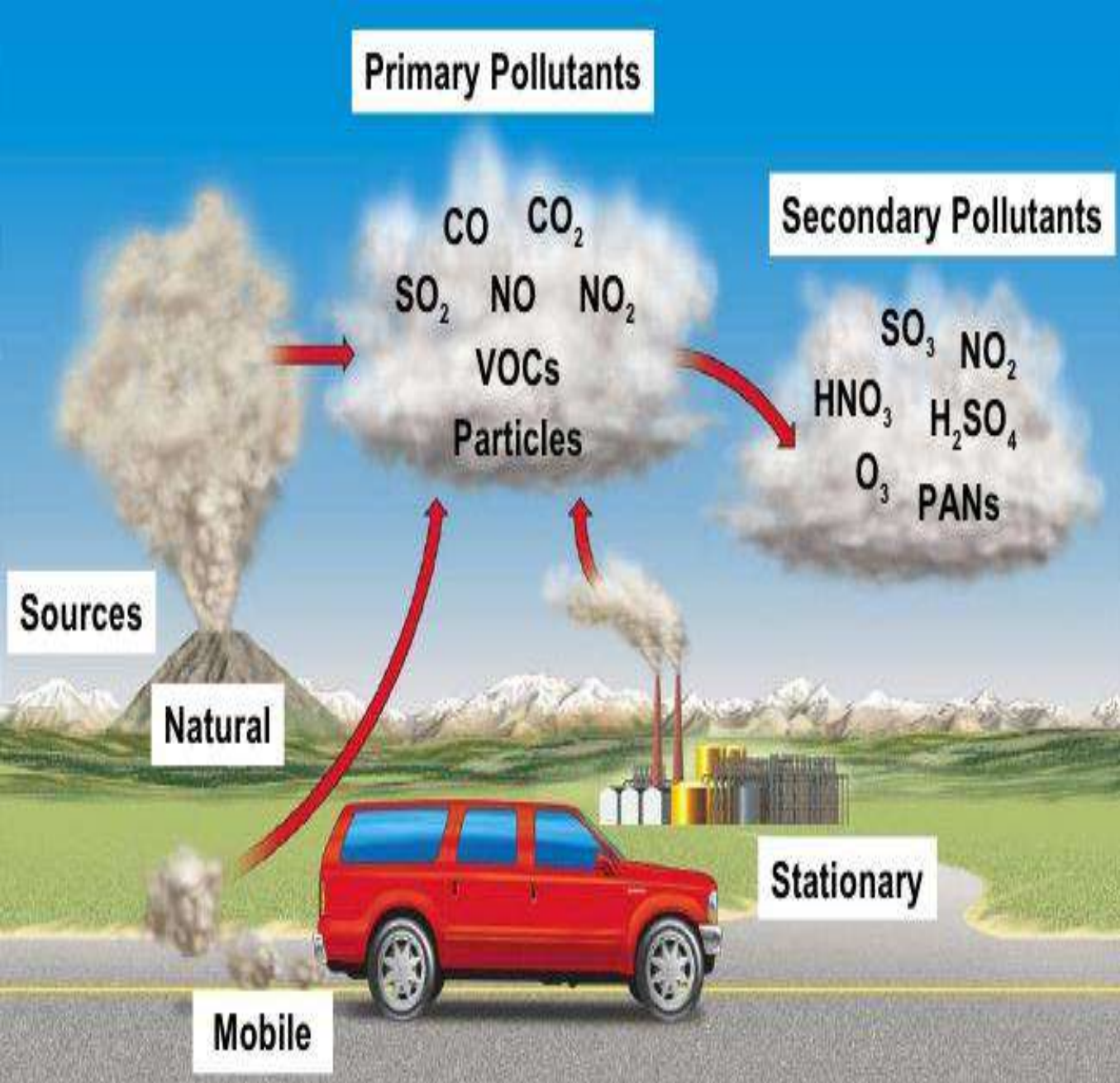


Action Plan for Non Attainment cities/ area (Air Pollution) of Sangareddy of Telangana state



TELANGANA STATE POLLUTION CONTROL BOARD

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Contents:

1. Background	5
2. Telangana State and Non-Attainment Cities/areas	8
3. Constitution of Air quality Management Committee	9
4. Sangareddy	
a. Demographic details	10
b. Ambient Air Quality Monitoring Program	11
c. Ambient Air Quality Trends	12
d. Air Quality Index	13
e. Major Sources of Air Pollution	13
5. Action Plan for reducing the air pollution in Sangareddy	14-26
6. GRAP	27

