

1. Nalgonda

Nalgonda is a town located towards the south of the Hyderabad/Ranga reddy. The total area is with few square kilometres and the population of the town is 1,65,000. As per RTO Nalgonda, the total number of vehicles in Nalgonda Town & Mandal is 44,880. In which about 30,000 vehicles are existing in Nalgonda Town. 13 industries are existing in 10 KM radius of Nalgonda Town of which 7 are Orange category (5 Parboiled Rice Mills & 2 Stone Crushers) and 6 are Green category. The Nalgonda town map is placed as Figure

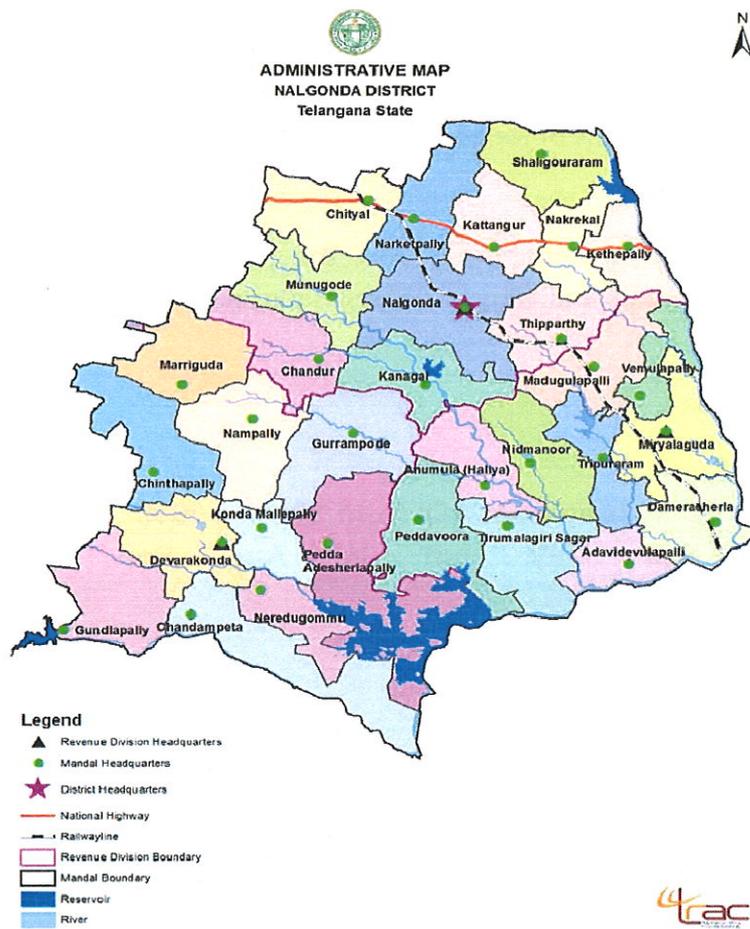


Figure-9: Map of Nalgonda town with Mandals

Ambient air quality is monitored in Nalgonda town at one location and the data of the PM10 annual averages are given in the figure below:

