities for taking necessary actions	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PO2	Public Greivance Redressal System												
	App Based System	Greater Chennai Corporation implemented a mobile app for the PGR complaints for taking necessary actions	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PO2.2	Helpline Number	Toll Free No. :1913	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

### **ROAD DUST AND CONTRUCTION & DEMOLITION**

RD1	Road dust	Present Status	Target	Target Date	Deviation from Approved Action Plan Target	Annual Target	Field type	Attachm ent	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Funds Required
RD1.1	Immediate lifting of solid waste generated from disilting and cleaning of municipal drains for its disposal	Steps taken	Immediate Removal of Solid waste	N/A	N/A	Regular Activity	High capacity Super Sucker - 7nos. Robotic Excavator - 4 nos. Amphibian - 2 nos. Mini Amphibian - 3 nos.	N/A	N/A	N/A	N/A	N/A	N/A
RD1.2	Maintain potholes free roads	we are attending emergency patch work due to flood at every year and purchase of Jet patches machine		30.03.2022 30.03.2023 30.03.2024 30.03.2025 30.03.2026	N/A	N/A	N/A	N/A	N/A	N/A		N/A	1. for FY 2021-2022: 40 Crores 2. for FY 2022-2023: 45 Crores 3. for FY 2023-2024: 50 Crores 4. for FY 2024-2025: 55 Crores 5. for FY 2025-2026: 60 Crores
RD1.3	Regular cleaning of street surfaces and spraying of water to suppress dust.	Quotation is yet to be called. It will be carried out after the Election model of conduct	To augument existing water supply arrangement, it is proposed to procure water tankers for watering of plants, shrub trees in Chennai City	31.12.2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3Cr
RD1.4	Black-topping of unpaved road	Underground utilities works is in progress	95.96 km	30.03.2022 30.03.2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1. for FY 2021-2022: 71 Crores 2. for FY 2022-2023: 70 Crores
RD1.5	Minimize earth cutting from the hills to prevent dust generation.	Not applicable	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RD1.6		1. 16 Km/ day is covered by mechanical sweepers     2. Mechanical sweepers are deployed in all major bus road	Regular Activity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RD1.7	End-to-end paving of the road	Steps taken	N/A	Mar-27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5000 Lakhs
RD1.8	Road design improvement	Providing and Improvements to Sign Boards and Gantry Girders		30.03.2022 30.03.2023 30.03.2024 30.03.2025 30.03.2026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1. for FY 2021-2022: 5 Crores 2. for FY 2022-2023: 6 Crores 3. for FY 2023-2024: 8 Crores 4. for FY 2024-2025: 10 Crores 5. for FY 2025-2026: 12 Crores
RD1.9	Introduce water fountain at major traffic intersection	Steps teken	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Widening of Roads	Land Plan Schedule prepared	24 roads, area 175256.66 sqm	30.03.2022 30.03.2023 30.03.2024 30.03.2025 30.03.2026	N/A	N/A	N/A	N/A	N/A	N/A		N/A	1. for FY 2021-2022: 536 Crores 2. for FY 2022-2023: 536 Crores 3. for FY 2023-2024: 536 Crores 4. for FY 2024-2025: 536 Crores 5. for FY 2025-2026: 536 Crores
RD1.11	Improvement of infrastructure for deconquestion of road.	Steps taken	N/A	Mar-27		N/A	N/A	N/A	N/A	N/A	N/A	N/A	10000 Lakhs
RD1.12		Steps taken	Improvements to Centre Median , Traffic Island, laying speed breakers and thermoplastic paint works		30.03.2022 30.03.2023 30.03.2024 30.03.2025 30.03.2026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1. for FY 2021-2022: 10 Crores 2. for FY 2022-2023: 12 Crores 3. for FY 2023-2024: 14 Crores 4. for FY 2024-2025: 17 Crores 5. for FY 2025-2026: 20 Crores
RD1.13	Implement truck loading guidelines; use of appropriate enclosures for haul trucks; gravel paving for all haul routes.	Steps taken notification for truck loading guidelines	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RD1.14	Identify road stretches with high dust generation	Number of road stretches identified and action	Identification of High Dust routes under	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Create Proper Pedestrian Infrastructure	plan  Proper Pedestrian facilities created at various locations across Chennai	progresss  Development of Pedestrian Plaza	November 2019	N/A	N/A	1.65 Km	N/A	N/A	39.86 Crores under Smart City Fund	39.86 Crores	N/A	N/A
			Development of Smart Roads - 16 Nos. of roads	2020	N/A	N/A	N/A	N/A	N/A	66 Crores under Smart City	66 Crores	N/A	N/A

