## Revised Action Plans for Control of Air Pollution in Bengaluru City

1	Nam	ne of the City	Bengaluru			
2	Air l	Pollution concerns	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub>	and NO <sub>2</sub>		
3	Air ]	pollution levels: (provide range	Data enclosed			
	of 24	4-hourly average concentration				
	1	es; annual average for past				
		years; No. days in various AQI				
		gories)		li li		·
4	Mon	ths with high air pollution	January, February	, November, Dec	ember	
	level					
5		on plan:		2		
43 -	SI	Action	Implementatio	Time Target	Responsible	Actions are in Progress
Source	No		n period	for	Agency	
Sou			(Short- Mid-	implementat		
			Long) term	ion		
5	1	The restriction on use of two	Long	March 2020	Transport	All the Auto rickshaws plying in Bangalore city are
		stroke vehicles in phased			Department	converted into bi-fuel mode.
		manner (2-Stroke, 3-stroke) in	§ - ₽		#	
		Bangalore city.				
Š	2	To check the calibration of	Mid	June -2019	Transport	All the emission testing centers in Karnataka State are
Vehicles		emission monitoring			Department	connected to online network system and also these
/eh		equipments, housed in			ű.	centers are being audited on a regular basis. At the time
		Emission Testing Centers				of inspection, status of equipments functioning at the
		(ETCs) once in six months to			<u></u>	centers are also being checked for calibration and AMC
		know the status of equipments.				as well.
	3	Launch Extensive drive	Short	It is a	Transport	The Transport Department has been checking vehicular
		against polluting vehicles for		continuous		air pollution and noise pollution in Bangalore City. The

	ensuring strict	compliances		program and	Department	details of	action takes	n by the I	Department h	ave been
	and regulate the tra	affic		in progress	,-	published i	n newspap	ers in ord	er to bring a	wareness
	in the second se					about road	safety, air p	ollution/ sc	ound pollution	
						The Transp	ort Departi	ment has t	aken action t	o control
8	ii ii					overloading	of vehicle	s and also	for control o	of air and
						noise pollu	tion in Bar	ngalore. Th	e checking d	etails for
						the year 20	18 <b>-</b> 19 in Ba	ngalore Cit	y are as follow	ws:-
	0					2018-19 (A	pril 2018 to	January 20	019)	
		ļ.				Particula	No. of	No. of	Fine	
						rs	MVs	cases	Collected	
							Checked	Booked	(Rs.)	
			8			Air	2,62,082	1,6308	61,57,420/	
						Pollution			-	
	Y					Noise	2,30,008	4691	18,85,500/	
						Pollution			-	
	0	ĺ				Overload	1,07865	1206	90,18,213/	
14									-	
	7.70					The checking	ng of vehicl	es is being	carried out th	roughout
						the State fo	r control of	air and noi	se pollution.	

	4	Installation of remote sensor	Long	March-2020	Transport	The Transport Department has intended to enter into a
4		based PUC system			Department	memorandum of understanding (MOU) with Azim
						Premji Philanthropic Initiatives Pvt Ltd. Bangalore and
						Clean Air Platform to work on the following:-
						1. Assistance for conducting pilot of on-road remote
es						sensing of vehicle emissions in Bangalore as per
Vehicles					20	directions of the Hon'ble Supreme Court of India.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						2. Conduct on road real world emission testing of
						vehicles in Bangalore and public engagement
						campaign to raise awareness against use of highly
		*				polluting vehicles (study, research, policy making)
		_ *				3. Support technology assessment and pilots for
						retrofitting of particulate filers in diesel vehicles.

	5	Steps to promote	battery	Long	March 2022	Transport	The Government of Karnataka under the powers vested
		operated vehicles	1			Department	under section 74(3)(A) of Motor Vehicles Act 1988, has
			1				issued Notification No. 168 SAEPA 20158 (P),
			1 20				dt:6.5.2016 and published e-rickshaw scheme
			. B.				prescribing general conditions and permit conditions for
		9	1.6				the purpose of authorizing the operation of e-rickshaw
							vehicles throughout Karnataka State, except in the areas
							of BBMP limits. Further, the Government vide
						¥	Notification No. SARIE 76 ASEPA 2016, dated
			1				31.3.2016 has exempted all transport and non-transport
		65					battery operated vehicles from payment of road tax
							w.e.f.1.4.2016. Accordingly, the Transport Department
		8					has issued necessary instructions to all the Registering
							Authorities in the State to take suitable action in the
				*			matter. Further, the Registering Authorities are also
				*			being directed to register the e-rickshaws (special
) ses so es es s							purpose battery operated 3 wheeled vehicles) which are
						40 V	tested and issued with type approval certificates by the
							testing agencies in India as required under Rule 126 of
,			15				Central Motor Vehicles Rules 1989.
			1				Further, the Government vide Notification No. SARIE
les							48 SAEPA 2018, dated 26.3.2018, has accorded sanction
hic				6.	ii ii		for issual of 5000 Electric Auto rickshaw permits under
Ve							"Karnataka Electric Vehicle Policy 2017".Similarly,
cles							BMTC has initiated action to induct 1500 Electric buses
Vehicles Vehicles							in Bangalore city. Therefore the action to induct battery
>							operated vehicles is underway in phased manner.