ABBREVIATIONS

AAQ - Ambient Air Quality

AAQMS - Ambient Air Quality Monitoring systems

AQMC - Air Quality Monitoring Committee

CAAQMS - Continuous Ambient Air Quality Monitoring Station

CPCB - Central Pollution Control Board

DRI - Desert Research Institute

EPTRI - Environment, Protection Training Research Institute

GHMC - Greater Hyderabad Municipal Corporation

MA&UD - Municipal Administration and Urban Development

NGT - National Green Tribunal

NAMP - National Air Quality Monitoring Programme

NREL - National Renewable Energy Laboratory

NAAQS - National Ambient Air Quality Standards

PM - particulate Matter

SAAQM - State Ambient Air Quality Monitoring Programme

SPCBs - State Pollution Control Boards

SPCC - State Pollution Control Committees

TSPCB - Telangana State Pollution Control Board

USEPA - United States Environmental Protection Agency

List of Figures and tables:

Figure.1 Map of Telangana State	9
Figure.2 Map showing Sangareddy	11
Figure 4- Ambient Air Quality Trends in Sangareddy from 2014 to 2018 for RSPM	14
Figure 5- Ambient Air Quality Trends in Sangareddy from 2014 to 2018 for FPM	15

1. Back ground:

Central Pollution Control Board (CPCB) prepared a list of non-attainment cities/towns based on the Ambient Air Quality (AAQ) data with respect to Particulate Matter Concentration for the years 2011-2015. According to which Telangana state is having three non-attainment cities/towns (Hyderabad, Nalgonda and Patancheruvu). The CPCB issued directions under section 18(l)(b) of Air (prevention and control) Act to the Chairman, TSPCB dated:01.07.2016 with various action points and time frame for implementation to lower the air pollution in the non attainment cities in the country. Also, a 42 point action plan was attached for preparation of the action plan.

Accordingly, TSPCB issued directions to the stakeholder departments i.e. MA&UD, Transport, Police, Civil supplies, Revenue Department, GHMC, etc, for submitting time bound action plan for the action points with respect to their departments. The concerned departments submitted action plan, which are consolidated by TSPCB.

The action points and time frame for implementation for various activities was reviewed by the Chairman, TSPCB with all the stake holder departments on 11.01.2017. In Telangana state 3 non attainment cities / town are listed by CPCB Hyderabad, Patancheruvu and Nalgonda. A common action plan was prepared for the Hyderabad and Patancheruvu as the later falls under GHMC area. The action plan was forwarded to the CPCB on 10.03.2017.

The Hon'ble NGT in OA No.681/2018, dt.6-08-2019 issued the following directions in the above order:

I. Hon'ble NGT orders in OA No.681/2018, dated) 6-08-2019:

CPCB, SPCBs and PCCs need to ensure assessment and installation of the requisite number of real time Online Continuous AAQMS within six months from today and indicate progress in this regard before the next date.

The Expert Team of CPCB to design a model/SOP for source apportionment and carrying capacity assessment within two months which may be replicated for all the NACs. In the light of such study, further action may need to be considered by MoEF&CC within three months thereafter in terms of regulating the number of vehicles, action in terms of shift to vehicles and CNG vehicles, intensifying public transport system, mechanical cleaning of roads, enhancement of public parking facilities etc., improvement in fuel quality and traffic management, regulation of construction activities, strict adherence to sitting guidelines with regard to stone

crushers, mining, brick kilns, thermal power plants, coal handling, air polluting industries, hot mix plants, etc. Besides, activities like crop burning and burning of trash wood/leaves/debris for heating in winters to be strictly regulated and violations penalized as has been done by notifications for ESZ, CRZ, Ganga Flood plains etc.

Concerned Town & Country Planning departments (with whatever be the name in the State) of all the States/UTs may ensure review of master plans specially for the NACs to be consistent with carrying capacity and source apportionment study reports within six months of such reports being available and furnish compliance reports to this Tribunal and CPCB.

Concerned States may evolve enforcement mechanism for closing/shifting of industrial units other than household industries from residential/non conforming areas in the light of law laid down in M.C. Mehta vs Union of India, (2004) 6SCC 588.

SPCBs/PCCs need to develop interactive public grievance redressal portals on the pattern of CPCB portal "Sameer" within two months if not already done.

Actions Plans need to be prepared by States for the additional 20 NACs on the pattern of 102 NACs within three months and after its approval by CPCB within two months, States must initiate time bound action on remediation within next three months.

CPCB may finalize the pending action plans within two months. Environmental compensation may be deposited by the defaulting States in terms of our order dated 15.03.2019 with the CPCB.