RD1	Road dust	Present Status	Target	Target Date	Deviation from Approved Action Plan Target	Annual Target	Field type	Attachm ent	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Funds Required
RD1.15	Create Proper Pedestrian Infrastructure	To ensure the safety of pedestrians, especially the vulnerable sections of the society such as elderly, women, children, students and differently-abled, during the year 2012 - 2020 the Corporation has completed footpath improvement along 107 Nosof Bus Route Roads and 70 footpath work is in under progress	In order to promote Non-Motorised Transport (NMT) to reduce pedestrian- vehicle conflict, pollution and traffic congestion, Greater Chennai Corporation have undertaken a project for widening the footpaths from 5 feet to 10 feet. 176 Km	30.03.2022 30.03.2023 30.03.2024 30.03.2025 30.03.2026 Highways March 2027	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1. for FY 2021-2022: 58 Crores 2. for FY 2022-2023: 64 Crores 3. for FY 2023-2024: 70 Crores 4. for FY 2024-2025: 76 Crores 5. for FY 2025-2026: 82 Crores Highways: 11500 Lakhs
RD1.16	All the canals/nullah's side roads should be brick lined. Proper plantation also carried out.	Steps taken	30 Canals in Chennai City work is in progress	Mar-22	N/A	N/A	N/A	N/A	N/A	ADB fund ( 3500 Crore) and KfW fun (1714 Crores)	N/A	N/A	N/A
RD2 RD2.2	Creation of green cover  Creation of green buffers along the traffic corridors and their maintenance	Strategic locations have been identified and estimates for the same have been prepared.	Plantation of trees of native varieties along the margins of arterial roads, inside school buildings, institution buildings, hospitals buildings, parks and playgrounds, burial grounds and other corporation buildings in Chennai city. It is proposed plant around 50000 tree saplings	31.3.2023	N/A	N/A	N/A	N/A	N/A	N/A	17.29 Cr	N/A	Highways: 5000 Lakhs
RD2.2	Creation of green buffers along the traffic corridors and their maintenance	Identification of locations (50,000/- only) — Completed Tendering – Yet to be done	Creation of <b>Urban Green Forest(MIYAWAKI</b> method) in the existing vacant OSR land and inside Parks in Chennai city.It is proposed to create a dense forest of an area about <b>1,65,000sq.m</b>	2018-019	N/A	N/A	N/A	N/A	N/A	N/A	26.50 Cr	N/A	N/A
RD2.3	Necessary changes in byelaws- Greening of open areas, gardens,community places, schools and housing societies	Formation of new parks . 61 no of park - work under progress. 22 no of park - tender will be called after the election model of conduct. 72no of OSR lands to be identified.	Plantation of trees of native varieties along the margins of arterial roads, inside school buildings, institution buildings, hospitals buildings, parks and playgrounds, burial grounds and other corporation buildings in Chennai city. It is proposed plant around 1,00,000 tree saplings	31.12.2021	N/A	N/A	N/A	N/A	N/A	N/A	34.58 Cr 157.71 Cr	N/A	N/A
RD2.3	Necessary changes in byelaws- Greening of open areas, gardens,commun	Under AMRUT scheme, 51 new parks have been	Formation of new 155 nos parks Completed	2015-2019	N/A	N/A	N/A	N/A	N/A	N/A	34.73 Cr	N/A	N/A
	ity places, schools and housing societies	planted in OSR lands from 2015-2019	Improving the quality of air in built-up areas. Combating the spike in pollution and acting as a natural sound proofing barrier	2018	N/A	N/A	Vertical Gardens in Piers of Grade separators in Gopathi Narayana road	Yes	Details on the steps	0.32 Crores under Smart City Fund	0.32 Crores	N/A	N/A
RD2.4		Vertical Gardens created under the flyovers in Chennai	It it proposed to create vertical gardens in important office buildings like Greater Chennai Corporation, school buildings, parks, community centre buildings and in facades of bridges in an area of about 10000 m <sup>2</sup>	31.3.2023	N/A	N/A	N/A	N/A	N/A	15.6 cr	N/A	N/A	N/A
RD2.5	Builders should leave 25%/33% area for green belt in residential colonies to be made mandatory.	Guidelines to be issued		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RD2.6	Adopt street design guidelines for paving of roads and footpaths (hard and soft paving) and vegetative barriers.	Notification issued	Publication of Complete Street Design guidelines	February 2020	N/A	N/A	Yes	Yes	Commissioner order for publication is attached. Copy of the street design guidelines published in GCC Website	N/A	N/A	N/A	N/A
RD2.7	Implementation of maintaining at least 33% forest cover area in the city in master plan.	Steps taken	Steps have been taken to increase green cover in chennai city and also for the creation of neighbourhood parks in vacant OSR lands vested with Greater Chennai Corporation	31.3.2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RD3	installation of WAYU (Wind Augmentation and Purifying Units) at urban traffic intersection.	Required for future requirements	Required for future requirements	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C&D1	Construction Activities												