	6	Initiate steps for retrofitting of	Long	March 2020	Transport	The remarks shown at Sl No. (4) Above holds good.
		particulate filters in diesel			Department	Further, the Transport Department has transferred an
		vehicles				amount of Rs. 4.0 crore by the way of Deposit
		8				contribution to BESCOM for the purpose of establishing
	Ja					the charging stations for electric vehicles.
	7	To carry out a survey to	Mid	June -2019	Police Dept.	BTP has identified some important Roads, which have
		identify more vulnerable roads			(Traffic)	congestions to regulate the traffic. The list of the Roads
		with respect to congestion so				are
		as to regulate the traffic.				1. Tumkur Road
		9				2. Bellary Road
						3. Kanakapura Road,
					29	4. Mysore Road
<b>20</b>						5. Hosur Road
Vehicles						6. Old Madras Road
/ehi						7. B.G Road
	8	To enforce lane discipline rules	Short	It is a	Police Dept.	Bangalore Traffic Police is booking cases of lane
		by stopping /parking of		continuous	(Traffic)	discipline. The No. of cases booked are as follows.
		vehicles at designated bus		program and		Year No. of lane discipline cases
		bays/stop.		in progress		booked
		4			11V 948	2016 3,97,618
						2017 4,58,167
		**				2018 3,64,368 (Upto 30.11.2018)
	9	Launch public awareness	Short	It is a	Police Dept.	Traffic Police has requested that, Pollution Control
		program Campaign for air		continuous	(Traffic)	Board should take initiative, Bangalore Traffic Police
		pollution control, vehicle		program and	10	will support.
		maintenance, minimizing the		in progress		
		use of personal vehicles, lane		=		
		discipline etc.				

	10	Prevents and penalize parking	Short	It is a	Police Dept.	As of now 95	Towing vehic	cles are there and	towing
7		of vehicles in non designated		continuous	(Traffic)	figure are as	follows.		
es		areas.		program and		Year	No. of veh	icle towed	
Vehicles		* * * * * * * * * * * * * * * * * * * *		in progress		Two	wheeler	Four wheeler	
Vel		1 2				2016 67,9	)22	17,622	
-,		9				2017 1,62	2,729	1,07,720	
						2018 17,8	318	88,713	
	11	To increase fine on vehicle	Mid	June -2019	Police Dept.	Bangalore Tr	affic Police	is booking cas	es against
		owners (not drivers) where the			(Traffic)	vehicles emitt	ing black smo	oke. The No. of ca	ses booked
		visible smoke is emitted and				are as follows			
Vehicles		noticed.				year	No. of	emitting black	
ehi							smoke ca	ses	
						2016		727	,,
						2017		671	
						2018		1810	

	12	To take action to remove dust	Short	It is a	BBMP	Bruhat Bengaluru Mahanagara Palike has an area of
		and silt from major roads		continuous		nearly 740.00 sq km. It is divided into 8 zones and the
		regularly by deploying		program and		total road network of BBMP is nearly 13,000 kms.
		mechanical sweeping vehicles.		in progress		Among this 13,000 kms road network the Major Roads
						(Arterial and Sub-Arterial Roads) comprise of 1400kms.
						In order to remove the dust from these roads which are
						deposited besides the kerb edges as well as on median
						sides, BBMP has already procured 2 years ago nearly 8
						truck mounted mechanical sweeping machines of 5 cum
17						capacity at a cost of Rs. 90.00 lakhs each (Total Cost for
						8 machines is Rs. 720.00 lakhs). Further, 1 ride on
		w.				machine of capacity 1 cum at a cost of Rs. 45.00 lakhs
						has been purchased to sweep smaller roads.
						During this year nearly 17 self propelled sweeping
						machines are being purchased at a cost of Rs. 135.00
						lakhs for each of the machines (Total Cost for 17
		20 -		2		machines is Rs. 2295.00 lakhs). The work order has
						already been issued for these machines and delivery will
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				happen in next 2 months time.
		1000				Further, BBMP has also moved a proposal to the council
						to hire 16 street sweeping machine at a hire cost of Rs.
						6.00 lakhs per machine per month. The proposal is
						before the council and awaiting approval.
						Further, BBMP has been provided grants under
						Nagarothanna to procure additional 16 street sweeping
						machines at a cost of Rs. 2160.00 lakhs. The tenders
		*		7		for these will be called once the model code of conduct
ity				50	ē	is removed.
activity			- 10			
l ĕ		I		1	I	