Timeline prescribed for reviewing action plans with regard to its report dated 15.07.2019 by the CPCB for further micro planning may be reduced from six months, preferably to four months. CPCB may give appropriate directions to the SPCBs/PCCs accordingly.

CPCB must forthwith come out with a compensation regime within two months for air as well as noise pollution to the extent such norms have not yet been laid down.

Having regard to adverse impact on public health and constitutional mandate that right to clean air is a fundamental right, the MoEF&CC may modify the NCAP by reducing the timelines and increasing the target for reduction of air pollution.

Noise Limiters need to be installed on potential noise polluting devices, including retrofitting the existing devices. Appropriate directions be issued by the States/UTs within three months in the same manner as directed by this Tribunal for Delhi vide order dated 01.08.2019 in O.A. No. 519/2016, Hardeep Singh & Ors. vs SDMC & Ors.

The CPCB may also evaluate existing air quality monitoring mechanism of all States and UTs and furnish a report to this Tribunal before the next date in terms of capacity

of its scientific and technical personnel both in terms of number of personnel and skill/competence and outreach programmes on public awareness and suggestions for improvement.

The CPCB and States may have robust Emergency Response System and preparedness by way of mock drills and measures to be taken in the scenario when air pollution levels become severe plus and severe.

The SPCBs and PCCs to submit details of 'consent' funds to CPCB and this Tribunal within two months along with Action Plans on the basis of template provided by CPCB. CPCB may scrutinize and approve such action plans within two months in accordance to our order dated 22.01.2019 in O.A. No.101/2019. Finally, the State PCBs and PCCs may execute their Action Plans within next one year thereafter.

The Environmental Compensation levied by State Transport Departments may be divided in the ratio of 50:25:25 amongst the States, the SPCBs/PCCs and the CPCB.

1. Telangana State and Non Attainment cities/areas:

Central Pollution Control Board (CPCB) prepared a list of non-attainment cities/towns based on the Ambient Air Quality (AAQ) data with respect to Particulate Matter Concentration for the years 2011-2015. According to which Telangana state is having four non-attainment cities/towns (Hyderabad, Patancheruvu, Nalgonda and Sangareddy).

Telangana is the 29th state of India formed on the 2nd of June 2014, the Telangana state map along with the districts are given in the Figure-1 below. The state has an area of 1,12,077 Sq. Km. and has a population of 3,50,03,674. Hyderabad is the capital city of Telangana.



Figure.1 Map of Telangana State

2. Constitution of the Air Quality Management Committee(AQMC):

The Government of Telangana through EFS&T G.O.Rt.No.182, dated: 20.11.2018 (**Annexure-I**) constituted the Air Quality Monitoring Committee (AQMC) with the following members.

1. Director General, Environment, Protection Training Research Institute, Hyd. - Member
2. Commissioner / Director of Transport, Hyderabad -Member
3. Commissioner/Director of Industries, Hyd. –Member
4. Commissioner/Director of Municipal Administration and Urban Development, Hyd - Member
5. Commissioner / Director of Agriculture, Hyderabad. -Member
6. Member Secretary, Telangana State Pollution Control Board, Hyd. – Member Convener

The committee is constituted for reviewing and fine tuning of the existing action plan for Air Quality in Hyderabad, Patancheru with latest developments and preparation of action plan for Nalgonda city. The committee has to work under the supervision of the Secretary, Environment.

3. Sanga reddy:

a. Demographic Details:

Sangareddy District is located in the northern region of the Indian state of Telangana. Sangareddy District is bifurcated from Medak district according to G.O.M.S 239; Dt: 11-10-2016 by Government of Telangana. The district is spread over an area of 4,464.87 square kms (1,723.90 sq mi).



Fig 3. District Map of Sangareddy

As of 2011 Census of India, the district has a population of 15,27,628. The district will have three revenue divisions of Narayankhed, Sangareddy and Zaheerabad are sub-divided into 26 mandals. Sangareddy Municipality was constituted in 1954 and is classified as a first grade municipality with 31 election wards. The jurisdiction of the civic body is spread over an area of 13.69 km (5.29 sq mi).