RD1	Road dust	Present Status	Target	Target Date	Deviation from Approved Action Plan Target	Annual Target	Field type	Attachm ent	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Funds Required
C&D1.1		Transportation of construction and demolition waste are carried out in covered vehciles	Regular Activity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C&D1.2	screens, side covering of digging sites, etc.)	The CPCB Guidelines have been followed	Regular Activity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Restriction on storage of construction materials along the road.	Steps taken. Challans are bing issued for illegal storing of materials along the raod side	Regular Activity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C&D1.4		Followed through notices	Regular Activity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C&D1.5	waste in the city	15 locations are identified for transportation of C & D waste	Regular Activity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C&D1.6	To mandate facility of tar road inside the construction site for movement of vehicles carrying construction material	Steps taken	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C&D1.7	Promotion of the use of prefabricated blocks for building construction	Steps taken	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Steps taken	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C&D1.9	Control measures for fugitive emissions from material handling-conveying and screening operations	Steps taken	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C&D1.10	Develop and implement dust control measures for all types of construction activities buildings and infrastructure.	Notification on dust control measures issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C&D1.11	Enforce restrictions on construction activities within urban airshed zones during high pollution period	Notification on High pollution period measures issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C&D1.12	Frame and implement policy for segregation of construction and demolition waste and provide a network of decentralized C&D waste segregation and collection sites across the city.	Bye law framed	NA .	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C&D1.13	Promote recycling of construction and demolition waste.	Processing of Construction and Demolition waste from Zone 1 to 8 at the designated processing facility site (Kodungaiyur)	NA .	31.12.2021	N/A	N/A	N/A	N/A	N/A	N/A	29.17 Cr	N/A	N/A