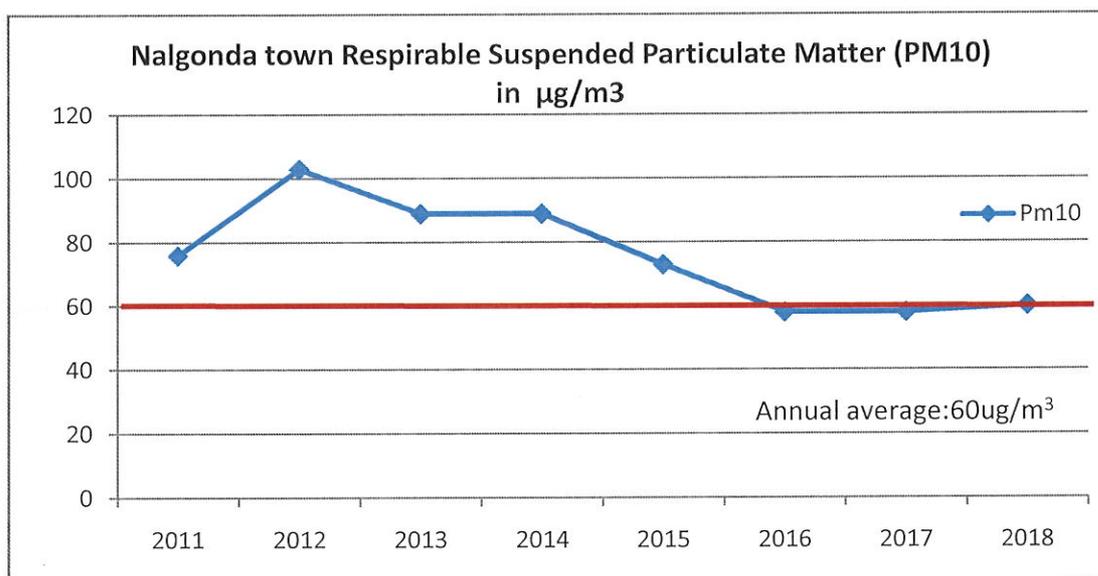


Figure-10: RSPM concentrations of Nalgonda from 2011 to 2018

The PM_{2.5} concentrations are monitored from the year 2017 onwards and the annual average concentrations are 36 and 40 µg/m³. The gaseous parameters are within the limits.

Air Quality Index for Nalgonda

Nalgonda AQI from 2011 to 2018

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2018	68	67	73	69	80	59	58	54	57	56	63	54
2017	73	61	64	70	66	53	64	59	61	64	65	64
2016	64	61	59	70	54	55	54	54	56	59	58	65
2015	88	87	91	85	75	58	58	57	57	73	69	58
2014	89	89	87	91	91	96	91	92	93	70	86	92
2013	86	86	98	92	101	84	75	81	89	90	88	93
2012	101	109	127	113	110	107	97	82	92	92	91	83
2011	78	85	83	72	86	79	70	75	66	64	80	75

Action Plan:

The Air Quality Monitoring Committee (AQMC) during the first meeting held on 4th December, 2018 has made the following recommendation with respect to preparation of the Action Plan for Nalgonda City.

“The committee on perusal of the AAQ trends of the Nalgonda city and the correspondence made by TSPCB with the CPCB has concluded that, based on the air quality data for the period 2011-2015 Nalgonda town was identified as non-attainment city. The directions issued by the Hon’ble NGT are aimed at meeting of the National Ambient Air Quality Standards and as Nalgonda town is meeting the standards since the last three years from 2016 onwards a separate action plan may not be required. Further, the committee noted that at present AAQ monitoring is being carried out at single location and suggested for monitoring at additional locations in Nalgonda, so that more credible data can be obtained for initiating any further action if required”.

During the interactive meeting of the Chairperson, NGT with SPCBs, state secretaries of Environment and Chairman of SEIA through video conference held on 9th January, 2019 it was instructed by Chairperson, NGT for preparation of Action Plan for the Nalgonda town also in addition to the Hyderabad and Patancheruvu. The action plan was communicated to CPCB on 29th January, 2019.

The Committee also discussed on the action plan of Nalgonda town which was prepared in similar lines to that of Hyderabad and Patancehruvu. Though the comments for the Nalgonda Action plan are not received from CPCB till date, the committee without waiting for the comments has revised action plan as per the key components communicated by CPCB for Hyderabad and Patancheruvu

The AQMC during the meeting held on 5th March, 2019 has revised the action plan duly considering the key components given in the comments of CPCB. The approved revised action plan for Hyderabad and Patancheru (Patancheru is a part of the Greater Hyderabad Municipal Corporation) is as follows.

REVISED ACTION PLAN FOR CONTROL OF AIR POLLUTION BY ALL THE STAKE HOLDER DEPARTMENTS IN THE NALGONDA TOWN

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
A. Vehicle Emission Control	i)	Launch extensive drive against polluting vehicles for ensuring strict compliance	Short	continue as regular activity.	Transport & Traffic	<ul style="list-style-type: none"> In Nalgonda town the total vehicle fleet is 48, 600, out of which 43,300 vehicles are non transport vehicle and 5,300 are transport vehicles (commercial). Testing centres are computerised for scientific testing of vehicular emission and issue of PUC certificates. Valid PUC certificates are made mandatory at the time of every transaction in the offices. The Department is conducting drives to enforce the provisions of M.V.Act and Rules to book cases against the vehicles for emitting pollutants beyond permissible levels. 476 cases have been booked in the year 2018 for plying the vehicles without proper certifications collected Rs.3,91,675/-. 	As a part of the department activity