The city is categorized into Old Sangareddy and New Sangareddy. Old Sangareddy is well-renowned for its bazaars and old district jail, which has been converted to a jail museum. Since Sangareddy is near Hyderabad, it is well connected to other areas. The NH-65 passes through the city. Sangareddy has two Bus Stations, the Old for Ordinary service and the new for luxury and other services.

b. Ambient Air Quality Monitoring Program

TSPCB is monitoring Ambient Air Quality at 3 locations in Sanga Reddy District. The details of which are as follows:

1. Gaddapotharam
2. Sangareddy
3. Pashamylaram

The annual averages of PM10 & Pm2.5 is as follows:

Average PM10 and PM 2.5 concentration in $\mu\text{g}/\text{m}^3$						
Years	Gaddapotharam		Sangareddy		Pashamylaram	
	PM 10	PM2.5	PM 10	PM2.5	PM 10	PM2.5
2014	129	-	70	-	94	42
2015	74	-	65	-	84	36
2016	72	29	66	25	90	39
2017	72	33	63	31	103	46
2018	82	37	65	35	100	45
2019 (Aug)	90	47	69	39	99	39

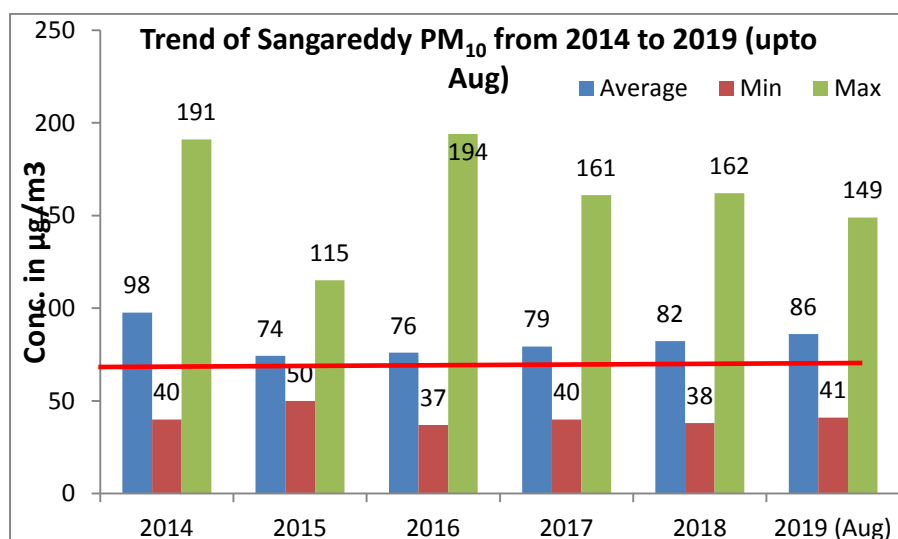


Fig.4 Graph showing the details of the PM10 concentrations with average, Minimum and Maximum

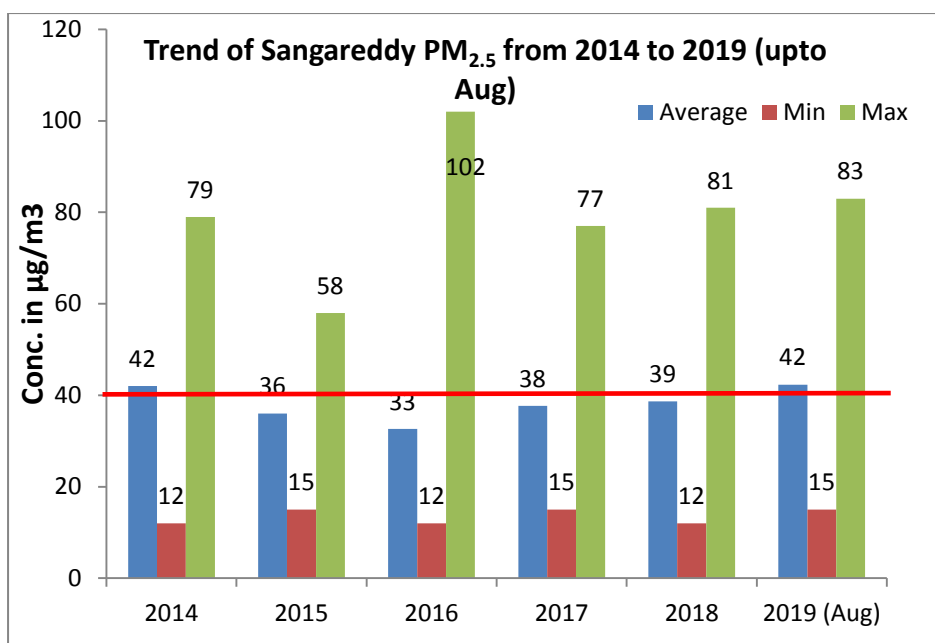


Fig.5 Graph showing the details of the PM_{2.5} concentrations with average, Minimum and Maximum