The work of filling up of potholes and road cuttings is a continuous work of maintenance and the same is being done regularly by the BBMP. In the last one year nearly 1,430 potholes have been filled up on major roads. Further, nearly 1,60,216 sq.mtr of damaged surface area has been rectified to make the traffic flow smooth. Further, regular asphalting and concreting of major roads as well as internal roads are being taken up for making the traffic flow smoother without causing congestion and noise and sound pollution.  14 To remove encroachment of footpaths by hawkers in market places and relocate in the designated places as per Street Vendors Act.  15 To construct more number of multilevel vehicle parking facilities.  15 To construct more number of multilevel vehicle parking facilities.  16 To construct more number of multilevel vehicle parking facilities.  17 To construct more number of multilevel vehicle parking facilities.  18 DBMP  It is a continuous work of maintenance and the same is being done regularly by the BBMP. In the last one year nearly 1,430 potholes have been filled up on major roads. Further, BBMP in the last one year nearly 1,430 potholes have been filled up on major roads. Further, BBMP in the last one year nearly 1,430 potholes have been filled up on major roads. Further, BBMP in the last one year nearly 1,430 potholes have been filled up on major roads. Further, BBMP in the last one year nearly 1,430 potholes have been filled up on major roads. Further, BBMP in the last one year nearly 1,430 potholes have been filled up on major roads. Further, BBMP in the last one year nearly 1,430 potholes have been filled up on major roads. Further, BBMP in the last one year nearly 1,430 potholes have been filled up on major roads. Further, BBMP in the last one year nearly 1,430 potholes have been filled up on major roads as well as internal roads are being taken up for making the traffic flow smooth. Further, BBMP in program and in program and in progress and relocate in the hawkers were nearly 1,430 p		12	T- :-:4:-44:1 6	M: J	I 2010	DDMD	The week of filling up of notheles and read outtings is a
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To construct more number of multilevel vehicle parking facilities.  March 2020  BBMP  In BBMP there are 2 MLCP's constructed on PPP Model viz., at Maharaja Complex near K.G.Road, at Garuda Mall near Commissariat Road and 1 MLCP constructed by BBMP on J.C.Road. Further, BBMP is constructing MLCP near Freedom Park for 500 car parks and 500 two wheeler parking at a cost of Rs. 95.00 Crores. The project is likely to be completed by	0.0						
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facilities.  Garuda Mall near Commissariat Road and 1 MLCP constructed by BBMP on J.C.Road. Further, BBMP is constructing MLCP near Freedom Park for 500 car parks and 500 two wheeler parking at a cost of Rs. 95.00 Crores. The project is likely to be completed by		13		Long	Maich 2020	DDIVII	
constructed by BBMP on J.C.Road. Further, BBMP is constructing MLCP near Freedom Park for 500 car parks and 500 two wheeler parking at a cost of Rs. 95.00 Crores. The project is likely to be completed by						15	
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parks and 500 two wheeler parking at a cost of Rs. 95.00 Crores. The project is likely to be completed by							10 June 10 Jun
95.00 Crores. The project is likely to be completed by							
	*						parks and 500 two wheeler parking at a cost of Rs.
December-2019							95.00 Crores. The project is likely to be completed by
Booting 2017.							December-2019.
			77				

				,		Further, under Smart City Project of Bengaluru, BBMP has proposed for construction of Multi Level Car Parking at Gandhinagar, near Hosmat Hospital and near Gandhi Bazar. Apart from these MLCP's of BBMP, there are many MLCP's constructed by BMTC during the construction of TTMC (Traffic and Transportation Management Centres).
Construction activity	16	To take action to enforce covering of construction and demolition debris carried through trucks and create/approve facility for reprocessing of C and D waste.	Mid	It is a continuous program and in progress	BBMP	To manage the construction and demolition waste in BBMP area, after due process of tenders the Government has accorded approval for setting up of 500 MT per day capacity C&D Plant at Kannur. This plant will be set up by the Agency at his own cost within a period of next 6 months. The process of collection of C&D waste from the City will be done by empanelment of agencies for collection of C&D waste from house hold and major builders.  Further, under Nagarothanna scheme the development of C&D plants Rs. 15.00 Crores has been provided by the Government.