			VEHICLES										
VE1	Improve and strengthen PUC programme	Present Status	Target	Target Date	Deviation from Approved Action Plan Target	Annual Target	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Funds Required
VE1.1	Number of PUC centers in the city	42 PUC centers in the city	NA	31-03-2024	NA	NA	NA	Yes	Report from TN Transport department	NA	NA	NA	NA
VE1.2	Regular checking of Vehicular emission and issue of Pollution under Control Certificate (PUC)	No.of check report issued for not carrying PUCC (from year 2015- 2020)- 12905	NA	NA	NA	NA	NA	Yes	Report from TN Transport department	NA	NA	NA	NA
VE1.3	Auditing and reform of Pollution Under Control (PUC) certification	PUCC issued (from year 2015- 2020)-1033321	NA	NA	NA	NA	NA	Yes	Report from TN Transport department	NA	NA	NA	NA
VE1.4	linking of PUC centres with remote server and eliminate manual intervention in PUC testing.	All the PUC centres in Tamil Nadu were linked with Vahan portal. 1. Total No.of Emission Testing Centres (from year 2015-2020)- 127 Nos 2. No.of Emission Testing Centres linked with vahan data base (from year 2015- 2020)- 41 Nos	NA	NA	NA	NA	NA	Yes	Report from TN Transport department	NA	NA	NA	NA
VE1.5	Integrate on-board diagnostic (OBD) system fitted in new vehicles with vehicle inspection.	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE1.6	Link PUC certificates with annual vehicle insurance		NA	NA	NA	NA	NA	Yes	Notification copy				
	Vehicle labelling or sticker programme	Steps taken	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE3.1	Freight transport Use of off-peak passenger travel times to move freight and restrict the entry of heavy vehicles into cities during the day to continue	Steps taken	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE3.2	Provide truck rest areas/parks along national and state highways to prevent entry of trucks into cities during peak hours.	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE3.3	Diversion of truck traffic		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE3.4	Check overloading: Use weigh-in-motion bridges / machines (WIM) and Weigh bridges at entry points to the city to check the payload of commercial vehicles. As per the CMVR, a penalty of 10 times the applicable rate for overloaded vehicles is applicable.	Entry points with weigh-in- motion bridges / machines (WIM) Total number of entry points 1. No. of vehicles for which check report issued for overloading of goods (from year 2015- 2020)- 816 2. CF collected (from year 2015- 2020)- 7307916	NA	NA	NA	NA	NA	Yes	Report from TN Transport department	NA	NA	NA	NA
VE3.5	Define routes, permits, fares, vehicle design and safety standards, and vehicle technology standards for para-transit vehicles.	Steps taken  1. No. of Autorickshaw permits issued (from year 2015- 2020)- 17835  2. No. of Autorickshaws plying with alternate fuels (from year 2015- 2020)- 12813	NA	NA	NA	NA	NA	Yes	Report from TN Transport department	NA	NA	NA	NA
VE4	Clean fuel and fuel Quality	Pogularly shorting in heim		-									
VE4.1	Check on fuel adulteration and random monitoring of fuel quality data	Regularly checking is being carried out at fuel outlets at food and consumer departement	Continuous process	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

VE1	Improve and strengthen PUC programme	Present Status	Target	Target Date	Deviation from Approved Action Plan Target	Annual Target	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Funds Required
VE4.2	Alternative clean fuel policy for vehicle	Total Fuelling Stations- 42     Nos     A total of 7 Bio CNG plants     are being established with     the capacity of 650 M.T. per     day	NA	31-03-2022	NA	NA	NA	Yes	Yes	NA	NA	NA	NA
VE4.3	Bio fuel policy	To be notified	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE5	Parking Management												
VE5.1	Prevent parking of vehicles in the non-designated areas	Action on parking on vehicle in the non-designated areas are taken by traffic police	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VEF 2	Development of Multi-Javar parking	Number of multilayer parking constructed. MLP at an extent of 43500 Sq.ft under Smart City Mission 2018 Fund at Thanikachalam Road. (2 Basements +G +5 Floors) with 513 Nos. of 2 wheelers & 222 Nos. of 4 wheelers parking facility	1	February 2021	NA	NA	1 location	Yes	Details of the sites	40.79 Cr under Smart City Fund	40.79 Cr	40.79 Cr	
VE5.2	Development of Multi-layer parking	Multi level Parking at Uthamar Gandhi Salai, Nungambakkam	Area = 0.6 Acre, 2 Basements+ Stilt + 13 Floors with 320 Nos. of 2 wheelers & 238 Nos. of 4 wheelers parking facility	31-03-2024	-	NA	1 location	Yes	Details of the sites	-	-	-	50 Cr
		Multi-modal Facility Complex (MMFC) at Broadway Bus Terminus	Area = 4.42 Acre,Bus Stand + MLCP + Commercial Space with 124 Bus Parking, 1900 Car Parking and 2500 2-wheeler parking	31-03-2024	-	NA	1 location	Yes	Details of the sites	-	-	-	500 Cr
VE5.3	Penalise parking of vehicles in non designated areas	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE6	Strengthening of Public Transportation												
VE6.1	Regulate the taxi industry	2. Taxi running with alternate fuels (from year 2015- 2020)-70	NA	NA	NA	NA	NA	Yes	Report from TN Transport department	NA	NA	NA	NA
VE6.2	Assess and introduce a city bus system of appropriate fleet size of small buses and desirable bus type replete with GPS tracking, ETVMs for fare collection and Passenger Information Systems.  Develop route plan for bus operation; target trunk roads	Mission 2018 2. Safe City project under Nirbhaya Scheme	NA	31-03-2024		NA	NA	NA	NA	NA	NA	NA	NA
VE6.3	Develop route plan for bus operation; target trunk roads	Steps taken	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE6.4	Intermediate public transport (IPT) and bus system	Steps taken Total No. of Autorickshaw permits issued - 106809 Nos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