It may be noted from the above that, the PM₁₀ concentration are continuously exceeding the annual standards. TSPCB has addressed the district administration of Sanga Reddy for preparation of draft Action plan to reduce the air pollution. The draft action plan as communicated is slightly modified to fit into the existing format. The details of the action plan is as follows:

c) Air Quality Index: TSPCB is preparing the air quality index for the Ambient Air Quality. The AQI of CAAQMS is available on the TSPCB website on daily basis and that of the Manual Stations data is available on weekly basis in the website. The AQI of Hyderabad was prepared from the year 2011 onwards to understand the trends of the quality of the air at each of the monitoring location. The details of the AQI is given below in Table-1 and the monthly AQI for the year 2018 is placed in Table -2 understand the seasonal variations in the AQI:

The details of the Air Quality index during the years from 2014 to 2019

S No	Location	2014	2015	2016	2017	2018	2019 (upto Aug)
1	Regional office, Sangareddy, Medak	70	65	66	65	68	71
2	Gaddapotharam, R.C. Puram, Medak	119	73	72	72	82	89
3	Pashamylaram	89	83	96	105	113	100

Monthly Air Quality Index Values of Hyderabad city from Jan to Dec – 2018

Monthly Air Quality Index Values of Sangareddy State from Jan to Dec - 2018													
Location	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Gaddapotharam	101	99	97	97	94	76	57	52	52	78	88	95	82
Sangareddy	68	86	81	80	74	63	49	50	57	65	64	76	68
Pashamylaram	171	105	105	85	86	68	80	100	100	131	156	173	113

Major Sources of Air Pollution:

Vehicles: The major source contributing to Particulate Matter air pollution is Vehicles for both the PM10 & PM2.5.

Road Dust: The second major contributor for the particulate matter pollution is Road dust in case of the PM10. This may be attributed not only to poor maintenance of the road, but also due to the movement of the vehicles on the unpaved shoulders leaving the carriage way where the roads are not paved.

Bio Mass Burning: Open burning of the biomass

Secondary Pollutants: The secondary pollutants due to various chemical reactions in the atmosphere lead to formation of the particulate matter.

4. Action Plan for reducing the air pollution:

The AQMC has approved the action plan prepared in consultation with the stake holder departments, during the meeting held on 4th November, 2019 and the Committee on perusal of the National Clean Air Program has recommended to adopt the tentative National level target of 20%–30% reduction of PM2.5 and PM10 concentration by 2024 keeping 2017 as base year for Sangareddy.

The approved action plan for Sangareddy is as follows.

Format for implementation of action plan

State: Telangana

City: Sangareddy

Year : 2019

Date of direction for ground implementation of action plan (Zero date):

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
A. Vehicle Emission Control	i)	Launch extensive drive against polluting vehicles for ensuring strict compliance	Short	Continue as regular activity	Traffic & RTA	<p>RTA dept:</p> <ol style="list-style-type: none"> 1) Polluting Testing Centres are computerized for scientific testing of Vehicular emission and issue of Pollution Under Control (PUC) Certificates. 2) Valid PUC Certificates are made mandatory at the time of every Transaction in the Offices. 3) Enforcement by the executive officers is a regular activity. During the period from 01.01.2019 to 31.08.2019, (189) cases have been booked for not having valid PUC certifications and an amount of Rs. 1,38,450/- was collected as fine. 4) Identifying more vehicles checking and imposing fine against the polluting vehicles and also educating the people. From January 2019 to september 2019- 250 cases against the violators were booked. 	As a part of the departmental activity

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
	ii)	Launch public awareness campaign for air pollution control, vehicle maintenance, minimizing use of personal vehicles, lane discipline etc	Long	Continue as regular activity	Traffic & RTA	RTA dept: As part of Road safety Programmes being conducted by the Department regularly, it is made a regular practice of conducting awareness programmes at all Industries, Educational Institutions etc, so that every effort would be made to create awareness among the public especially among the students of Educational institutions. Conducting awareness programmes to the drivers of colleges, schools, Auto and also we are conducting awareness programmes to the students of High schools, Jr.colleges, degree college and aslo employees of Pvt. Companies. Conducting awareness programmes to the heavy vehicle drivers i.e. Lorry, RTC Bus, DCM drivers. So far we are conducted (15) awareness programmes.	As a part of the departmental activity
	iii)	Prevent parking of vehicles in the non - designated areas.	short	Continue as regular activity	Traffic	From January 2019 to September 2019, Conducted special drive on parking in non designated areas and (654) cases booked against the violators.	As a part of the departmental activity
	iv)	Initiate steps for retrofitting of particulate filters in diesel vehicles, when BS-VI fuels are available	Long	On BS-VI norms and as per the availability of BS-VI fuels.	RTA & TSRTC	RTA Dept: At present only BS-IV vehicles are being registered by the Department. The GOI has taken decision to implement BS-IV norms. The actions and adoption will be initiated with the introduction of BS-VI fuels.	As a part of the departmental activity