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
	ii)	Launch public awareness campaign for air pollution control, vehicle maintenance, minimizing use of personal vehicles, lane discipline, etc.	Short	Continuous activity at regular intervals	Transport & Traffic	<ul style="list-style-type: none"> As part of Road Safety programmes being conducted by the Department regularly, it is made a regular practice of conducting awareness programmes especially at all industries, educational institutions, etc., so that every effort would be made to create awareness among the public especially the students of educational institutions. Strict enforcement and awareness programmes on vehicle pollution control are being taken by Transport and traffic police. TSPCB is also promoting public awareness by conducting workshops, awareness campaigns at regular intervals on all important environmental related occasions through print, electronic media and 	As a part of the department activity from the budget of the respective departments

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
						<p>through Short messages to the mobile users</p> <ul style="list-style-type: none"> To promote awareness among educational institutions by displaying short video clips TSPCB procured vehicles with electronic media and models display. Telangana National Green Corps (NGC) is actively involved in promoting environmental awareness among the students by conducting various year long programs in educational institutions The Green plantation is the other main concept which is being undertaken by the Department to save the environment 	
	iii)	Prevent parking of vehicles in the non-designated areas	Short	continue as regular activity.	Traffic police	The commuters are educated not to put their vehicles haphazardly on the roads and also not to disturb free flow of traffic.	As a part of dept. activity

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
	iv)	Initiate steps for retrofitting of particulate filters in diesel vehicles, when BS-VI fuels are available	Long	Action plan as per the availability of BS-VI fuels	Transport and TSRTC	As Gol has taken a decision to implement BS-VI. Only BS-IV vehicles are being registered. The actions and adoption will be initiated with the introduction of the BS-VI fuels.	Nil
	v)	Prepare action plan to check fuel adulteration and random monitoring of fuel quality data.	Short	30 days and continue as regular activity	Civil Supplies department	Regular Checkings are being carried out on the fuel quality in the 16 fuel dispensing stations available in the town	As a part of the department activity
	vi)	Prepare plan for widening of road and improvement of infrastructure for decongestion of road.	Long	Tentatively one year and the land acquisition is under process	R&B	Road widening proposals are being prepared.	Proposals are being prepared
	vii)	Prepare plan for construction of express ways/ by-passes to avoid congestion due to non – destined vehicles.	Long	By-pass road is existing for diverting the non-destined vehicles	R&B	A By-pass road was constructed to divert the non-destined vehicles from town and is in operation.	Nil
	viii)	Steps for promoting battery	Long	180 days	Transport	The State Government have	Nil

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (if any)
		operated / electric vehicles				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. GoT is developing the E-vehicle policy to promote the same. The draft policy is released for comments. The road map is also proposed.	
	ix)	Synchronizing traffic movements / introduce intelligent traffic systems for lane driving.	short	Only three traffic junctions are managed with signals	Traffic police	In Nalgonda town the total vehicle fleet is 48, 600, out of which 43,300 vehicles are non transport vehicle and 5,300 are transport vehicles (commercial). The traffic movement is regulated at only three junctions using traffic signals. Traffic jams are quiet uncommon in Nalgonda owing to its small vehicle fleet.	As a part of the department activity

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
	x)	Installation of remote sensor based PUC system, regular calibration of the checking instruments and online integration of the vehicle details with PUC	Long	180 days	Transport	All the PUC testing centres are computerized. Tenders have been finalised for identification of the service provider for online PUC integration of the certificates across the state. The Department also licensing the Pollution Test Centers under Rule 484 of T.S.M.V.Rules in order to cover all the vehicles possessing Pollution Under Control Certificates after due physical inspection and repairs to set the standards. A thorough checks on the Pollution Test Centers are also conducted to see that the Pollution testing equipments are calibrated periodically as per the schedule	As a part of the department activity
	xii)	Disincentivising the growth of Vehicles	Short	Under implementation	Transport	Government issued G.O disincentivising the purchase of	Nil

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
	xiii)	Restriction on plying of 15 years old vehicles	Long	180 days	Transport and Traffic	A policy decision for implementation of the ban/prohibition of 15 years old vehicles to ply on roads is in the pipe line for certain categories of vehicles initially and the other categories gradually.	Nil
	xiv)	Strengthening of the public transport -Increasing awareness on usage of public transport available	Short	90 days	TSRTC	As the town is a small area the public transport system operation covers the connecting of the neighbouring villages with the town. The para transit mode(3 & 4 wheeler Autos) cater the needs for the town	Nil
B).Re-suspension	i)	Prepare plan for creation of green buffers along the traffic corridors	Mid	Continue as regular activity	Nalgonda Municipal Corporation	Plantation under Haritha Haram programme with a target of 5.00 Lakhs plants for the year 2018-19 is under implementation and as	Part of Government's flagship program