2	17	To suppress the dust by using treated water of BWSSB by sprinkling on the roads during	Short	It is a continuous program and	BBMP	To suppress the dust from the roads as well as footpaths BBMP has planned for procurement of pressure jet cleaners/ washers which would help in cleaning of the
Road dust	4	night times in the areas where dust levels are high.		in progress	v - 0	roads and footpaths. Under Nagarothanna Grants Rs. 5.00 Crores has been provided for purchase of these pressure jet cleaners. These machines will be procured
ä						in the next 6 months time. The usage of these machines will be done with the treated water from BWSSB
						Treatment Plants.
	18	Strictly implement notification	Short	It is a	BBMP	BBMP has appointed Marshals for imposing penalty on
		No.FEE 06 ENG 2017 dated:		continuous		people burning solid waste in the City. In this regard,
		03.08.2017 issued by the		program and		each of the wards 1 junior health inspector has been
sə.		Department of Forest, Ecology		in progress		appointed to manage solid waste by segregation of wet
Sur		and Environment regarding				and dry wastes. There are more than 160 dry waste
nea		prohibition of open burning of				segregation centers established in BBMP limits to handle dry waste collected on day to day basis. BBMP
1 10.		solid waste in the city.				has also established 7 waste processing plants for
ntr	P		26 N			processing of wet waste to convert to compost. The
Other Air Pollution control measures	=					burning of waste is mainly by general public and trouble
luti	10,0		2			mongers who lit fire on open garbage on streets.
Poll		- A			7	Measures have been taken up to catch hold of such
ŗ						persons and impose penalty with the help of Marshals.
er /	19	To create green buffer along	Mid	June -2019	BBMP	BBMP has independent forest & Horticulture
Oth		the traffic corridor/ greening of				department which looks after plantation of Avenue Trees
		open areas, developing				and also development of parks. BBMP has developed
		gardens, greening in schools.				so far nearly 1,400 parks (small, medium, large parks).
						In order to develop these new parks and maintain these parks BBMP spends nearly Rs. 40.00 Crores per annum.
						parks obliver species hearty Ks. 40.00 Crores per annum.

· ,						Further, from the forest department every year Nursery is being developed and Rs. 2.00 Crores per year is earmarked for Avenue Plantation and pruning of tree branches.
Other Air Pollution control measures	20	To create separate space/zone/ to handle solid waste, C&D waste and any other waste in all BBMP wards / BDA new layouts	Long	March 2020	ВВМР	Bruhat Bengaluru Mahanagara Palike has an area of 740 sqkm and present population of BBMP is nearly 1.25 crores. Bengaluru generates nearly 4,200 MT per day solid waste. Out of these 4,200 MT of waste nearly 600 MT of waste is sent to 7 waste processing plants. Further, nearly 500 MT of wastes is processed at M/s. MSGP. BBMP has also established nearly 160 dry waste collection centers and in these DWCC nearly 100 MT of dry waste is handled. The remaining waste of nearly 2500 MT is scientifically disposed at landfill sites.
Other Air Pollutio						To manage the construction and demolition waste in BBMP, after due process of tenders the Government has accorded approval for setting up of 500 MT per day capacity C&D Plant at Kannur. This plant will be set up by the Agency at his own cost within a period of next 6 months. The process of collection of C&D waste from the City will be done by empanelment of agencies for collection of C&D waste from house hold and major builders.