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
	v)	Prepare action plan to check fuel adulteration and random monitoring of fuel quality data	Short(On going regular process)	30 days from the date of approval of the action plan	Civil supplies Department	30 days (Continue as regular activity) Regular checking are being carried out on the fuel quality in (20) fuel dispensing stations available in Sangareddy city.	As a part of the departmental activity
	vi)	Prepare plan for widening of road and improvement of infrastructure for decongestion of road	Nil	Nil	R&B	The (R&B) roads in sangareddy are already widened to double lane which meet the requirement of the existing traffic volume	Nil
	vii)	Prepare plan for construction of express ways/by - passes to avoid congestion due to non- destined vehicles	Long	2 years	R&B	Bypass road to sangareddy town is being taken up NHAI Dept as a part of road widening	Covered under the NHAI budget
	viii)	Steps for promoting battery operated, electric vehicles	Long	Continue as regular activity	RTA	The state Government have issued Notification for exemption from payment of tax in respect of Motor Vehicles operated with battery/compressed Natural gas / Solar energy for a period of five years from the date of registration of such vehicles.	Nil

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
	ix)	Synchronizing traffic movements / introduce intelligent traffic systems for lane driving.	Short	Continue as regular activity	Traffic	In Sangareddy town electronic operated traffic signal have been installed in (4) places i.e., SP's Camp Office, IB(T) Junction, Collectorate and Pothireddypally junction for lane driving and synchronizing traffic.	Nil
	x)	Installation of remote sensor based PUC system, regular calibration of the checking instruments and online integration of the vehicle details with PUC	Long	6 months	RTA	All the PUC Testing Centres are computerized. Tenders have been finalized by the Transport Commissioner, Telangana for identification of the service provider for online PUC integration of the certificates throughout the state. The department also licensing the pollution Test Centers under Rule 484 of TSMV rules in order to cover all the vehicles possessing pollution under control certificates after due physical inspection and repairs to set the standards.	As a part of the departmental activity
	xi)	Promotion of alternate fuels - conversion of the public transport buses and educational institute busses and commercial taxis.	Long	As per the availability of alternate fuels	RTA	Supply and dispensing facilities are not available. The implementation will be commenced along with availability of the gas supply	As a part of the departmental activity

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
	xii)	Disincentivising the growth of vehicles	Long	Continuing as regular Activity	RTA	Government have issued G.O. disincentivizing the purchase of second vehicle by way of 2% additional tax.	
	xiii)	Restriction on plying of 15 years old vehicles	Long	Continuing as regular Activity	Traffic and RTA	RTA Dept: The Government has banned plying of Educational Institution Buses of age more than 15 years. Also the Goods carriages of more than 15 years are banned to ply on the strength of National Permits and they have been restricted to ply only in the state. Conducting special drives to identify 15 years old vehicles to cease their operation.	As a part of the departmental activity
	xiv)	Strengthening of the public transport - increasing awareness on usage of public transport	Short	Under implementation	TSRTC	Public Transport covering the surrounding villages is operated at regular intervals.	As a part of the departmental activity
DJ. RE- suspension of road dust and other fugitive emissions control	i)	Prepare plan for creation of green buffers along the traffic corridors	90 days	Under implementation	Municipal Commissioner, Sangareddy	Steps being taken up by Sangareddy municipality: The municipality taken up mass plantation under Harithaharam programme with a target of 1.00 lakhs plants. As on date nearly 0.30 lakhs are planted. Action plan: 1. Sangareddy proposed to involve & take up the Avenue plantation 2. It is also proposed to take 1 park development under TUFIDC Scheme and it is under process 90% completed	As a part of the departmental activity