VE1	Improve and strengthen PUC programme	Present Status	Target	Target Date	Deviation from Approved Action Plan Target	Annual Target	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Funds Required
VE6.5	Introduction of new electric buses (with proper infrastructure facilities such as charging stations) and CNG buses for public transport which will reduce plying of private vehicles on road and help to curb tail-pipe emissions.	Steps taken 1. No. of E-buses registered - 4 Nos 2. Tax concession given to E buses - 4 Nos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE6.6	CNG infrastructure for auto gas supply in the city and transition of public transport vehicles to CNG mode Introduction of e-buses for Public transport in metro cities	Steps taken	NA	31-03-2024	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE6.7	Steps for promoting battery operated vehicles like Erickshaw/ECart	Total of 10727 Nos. of BOV Sanctioned out of which . E- Rickshaw with cart 2802, two wheeler- 7512, e- Motor car- 408, three wheeler- 5, Motor cab- 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE6.8													
VE6.9 VE7.	Traffic Congestion			-									
VE7.1	Conducting audit of traffic intersections and install functional traffic signals at all major intersections	frequency of audit per annum, operational traffic signals/total traffic signals for major intersections					Number (2)						
VE7.2	Synchronize traffic movements/Introduce intelligent traffic system for lane-driving	Steps taken	NA	31-03-2024	NA	NA	Intelligent Transport system under Smart City Mission	Yes	Details of the Project	NA	NA	NA	NA
VE7.3	Prepare plan for construction of diversion ways/ bypasses to avoid congestion due to nondestined vehicles.	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE7.4	Prepare plan for widening of road and improvement of infrastructure for decongestion of road.	Steps taken Widening of 24 road stretch	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE8	Launch Public awareness campaign for air pollution control, vehicle maintenance, minimizing use of personal vehicle, lane discipline, etc.	Steps taken	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE9	Periodic calibration test of vehicular emission monitoring instrument.	SOP for calidbration of emission monitoring instrument prepared.     Emission Testing Centres inspected- 184 nos	NA	Regular and continuos activity	NA	NA	NA	Yes	Report from TN Transport department	NA	NA	NA	NA
VE10	To check the calibration of emission monitoring equipments, housed in Emission Testing Centers (ETCs) once in 6 months to know the status of equipments	Periodical checking done	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE11	Phase out old vehicles and vehicle scrappage policy												
VE11.1	Inspection /maintenance to all BSII & BS III	BS III and BSIV vehicle are used by transport coporation and regualr maintaince and inspectionis carried out	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE11.2	Restriction on plying and phasing out of 15 years old commercial diesel driven vehicles.	Total number of 15 yr old diesel vehicles- 1002526	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE11.3	Enforcement of law against visibly polluting vehicles: remove them from road, impose penalty, and launch extensive awareness drive against polluting vehicles.	Preriodical checking are being done	NA	Regular and continuos activity	NA	NA	NA	NA	NA	NA	NA	NA	NA