	21	Prepare plan for widening of	Long	March 2020	BBMP	Bruhat Bengaluru Mahanagara Palike has already
		roads and improvement of	8			widened many of the roads since the year 2008. Among
		infrastructure for decongestion				them are Bellary Road, Palace Road, Race Course Road,
		of roads.				Sheshadri Road, Kasturba Road, Hosur Luskar Road,
						Mysore Road, Sankey Road, Dickenson Road etc.
						Further, BBMP has also taken up widening of
						Bannerghatta Road and Sarjapura Road at a cost of Rs.
						242.00 Crores and these works are under progress.
2		0				
* .		1				In order to develop the CBD Roads comprehensively by
						giving priority to pedestrians, cyclists, public transport
						and then to private transport, BBMP has implemented
						unique concept of road development involving all the
2		( )				aspects of urban road development called Tender SURE
7			*6			Project. In this project nearly 12 roads are completed at
		A di				a cost of Rs. 200.00 Crores. One such road is Church
			8			Street wherein the road is primarily developed keeping
						in view the pedestrian safety. Similarly, other roads
0.00						developed under Tender SURE are St. Marks Road,
	6.0				8	Commissariat Road, Museum Road, Residency Road,
		*			=	Richmond Road, Cunningham Road, Vittal Mallya
2						Hospital Road, K.G.Road, Nrupatunga Road, Siddaiah
						Puranik Road, Modi Hospital Road. In the 2 <sup>nd</sup> Phase
		- 4				and 3 <sup>rd</sup> Phase BBMP has planned to take up another 42
		1 10				roads development under Tender SURE Project at a cost
		M				of nearly Rs. 450.00 Crores.

Further, BBMP in order to make the traffic smooth and long life of the roads has made plans to construct White Topping Roads in BBMP area. This road has a life span of nearly 25 to 30 years and free from potholes. In the 1st phase of implementation out of 92 kms, nearly 25 kms has been white topped. The total project cost in the 1st Phase is nearly Rs. 600.00 Crores and nearly 29 roads will be white topped. In the 2nd Phase 42 roads are taken up for white topping at a project cost of Rs. 690.00 Crores and tenders are already finalized and work orders are issued. These works will be started soon and completed within a period of one year.

BBMP so far as constructed nearly 11 Flyovers and 19 Underpasses in its jurisdiction. Further, BDA has constructed nearly 21 Flyovers and 6 Underpasses and the same are handed over to BBMP for maintenance purpose and the same are being maintained. BBMP also constructing Signal Free Corridors on Old Airport Road, Old Madras Road, Outer Ring Road. Many of the Grade Separators are being planned by BBMP. The work on 8 lane corridor at Okalipuram at a cost of Rs. 127.00 Crores is under progress. Similarly, Elevated Corridor of nearly 2.4 kms, is under construction on Inner Ring Road from Ejipura Junction up to Hosur Road via Sony World Junction and Water Tank Junction (Sarjapura Road Junction) at a cost of Rs. 214.00 Crores.

Other Air Pollution Control measures	22	Plant specific native species which are absorbing fine dust where the pollution levels are very high viz., Central Silk Board, Whitefield industrial area, Mysore road and other areas.	Long	March 2020	ВВМР	BBMP has independent forest & Horticulture department which looks after plantation of Avenue Trees and also development of parks. BBMP has developed so far nearly 1,400 parks (small, medium, large parks). In order to develop these new parks and maintain these parks BBMP spends nearly Rs. 40.00 Crores per annum. Further, from the forest department every year Nursery is being developed and Rs. 2.00 Crores per year is earmarked for Avenue Plantation and pruning of tree
Industrial pollution Ott	23	KIADB to earmark adequate land in industrial areas surrounding Bangalore for the purpose of establishing truck terminals by the Department of Transport & Road safety	Long	March 2020	KIADB	branches.  KIADB is earmarking and reserving 5% of the total industrial area for "Surface Parking" in all new industrial Areas developed/developing by KIADB.  Details of Surface Parking Areas earmarked in new Industrial Areas of KIADB in Bangalore Metropolitan Region
	24	Department.  Blacktopping of metalled roads including pavement of road shoulders	Long	It is a continuous program undertaken	BBMP	It is a continuous program and planned in a phased manner
Construction activity	25	To increase the green cover by planting trees in Bangalore city where empty spaces are available on road sides, industrial premises, public parks, etc.	Mid	It is a continuous program undertaken	BBMP	It is a continuous program and planned in a phased manner