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
	ii)	Maintain pot holes free roads for free flow of traffic	Short	Continuing Activity	R&B	Continuing Activity On R&B Roads, all the pot holes are being attended regularly.	As a part of the departmental activity
	iii)	Introduce water fountains at major traffic intersection, where ever feasible	Medium	90 days	Municipal Commissioner, Sangareddy	Will be proposed	-
	iv)	Greening of open areas, gardens, community places, schools and housing societies	Mid	70days	Municipal Commissioner, Sangareddy	It is proposed to take up Greenary fencing around the open spaces graveyard, gardens. And also plants have been distributed among Government and Non government organizations for taking up Harithaharam Programme and it is progress in 10 places	As a part of the departmental activity
	v)	Blacktopping of metalled roads, including pavement of road shoulders	Nil	Nil	R&B	All the R&B roads are black topped with sufficient road shoulders	-
	vi)	Regular cleaning of the roads with mechanised sweepers and	Short	Continuing Activity	Municipal Commissioner, Sangareddy	Continuing Activity Every day cleaning of roads is continuing.	As a part of the departmental activity

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
		removing the slit from the roads					
C) Control of emission from biomass/crop	i)	Launch extensive drive against open burning of bio - mass, crop residue garbage, leaves etc	30 days	Continuing Activity	Municipal Commissioner, Sangareddy	The EFS&T Department vide G.O.Ms.No.27, dt:10.07.2017 issued notification prohibiting open burning of waste and utilization of RDF as fuel in power generation and cement plants. The same are being implemented.	As a part of the departmental activity
	ii)	Regular check and control of burning of municipal solid wastes	Short	Continues regular activity	Municipal Commissioner, Sangareddy	During review meeting, the following instructions were issued to all the staff. 1) There is no burning of garbage in municipality and taken all the measures. 2).Taking strengthen action against open burning of garbage/bio-mass/leaves/tyres etc., to control such activities and submit periodic status report.	As a part of the departmental activity
	iii)	Proper collection of horticulture waste (bio-mass) and its disposal following composting - cum - gardening approach	Short	Continues regular activity	Municipal Commissioner, Sangareddy	Horticulture waste is collecting from the all wards and parks. Two composting pits were provided in ICC, Sangareddy for collecting the horticulture waste of the Collectorate complex.	As a part of the departmental activity

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
	iv)	Ensure ban on burning of agriculture waste and crop residues and its implementation	Long	180 days (continue as regular activity)	Agriculture	It is not a common practice in the state.	As a part of the departmental activity
D)Control of industrial emission	i)	Identification of brick kilns and their regular monitoring, including use of designated fuel, and closure of un authorised unit	short		TSPCB & Revenue	The inventory of the Brick kilns is completed	As a part of the departmental activity
	ii)	Conversion of natural draft brick kilns to induced draft	Long	2 years	TSPCB	The conversion of the Brick kilns into induced draft is being pursued, however as almost all the brick kilns are in unorganised sector without any permanent base, pursuing with them is becoming difficulty and the kilns are operated in small scale. To conduct training and seminars for existing unit holders for converting Conversion of natural draft brick kilns to induced draft.	As a part of the departmental activity

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
	iii)	Action against non - complying industrial units	continuous process	NA	Pollution Control Board	continuous Pollution control Board is regularly inspecting Major polluting industries and initiating action against the erring industries. During the Year 2019-20 Board has issued closure to 14 industries, collected bank guarantee of Rs.396 Lakhs from 35 industries, Forfeited BG of Rs. 12 Lakhs from 2 industries and issued directions to 62 industries in Sangareddy District.	As a part of the departmental activity
	iv)	Shifting of polluting industries	Long	2 years	HMDA, IALA, Industries Dept& TSIC	Govt has issued GO Ms. No. 20, DT 01.03.2013 and is in the process identifying alternate site for shifting industries located within ring road.	As a part of the departmental activity
	v)	Ban on polluting industries	Short	continuous activity	Pollution Control Board	Pollution control Board is implementing the Ban notifications issued by the Government.	As a part of the departmental activity
E) Control of air pollution from construction and	i)	Enforcement of Construction & Demolition Rules	Short	continuous activity	Municipal Commissioner, Sangareddy	To commence within two weeks of receipt of the directions, and there after, continue as regular activity. Suitable lands will be identified.	As a part of the departmental activity
	ii)	Control measures for fugitive emissions from	short	continuous activity	Municipal Commissioner, Sangaredd	Continuous activity A condition stipulated in the building sanction plan that, the applicant should erect temporary screen (blue tin sheet) around the construction of building materials outside the plot site during	As a part of the departmental activity