VE1	Improve and strengthen PUC programme	Present Status	Target	Target Date	Deviation from Approved Action Plan Target	Annual Target	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Funds Required
VE11.4	Initiate steps for retrofitting of particulate filters in diesel vehicles, when BS-VI fuels are available.	To be notified	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE11.5	To increase fine on vehicle owners (not drivers) where the visible smoke is emitted and noticed.	Nil	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE11.6	Examine existing framework for removing broken down buses or trucks from roads and create a system forspeedy removal and ensuring minimal disruption to traffic from such buses or trucks.	Steps taken	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE11.7	The restriction on use of two stroke vehicles in phased manner (2-Stroke, 3-stroke)	Still plying	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VE12	NMT	1											
VE12.1	Introducing cycle tracks along with the roads	Kilometres of bicycle paths and lanes per kilometer of	About 0.8 Km of Taluk office road, Adyar area in Chennai shall be developed as NMT network zone with dedicated cycle track	01-03-2022			0.8 Kilometres 2 lane + 1 lane	Brief Report on development of Taluk Office Road is attached	Details of Cycle Track Project - Taluk Office Road	21.00 Crore	21.00 Crore	-	-
	and the second space along man are reader	road and wider footpath - 100 Kilometers	Bicycle Lane Project - 17 Km	June 2018	-	-	17 Kilometres	Brief Note on Bycle lane project		0.36 Crores funded by Smart City Fund	0.36 Crores	-	-
			Preparation and Implementation to develop an NMT Network along Khader Nawaz Khan (KNK) Road of length 0.65 Km	01-03-2022	-	-	0.65 Kilometres	Brief Report on development of NMT network for KNK road is attached	Details of NMT Network - KNK road	17.00 Crore	17.00 Crore		
VE12.2	Prepare and implement zonal plans to develop an NMT network		About 40 Km length streets in Chennai shall be developed as NMT network zone with dedicated cycle track and wider footpath in Phase - II (Under Medium Term Plan)  About 40 Km length of streets in Chennai shall be developed as NMT network zone with dedicated cycle track and wider footpath in Phase - III (Under Long Term Plan)	December - 2023 (Medium Term Plan) December - 2025 (Long Term Plan)	-	-	8o Kilometres	-	Preparation of DPR is in progress	-	-	-	Rs.1040 Crore (Under Medium Term Plan) Rs.1040 Crore (Under Long Term Plan)
VE13	Compact city development to reduce distances and improve access	To be followed	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