	26	To establish truck terminals on	Long	March 2020	BDA	The proposal is incorporating in BDA revised Master
		all major highways leading to				Plan-2031. In this regard, awaiting Government
		Bengaluru in a phased manner.				approval.
	27 To create separate bus bays in Long			March 2020	BBMP	BBMP has created separate bus bays in Bengaluru city.
		new proposed BBMP, BDA		_		×
		layout and Private layouts				
	28	To construct flyovers/under	Long	March 2020	BBMP	It is a continuous program and planned in a phased
		pass at congested / highly				manner
		traffic intersection of BBMP				
		area in phased manner.				Y
	29	To create water fountains at	Mid	June -2019	BBMP	It is a continuous program and planned in a phased
		traffic intersections like				manner
		Upparpet Police stations,				
		Corporation circle, M.G.Road,				
		Cauvery bhavan, Vidhana		*1		
		Soudha, K.R.Circle, Majestic,			W.	
		Railway stations etc to reduce				
		air pollution in traffic				
		intersections and also give an				1977 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
		aesthetic look to that place.	, K		V	
	30	Prevent and penalize	Short	It is a	Food and	The Department informed that, there is no adulteration
l g		adulteration of fuel with cheap		continuous	Civil	of fuel found during 31 inspections. However, the
atio		oils and solvents.		program and	Supplies	inspections will be carried out regularly to check the
Fuel Adulteration		* 8		in progress	Department	adulteration and reviewed in the AQMC meetings.
	31	Gradually restrict sale of un-	Long	Mar-2020	Food and	The Karnataka State Pollution Control Board through
lel /		scientifically reprocessed oil	,		Civil	regular inspections ensure that, all the used oil generated
F		by the street vendors			Supplies	is diverted to the registered reprocessing units under the
					Department	Hazardous Waste Management Rules -2016. The Food

					and KSPCB	and Civil Supplies Department initiate the action against the street vendors selling un-scientifically reprocessed oil through regular inspections.
Fuel Adulteration	32	Periodic check of all petrol bunks established in Urban and Rural Districts of Bangalore and initiate action against the	Short	It is a continuous program and in progress	Food and Civil Supplies Department	The Department is conducting periodic checks in all petrol bunks.
Adı		violators.		in progress	Bepartment	
	33	To complete Metro Rail Route (Reach 2 & 3) as per schedule.	Long	Dec -2020	BMRCL	Bangalore Metro Rail route reach-2 & 3 will be completed as per the schedule.
Construction activity	34	To sweep the street using mechanical suction vacuum cleaner, where the metro construction work is under progress and sprinkle water to suppress the dust emission	Short	It is a continuous program and in progress	BMRCL	Action has been take to sweep the street using Mechanical Suction vacuum cleaner and sprinkling of water to suppress the dust emission at metro construction work site.
Con	35	To remove the C & D waste that is already dumped in the lakes in phased manner	Short	It is a continuous program and	BMRCL	Action has been taken to remove the C & D waste dumped in the Kengeri lake.
		(Ex.Kengeri and other lakes).		in progress	8	P ST

	36	To phase out all BS-III vehicles	Mid	June -2019	BMTC	BMTC has a practice of scrapping the buses, which
		and to increase BH –IV fleet		=		have covered 8.5 lakh kms or 11 years of operation
		size of Bangalore Metropolitan				(whichever is earlier). As per this practice all BS-III
		Transport Corporation				vehicles will be phased out which are eligible as per the
		gradually.				norms. At present, BMTC is operating 3000 BS-III
						norm buses, the procurement of these buses was stopped
						during September-2011 onwards and only BS-IV norm
						buses are being procured and at present there are 3437
						BS-IV norm buses in operation. All the BS-III norm
						buses will be scrapped in phased manner as and when
						they are eligible for scrapping.
	37	To increase the Bus service to	Short	It is a	BMTC	At present transport facilities are being provided to
· 202		all the satellite bus stands and		continuous		different parts of city and sub urban areas of Bangalore
icle		last destination of BBMP area		program and		from important Bus Stations as per the demand and
Vehicles		, ,		in progress		requirement of the public.
		49				BMTC operational jurisdiction is extended till 25kms
		3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -				from BBMP limits. The villages which comes under
						BMTC operational jurisdiction and roads which are
		The second second				suitable for the operation of heavy vehicles are been
						provided with the transport facility based on the demand and requirement.
20		2 m				demand and requirement.
						At present as on 06.04.2019, BMTC is operating 1007
						schedules with 15,715 trips to city area and 5186
						schedules with 54,016 trips to sub urban areas totally
2						6193 schedules operating 69,731 trips and the present
					×	operated schedules/trips are as per the demand.
				and the late of		operated selectures, trips are as per the demand.