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (if any)
						on date 2.50 Lakhs plantations are taken up and the remaining 2.5 lakhs plantation will be taken up in the coming season.	Haritha Haram (green garland)
	ii)	Maintain pot holes free roads for free-flow of traffic	Short	Continue as regular activity	R&B	The R&B is maintaining the roads in Nalgonda and is attending the potholes on regular basis	As a part of the department activity
	iii)	Introduce water fountains at major traffic intersection, wherever feasible	Mid	Continuing activity	Nalgonda Municipal Corporation	A fountain is installed in the main centre in Nalgonda town. The feasibility of placing additional fountains will be explored within 90 days for initiating actions.	Nil
	iv)	Greening of open areas, gardens, community places, schools and housing societies.	Mid term	Continuing activity	Nalgonda Municipal Corporation	The Avenue plantation will be taken up in the coming season involving the Housing societies, NGOs and Educational institutions 2 parks are taken for development under AMRUT scheme & it is under Tender	Part of Government's flagship program Haritha Haram (green garland)

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
						process	
	v)	Regular cleaning of the roads with mechanised sweepers and removing the silt from the roads	Short	Regular Activity	Nalgonda Municipal Corporation	Every day cleaning of roads is continuing	As a part of the department activity
	vi)	Paving of Foot Paths	Mid/Long	180 days	Nalgonda Municipal Corporation	The proposals for increasing the length of the foot paths, in the identified busy areas to prevent the lofting of the dust because of the movement of the vehicles on the unpaved roads will be taken up.	Proposals are being prepared
(c) Control of	i)	Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves etc.,	Short	Within 90 days as continue regular activity.	Nalgonda Municipal Corporation	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 department activity

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
	ii)	Regular check and control of burning of municipal solid wastes.	Short	Within 90 days as continue regular activity.	Nalgonda Municipal Corporation	Special drives conducted regularly and daily monitoring by the field staff in Sanitary section i.e Sanitary Supervisors, Sanitary Jawans and Sanitary field Assistants.	As a part of the department activity
	iii)	Proper collection of horticulture waste (bio- mass) and its disposal following composting – cum-gardening approach.	Mid	Within 90 days as continue regular activity.	Nalgonda Municipal Corporation & Agriculture	In all parks composting pits were provided for collecting the horticulture waste. The compost generated from such pits to be utilized within the parks itself.	As a part of the department activity
	iv)	Ensure ban on burning of agriculture waste and crop residues and its implementation.	Long	180 days as continue regular activity.	Agriculture	It's not a common practice in the state. The Agriculture department to issue notification for Ban on burning of agriculture waste and crop residues with implementation mechanism.	Nil
D. Control of Industrial	i)	Identification of brick kilns and their regular monitoring, including use of designated fuel, and closure of un-authorised unit	Short/Mid	60 days	TSPCB & Revenue	The Govt. of Andhra Pradesh has issued guidelines vide GO Ms.No.80, dt:22.04.2010 and the Revenue authorities i.e., Collector, District Magistrate / RDO – Tahsildar are taking action	Nil

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
						against defaulting units under provisions of Cr.P.C. The district collector has to monitor implementation of guidelines.	
	ii)	Conversion of natural draft brick kilns to induced draft	Long	120 days	TSPCB	TSPCB based on the guidelines issued by CPCB has directed the field Officers to conduct an inventory of Brick kilns, as most of them are in unorganized sector. Based on the inventory of the Brick kilns an action plan will be prepared duly considering the size of the Brick kilns, the economic feasibility of placing induced draft and alternate fuels	Nil
	iii)	Action against non-complying industrial units	Short	continue as regular activity.	TSPCB	13 industries are existing in 10 KM radius of Nalgonda Town of which 7 are Orange category (5 Parboiled Rice Mills & 2 Stone Crushers) and 6 are Green category TSPCB is carrying out regular	As a part of the department activity