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
		material handling, conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units			y	the construction to stop environmental pollution and to ensure safety and security to the neighbouring surrounding areas.	
	iii)	Ensure carriage of construction material in closed/ covered vessels	short	continuous activity	Municipal Commissioner, Sangareddy	Continuous activity A condition also insisted that, the building owner shall not dump the building material on footpaths road side and the same shall be dumped inside the compound premises without creating nuisance and air pollution and to this effect an undertaking is being obtained before release of permission.	As a part of the departmental activity
F)Other steps to control Air pollution	i)	Air quality index to be calculated and disseminated to the people through website and other media	Short	continuous activity	Pollution Control Board	Implemented . Implemented and the Air quality index to be calculated and disseminated to the people through PCB website .	As a part of the departmental activity

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
		(maximum weekly basis for manually operated monitoring stations and real time basis for continuous monitoring stations)					
	ii)	Establish an air quality management division at SPCB Head quarters to oversee air quality management activities in the state and interact with CPCB	Short	continuous activity	Pollution Control Board	Implemented. Implemented and air quality management division at SPCB Head quarters to oversee air quality management activities in the state and interact with CPCB.	As a part of the departmental activity
	ii)	Set-up and publicize helpline in Hyderabad city for complaints against	Short	continuous activity	Municipal Commissioner, Sangareddy & Pollution	Implemented. The sangareddy, municipality "My citizen buddy App" to better responding on garbage and other relative works. TSPCB has created Grievances tab in the TSPCB Website to enable public to lodge grievances.	As a part of the departmental activity

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
		reported non-compliance			Control Board		
	iv)	Engage with concerned authorities for continual basis for maximising coverage of LPG/PNG for domestic and commercial cooking with target of 100% coverage	Long	continuous activity	Pollution Control Board, TSIC & Bagyanagar Gas Ltd.,	TSPCB has conducted workshop with Bagyanagar Gas the facilitator and the end users i.e., Industries to use LPG/PNG as fuel in the industries.	As a part of the departmental activity
	v)	Monitoring of DG sets and action against violations	continuous process	continuous activity	Pollution Control Board	The monitoring of DG sets of capacity more than 1000KVA will be continued and take action for implementing effective control measures.	As a part of the departmental activity
	vi)	Strengthening of Ambient Air Quality management Additional stations proposed to CPCB	Long	6 months	Pollution Control Board	The proposal of strengthening the Ambient Air quality network is communicated to CPCB	MoEF & CC funds/TSPCB

Source	S. no	Action points	Implementation period (short/mid/long term)	Time frame for implementation from the date of approval	Responsible Department/s/agency	Any other information (status of implementation of the action plan)	Financial Implications if any
	vii)	Source appointment study	Long	2 years	Pollution Control Board	It will be taken up by the TSPCB after the completion of the SA study for Hyderabad city as capacity building is anticipated during the study	MoEF & CC funds/TSPCB
	viii)	Emission inventory	Long	2 years	Pollution Control Board	It will be taken up by the TSPCB after the completion of the SA study for Hyderabad city as capacity building is anticipated during the study	MoEF & CC funds/TSPCB
	ix)	Hotels, restaurants and dhabas to use cleaner fuels	Mid	continuous activity	Municipal Commissioner, Sangareddy	Regular check ups are being carried out. Most of the hotels are using commercial LPG cylinders	As a part of the departmental activity

Graded Response Action Plan (GRAP): The AQI of sangareddy is mostly from satisfactory to moderate with few occasions under poor category in winter due to inversion in atmosphere. The GRAP is prepared in lines with that of CPCB action plan for Delhi.

Moderate to poor (ambient PM2.5 or PM10 concentration value is between 61-120 µg/m3 respectively)	Agency responsible/Implementing Agency
Stringently enforce / stop garbage burning in landfills and other places and impose heavy fines on person responsible	Municipality and other local bodies
Close/stringently enforce all pollution control regulation in brick kilns and industries	TSPCB
Do periodic mechanized sweeping on roads with heavy traffic and water sprinkling also on unpaved roads every two days	Municipality and other local bodies
	Traffic Police of sangareddy to identify roads with heavy traffic and provide information to respective Municipal Commissioners
	Chief Engineers of officers in charge of CPWB, PWB of Sangareddy to identify unpaved roads with heavy traffic and provide information to Municipal Commissioners
Strict vigilance and no tolerance for visible emissions – stop plying of visibly polluting vehicles by impounding or heavy fine.	Commissioner or Officer in charge, Transport Department and Traffic Police
Strict vigilance and enforcement of PUC norms	
Stringently enforce rules for dust control in construction activities and close non-compliant sites	Municipality and Traffic Police
Deploy traffic police for smooth traffic flow at identified vulnerable areas	Traffic Police


 Member Secretary
 TSPCB
 3/3


 Special Chief Secretary
 EFS&T
 3/3