			,	,r		Further, high traffic mobility places are being identified and transport facilities are being extended from important Bus stations and from other places which comes under the
						BMTC operational jurisdiction with a view to increase the modal shift to mass transport from personal mode of transportation. Thereby considerable decrease in the use of fossil fuels and to mitigate the air pollution.
Vehicles	38	To carryout regular vehicular emission monitoring of KSRTC and BMTC buses and take corrective action for meeting the tail pipe emission standards.	Short	It is a continuous program and in progress	BMTC	At Present, BMTC buses are being subjected to emission check on a monthly basis, for which all the depots are equipped with computerized smoke emission testing facilities. In the event of any bus emitting smoke beyond the permissible limit, action is being taken at the depot level to withdraw the bus from operation for taking corrective measures.
	39	Induct electric buses in phased manner in Bangalore city.	Long	March 2020	BMTC	BMTC has invited Expression of Interest (EoI) on 8.3.2019, for 1500 Electric buses in phased manner over a period of five years and also installation of charging infrastructure required for 1500 electric buses for eventual transition to e-mobility in BMTC

	40	To construct satellite bus	Long	Dec-2020	KSRTC	In order to reduce the traffic congestion in the heart of
<b>&gt;</b>		stands at all National high				the city the KSRTC already established satellite bus
Construction activity		ways leading to Bengaluru.				stands at MCTC-Mysore Road, Basaveshwara bus
acti						station-Peenya and Shanthinagar bus station-
u <sub>0</sub>						Shanthinagar. Further it is very much essential to
cti						establish some more satellite bus stations at Hosur
itru		,				Road, Old Madras Road, Magadi Road, Nelamangala,
ons		7				Kanakapura Road as well as near Yelahanka- Bellary
0						Hyderabad Road. The proposed lands for same are to be
		,				identified at traffic zones.
п	41	To conduct Source	Mid	June -2020	KSPCB	M/s CSTEP has entered the MoU with Department of
om	À	Apportionment Study of	T.			Ecology and Environmental to carry out Inventerisation
Source		Bangalore (BBMP area).				of sources and Source Apportionment Study of
Source						Bangalore city at an estimated cost of Rs 3.00 Crores.
<b>A</b>						The Firm has started the work from March 2019
	42	To carryout ambient air quality	Short	It is a	KSPCB	The Board has established 36 manual ambient air
		monitoring of air pollutants		continuous	*	quality monitoring stations and 31 CAAQMS in
× ×		and publish the Air Quality		program and	190	Karnataka covering all Districts and calculating the
nes		Index (AQI) in the website and	, jë	in progress		AQI and publishing in Website of the Board,
are		communicate the Air Quality	e P		· ·	communicating the air quality status to line Departments
aw:		Status to the line departments	h,			. Also send the AQI through SMS to the all
lic		on regular basis.	7			Departments
Public awareness	43	Carryout regular monitoring of	On going	It is a	KSPCB	The Board is monitoring the industries as per the
		industries and initiate action		continuous	2	periodicity and taking action against defaulting
		against the defaulting		program and		industries
		industries.		in progress		

10	44	To make an action plan to	Long	June -2020	Dept of	The Dept of Energy of GoK is assessing the power
ntre		ensure round —the clock supply	, w		Energy	demand and supply in the State and initiating
$C_0$		of electricity to 4 non -				appropriate action in the matter.
Vir on	3	attainment cities in the State.				
er Air lution		8 (p) -				
0 4 8						

Encl: Reply to Annexure-I

Member Secretary

Karnataka State Pollution Control Board

20

## ANNEXURE-I

State : Karnataka City : Bengaluru

SI No	Key component	Comments on the revised plans by CPCB	KSPCB's Reply
1	Air Quality Monitoring Network	Adequate	No action is required.
2	Source Identification	Major Sources identified except domestic fuel	The Department of Food and Civil Supplies, GoK has informed that, in Bengaluru city the supply of Kerosene to households through public distribution system is stopped and action initiated to supply LPG cylinders under the State and Central Government schemes. With this, the entire Bengaluru city is supplied with LPG.
3	Source Apportion (SA) and Emission Inventory	Included	No action is required
4	Action Points	<ul> <li>Prepare action plan for domestic fuel</li> <li>The plan provides general information for most of the action points and lacks specific action plan related to source group. The detail comments are at Annexure I(b)</li> </ul>	
5	Long term strategy	<ul> <li>Included</li> <li>Timelines proposed for various actions (Up to two years)</li> <li>Specify defined time period for long/Mid/Short term</li> </ul>	<ul> <li>Incorporated in the action plans</li> <li>Incorporated in the action plans</li> </ul>