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
(E). Control of air pollution from construction and demolition activities.	i)	Enforcement of Construction & Demolition Rules	Short	30 days and continue as regular activity.	Nalgonda Municipal Corporation & TSPCB	<p>The following conditions for controlling and preventing the Air Pollution while granting the building construction permission:</p> <p>As per Clause 3(e) of G.O.Ms.No.168 MA, dated: 07.04.2012, it is mandatory to obtain the Environmental Clearance from State Environmental Impact Assessment Authority (SEIAA), MoEF&CC, Govt. of India for the building with 20,000 sq. mts. and</p>	<p>monitoring of the industries and computerised inspection are being carried out. The non-complying units are reviewed and directions are being issued for compliance which range from imposing the Bank Guarantee for implementing the actions recommended by the Task force committee, stop production and closure.</p>

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
	ii)	Control measures for fugitive emissions from material handling, conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units.	Short	30 days and continue as regular activity	Nalgonda Municipal Corporation	above built-up area. A condition is stipulated in the building sanction plan that, the applicant should erect temporary screen (blue tin sheet) around the construction are to avoid spilling of the building material outside the plot / site during the construction to stop environmental pollution and to ensure safety and security to the neighbouring / surrounding areas. A condition also insisted that the building owner shall not dump the building material on foot-path / 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 department activity
	iii)	Ensure carriage of construction	Short	Being	Nalgonda	C&D waste is being transported	As a part

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
		material in closed / covered vessels.		implemented and to continue as regular activity	Municipal Corporation	with covered vehicles to arrest fugitive emissions.	of the department 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 (maximum weekly basis for manually operated monitoring stations and real time basis for continuous monitoring stations)	Short	Being implemented and to Continue the activity	TSPCB	<ul style="list-style-type: none"> Air quality index booklet is initiated from Jan., 2016 onwards. The AQI data of all the manual monitoring stations are kept in TSPCB website. 	Nil
	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	Already established and to Continue the activity	TSPCB	<ul style="list-style-type: none"> AQM division is established under SES, CL supervision with 2 dedicated scientific officers to look into all air quality issues. Through e-samiksha platform of CPCB regular interactions will be carriedout. All the monitoring data is entered 	Nil

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
	iii)	Strengthening of Ambient Air Quality Management	Short	Proposed to CPCB for CAAQMS and additional manual monitoring station is about to be commenced	TSPCB	through online portal of CPCB i.e. Environmental Air Quality Data Entry System (EAQDES). TSPCB is operating one AAQM station under the NAMP and additionally as per the recent criteria communicated by the CPCB which is based on the population, the number of AAQM stations required for Nalgonda as per the 2011 census are 4 (1 CAAQMS & 3 Manual AAQMS). The requirement is communicated to CPCB through letter dated: 08.02.2019 for providing the funds as per the Hon'ble NGT order that MoEF&CC will provide requisite funds for the purpose.	1 crore as per Hon'ble NGT order to be provided by MoEF&C, GoI
	iv)	Set-up and publicize helpline in Hyderabad City for complaints against reported non-compliance.	Short	Already established and to Continue the activity	TSPCB	TSPCB established online public grievance redressal system in its website to receive online complaints. In addition, a 24x7 toll free number 10741 and 040-23887500.	Nil

Source	S. No.	Action points	Implementation period (short/mid/long) term	time frame for implementation from the date of approval	Responsible Departments/ agency	Any other information	Financial Implications (If any)
	v)	Monitoring of DG sets and action against violations	Short	Continue as regular activity	TSPCB	TSPCB is monitoring the industrial DG sets for compliance of the standards.	Nil

Graded Response Action Plan (GRAP): The AQI of Nalgonda is Good to satisfactory with moderate inversion 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	Nalgonda Municipal Corporation
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	Nalgonda Municipal Corporation Head, Traffic Police dept of Nalgonda to identify roads with heavy traffic and provide information to respective Municipal Commissioners
Strict vigilance and no tolerance for visible emissions – stop plying of visibly polluting vehicles by impounding or heavy fine.	Chief Engineers of R&B to identify unpaved roads with heavy traffic and provide information to Municipal Commissioners
Strict vigilance and enforcement of PUC norms	Commissioner or Officer in charge, Transport Department and Traffic Police
Stringently enforce rules for dust control in construction activities and close non-compliant sites	Nalgonda Municipal Corporation and Traffic Police
Deploy traffic police for smooth traffic flow at identified vulnerable areas	Traffic Police


Member Secretary
TSPCB


Special Chief Secretary
EFS&T