### WASTE AND BIOMASS- DUMPING AND BURNING

BB1	Biomass Burning	Present Status	Target	Target Date	Deviation from Approved Action Plan Target	Annual Target	Field type	Attachme nt	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Funds Required
BB1.1	Regular check and control of burning of municipal solid wastes	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB1.2	Defaulters for open burning to be imposed fines	Not Applicable - No Open burning	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB1.3	Identify Garbage burning locations and	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB1.4	Prohibition/complete ban on garbage burning.	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves,		N/A	NIA.	NA		NA				NIA.	NA.	N/A
BB1.5	etc.	Not Applicable	NA	NA	NA NA	NA	NA	NA	NA	NA	NA	INA	NA
BB1.6	Construction of advanced waste management Site.	Site constructed	393 locations for wet and dry waste processing Daily collection	2019	-	Regular	Yes	Yes	Report on the site including its location, images, capacity				
BB1.7	Regular collection and control of municipal solid wastes.	MSW (in ton per day) collected every day and Total Generated MSW of the city	and control of municipal solid wastes	Regular		Regular	5100 MT per day						
BB1.8	Providing Organic Waste Compost machines , decentralization of processing of Waste, dry waste collection centers.	Number of machines for organic waste compost and waste processing and dry waste collection centers	locations for wet waste processing	2019			Number (3)	Yes	Details of the sites and machines including images, location, waste collected/processed per day				
BB1.9	Awareness for controlling of burning of agricultural waste and crop residues.	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB1.10	No plot should be left open more than 02 years and planting of trees must be mandatory on vacant plots.	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB1.11	Dead Bodies of Animals should be disposed through proper treatment facility like rendering plant etc	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB2	Ensure segregation of waste at source	Number of authorised colonies where waste segregation at source is being practised and total number of authorised colonies - 1767 Colonies					1767 no. of Colonies	Yes	Details on the colonies and the actions taken by Municipal body to ensure it				
ввз	Proper collection of Horticulture waste and its disposal following composting- cumgardening approach	Number of composting cum gardening sites development - 5 Sites	Developme nt of 5 sites	2019-20	-	One-time activity	5	Yes	Details of the sites	Processing Fee - Rs. 9.64 Crores	NA	NA	NA
			locations for dry waste										
BB4	Recycling plants for dry waste.	Number of recyling plants identified - 186 Nos.  1) Kear unite air quality monitiporing by TNPCD -  4 locations	processing	2019			Number	Yes	Details of the plants				
BB5	Ambient air quality monitoring of municipal dumping sites and parks	Real time air quality monitoring by Greater Chennai Corporation under Smart City - 18 locations	22 locations	2020	-	NA	22 Nos.	Yes	Details of the monitoring system	NA	NA	NA	NA
BB6	Check/stop on Stubble Burning	Not Applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB7	Action plan to minimize the forest fire	Not Applicable	NA	NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA	NA	NA NA
BB8	Use of Piped Natural Gas (PNG) for Human cremation.	Number of cremation sites which use PNG	NA	NA	NA NA	NA NA	NA	NA	NA NA	NA	NA		NA
	Use of satellite based monitoring as well as mobile spot check squads for											1	
BB9	enforcement	Steps taken					Text	Yes	Details on the steps				
BB10	Landfill fire												
	Proper management of landfill sites to prevent spontaneous fire	Steps taken - Tanker Lorries stationed at site	6000 litres capacity tanker lorry stationed at landfill sites with motor facility	2020			2	-	-				
BB10.2	Adopt roadmap for zero landfill policy to promote decentralized waste segregation, reuse and recycling	Steps taken - Constructed Decentralise processing centres	,	2020			Constructed Decentralised processing centre	Yes	Annexure same as BB 1.6				
BB11	Fire crackers—regulate to control their usage	Not Applicable	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	NA	NA
		. P				1	<u> </u>				1		
DF1	Domestic Fuel					1				<b>†</b>	1		
DF1.1	Increasing the LPG connections in low income strata.	PMUY		<del>                                     </del>		1	Number (2)			<del>                                     </del>		+	
DI 1.1	Proceeding the E. C. Connections in low meeting status.	1	1			1	1.10.11001 (2)	l	1	1	1		L

		Present Status	Target	Target	Deviation from	Annual	Field type	Attachme	Attachment Contents	Total	Funds	Funds	Additional
BB1	Biomass Burning		_	Date	Approved Action	Target		nt		Funds	released	Utilized	Funds
DDI	Ensuring promotion and use of cleaner fuel (i.e. LPG) instead of coal fired chulas or fire-	No Govt.Policy available; commercial			Plan Target					Allocated			Required
l													
DF1.2	woods in the hotels and open spaces	establishment to spend for change over					Text	Yes	Details on the steps				
	Introduce schemes for providing subsidized LPG connections as well as providing means												
	of finance to small tea vendors/hawkers using kerosene stoves in order to reduce	No scheme by Govt. of India; policy decision											
DF1.3	emissions from burning of kerosene	awaited					Text	Yes	Details on the scheme				.
DF1.4	To mandate LPG/Bio gas in commercial eateries.	Policy decision awaited					Yes/No	Yes	Notification copy				
DF1.5	Ensuring 100% electrification and uninterrupted electric supply with in the city.						Number (2)						
	Ensure easy availability of affordable cleaner cooking fuels (LPG in urban areas & biogas												
DF1.6	in rural areas)	OMC's are continuing efforts					Text	Yes	Details on the steps				.
DF1.7	Introduction of improved chullahs (low emission chullahs)	Steps taken					Text	Yes	Details on the steps				
DF1.8	Implemen tation of Pradhan Mantri Ujjwala Yojana (PMUY)	Continuous efforts					Text	Yes	Details on the steps				
DF1.9	Shift to LPG from solid fuel & kerosene for domestic applications	Continuous efforts by OMC's					Number						
DF1.10	Use of LPG in Bakeries	Pursued by OMCs					Number (2)						
DF1.11	Adopting Better construction practices with PM reduction of 50%						Text	Yes	Details on the steps				