	0	measures		
6	Public Awareness and	Detail proposal	to be	As a part of public awareness following actions are initiated:
	complaint redressal	worked out		1. The Board is sending the Air Quality Index(AQI) data to all
	mechanism			heads of the State Government departments, Chief Secretary
				and CPCB through SMS on daily basis.
				2. During World Environment Day-2019 extensive awareness
				programmes have been conducted by involving students,
	X 2"			general public, NGOs, Industries and Government Departments
				on air pollution control. The programmes includes Cycle Jathas,
				Walkathan, Planting of saplings, Use of mass transport etc.
		F		3. In the 2019-20 budget Rsearmarked for conducting
	3			awareness programmes.
	and the second of the second	3		4. Publishing Air Quality data in local News media and
69	14			strengthening of complaint redressal Mechanism, conducting
				Awareness programme on urban pollution issues, the Board has
				allotted Rs. 5.00 lakhs to each non- attainment cities.
		85		5. The complaints redressal system is established in the Board. A
				dedicated telephone bearing No. 080-25589114 is allotted to
	D. I	D '1 1		address the complaints.
7	Budget support	Provided		No action is required
8	Overall Recommendations	Not recommended	-	The revised action plans are submitted to accord approval.

Member Secretary
Karnataka State Pollution Control Board

## Air Quality Index (AQI) of Manual Ambient Air Qaulity Monitoring Stations in Bengaluru City for the month of April - 2019

Sl.	Name of the Monitoring Stations	Mo	Monthly average values of Pollutants in μg/m <sup>3</sup>					Sub Index					Index Value	Category	Prominent Pollutant
No		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	NH <sub>3</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	NH <sub>3</sub>		Value		- I onutant
1	Export Promotion Industrial Park, ITPL, White Field Road.	109	46	2	31	31	106	77	3.	39	8	1	106	MODERATE	PM10
2	AMCO Batteries, Mysore Road	99	42	2	33	29	- 99	. 70	3 .	41	7	1	99	SATISFACTORY	PM10
3	Rail Wheel Factory, Yelahanka		_*_	_*_	_*_	_*_	_*_	_*_	_*_	_*_	_*_	_*_	_*_	Monitoring was	not done
4	Swan Silk Pvt. Ltd., Peenya Industrial Area	114	51	2	33	29	109	85	3	41	7	1	109	MODERATE	PM10
5	Victoria Hospital, K. R. Market	59	28	2	33	27	59	47	3	41	7	1	59	SATISFACTORY	PM10
6	Yeswanthapura Police Station, Yeswanthapura.	.93	41	2	34	27	93	68	3	43	7	1	93	SATISFACTORY	PM10
7	TERRI Office Premises, Domlur.	80	35	2	33	30	80	58	3	41	8	1	80	SATISFACTORY	PM10 -
8	Central Silk Board, Hosur Road,	122	44	2	35	28	115	73	3	44	7	1	115	MODERATE	PM10
9	Mr. Madhachari's House, Kazisonnenihalli.	98	40	2	31	24	98	67	3	39	6	1	98	SATISFACTORY	PM10
10	Urban Eco Park, KSPCB Office Premises, Peenya.	92	45	2	32	26	92	75	3	40	7	1	92	SATISFACTORY	PM10
11	Indhira Gandhi Children Health Care Centre.	68	32	2	31	25	68	53	3	39	6	1	68	SATISFACTORY	PM10
12	Banasawadi Police Station, Banasawadi	_*_	_*_	_*_	_*_	_*_	_*_	_*_	_*_	_*_	_*_	_*_	_*_	Monitoring was	
13	S.K.R Silver Jublee Building, K. R. Circle.	38	-*-	2	24	29	38	_*_	3	30	7	1 🖁	38	GOOD	PM10

<sup>\*</sup> Concentrations of minimum three pollutants are required; one of them should be PM<sub>10</sub> or PM<sub>2.5</sub>

<sup>\*</sup> The check displays "1" when a non-zero value is entered

Sl. No.	Range	Category	Possible Health Impacts									
1	0-50	Good	Minimal Impact									
2	51-100		inor breathing discomfort to sensitive people									
3	101-200	Moderate	May cause breathing discomfort to the people with lung disease such as asthma and discomfort to people with heart disease Children and older adults									
4	201-300	Poor	May cause breathing discomfort to people on prolonged exposure and discomfort to people with heart disease									
5	301-400	Very Poor	May cause respiratory illness to the people on prolonged exposure. Effect may be more pronounced in people with lung and heart diseases									
6	> 401	Severe	May cause respiratory effects even on healthy people and serious health effect on people with lung/heart diseases									

Note: -\*- Monitoring was not done