## FOOD, CIVIL SUPPLIES AND CONSUMER PROTECTION DEPT.

Source Group	Action points	Target	Target date	Deviation from the approved action plan	Annual target	Attachments	Total funds allocated	Total fund released	Fund utilized	Additional fund required		
	Increasing the LPG connections in low income strata	Government schem	e rolled out earlier and late	Madurai 99 % in Trichy 101 st PMUY by Government of oss the counter availability	India LPG connections we	re released to mo	st of low income s	trata. The recent Pf	MGKY by GoI has fu			
	Ensuring promotion and use of cleaner fuel (i.e LPG) instead of coal fired chulas or firewoods in the hotels and open spaces	Long term	one year	NA	Oil marketing companies used. If such data is avail them to LPG. With the av LPG cylinders for ease of	able with State Grailability of comn	overnment or Pollu	tion Control Borad,	a concerted effort o	can be made to convert		
	Introduce schemes for providing subsides LPG connections as well as providing means of finance to small tea vendors/hawkers using kerosene stoves in order to reduce emissions from burning of kerosene	Subsidy decisions a	re governed by Govt. polici	es.								
Domestic Fuel	To mandate LPG/Bio gas in commercial eateries	Such mandates are	not in the purview of Oil Ma	arketing companies								
	Ensure easy availability of affordable cleaner cooking fuels (LPG in urben areas and bio gas in rural areas)		•	on of 100% in Tamil Nadu. V Iternate green fuels promot		ire of 19 bottling	plants of OMCs in s	itate, product availal	bility is ensured, evo	en during natural		
Implementation of Pradhan Mantri Ujjwala Yojana (PMUY)  Already implemented. The PMUY campaign as been effective and almost all households not having LPG connections have been converted. 32.4 lakhs customers covered under PMUY scheme OMCs in Tamil Nadu.( District wise- Chennai - 0.28 lakhs; Madurai - 1.27 lakhs; Trichy- 1.17 lakhs. Shall talk about 2.0												
	Shift to LPG from solid fuel & kerosene for domestic applications  Already implemented. LPG is a very accessible fuel with the penetration of 100% in Tamil Nadu.											
	Use of LPG in bakeries	Long term	One year	NA	Oil marketing companies available with State Gove Commercial establishmen	rnment or Polluti	on Control Board, a		-	-		

# Projects taken up under NCAP - XVFC

		riojects tak	en up under NCAP	AVIC	
S.No	Source Group & Approved Action Points	Activity	Department	Project Cost	Expenditure incurred so far under NCAP - XVFC
		(Concerned department)		(in Cr.)	(in Cr)
1	Source apportionment and carrying capacity assessment for Chennai city	IOR/IIT Madras		2.24	1.12
2	Vehicle / NMT- Introducing cycle tracks along the roads.	Creation of leisure cycle track with vibrant landscape along the banks of Buckingham Canal from Kasturibai MRTS to Indira Nagar MRTS station, Reach-I & II	Special Projects	20	10
3	Vehicle / NMT- Introducing cycle tracks along the roads.	Redevelopment of Kalvivaru Street in Dn- 124, Zone-9	Special Projects	3.53	3.21
4	Road Dust / Creation of Green Cover – Urban Greening with vertical Garden	Plantation under bridges	Bridges		7.3
5	Vehicle / NMT- Introducing cycle tracks along the roads.	Forming footpath in bus route roads	BRR	96.87	70.04
6	Road Dust / Creation of Green Cover – Creation of Green Buffers along the traffic corridors and their maintenance	Creation of urban	Parks and Playfields		6.2
7	Waste Dumping and burning – Construction of Advance Waste Management site	Windrow composting	Solid Waste Management	9.96	0.99
8	Waste Dumping and burning – Construction of Advance Waste Management site	Biomining	Solid Waste Management	18.48	1.85
9	Waste Dumping and Burning – Providing organic waste compost machines, decentralization of processing of waste, dry waste collection centers	Biogas/MCC/MRF	Solid Waste Management	10.73	1.07
10	Waste Dumping and burning – Regular Collection and control of Municipal Solid Waste	Collection and Transporataion of Municipal Solid waste	Solid Waste Management	91.83	79.22
		Total		253.64	181